PLANNING COMMISSION AGENDA

CHAIRPERSON:
Mary Beatie

VICE CHAIRPERSON:
Chris Tavarez

COMMISSIONERS: Adam Peck, Bill Davis, Charlie Norman, Chris Tavarez, Mary Beatie

MONDAY, AUGUST 12, 2024
VISALIA COUNCIL CHAMBERS
LOCATED AT 707 W. ACEQUIA AVENUE, VISALIA, CA
MEETING TIME: 7:00 PM

1. CALL TO ORDER –
2. THE PLEDGE OF ALLEGIANCE –
3. ROLL CALL –
4. CITIZEN'S COMMENTS – This is the time for citizens to comment on subject matters that are not on the agenda but are within the jurisdiction of the Visalia Planning Commission. You may provide comments to the Planning Commission at this time, but the Planning Commission may only legally discuss those items already on tonight's agenda.

   The Commission requests that a five (5) minute time limit be observed for Citizen Comments. You will be notified when your five minutes have expired.
5. CHANGES OR COMMENTS TO THE AGENDA –
6. CONSENT CALENDAR - All items under the consent calendar are to be considered routine and will be enacted by one motion. For any discussion of an item on the consent calendar, it will be removed at the request of the Commission and made a part of the regular agenda.
   - None
7. PUBLIC HEARING – (continued from July 22, 2024) Cristobal Carrillo, Associate Planner
   a. **Annexation No. 2024-01:** A request by San Joaquin Valley Homes to annex two parcels totaling approximately 59.13-acres into the City Limits of Visalia. Upon annexation the area would be zoned R-1-5 (Single-Family Residential, 5,000 square foot minimum site area), which is consistent with the General Plan Land Use Designation of Residential Low Density.
   b. **Elliot Tentative Subdivision Map No. 5597:** A request by San Joaquin Valley Homes to subdivide two parcels totaling approximately 59.13-acres into 225 lots for single-family residential use and additional out lots for landscaping and a neighborhood park, to be located within the R-1-5 (Single-Family Residential, 5,000 square foot minimum site area) zone.

Environmental Assessment Status: An Initial Study was prepared for this project, consistent with the California Environmental Quality Act (CEQA), which disclosed that environmental impacts are determined to be not significant with the inclusion of mitigation measures. Mitigated Negative Declaration No. 2024-05 has been prepared for adoption with this project (State Clearinghouse No. 2024061280).

Location: The project site is located west of South Roeben Street, approximately 650 feet south of West Tulare Avenue (APNs: 087-010-006, 008).

8. PUBLIC HEARING – Josh Dan, Senior Planner & Nathan Perez, Planning Intern

   a. **Tentative Parcel Map No. 2024-07:** A request by Corwyn Oldfield to subdivide a 12-acre parcel into four separate parcels measuring 2.28 acres, 3.90 acres, 1.75 acres, and 4.09 acres respectively in the R-1-5 (Single-Family Residential, 5,000 sq. ft. minimum lot area) zone.

   b. **Conditional Use Permit No. 2024-22:** A request by Corwyn Oldfield to create three residential parcels without direct street access in the R-1-5 (Single-Family Residential, 5,000 square feet) zone.

      Environmental Assessment Status: The project is Categorically Exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15315, Categorical Exemption No. 2024-32.

      Location: The project site is located at 4222 West Ferguson Avenue (APN: 077-190-015).

9. PUBLIC HEARING – Colleen Moreno, Assistant Planner & Fabian Marquez-Urena, Planning Intern

   Conditional Use Permit No. 2024-25: A request by RBL Aesthetics to establish an aesthetic treatment academy in the D-MU (Downtown Mixed Use) zone. The project is located at 220 South Bridge Street (APN: 094-304-006). The project is Categorically Exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15301, Categorical Exemption No. 2024-35.

10. PUBLIC HEARING – Josh Dan, Senior Planner

    Conditional Use Permit 2024-29: A request by Mike Davis to modify Condition of Approval No. 10 of Conditional Use Permit No. 2021-22, limiting the hours of operations from 5:00 A.M. to 12:00 A.M. for a Jack in the Box fast food restaurant in the Neighborhood Commercial (C-N) zone. The project site is located at 1145 South Lovers Lane (APN: 100-120-051). The project is Categorically Exempt from the California Environmental Quality Act (CEQA) pursuant to CEQA Guidelines Section 15301, Categorical Exemption No. 2024-40.

11. PUBLIC HEARING – Cristobal Carrillo, Associate Planner

    Revocation of Conditional Use Permit No. 2019-27: A request by the City of Visalia, pursuant to Municipal Code section 17.38.040, to revoke Conditional Use Permit No. 2019-27, which allows the operation of a massage therapy business at 500 South Santa Fe Street located in the O-C (Office Conversion) zone (APN: 097-121-023).

12. CITY PLANNER UPDATE

13. ADJOURNMENT

The Planning Commission meeting may end no later than 11:00 P.M. Any unfinished business may be continued to a future date and time to be determined by the Commission at this meeting. The Planning Commission routinely visits the project sites listed on the agenda.

For Hearing Impaired – Call (559) 713-4900 (TTY) 48-hours in advance of the scheduled meeting time to request signing services.

Any written materials relating to an item on this agenda submitted to the Planning Commission after distribution of the agenda packet are available for public inspection in the City Office, 315 E. Acequia Visalia, CA 93291, during normal business hours.

APPEAL PROCEDURE

THE LAST DAY TO FILE AN APPEAL IS THURSDAY, AUGUST 22, 2024, BEFORE 5:00 PM

According to the City of Visalia Zoning Ordinance Section 17.02.145 and Subdivision Ordinance Section 16.04.040, an appeal to the City Council may be submitted within ten days following the date of a decision by the Planning Commission. An appeal form with applicable fees shall be filed with the City Clerk at 220 N. Santa Fe, Visalia, CA 93291. The appeal shall specify errors or abuses of discretion by the Planning Commission, or decisions not supported by the evidence in the record. The appeal form can be found on the city's website www.visalia.city or from the City Clerk.

THE NEXT REGULAR MEETING WILL BE HELD ON MONDAY, AUGUST 26, 2024

REPORT TO CITY OF VISALIA PLANNING COMMISSION

HEARING DATE: August 12, 2024 (Continued from July 22, 2024)

PROJECT PLANNER: Cristobal Carrillo, Associate Planner
Phone No.: (559) 713-4443
Email: cristobal.carrillo@visalia.city

SUBJECT: **Annexation No. 2024-01:** A request by San Joaquin Valley Homes to annex two parcels totaling approximately 59.13-acres into the City Limits of Visalia. Upon annexation the area would be zoned R-1-5 (Single-Family Residential, 5,000 square foot minimum site area), which is consistent with the General Plan Land Use Designation of Residential Low Density.

Elliott Tentative Subdivision Map No. 5597: A request by San Joaquin Valley Homes to subdivide two parcels totaling approximately 59.13-acres into 225 lots for single-family residential use and additional outlots for landscaping and a neighborhood park, to be located within the R-1-5 (Single-Family Residential, 5,000 square foot minimum site area) zone.

Project Location: The project site is located west of South Roeben Street, approximately 650 feet south of West Tulare Avenue (APNs: 087-010-006, 008).

STAFF RECOMMENDATION

Annexation No. 2024-01

Staff recommends that the Planning Commission recommend that the City Council approve Annexation No. 2024-01, as conditioned, based on the findings in Revised Resolution No. 2024-08. Staff's recommendation is based on the conclusion that the request is consistent with the Visalia General Plan.

Elliott Tentative Subdivision Map No. 5597

Staff recommends approval of the Elliott Tentative Subdivision Map No. 5597, as conditioned, based on the findings and conditions in Revised Resolution No. 2024-07. Staff's recommendation is based on the conclusion that the request is consistent with the Visalia General Plan, Zoning and Subdivision Ordinances, Housing Accountability Act (Government Code section 65589.5) and the Visalia Housing Element.

RECOMMENDED MOTION

I move to recommend approval of Annexation No. 2024-01, based on the findings and conditions in Revised Resolution No. 2024-08.

I move to approve Elliott Tentative Subdivision Map No. 5597, based on the findings and conditions in Revised Resolution No. 2024-07.

CONTINUED PUBLIC HEARING FROM JULY 22, 2024

The Planning Commission conducted a public hearing on July 22, 2024, for Annexation No. 2024-01 and Elliott Tentative Subdivision Map No. 5597. After receiving the staff presentation and public testimony from the applicant and neighboring property owners, the Planning Commission continued the item to the August 12, 2024, meeting. The decision to continue the item was due to information provided during the public hearing from property owners within the Savannah Heights subdivision to the south. The property owners raised concerns about what would occur to a five-

foot-wide strip of land under their ownership, as it is located between an existing block wall and the southern boundary of the Elliott Subdivision site.

The property owners stated that development of the Elliott Subdivision would infringe on their property and requested clarification on how the "5 foot wide by 1,197 foot long" strip of land under their ownership would be maintained and protected from possible trespassing. The Planning Commission directed staff to conduct research on the Savannah Heights subdivision to determine how the five-foot block wall offset from property line came to be, and directed the project applicant (San Joaquin Valley Homes) to reach out to affected property owners to devise potential solutions to address their concerns.

Savannah Heights Subdivision Map

On April 12, 1993, the Visalia Planning Commission approved the Savannah Heights Tentative Subdivision Map and Conditional Use Permit No. 1993-10. These projects were a request to develop a 53-lot single-family residential subdivision at a density of two dwelling units per acre in the former R-A (Rural Agricultural) zone. The Savannah Heights subdivision is located north of West Walnut Avenue, between South Shirk Street and South Roeben Street, just south of the proposed Elliott Subdivision. As part of the analysis for the Savannah Heights project (see the 1993 staff report in Exhibit "L"), concerns were noted about potential impacts from the property to the north (i.e. the future Elliott Subdivision site), as it was in agricultural production at the time. To mitigate impacts from farming operations on the future Savannah Heights residential development, three conditions of approval were applied to create a buffer between the future residential uses and existing agricultural uses. The conditions were as follows:

- Application of a 50-foot-wide non-habitable rear setback area along the northern portion of the six lots adjacent to the agricultural parcel to the north.
- Installation of a 6-foot, 8-inch-tall block wall along the northern edge of the six lots adjacent to the agricultural parcel to the north, setback five feet behind the northern property boundary "…*to provide turning areas for farm equipment*," and planting of a tree row inside the wall. The report notes that this wall "…*would be maintained by the individual homeowners*."
- Attachment of a "Right to Farm" notice to the Final Subdivision Map and property deeds.

The agricultural buffer measures are included as Conditions of Approval Nos. 6, 7, and 8 of the Savannah Heights Planning Commission resolution (see Exhibit "K"). The block wall and 5-foot buffer are depicted in the Savannah Heights plans in Exhibit "J". Please note that the report does not provide information on how the agricultural buffer measures originated. The report and exhibits also do not indicate what would occur to the block wall and 5-foot "buffer area" upon development of the property to the north.

Meeting with Savannah Heights Property Owners

On July 26, 2024, San Joaquin Valley Homes (SJVH) staff hand delivered letters to the property owners of the six Savannah Heights properties affected by the five foot buffer area. The letter (attached as Exhibit "H") invited the property owners to an onsite meeting on July 30, 2024 to discuss options formulated by SJVH to address the issue. SJVH staff proposed two possible solutions, listed below as follows:

- Facilitation of a Lot Line Adjustment (LLA) by SJVH to incorporate the five-foot area from each affected parcel into the Elliott Subdivision project site. Fees associated with the LLA (estimated at $20,000) would be paid by SJVH and would go towards preparation and recordation of the LLAs; or

- Construction of a new 6-foot, 8-inch tall block wall along the property line shared between the Elliott Subdivision site and the six Savannah Heights lots, with construction costs to be shared by all parties involved. Costs for removal of the existing block wall would be at the expense of the Savannah Heights property owners. Based on current estimates provided by SJVH, the cost of constructing a block wall is approximately $100 per linear foot. With each site containing an approximately 200-foot-long rear property boundary, the total cost per parcel would be approximately $20,000. SJVH would provide the Savannah Heights homeowners with two bids for construction of the wall, after which SJVH would collect $10,000 from each property owner for the walls construction. SJVH would provide Savannah Heights homeowners up to six months to pay the $10,000 amount to SJVH.

The applicant provided a block wall cost breakdown for each of the six lots as noted in the table below:

Savannah Heights Property Owner	Wall Length (LF)	Cost ($/LF)	Total Cost	Proposed Owner Share	SJVH Cost
Tenn	245	110	$26,950	$10,000	$16,950
Schouten	197	110	$21,670	$10,000	$11,670
Swanson	189	110	$20,790	$10,000	$10,790
Baldwin	189	110	$20,790	$10,000	$10,790
Jongsma	196	110	$21,560	$10,000	$11,560
Brown	185	110	$20,350	$10,000	$10,350

Both options provided by SJVH would require unified cooperation from all six affected property owners in order to create an orderly shared boundary. A summary of the July 30, 2024 meeting is provided in Exhibit “I”. Per the information provided by SJVH staff, five out of the six affected property owners attended the meeting. Responses to the proffered solutions from SJVH were mixed, with a majority of the attendees requesting SJVH be solely responsible for the full cost to construct a new block wall on the shared property boundary. SJVH notes that the cost to construct a new block wall would be approximately $132,110, and that requiring SJVH to pay the full amount on its own would pose an unreasonable burden to development of the subdivision. Staff has noted a block wall is not required between single-family residential developments under state building code or the Visalia Municipal Code and this would be an additional expense. The e-mail states that alternative proposals from the Savannah Heights property owners would be entertained by SJVH. However, per SJVH staff no alternative proposals have been received as of the release of this staff report.

Conclusions

Staff notes that the applicant appears to have made a good faith effort to find a solution to remove the five-foot strip of land that is located between an existing block wall and the southern boundary of the Elliott Subdivision site. In spite of these efforts, the applicant was unable to forge a consensus amongst the affected property owners. Staff further notes that neither the applicant nor the City can compel the affected Savannah Heights property owners to cooperate with the applicant. The City also cannot legally require SJVH to acquire properties it does not own in order to facilitate removal of the five-foot strip of property owned by the Savannah Heights property owners, especially when the property owners do not wish to participate. There is also no codified

development standard within the Visalia Municipal Code that requires a block wall to be constructed between R-1-5 zoned sites. Lastly, staff's research into the development requirements for the Savannah Heights subdivision determined that no remedy was ever provided to remove the five-foot offset of the block wall from the shared property line, once development of the former agricultural site (i.e. the Elliott Subdivision site) occurred.

As a result staff concludes that no additional conditions should be applied to the Elliott Subdivision to address the five-foot offset area abutting the project site, except for Condition No. 9 of Elliott Tentative Subdivision Map No. 5597, which requires that a seven-foot-tall block wall be installed along the shared property boundaries between the proposed park and adjacent residential properties (Outlot E and Lot 1 of the Elliott Subdivision, Lots 44 and 45 of Savannah Heights Subdivision Unit 3, and property located at 1627 South Roeben Street). This condition is recommended to prevent impacts from use of the park on surrounding properties. Legally, the applicant/subdivider can construct a new fence on the property line shared with the six Savannah Heights property owners affected by the five-foot buffer area. The five-foot buffer areas owned by the six Savannah Heights property owners will be required to be maintained by those same property owners.

A revised resolution noting the continuance is included with this report. Additional public comment is also included in the "Public Comment Letters" exhibit provided by Jim and Carmen Martinez, owners of property within Tulare County jurisdiction, just southwest of the project site. Otherwise, the analysis and project conditions as contained within the July 22, 2024, Planning Commission staff report and revised resolutions for Annexation No. 2024-01 and Elliott Tentative Subdivision Map No. 5597, remain unchanged.

PROJECT DESCRIPTION

The applicant, San Joaquin Valley Homes, has filed entitlement applications for the development of a 225-lot single-family residential subdivision, on 59.13 acres across two parcels located outside of City Limits, within the Tier II urban development boundary. The project site is primarily vacant, with a Valley Oak grove at the northwestern corner, and corn planted at the southwestern corner. Though the project site is not currently within an agricultural preserve, it is designated as Prime Farmland. Entitlements for this project consist of an annexation and tentative subdivision map.

Annexation No. 2024-01 is a request to annex the 59.13 acres into the Visalia City Limits (see Exhibit "B"). Upon annexation, the zoning designation for the project site will be R-1-5 (Single-Family Residential 5,000 square foot minimum site area), as dictated by the Visalia General Plan land use designation of Low Density Residential.

Elliott Tentative Subdivision Map No. 5597 is a request to subdivide the 59.13 acres into a 225-lot single-family residential subdivision (see Exhibit "A"), to be developed in two phases (Exhibit "C"). The density of the subdivision will be 3.8 dwelling units per acre, consistent with the density range of the Low Density Residential General Plan land use classification, which notes density between 2 to 10 units per acre. The development will be serviced by 60-foot wide public local streets containing full improvements (curb, gutter, parkway landscaping, sidewalks, and streetlights), sewer lines, storm drainage, and other public infrastructure, utilities, and services (i.e., electricity and water). The development will also include a 4.15-acre neighborhood park (Outlot E on Exhibit "A"), at the southeast corner of the subdivision, encompassing the existing Persian Ditch. The park will be built by the developer and maintained by the City of Visalia Parks and Recreation Department. Park improvements are to be reimbursed by the Parks and Recreation Department. The operational statement in Exhibit "G" incorrectly states that the park will be maintained via a Landscape and Lighting District.

Additional improvements proposed include installation of a temporary stormwater basin (to be removed with development of Phase 2), and public street improvements to South Roeben Street and West Tulare Avenue, both Collector Streets which will be widened to 42 feet within the boundaries of the subdivision, and South Shirk Street, a Minor Arterial roadway which will be widened to 55 feet on the east side, again within the boundaries of the subdivision. Lastly, improvements will be conducted to the Persian Ditch, to include the widening of existing service roads to 12 feet on each side and installation of six-foot-tall chain link fencing.

Primary access to Phase I of the subdivision will initially be from South Roeben Avenue and West Tulare Avenue, which will connect to South Shirk Street to the west. Upon completion of Phase 2 a second permanent access will be provided along South Shirk Street and a second access will be provided along West Tulare Avenue. Improvements along these major streets include construction of curb, gutter, sidewalks, block walls (where lots do not front onto major roadways), installation of park strip landscaping, streetlights, sanitary sewer, and undergrounding of utility lines. The street improvements associated with this subdivision are discussed in greater detail in the Street Improvements section of the report.

The subdivision map will create 5 lettered outlots to be dedicated to the City of Visalia. The outlots will function as landscaping lots with block walls (Outlots A through D) and a neighborhood park (Outlot E). The outlots account for approximately 4.8 acres of the total 59.13-acre development.

The applicant has not provided floor plans or elevations for the development. However, the operational statement notes that subdivision will consist of a mix of single and two-story homes, ranging in size from 1,735 square feet to 2,855 square feet. Lots will average 8,082 square feet, ranging in size from 6,376 square feet to 12,774 square feet.

The parcel is surrounded by the Savannah Heights subdivision to the south, the Copper Creek subdivision to the east, and agricultural uses to the north and west. The project site, and areas to the north, south, and west are currently outside City Limits and under the jurisdiction of the County of Tulare.

BACKGROUND INFORMATION

General Plan Land Use Designation:	Residential Low Density	
Future City Zoning:	R-1-5 (Single-Family Residential, minimum 5,000 square foot lot size) zone	
Surrounding Zoning and Land Use:	North:	Tulare County jurisdiction, AE-20 (Exclusive Agricultural, 20 Acre Minimum Site Area) / Undeveloped agricultural land
	South:	Tulare County jurisdiction, PD R-A 43 (Planned Development, Rural Residential, One-Acre Minimum Site Area), R-1-20 (Single-Family Residential, minimum 20,000 square foot lot size) / Savannah Heights subdivision, rural residences.
	East:	R-1-5 / Cooper Creek subdivision

	West: Tulare County jurisdiction, AE-20 / Undeveloped agricultural land, rural residences.
Environmental Review:	Initial Study / Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257)
Special Districts:	None
Site Plan Review:	SPR No. 2023-131

RELATED PLANS & POLICIES

Please see attached summary of related plans and policies.

SIMILAR AND ADJACENT PROJECTS

On June 26, 2023, the Planning Commission recommended City Council approve Annexation No. 2022-03, and approved Barr & Wood Tentative Subdivision Map No. 5588, Conditional Use Permit No. 2022-06, and Tentative Parcel Map No. 2022-02, located at the northwest corner of South Roeben Street and West Whitendale Avenue. The project was a request to annex and subdivide a 69.35-acre parcel into 136-lots, with private streets and a pocket park for residential use consistent with the R-1-20 Zone.

PROJECT EVALUATION

Staff supports the annexation based on the project's consistency with the Land Use Element of the General Plan. Specifically, the annexation will facilitate a residential subdivision development on two parcels totaling 59.13-acres in a manner that is consistent with residential neighborhoods in the area. Furthermore, staff recommends approval of Elliott Tentative Subdivision Map No. 5597 based on the project's consistency with the Land Use Element of the General Plan, the Zoning and Subdivision Ordinances, Housing Accountability Act (Government Code section 65589.5), and the Visalia Housing Element. The subdivision map proposes to develop two parcels that are designated for residential development at a density prescribed in the 2030 Visalia General Plan. Furthermore, the project is providing housing that meets the City's Regional Housing Needs for the moderate and above moderate-income levels.

Annexation

The project proponents have filed an application to initiate the annexation of the 59.13-acre project site into the Visalia City Limits. Annexation is required for the City to apply its land use jurisdictional rules and regulations. The Annexation is supported on the basis that the proposed use is consistent with Visalia General Plan **Land Use Element Policy LU-P-21**, which allows for the annexation and development of residential land to occur within the Tier II Urban Development Boundary when it is consistent with the City's Land Use Diagram. The site will be pre-zoned to an R-1-5 classification, consistent with the subject sites General Plan land use designation of Low Density Residential.

The site will have access to requisite utility and infrastructure services, which will be readily available for connection upon development of the project. Though the project is not currently within City Limits, the applicant has submitted a Tentative Subdivision Map to be considered along with the annexation request. Cities have the authority to approve tentative map proposals prior to final approval of an annexation by a local agency formation commission (LAFCO). However, "final maps" for such applications cannot be approved until after an annexation is completed and

recorded through the Tulare County Recorder. Staff has included this requirement as Condition No. 4 for Elliott Tentative Subdivision Map No. 5597.

Survey of Adjacent Properties

Staff conducted a pre-consultation meeting with LAFCO on February 28, 2024 to discuss the annexation of the project site. During the meeting LAFCO staff directed the City to conduct an annexation survey of all registered voters associated with seven properties located south of the project site, east of South Shirk Street, between the project site and West Walnut Avenue. All seven properties are outside Visalia City Limits. The intent of the survey was to determine whether there would be support to include the seven properties in the annexation request.

Staff queried the Tulare County Registrar of Voters, who provided mailing information for 16 registered voters associated with the seven properties. The survey was mailed on May 13, 2024. Out of the 16 people surveyed, 12 responded in opposition to the request (75%). The other four people surveyed did not respond. As such, the seven properties are not included in the annexation request.

General Plan Consistency

Land Use Element Policies

The project is consistent with Visalia General Plan Land Use Element Policy LU-P-21, which states that the city should "*Allow annexation and development of residential, commercial, regional retail, and industrial land to occur within the Urban Development Boundary (Tier II) consistent with the City's Land Use Diagram*". The proposed site is within the County of Tulare and is adjacent to and consistent with existing developed residential sites to the south and east. Existing utility infrastructure (i.e., water, sewer, and stormwater) can be provided to accommodate the project at buildout. Furthermore, the site is located within the Tier II Urban Development Boundary (UDB), which allows for immediate development of a project site upon its successful annexation. Note the City of Visalia met General Plan residential land use thresholds for expansion into the Tier II UDB in July 2021.

The project is also consistent with Policy LU-P-55. The policy allows for residential development consistent with the Low-Density Residential designation at a density range between 2 to 10 dwelling units per gross acre. The proposed development will be developed at a residential density of 3.8 units per acre, consistent with the Low Density Residential General Plan land use designation and R-1-5 zoning district. The policy is intended to facilitate *"...single-family detached housing with densities typical of single-family subdivisions.*" The proposal meets the intent of the policy, providing a development with single family residences, with lot sizes and densities compatible with residential areas to the south and east. The development is also situated at a location that transitions smoothly with agricultural areas to the north and west.

Housing Accountability Act (Government Code section 66589.5)

The Housing Accountability Act (HAA) requires local agencies to approve housing developments that are consistent with applicable general plan, zoning, and subdivision standards, including design review, if they were in effect at the time that the housing development application was deemed complete. A local agency cannot disapprove a project or lower its density unless it finds by a preponderance of the evidence that the project would have a specific, adverse impact on public health or safety, and that there is no feasible way to mitigate or avoid the impact[1].

The project is consistent, compliant, and in conformity with the General Plan, Zoning Ordinance, and single-family residential development standards. The lots proposed for the Elliott subdivision

[1] Gov. Code Section 65589.5(j)(1).

meet density standards for the Low-Density Residential land use designation and will be compatible with surrounding developed residential areas. Furthermore, the subdivision will develop a network of local streets and improve adjacent Collector and Arterial public roadways, thereby facilitating increased street connectivity to accommodate future growth areas.

Traffic Impact Analysis

A Traffic Impact Analysis (TIA) was prepared for the proposed project (ref.: Traffic Study: Elliott Tentative Subdivision. Ruettgers & Schuler Civil Engineers, December 2023, Updated June 2024). The purpose of the study is to analyze traffic conditions and operational issues related to the development of the subdivision and its projected level of service (LOS) at opening year and the five-year horizon, and to analyze the corresponding environmental impact as required by the California Environmental Quality Act (CEQA).

The TIA analyzed existing and proposed intersections within a half-mile radius of the project site. The existing and new intersections studied are as follows:

Road 92/Shirk Street & State Route 198 Eastbound Ramps	Roeben Street & Walnut Avenue
Road 92/Shirk Street & State Route 198 Westbound Ramps	Street 3 and Tulare Avenue
Road 92/Shirk Street & Tulare Avenue	Street 6 and Tulare Avenue
Road 92/Shirk Street & Walnut Avenue	Avenue 4 and Shirk Street
Roeben Street & Tulare Avenue	Avenue 6 and Roeben Street

The TIA determined that the proposed project would cause unacceptable LOS at three separate intersections by 2033. Affected intersections and the improvements needed to maintain or improve the operational level of service of the street system in the vicinity of the project are identified below:

Intersection	Improvements Required by 2028
Shirk Street and State Route 198, westbound ramps	Signal
Shirk Street and State Route 198, eastbound ramps	Signal
Shirk Street and Walnut Avenue	Signal

The project will pay its fair share of traffic impact fees to support payment of the traffic signals. This is a required mitigation measure and is included as Elliott Tentative Subdivision Map No. 5597, Condition No. 12. With fair share payments, there will be a less than significant impact from the project on existing or proposed intersections.

Please note: improvements to the cited intersections above are part of the City's Capital Improvement Program (CIP). The CIP is a plan that identifies and funds improvements of significant city infrastructure and facilities. Improvements to the Shirk Street and State Route 198 signals are identified within the "Shirk Street & SR 198 Operational Improvements" CIP. The project will signalize both the west and eastbound on/off ramps at the State Route 198 and Shirk Street interchange. Funding for the complete project is expected to be received by the end of this year with construction projected to begin by the Fall of 2025.

Improvements to the Shirk Street and Walnut Avenue signal are identified in the "Shirk St & Walnut Ave Traffic Signal" project, which will be funded through multiple CIPs as the project is intended to improve additional infrastructure outside of the street intersection. This project is estimated to begin construction in January 2026.

City of Visalia Vehicle Miles Traveled (VMT) Thresholds and Implementation Guidelines

Senate Bill (SB) 743, signed in 2013, changes the way transportation impacts are analyzed in California CEQA documents. Vehicle miles traveled (VMT) replaces motorist delay and level of service (LOS) as the metric for impact determination. As a result of the final rulemaking surrounding SB 743 (effective date July 1, 2020), the City of Visalia adopted VMT thresholds and guidelines (City of Visalia VMT Thresholds and Implementation Guidelines, LSA, Adopted March 15, 2021) to address the shift from delay-based LOS CEQA traffic analyses to VMT CEQA traffic analyses.

The adopted guidelines provide details on appropriate "screening thresholds" that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed VMT analysis. Screening thresholds include:

1. Land development projects within a 0.5-miles of a Transit Priority Area.
2. Local serving retail projects less than 50,000 square feet.
3. Residential, office, and mixed-use projects within low-VMT generating areas.
4. 100 percent affordable housing projects.
5. Projects that are consistent with the City's General Plan and generating fewer than 1,000 daily trips.
6. Institutional/Government and public service uses.

A land use project need only meet one of the above screening thresholds to result in a less than significant impact.

The project will result in the addition of 225 single-family residential units, resulting in an increase of population for the City of Visalia. A rise in population for the area would result in an increased amount of VMT being produced. However, by using the City of Visalia online VMT screening application, the project was determined to be in TAZ 1358. Utilizing the "VMT Per Capita" metric due to the residential nature of the project, the average VMT was determined to be 8.61 miles per capita. The average VMT per capita for Tulare County is 11.9. Using 84 percent of existing regional VMT, the City's threshold for residential projects is 10.0 VMT per capita. Therefore, the project is determined to be in a low VMT zone, meeting the criteria for screening threshold No. 3 identified above. As a result, the project will result in a less than significant transportation impact.

Street Improvements

The developer of the subdivision will be required to construct major street improvements along South Roeben Street, West Tulare Avenue, and South Shirk Street. Improvements along the subdivision frontage for these major streets include widening of Roeben, Tulare, and Shirk to their ultimate right-of-way design, and extension of Tulare further westward.

South Roeben Street: Is a designated 84-foot-wide collector roadway. The project will require a 42-foot dedication and widening of the street along the eastern boundary of the project site to accommodate two travel lanes with full frontage improvements.

West Tulare Avenue: Is a designated 84-foot-wide collector roadway that will require a 42-foot dedication of the street. Construction will occur along the northern boundary of the project site to

accommodate two travel lanes and frontage improvements on the development side. Tulare Avenue will provide a connection between South Shirk Street to Street 6. Please note, the off-site connection of Tulare Avenue to South Roeben Street shall not occur with this project. There is a 19-acre parcel adjacent to the project to the east. When this 19-acre parcel is proposed for residential development, the completion of the Tulare Avenue alignment between Roeben and Street 6 will occur.

South Shirk Street: Is a designated 110-foot-wide arterial roadway.

The project will require an additional dedication of right of way to allow for the widening of Shirk Street up to a total of 55 feet along the western boundary of the project site, to accommodate two travel lanes, with the potential for a street median if sufficient right-of-way is available. Improvements along the right of way within the boundaries of the subdivision map shall include curb, gutter, sidewalks, streetlights, a block wall, and landscaping. All new utilities that will service the residential subdivision will be placed underground, except for the large Southern California Edison distribution/transmission power poles along the South Shirk Street alignment that are within the boundaries of the project site. These poles are required to be relocated by the developer.

Per the Phasing Plan in Exhibit "C", widening of Roeben Street and Tulare Avenue shall take place during the first phase of development, with the remaining improvements to Shirk Street occurring in Phase II.

Local Streets: All local streets will be developed per the City's 60-foot-wide local street standard, except for the northern 600 feet of Street 6, which is proposed for a width of approximately 30 feet due to its location adjacent to a separate parcel. Per the Engineering Division Site Plan Review comments, the width of Street 6 must be a minimum 60 feet. As such, staff recommends inclusion of Condition No. 6 for Elliott Tentative Subdivision Map No. 5597 requiring compliance with all standards of the Engineering and Traffic Engineering Division, in particular as it relates to the width of Street 6. With the inclusion of Condition No. 6, the proposed local streets shall provide adequate access to Roeben Street, Tulare Avenue, and Shirk Street and will serve to improve circulation for the general area.

Development Standards

The Elliott Tentative Subdivision Map No. 5597 will be developed with setbacks and lot sizes in accordance with the codified standards contained in the Zoning Ordinance for R-1-5 zoned properties. The subdivision does not propose the utilization of small lots or private streets with this single-family residential subdivision.

The setbacks within the R-1-5 zone for lots 5,000 square feet or greater are as follows:

Minimum Lot Area	Front	Side	Street Side	Rear
5,000 sq. ft.	15-ft. to habitable space. 22-ft. to garage, except on curvilinear lots 20-ft. to garage.	5-ft.	10-ft.	25-ft. City standard rear yard setbacks are 25 feet with allowance for one-story structure to go to 20-feet subject to open space requirements.

The development standards are included as Condition No. 3 of Elliott Tentative Subdivision Map No. 5597.

Landscape and Lighting Assessment Districts

A Landscaping and Lighting District (LLD) will be required for the long-term maintenance of the out lots, which include blocks walls, streetlights, and landscaping amenities. The block walls along the major street frontages will be typical City standard block walls. The block wall height shall be reduced to three feet where the block wall runs adjacent to the front yard setback along the front yard areas of the following residential lots: Lots 49, 50, 63, 64, 105, and 135. Staff has included Condition No. 8 to require the stepped down walls.

Staff notes that Lot 1 of the Elliott subdivision and three residential lots to the south abut the proposed 4.15-acre neighborhood park. In order to prevent impacts from usage of the park on the existing and future residences, staff recommends the inclusion of Condition No. 9, requiring placement of a seven-foot-tall block wall along the property boundaries shared between the residential lots and park, except within the 15-foot front yard setback areas of applicable lots, in which a three-foot-tall block wall shall be placed. These walls shall also be maintained by the Lighting and Landscape District.

Agricultural Preservation Ordinance

The 59.13-acre project site is in the City's Tier II urban development boundary and is designated as Prime Farmland as defined per the Tulare County Farmland Mapping and Monitoring Program. As a result, development of this site is subject to the City's recently adopted Agricultural Preservation Ordinance (APO). The purpose and intent of the APO is to address the conversion of prime farmland and farmland of statewide importance through the adoption of an agricultural land preservation program. In addition, the ordinance established a process for the required preservation of agricultural land through the acquisition of agricultural conservation easements or the payment of an in-lieu fee for projects subject to the provisions of this ordinance. Only sites that are considered prime farmland and/or farmland of statewide importance are subject to the ordinance's provisions.

For the Elliott Subdivision, the preserved land obligation shall be calculated at a ratio of one acre of preserved land for each acre of converted land. Converted land acreage shall be calculated by determining the applicable project acreage less the acreage of exclusions. In addition, the preserved land obligation, as established in Visalia Municipal Code (VMC) Section 18.04.070(A), shall be preserved through acquisition of an agricultural easement in accordance with VMC Section 18.04.080, unless eligible for payment of an in-lieu fee in accordance with VMC Section 18.04.090.

The preserved land obligation shall be satisfied prior to issuance of any permit directly authorizing or resulting in disturbance to the project site. Compliance with the APO is achieved when either the approved agricultural conservation easement has been recorded or the applicant has remitted the approved in-lieu fee to the qualified entity.

Airport Land Use

The proposed project is located approximately 0.95 miles east of the nearest public airport (Visalia Municipal Airport). According to the Tulare County Comprehensive Airport Land Use Plan (TC CALUP), the project site is located within Safety Zone 6 (Traffic Pattern Zone). Per the use matrix provided in the land use plan, single-family residential development is considered compatible within Safety Zone 6. This is subject to a requirement that, in areas where aircraft noise is expected to exceed 60dB CNEL, inhabited residential structures must meet California Noise Standards and be designed to achieve an interior noise level of 45 dB CNEL or less.

Per the CEQA analysis, the project site will not be impacted by the airport use. Noise contours developed for 2019 show that the airport would produce less than 65 dB. Per the applicant, noise

exposure at this level would not pose a safety hazard for people residing or working in the project area. Given the above, Elliott Tentative Subdivision Map No. 5597, Condition No. 7 is recommended, requiring the applicant to comply with the TC CALUP and noise requirements therein prior to issuance of a building permit for the tentative subdivision map.

Infrastructure

The project will require improvements to the following infrastructure:

- Water Service: Staff has included Condition No. 5 for Elliott Tentative Subdivision Map No. 5597 which requires a valid Will Serve Letter from the California Water Service Company if, prior to development of the subdivision, the determination of water availability letter lapses.
- Sanitary Sewer: The sewer system will have to be extended to the boundaries of the development where future connection and extension is anticipated. The City of Visalia's draft Sewer Master Plan also indicates the need for installation of a sewer master planned trunk line within South Shirk Street. The sewer lines will be sized to service the entire subdivision. The developer will be required to coordinate with City staff on design and construction requirements for the sanitary sewer. The sanitary sewer master plan for the entire development will be required to be submitted for review prior to approval of any portion of the system. A sewer analysis, which is included in the attached Initial Study / Mitigated Negative Declaration, has been prepared for the site. After a thorough review of the analysis by the City of Visalia Public Works Department, it has been determined that the Wastewater Treatment Facility possesses the capacity to effectively accommodate this development.
- Storm Drainage: Per the Phasing Plan in Exhibit "C", Phase 1 of the subdivision will incorporate a temporary stormwater basin over Lots 37 through 43, and Lots 186 and 187. Per Engineering Division's Site Plan Review comments, the temporary basin shall be maintained onsite until the completion of a future regional stormwater basin for the entire future growth area. Compliance with this requirement shall be enforced via Elliott Tentative Subdivision Map, Condition No. 14. Compliance with Engineering Division's Site Plan Review requirements is also included as Elliott Tentative Subdivision Map No. 5597, Condition No. 1.
- Canal/Park: The Persian Ditch bisects Outlot E, which is planned for a 4.15-acre neighborhood park. As part of the development, the applicant proposes installation of 12-foot-wide access roads along both sides of the Persian Ditch, with 6-foot-tall chain link fencing with privacy slats added to prevent access. Site Plan Review comments from the Engineering Division note that access roads for the ditch shall be a minimum 15 feet wide. The Elliott Tentative Subdivision Map No. 5597, Condition No. 10 is included requiring the applicant to coordinate with the Persian Ditch Company and comply with any requirements to conduct the proposed improvements.

  In addition to the above, Site Plan Review comments from the Engineering Division indicate that the widening of South Roeben Street will necessitate culvert improvements to the Persian Ditch, where it intersects with South Roeben Street. Improvements shall include installation of a culvert crossing, headwall relocation, sidewalk, access drive approaches for maintenance, fencing, and gates. This is included as Elliott Tentative Subdivision Map No. 5597, Condition No. 1.

Outlot for Park

The project delineates Outlot E for use as a 4.15-acre neighborhood park, located at the southeast corner of the project site, adjacent to South Roeben Street. Per the Landscape Plan in Exhibit "F" and Operational Statement in Exhibit "G" no park amenities are identified currently. Staff recommends the inclusion of Elliott Tentative Subdivision Map No. 5597, Condition No. 13, requiring the applicant to consult and work with the Parks and Recreation Department and comply with all requirements for development of the park, which will include designing and installing amenities for the future park.

Valley Oak Tree Preservation

The proposal will involve the removal of an existing Valley Oak tree grove at the northwest corner of the project site and within the South Shirk Street right of way. Site Plan Review comments received from both the Engineering Division, and City of Visalia Urban Forestry Division, require the applicant comply with the Oak Tree Preservation Ordinance (Visalia Municipal Code Chapter 12.24) if the trees are to be removed. This has been included as Elliott Tentative Subdivision Map No. 5597, Condition No. 11.

Subdivision Map Act

California Government Code Section 66474 lists seven findings for which a legislative body of a city or county shall deny approval of a tentative map if it is able to make any of these findings. These seven "negative" findings have come to light through a recent California Court of Appeal decision (Spring Valley Association v. City of Victorville) that has clarified the scope of findings that a city or county must make when approving a tentative map under the California Subdivision Map Act.

Staff has reviewed the seven findings for a cause of denial and finds that none of the findings can be made for the proposed project. The seven findings and staff's analysis are below. Recommended findings in response to this Government Code section are included in the recommended findings for the approval of the tentative subdivision map.

GC Section 66474 Finding	Analysis
(a) That the proposed map is not consistent with applicable general and specific plans as specified in Section 65451.	The proposed map has been found to be consistent with the City's General Plan. This is included as recommended Finding No. 1 of the Tentative Subdivision Map. There are no specific plans applicable to the proposed map.
(b) That the design or improvement of the proposed subdivision is not consistent with applicable general and specific plans.	The proposed design and improvement of the map has been found to be consistent with the City's General Plan. This is included as recommended Finding No. 1 of the Tentative Subdivision Map. There are no specific plans applicable to the proposed map.
(c) That the site is not physically suitable for the type of development.	The site is physically suitable for the proposed map and its affiliated development plan, which is designated as Low Density Residential and developed at a density of 3.8 units per acre. This is included as recommended Finding No. 3 of the Tentative Subdivision Map.

(d) That the site is not physically suitable for the proposed density of development.	The site is physically suitable for the proposed map and its affiliated development plan, which is designated as Low Density Residential. This is included as recommended Finding No. 4 of the Tentative Subdivision Map.
(e) That the design of the subdivision or the proposed improvements are likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.	The proposed design and improvements of the map has not been found likely to cause environmental damage or substantially and avoidably injure fish or wildlife or their habitat. This finding is further supported by the project's determination of no new effects under the Guidelines for the Implementation of the California Environmental Quality Act (CEQA), included as recommended Finding No. 8 of the Tentative Subdivision Map.
(f) That the design of the subdivision or type of improvements is likely to cause serious public health problems.	The proposed design of the map has been found to not cause serious public health problems. This is included as recommended Finding No. 2 of the Tentative Subdivision Map.
(g) That the design of the subdivision or the type of improvements will conflict with easements, acquired by the public at large, for access through or use of property within the proposed subdivision.	The proposed design of the map does not conflict with any existing or proposed easements located on or adjacent to the subject property. This is included as recommended Finding No. 5 of the Tentative Subdivision Map.

Public Comment

Three public comment letters were received from property owners immediately south of the project site, two who reside in County jurisdiction and one within City jurisdiction. Their comment contests that the subdivision project will increase traffic volumes on Shirk Street and Roeben Street, will increase the presence of unhoused individuals in the area due to the proposed park, and will destroy existing habitats for wildlife residing in the area, including Grey Foxes, Great Horned Owls, Barn Owls, Possums, Skunks, and Peacocks.

Staff notes that both a TIA and Biological Study have been conducted by the applicant as part of this project, and are included in the Initial Study / Mitigated Negative Declaration attached to this report. Mitigation measures identified in the studies have been incorporated into the project via Condition No. 12 and are considered adequate to address any potential impacts. Specifically, the TIA states that impacts to traffic will be alleviated by the payment of fees for the future signalization of affected street intersections. Animals noted in the comment letter where not identified in the Biological Study as species that appear on any threatened or endangered listing. The Biological Study notes that impacts could potentially occur to the nesting and foraging habitat for the Swainson Hawk and Nuttall's woodpecker, should they reside onsite, and provides mitigation to protect such habitats during subdivision development.

Staff also notes that as a result of annexation the proposed park will benefit from City services, including regular maintenance by Parks and Recreation Department staff, and availability of emergency services from the Police and Fire Departments. Given the above, staff believes that the comments in the letters have been adequately addressed.

No other public comment has been received as of the publication of this report.

Environmental Review

An Initial Study and Mitigated Negative Declaration were prepared for the proposed project. Initial Study and Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257) disclosed that environmental impacts are determined to be less than significant with the incorporation of mitigation to address significant impacts to the following resources:

- One (1) mitigation measure pertaining to Transportation to reduce impacts to traffic and circulation.
- Four (4) mitigation measures pertaining to Biological Resources to reduce impacts of the Project to special-status wildlife species.
- Four (4) mitigation measures pertaining to Cultural Resources to reduce the impacts of the Project on the potential of exposing historical or archaeological materials during construction.
- Three (3) mitigation measures pertaining to Hydrology and Water Quality to address impacts to surface and groundwater resources.

A 20-day review and comment period through the State Clearinghouse for the Initial Study began on June 27, 2024, and ended on July 17, 2024. Mitigation measures as included as Elliott Tentative Subdivision Map No. 5597, Condition No. 12.

The City of Visalia received two comment letters in response to the Initial Study / Mitigated Negative Declaration from Caltrans and the Department of Toxic Substances Control (DTSC). Both letters are included with the Initial Study / Mitigated Negative Declaration. Comments from Caltrans have been adequately addressed in the TIA. To address the comments raised in DTSC's letter, Condition Nos. 12.a and 12.b are recommended for incorporation in the conditions of approval for the Elliott Tentative Subdivision Map No. 5597 as follows:

a. That prior to site disturbance, the developer/homebuilder shall consult with a qualified hazardous substance professional to determine whether the applicant should obtain soil samples to test for contaminants of concern (COCs), in particular Pesticides and Organochlorine Pesticides (OCPs) historically used on the property. If suggested to be performed, the developer/homebuilder shall have the qualified hazardous substances professional perform the soil sampling per *Interim Guidance for Sampling Agricultural Properties from DTSC.* The developer/homebuilder shall provide the Planning and Community Preservation Director with a copy of all correspondence between the developer/homebuilder and the qualified hazardous substances professional that details the required direction/recommendation on soil samples to test for COCs/OCPs. The City shall require the developer to comply with specified direction/recommendation as required prior to any further site disturbance.

b. All imported soil and fill material shall be tested to ensure that any contaminants are with DTSC's and the US Environmental Protection Agency's (USEPA's) Regional Screening Levels (RSLs).

Based on the letter and the inclusion of the additional project conditions as noted above, the City concludes that the findings and conclusions of the Initial Study / Mitigated Negative Declaration are still applicable. No other formal comments were received as of the publication of this report.

RECOMMENDED FINDINGS

Annexation No. 2024-01

1. That the Annexation is consistent with the intent of the General Plan and Zoning Ordinance, and is not detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
2. That the proposed Annexation, which will re-designate 59.13-acres of AE-20 (Agricultural Exclusive 20-acre) County zone district to an R-1-5 (Single-Family Residential, 5,000 square foot minimum site area) City zone district and will not impose new land uses or development that will adversely affect the subject site or adjacent properties.
3. That the parcel is not located within an Agricultural Preserve.
4. That the parcel will be annexed into Voting District 3 per the Council Election Voting District Map.
5. That an Initial Study was prepared for this project, consistent with CEQA, which disclosed that environmental impacts are determined to be not significant and that Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257), is hereby adopted. Furthermore, the design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage nor substantially and avoidably injure fish or wildlife or their habitat.

Elliott Tentative Subdivision Map No. 5597

1. That the proposed location and layout of the Elliott Tentative Subdivision Map No. 5597, its improvements and design, and the conditions under which it will be maintained are consistent with the policies and intent of the General Plan, Zoning Ordinance, and Subdivision Ordinance. The 59.13-acre project site, which is the site of the proposed 225-lot single-family residential subdivision, is consistent with Land Use Policy LU-P-21 of the General Plan. Policy LU-P-21 allows for the “annexation and development of residential, commercial, regional retail, and industrial land to occur within the Urban Development Boundary (Tier II) consistent with the City’s Land Use Diagram”.
2. That the proposed Elliott Tentative Subdivision Map No. 5597, its improvements and design, and the conditions under which it will be maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity, nor is it likely to cause serious public health problems. The proposed tentative subdivision map will be compatible with adjacent land uses. The project site is bordered by existing residential development, an arterial street, and two collector streets.
3. That the site is physically suitable for the proposed tentative subdivision map. The Elliott Tentative Subdivision Map No. 5597 is consistent with the intent of the General Plan, Zoning Ordinance, and Subdivision Ordinance, and is not detrimental to the public health, safety, or welfare or materially injurious to properties or improvements in the vicinity. The project site is adjacent to land zoned for residential development, and the subdivision establishes an arterial, collector, and local street pattern that will serve the subject site and the future development of vacant parcels located to the north and west of the subject site.
4. That the site is physically suitable for the proposed tentative subdivision map and the project’s density, which is consistent with the underlying Low Density Residential General Plan Land Use Designation. The proposed location and layout of the Elliott Tentative Subdivision Map No. 5597, its improvement and design, and the conditions under which it will be maintained is

consistent with the policies and intent of the General Plan, Zoning Ordinance, and Subdivision Ordinance. The 59.13-acre project site, which is the site of the proposed 225-lot single-family residential subdivision, is consistent with Land Use Policy LU-P-21.

5. That the proposed Elliott Tentative Subdivision Map No. 5597, the design of the subdivision or the type of improvements will not conflict with easements, acquired by the public at large, for access through or use of, property within the proposed subdivision. The 225-lot subdivision is designed to comply with the City's Engineering Improvement Standards for major streets. The development of the site with a 225-lot single-family residential subdivision will improve arterial and collector streets (South Roeben Street, West Tulare Avenue, and South Shirk Street), and extend local streets, infrastructure improvements, utilities, right-of-way improvements and a residential lot pattern consistent with existing residential development found in the area.

6. The proposed location of the tentative subdivision map is in accordance with the Visalia General Plan and the objectives of the Zoning and Subdivision Ordinances. The proposed location of the subdivision is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located. Multiple General Plan policies identify the implementation of development standards to ensure that new single-family residential development will contribute to positive land use compatibility. The size of the property combined with the number of residential lots proposed is consistent and compatible with existing surrounding residential development.

   The proposed project will result in the creation of a new single-family residential development at a density of 3.8 units per acre, which is consistent with General Plan land use designation of Low Density Residential and the R-1-5 zoning designation that will be applied to the site when annexed into the city limits.

7. The Housing Accountability Act (GC section 66589.5) requires local agencies to approve housing developments that are consistent with applicable, objective general plan, zoning, and subdivision standards in effect at the time that the housing development project's application is determined to be complete. A local agency cannot disapprove a project or lower its density unless it finds by a preponderance of the evidence that the project would have a specific, adverse impact on public health or safety, and there is no feasible way to mitigate or avoid the impact. There is no evidence that the project would cause quantifiable significant unavoidable impacts on public health and safety. The project is consistent, compliant, and in conformity with the General Plan, Zoning Ordinance, and development standards.

8. That an Initial Study was prepared for this project, consistent with CEQA, which disclosed that environmental impacts are determined to be not significant and that Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257), is hereby adopted. Furthermore, the design of the subdivision or the proposed improvements are not likely to cause substantial environmental damage nor substantially and avoidably injure fish or wildlife or their habitat.

RECOMMENDED CONDITIONS

Annexation No. 2024-01

1. Upon annexation, the territory shall be zoned R-1-5 (Single Family Residential, 5,000 square foot minimum site area), consistent with the pre-zoning designated by the General Plan Land Use Map.

2. That the applicant(s) enter into a Pre-Annexation Agreement with the City which memorializes the required fees, policies, and other conditions applicable to the annexation. The draft Pre-

Annexation Agreement is attached herein as Attachment “B” of Resolution No. 2024-08. The agreement is subject to final approval by the City Council of the City of Visalia.

Elliott Tentative Subdivision Map No. 5597

1. That the subdivision map be developed in substantial compliance with the comments and conditions of the Site Plan Review Committee as set forth under Site Plan Review No. 2023-131 incorporated herein by reference.
2. That the Elliott Tentative Subdivision Map No. 5597 be prepared in substantial compliance with the subdivision map in Exhibit “A”.
3. That setbacks for the Elliott Tentative Subdivision Map No. 5597 shall be as follows:

Minimum Lot Area	Front	Side	Street Side	Rear
5,000 sq. ft.	15-ft. to habitable space. 22-ft. to garage, except on curvilinear lots 20-ft. to garage.	5-ft.	10-ft.	25-ft. City standard rear yard setbacks are 25 feet with allowance for one-story structure to go to 20-feet subject to open space requirements.

4. That approval of the Elliott Tentative Subdivision Map No. 5597 shall not become effective unless Annexation No. 2024-01, placing the project site within the corporate limits of the City of Visalia, is approved by the Tulare County Local Agency Formation Commission (LAFCO), and is fully executed to include all conditions contained in the Pre-Annexation Agreement for Annexation No. 2024-01.
5. That prior to the issuance of any residential building permit on the site, the applicant / developer shall obtain and provide the City with a valid Will Serve Letter from the California Water Service Company.
6. That the applicant shall consult with City of Visalia Engineering Development Division and Traffic Engineering Division and comply with any requirements for adequate design and improvement of the proposed local, collection, and arterial streets. The applicant shall redesign Street 6 to comply with the 60-foot width requirement for local streets.
7. That the applicant shall comply with the Tulare County Comprehensive Airport Land Use Plan and noise requirements therein prior to issuance of a building permit for the tentative subdivision map. This is subject to a requirement that, in areas where aircraft noise is expected to exceed 60dB CNEL, inhabited residential structures must meet California Noise Standards and be designed to achieve an interior noise level of 45 dB CNEL or less.
8. That the block walls located within the Landscape and Lighting District lots shall transition to three-foot height within the 15-foot front yard setback areas of the adjoining residential lots identified as Lots 49, 50, 63, 64, 105, and 135.
9. That a seven-foot-tall block wall shall be installed along the shared boundaries of Outlot E, Elliott Subdivision Lot 1, Savannah Heights Unit 3 Subdivision Lots 44 and 45 (1617 and 1618 South Jacques Court), and 1627 South Roeben Street (APN: 087-442-040). For Elliott Subdivision Lot 1, the block wall shall transition to a three-foot-tall block wall within the 15-foot front yard setback area. The walls shall also be maintained by the Lighting and Landscape District for the Elliott Tentative Subdivision Map No. 5597.
10. The applicant shall coordinate with the Persian Ditch Company and shall comply with all its requirements for the installation of improvements to the Persian Ditch within the project site.

11. The applicant shall comply with all requirements of Visalia Municipal Code Chapter 12.24 (Oak Tree Preservation), for the removal of any Valley Oak trees from the project site.

12. That the Mitigation Monitoring and Reporting Program and its mitigation measures adopted with the Initial Study / Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257) and all conditions of the Elliott Tentative Subdivision Map No. 5597, including the following conditions in response to the Department of Toxic Substances Control (DTSC) comment letter be met during construction and upon final occupancy and ongoing operation of the project:

    a. That prior to site disturbance, the developer/homebuilder shall consult with a qualified hazardous substance professional to determine whether the applicant should obtain soil samples to test for contaminants of concern (COCs), in particular Pesticides and Organochlorine Pesticides (OCPs) historically used on the property. If suggested to be performed, the developer/homebuilder shall have the qualified hazardous substances professional perform the soil sampling per Interim Guidance for Sampling Agricultural Properties from DTSC. The developer/homebuilder shall provide the Planning and Community Preservation Director with a copy of all correspondence between the developer/homebuilder and the qualified hazardous substances professional that details the required direction/recommendation on soil samples to test for COCs/OCPs. The City shall require the developer to comply with specified direction/recommendation as required prior to any further site disturbance.

    b. All imported soil and fill material shall be tested to ensure that any contaminants are with DTSC's and the US Environmental Protection Agency's (USEPA's) Regional Screening Levels (RSLs).

13. That the applicant shall consult with the City of Visalia Parks and Recreation Department and shall comply with all requirements for development of the park on Outlot E, which will include designing and installing amenities for the future park.

14. That the temporary stormwater basin located on Lots 37 through 43, and Lots 186 and 187, shall be maintained onsite until a permanent regional ponding basin is established to service the development.

15. That the project be developed in substantial compliance with all improvements depicted and described in Exhibits "A" through "G".

16. That the developer shall inform and have future homeowners of the Elliott subdivision sign and acknowledge Tulare County's "Right to Farm" Ordinance. This informs future residential owners that the farming operations located to the north and west, which are located in Tulare County, are protected and cannot be declared a nuisance if operating in a manner consistent with proper and accepted customs and standards.

17. That all applicable federal, state, regional, and city policies and ordinances be met.

APPEAL INFORMATION

Annexation No. 2024-01

For the Annexation, the Planning Commission's recommendation is advisory only. The final decision will be by the Visalia City Council following a public hearing. Therefore, the Planning Commission's recommendation in this matter is not appealable.

Elliott Tentative Subdivision Map No. 5597

According to the City of Visalia Subdivision Ordinance Section 16.28.080, an appeal to the City Council may be submitted within ten days following the date of a decision by the Planning Commission. An appeal with applicable fees shall be in writing and shall be filed with the City Clerk at 220 North Santa Fe St., Visalia, CA. The appeal shall specify errors or abuses of discretion by the Planning Commission, or decisions not supported by the evidence in the record. The appeal form can be found on the City's website www.visalia.city or from the City Clerk.

Attachments:

- Related Plans and Policies
- Revised Resolution No. 2024-08 – Annexation No. 2024-01
  - Attachment “A” – Annexation Area
  - Attachment “B” – Annexation Agreement
- Revised Resolution No. 2024-07 – Elliott Tentative Subdivision Map No. 5597
- Exhibit "A" – Elliott Tentative Subdivision Map No. 5597
- Exhibit “B” – Annexation Area
- Exhibit “C” – Phasing Plan
- Exhibit “D” – Atypical Lot Plan
- Exhibit “E” – Street Cross Sections Plan
- Exhibit “F” – Landscape Plan
- Exhibit “G” – Operational Statement
- Exhibit “H” – July 26, 2024 Letter from San Joaquin Valley Homes to Savannah Heights Property Owners
- Exhibit “I” – August 1, 2024 E-mail from San Joaquin Valley Homes Summarizing July 30, 2024 Meeting with Savannah Heights Property Owners.
- Exhibit “J” – Savannah Heights Tentative Subdivision Map Exhibits
- Exhibit “K” – Planning Commission Resolution No. 1993-34 (Savannah Heights Tentative Subdivision Map)
- Exhibit “L” – Planning Commission Staff Report, Savannah Heights Tentative Subdivision Map and Conditional Use Permit No. 1993-10
- Initial Study / Mitigated Negative Declaration No. 2024-05
- Department of Toxic Substances Control (SJVAPCD) Comment Letter, July 3, 2024
- Caltrans Comment Letters, July 16, 2024, June 13, 2024, and March 22, 2024
- Public Comment Letters (July 22 and August 12, 2024)
- Site Plan Review Item No. 2023-131
- General Plan Land Use Map
- Zoning Map
- Aerial Map
- Location Map

RELATED PLANS AND POLICIES

General Plan and Zoning: The following General Plan and Zoning Ordinance policies apply to the proposed project:

General Plan Land Use Policies:

LU-P-19: Ensure that growth occurs in a compact and concentric fashion by implementing the General Plan's phased growth strategy. The General Plan Land Use Diagram establishes three growth rings to accommodate estimated City population for the years 2020 and 2030. The Urban Development Boundary I (UDB I) shares its boundaries with the 2012 city limits. The Urban Development Boundary II (UDB II) defines the urbanizable area within which a full range of urban services will need to be extended in the first phase of anticipated growth with a target buildout population of 178,000. The Urban Growth Boundary (UGB) defines full buildout of the General Plan with a target buildout population of 210,000. Each growth ring enables the City to expand in all four quadrants, reinforcing a concentric growth pattern.

LU-P-21: Allow annexation and development of residential, commercial, regional retail, and industrial land to occur within the Urban Development Boundary (Tier II) and the Urban Growth Boundary (Tier III) consistent with the City's Land Use Diagram, according to the following phasing thresholds: • "Tier II": Tier II supports a target buildout population of approximately 178,000. The expansion criteria for land in Tier II is that land would only become available for development when building permits have been issued in Tier I at the following levels, starting from April 1, 2010:

Residential: after permits for 5,850 housing units have been issued.

LU-P-55: Update the Zoning Ordinance to reflect the Low Density Residential designation on the Land Use Diagram for development at 2 to 10 dwelling units per gross acre, facilitating new planned neighborhoods and infill development in established areas. This designation is intended to provide for single-family detached housing with densities typical of single-family subdivisions. Duplex units, townhouses, and small-lot detached housing may be incorporated as part of Low Density Residential developments. Development standards will ensure that a desirable single-family neighborhood character is maintained.

Visalia Municipal Code

Chapter 17.12

R-1 SINGLE-FAMILY RESIDENTIAL ZONE

17.12.010 Purpose and intent.

In the R-1 single-family residential zones (R-1-5, R-1-12.5, and R-1-20), the purpose and intent is to provide living area within the city where development is limited to low density concentrations of one-family dwellings where regulations are designed to accomplish the following: to promote and encourage a suitable environment for family life; to provide space for community facilities needed to compliment urban residential areas and for institutions that require a residential environment; to minimize traffic congestion and to avoid an overload of utilities designed to service only low density residential use.

17.12.015 Applicability.

The requirements in this chapter shall apply to all property within R-1 zone districts.

17.12.020 Permitted uses.

In the R-1 single-family residential zones, the following uses shall be permitted by right:

A. One-family dwellings;

B. Raising of fruit and nut trees, vegetables and horticultural specialties;

C. Accessory structures located on the same site with a permitted use including private garages and carports, one guest house, storehouses, garden structures, green houses, recreation room and hobby shops;

D. Swimming pools used solely by persons resident on the site and their guests; provided, that no swimming pool or accessory mechanical equipment shall be located in a required front yard or in a required side yard;

E. Temporary subdivision sales offices;

F. Licensed day care for a maximum of fourteen (14) children in addition to the residing family;

G. Twenty-four (24) hour residential care facilities or foster homes, for a maximum of six individuals in addition to the residing family;

H. Signs subject to the provisions of Chapter 17.48;

I. The keeping of household pets, subject to the definition of household pets set forth in Section 17.04.030;

J. Accessory dwelling units as specified in Sections 17.12.140 through 17.12.200;

K. Adult day care up to twelve (12) persons in addition to the residing family;

L. Other uses similar in nature and intensity as determined by the city planner;

M. Legally existing multiple family units, and expansion or reconstruction as provided in Section 17.12.070.

N. Transitional or supportive housing for six (6) or fewer resident/clients.

O. In the R-1-20 zone only, the breeding, hatching, raising and fattening of birds, rabbits, chinchillas, hamsters, other small animals and fowl, on a domestic noncommercial scale, provided that there shall not be less than one thousand (1,000) square feet of site area for each fowl or animal and provided that no structure housing poultry or small animals shall be closer than fifty (50) feet to any property line, closer than twenty-five (25) feet to any dwelling on the site, or closer than fifty (50) feet to any other dwelling;

P. In the R-1-20 zone only, the raising of livestock, except pigs of any kind, subject to the exception of not more than two cows, two horses, four sheep or four goats for each site, shall be permitted; provided, that there be no limitation on the number of livestock permitted on a site with an area of ten acres or more and provided that no stable be located closer than fifty (50) feet to any dwelling on the site or closer than one hundred (100) feet to any other dwelling;

17.12.030 Accessory uses.

In the R-1 single-family residential zone, the following accessory uses shall be permitted, subject to specified provisions:

A. Home occupations subject to the provisions of Section 17.32.030;

B. Accessory buildings subject to the provisions of Section 17.12.100(B).

C. Cottage Food Operations subject to the provisions of Health and Safety Code 113758 and Section 17.32.035.

17.12.040 Conditional uses.

In the R-1 single-family residential zone, the following conditional uses may be permitted in accordance with the provisions of Chapter 17.38:

A. Planned development subject to the provisions of Chapter 17.26;

B. Public and quasi-public uses of an educational or religious type including public and parochial elementary schools, junior high schools, high schools and colleges; nursery schools, licensed day care facilities for more than fourteen (14) children; churches, parsonages and other religious institutions;

C. Public and private charitable institutions, general hospitals, sanitariums, nursing and convalescent homes; not including specialized hospitals, sanitariums, or nursing, rest and convalescent homes including care for acute psychiatric, drug addiction or alcoholism cases;

D. Public uses of an administrative, recreational, public service or cultural type including city, county, state or federal administrative centers and courts, libraries, museums, art galleries, police and fire stations, ambulance service and other public building, structures and facilities; public playgrounds, parks and community centers;

E. Electric distribution substations;

F. Gas regulator stations;

G. Public service pumping stations, i.e., community water service wells;

H. Communications equipment buildings;

I. Planned neighborhood commercial center subject to the provisions of Chapter 17.26;

J. Residential development specifically designed for senior housing;

K. Mobile home parks in conformance with Section 17.32.040;

L. [Reserved.] M. Residential developments utilizing private streets in which the net lot area (lot area not including street area) meets or exceeds the site area prescribed by this article and in which the private streets are designed and constructed to meet or exceed public street standards;

N. Adult day care in excess of twelve (12) persons;

O. Duplexes on corner lots;

P. Twenty-four (24) hour residential care facilities or foster homes for more than six individuals in addition to the residing family;

Q. Residential structures and accessory buildings totaling more than ten thousand (10,000) square feet;

R. Other uses similar in nature and intensity as determined by the city planner.

S. Transitional or supportive housing for seven (7) or more resident/clients.

17.12.050 Site area.

The minimum site area shall be as follows:

Zone	Minimum Site Area
R-1-5	5,000 square feet
R-1-12.5	12,500 square feet
R-1-20	20,000 square feet

A. Each site shall have not less than forty (40) feet of frontage on the public street. The minimum width shall be as follows:

Zone	Interior Lot	Corner Lot
R-1-5	50 feet	60 feet
R-1-12.5	90 feet	100 feet
R-1-20	100 feet	110 feet

B. Minimum width for corner lot on a side on cul-de-sac shall be eighty (80) feet, when there is no landscape lot between the corner lot and the right of way.

17.12.060 One dwelling unit per site.

In the R-1 single-family residential zone, not more than one dwelling unit shall be located on each site, with the exception to Section 17.12.020(J).

17.12.070 Replacement and expansion of legally existing multiple family units.

In accordance with Sections 17.12.020 legally existing multiple family units may be expanded or replaced if destroyed by fire or other disaster subject to the following criteria:

A. A site plan review permit as provided in Chapter 17.28 is required for all expansions or replacements.

B. Replacement/expansion of unit(s) shall be designed and constructed in an architectural style compatible with the existing single-family units in the neighborhood. Review of elevations for replacement/expansion shall occur through the site plan review process. Appeals to architectural requirements of the site plan review committee shall be subject to the appeals process set forth in Chapter 17.28.050.

C. Setbacks and related development standards shall be consistent with existing single-family units in the neighborhood.

D. Parking requirements set forth in Section 17.34.020 and landscaping requirements shall meet current city standards and shall apply to the entire site(s), not just the replacement unit(s) or expanded area, which may result in the reduction of the number of units on the site.

E. The number of multiple family units on the site shall not be increased.

F. All rights established under Sections 17.12.020and 17.12.070 shall be null and void one hundred eighty (180) days after the date that the unit(s) are destroyed (or rendered uninhabitable) unless a building permit has been obtained and diligent pursuit of construction has commenced. The approval of a site plan review permit does not constitute compliance with this requirement.

17.12.080 Front yard.

A. The minimum front yard shall be as follows:

Zone	Minimum Front Yard
R-1-5	Fifteen (15) feet for living space and side-loading garages and twenty-two (22) feet for front-loading garages or other parking facilities, such as, but not limited to, carports, shade canopies, or porte cochere. A Porte Cochere with less than twenty-two (22) feet of setback from property line shall not be counted as covered parking, and garages on such sites shall not be the subject of a garage conversion.
R-1-12.5	Thirty (30) feet
R-1-20	Thirty-five (35) feet

B. On a site situated between sites improved with buildings, the minimum front yard may be the average depth of the front yards on the improved site adjoining the side lines of the site but need not exceed the minimum front yard specified above.

C. On cul-de-sac and knuckle lots with a front lot line of which all or a portion is curvilinear, the front yard setback shall be no less than fifteen (15) feet for living space and side-loading garages and twenty (20) feet for front-loading garages.

17.12.090 Side yards.

A. The minimum side yard shall be five feet in the R-1-5 and R-1-12.5 zone subject to the exception that on the street side of a corner lot the side yard shall be not less than ten feet and twenty-two (22) feet for front loading garages or other parking facilities, such as, but not limited to, carports, shade canopies, or porte cocheres.

B. The minimum side yard shall be ten feet in the R-1-20 zone subject to the exception that on the street side of a corner lot the side yard shall be not less than twenty (20) feet.

C. On a reversed corner lot the side yard adjoining the street shall be not less than ten feet.

D. On corner lots, all front-loading garage doors shall be a minimum of twenty-two (22) feet from the nearest public improvement or sidewalk.

E. Side yard requirements may be zero feet on one side of a lot if two or more consecutive lots are approved for a zero lot line development by the site plan review committee.

F. The placement of any mechanical equipment, including but not limited to, pool/spa equipment and evaporative coolers shall not be permitted in the five-foot side yard within the buildable area of the lot, or within five feet of rear/side property lines that are adjacent to the required side yard on adjoining lots. This provision shall not apply to street side yards on corner lots, nor shall it prohibit the surface mounting of utility meters and/or the placement of fixtures and utility lines as approved by the building and planning divisions.

17.12.100 Rear yard.

In the R-1 single-family residential zones, the minimum yard shall be twenty-five (25) feet, subject to the following exceptions:

A. On a corner or reverse corner lot the rear yard shall be twenty-five (25) feet on the narrow side or twenty (20) feet on the long side of the lot. The decision as to whether the short side or long side is used as the rear yard area shall be left to the applicant's discretion as long as a minimum area of one thousand five hundred (1,500) square feet of usable rear yard area is maintained. The remaining side yard to be a minimum of five feet.

B. Accessory structures not exceeding twelve (12) feet may be located in the required rear yard but not closer than three feet to any lot line provided that not more than twenty (20) percent of the area of the required rear yard shall be covered by structures enclosed on more than one side and not more than forty (40) percent may be covered by structures enclosed on only one side. On a reverse corner lot an accessory structure shall not be located closer to the rear property line than the required side yard on the adjoining key lot. An accessory structure shall not be closer to a side property line adjoining key lot and not closer to a side property line adjoining the street than the required front yard on the adjoining key lot.

C. Main structures may encroach up to five feet into a required rear yard area provided that such encroachment does not exceed one story and that a usable, open, rear yard area of at least one thousand five hundred (1,500) square feet shall be maintained. Such encroachment and rear yard area shall be approved by the city planner prior to issuing building permits.

17.12.110 Height of structures.

In the R-1 single-family residential zone, the maximum height of a permitted use shall be thirty-five (35) feet, with the exception of structures specified in Section 17.12.100(B).

17.12.120 Off-street parking.

In the R-1 single-family residential zone, subject to the provisions of Chapter 17.34.

17.12.130 Fences, walls and hedges.

In the R-1 single-family residential zone, fences, walls and hedges are subject to the provisions of Section 17.36.030.

17.12.135 Lot area less than 5,000 square feet.

A. Notwithstanding Section 17.12.050, lots in the R-1-5 zone may have a lot area of between 3,600 and 4,999 square feet if all of the following standards are met:

1. The Planning Commission finds that the development's overall density is consistent with the General Plan.

2. The maximum number of lots less than 5,000 square feet that may be approved by a tentative subdivision map shall be fifty (50) percent or less of the total lots.

3. Streets shall be constructed to public street standards.

4. Each subdivision with at least 15 lots that are less than 5,000 square feet in size shall make available to buyers at least three (3) different small lot floor plans with at least four (4) available elevation designs for each floor plan to construct on those lots.

5. The primary frontage of the dwelling unit shall face a public street, primary entryway, circulation walkway, or open space with sidewalks that provide delineated paths of travel.

6. The primary frontage of the dwelling unit shall include the primary entrance and at least one window.

7. Required covered parking spaces shall be in garages. Carports are prohibited.

8. The width of the garage shall not be greater than fifty (50) percent of the width of the dwelling unit.

9. The garage shall not extend beyond the front building facade (living area.)

10. All dwelling units shall include a covered front porch at least four (4) feet deep and six (6) feet wide or an uncovered front courtyard at least five (5) feet wide and five (5) feet deep that is surrounded on four sides by the dwelling unit or a wall or fence between three (3) and four (4) feet high with a pedestrian gate or entryway.

11. The building official shall not approve a building permit for a new dwelling unit on a lot with a lot area less than 5,000 square feet until the city planner, or designee, has determined that the standards identified in this section are met.

12. The subdivision shall provide a common, usable open space area of a minimum 3,000 square feet or two hundred fifty (250) square feet per lot under 5,000 square feet, whichever is greater. The area shall be landscaped and maintained with funding from either a homeowner's association or a landscape and lighting act district.

B. Notwithstanding this Chapter, lots with less than five thousand (5,000) square feet shall have the following minimum dimensions and building setback areas, unless they were approved with a planned development permit:

1. The minimum lot depth shall be seventy (70) feet.

2. The minimum lot width shall be forty-six (46) feet for interior lots and fifty-one (51) feet for corner lots.

3. The minimum front building setback area shall be twelve (12) feet for livable space and twenty (20) feet for garages.

4. The minimum rear yard building setback area shall be fifteen (15) feet.

5. The minimum interior side yard building setback area shall be five (5) feet.

6. The minimum corner side yard building setback area shall be ten (10) feet.

7. The maximum building height shall be thirty-five (35) feet.

8. Lots shall provide for a usable open space area of a minimum three hundred (300) square feet. The open space shall be a minimum fifteen (15) feet wide.

C. Lots less having a lot area of 3,600 square feet, or lots that do not meet the standards in this section may be approved through the planned development permit process per Chapter 17.26. (Ord. 2017-01 (part), 2017)

RESOLUTION NO. 2024-08

A RESOLUTION BY THE PLANNING COMMISSION OF THE CITY OF VISALIA RECOMMENDING APPROVAL OF ANNEXATION NO. 2024-01 AND DETACHMENT OF PROPERTY FROM COUNTY SERVICE AREA NO. 1, PERTAINING TO TWO PARCELS TOTALING 59.13 ACRES INTO THE CITY LIMITS OF VISALIA. UPON ANNEXATION, THE SITE SHALL BE ZONED R-1-5 (SINGLE-FAMILY RESIDENTIAL 5,000 SQUARE FOOT MINIMUM), WHICH IS CONSISTENT WITH THE GENERAL PLAN LAND USE DESIGNATION OF LOW DENSITY RESIDENTIAL. THE PROJECT SITE LOCATED WEST OF SOUTH ROEBEN STREET, APPROXIMATELY 650 FEET SOUTH OF WEST TULARE AVENUE (APNS: 087-010-006, 008).

WHEREAS, the project proponents approve to initiate proceedings for annexation to said city of territory described on the attached legal description included as Attachment “A” of this resolution; and

WHEREAS, the Planning Commission of the City of Visalia, after a duly published notice, did hold a public hearing on July 22, 2024, and

WHEREAS, during the July 22, 2024, Planning Commission meeting the Planning Commission requested that the project be continued to the August 12, 2024 Planning Commission meeting to provide staff and the project applicant with time to address concerns raised by the public regarding a five-foot-wide strip of land located between an existing block wall on six lots within the Savannah Heights Subdivision and the southern property boundary of the project site; and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice did hold a public hearing before said Commission on August 12, 2024; and

WHEREAS, the proponent desires to annex said territory to the City of Visalia for the following reasons: 1) The annexation will contribute to and facilitate orderly growth and development of both the City and the territory proposed to be annexed; 2) Will facilitate and contribute to the proper and orderly layout, design and construction of streets, gutters, sanitary and storm sewers and drainage facilities, both within the City and within the territory proposed to be annexed; and 3) Will provide and facilitate proper overall planning and zoning of lands and subdivision of lands in said City and said territory in a manner most conducive of the welfare of said City and said territory; and

WHEREAS, this proposal is made pursuant to the Cortese-Knox-Hertzburg Local Government Reorganization Act of 2000, commencing with Section 56000 of the Government Code of the State of California; and

WHEREAS, the territory proposed to be annexed is uninhabited; and

WHEREAS, the territory proposed to be annexed is located in Voting District 3 as identified in the Election District Map adopted by the City Council on February 22, 2022 per Resolution No. 2022-11; and

WHEREAS, the Planning Commission reviewed this proposal on July 22, 2024, and found it to be consistent with the General Plan; and

WHEREAS, an Initial Study was prepared which disclosed that no significant environmental impacts would result from this project with the incorporation of mitigation measures; and

WHEREAS, the Planning Commission hereby makes the following findings with regard to the project:

1. That the Annexation is consistent with the intent of the General Plan and Zoning Ordinance, and is not detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
2. That the proposed Annexation, which will re-designate 59.13-acres of AE-20 (Agricultural Exclusive 20-acre) County zone district to an R-1-5 (Single-Family Residential, 5,000 square foot minimum site area) City zone district and will not impose new land uses or development that will adversely affect the subject site or adjacent properties.
3. That the parcel is not located within an Agricultural Preserve.
4. That the parcel will be annexed into Voting District 3 per the Council Election Voting District Map.
5. That an Initial Study was prepared for this project, consistent with CEQA, which disclosed that environmental impacts are determined to be not significant and that Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257), is hereby adopted. Furthermore, the design of the subdivision and the proposed improvements are not likely to cause substantial environmental damage nor substantially and avoidably injure fish or wildlife or their habitat.

NOW, THEREFORE, BE IT RESOLVED that the Planning Commission recommends that the City Council adopt Mitigated Negative Declaration No. 2024-05 for Annexation No. 2024-01 that was prepared consistent with the California Environmental Quality Act and City of Visalia Environmental Guidelines.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Planning Commission of the City of Visalia recommends approval to the City Council of the Annexation described herein, subject to the following conditions:

1. Upon annexation, the territory shall be zoned R-1-5 (Single Family Residential, 5,000 square foot minimum site area), consistent with the pre-zoning designated by the General Plan Land Use Map.
2. That the applicant(s) enter into a Pre-Annexation Agreement with the City which memorializes the required fees, policies, and other conditions applicable to the

annexation. The draft Pre-Annexation Agreement is attached herein as Attachment “B” of Resolution No. 2024-08. The agreement is subject to final approval by the City Council of the City of Visalia.

ATTACHMENT A

ANNEXATION NO. 2024-___

CITY OF VISALIA - EFFECTIVE:

THAT PORTION OF SECTION 34. T. 18 S., R. 24 E., M.D.B.&M., IN THE COUNTY OF TULARE, STATE OF CALIFORNIA

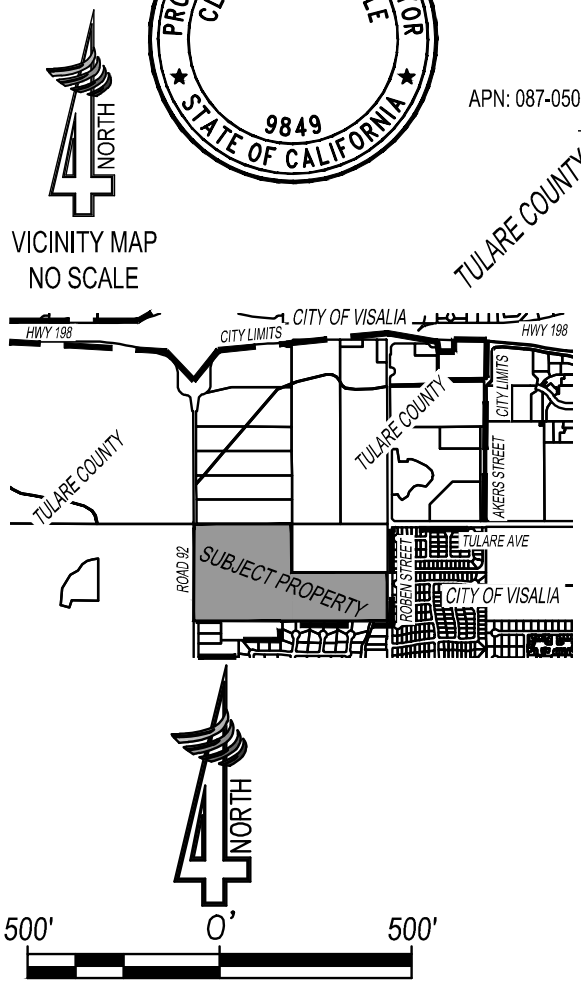
EXHIBIT "B"

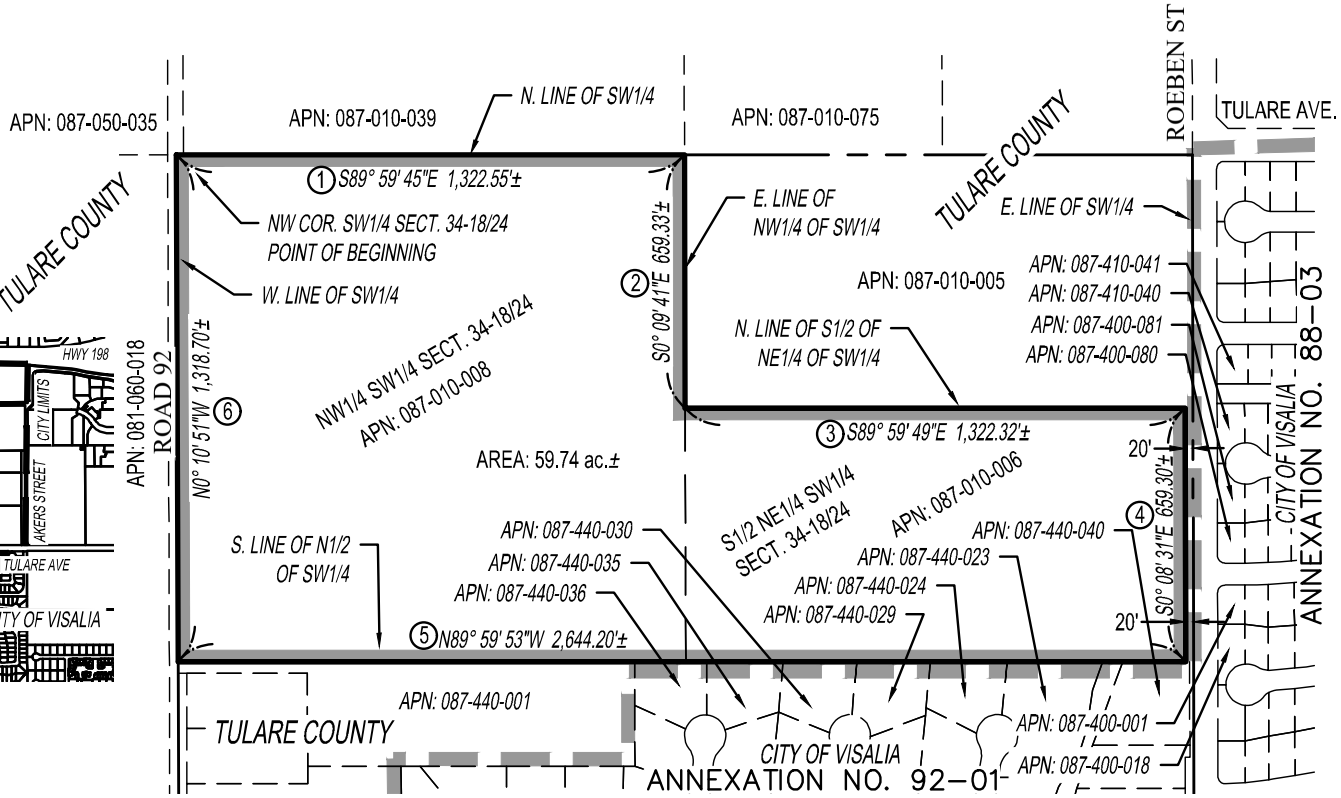
LEGEND

ANNEXATION BOUNDARY

EXISTING CITY LIMITS

PROFESSIONAL LAND SURVEYOR
CLINTON J. CAUDLE
9849
STATE OF CALIFORNIA





4CREEKS
324 S. SANTA FE, STE. A
VISALIA, CA 93292
TEL: 559.802.3052
FAX: 559.802.3215
www.4-creeks.com

EXHIBIT “A”

CITY OF VISALIA

ANNEXATION NO. 2024-_____

That portion of the Northwest quarter of the Southwest quarter and that portion of the South Half of the Northeast quarter of the Southwest quarter of Section 34, Township 18 South, Range 24 East, Mount Diablo Base and Meridian, in the County of Tulare, State of California, being more particularly described as follows:

Beginning at the Northwest corner of the Southwest quarter of Section 34, Township 18 South, Range 24 East;

1. Thence South 89°59’45” East, along the North line of said Southwest quarter, 1322.55 feet more or less, to the Northeast corner of the Northwest quarter of said Southwest quarter;
2. Thence South 0°09’41” East, along the East line of the Northwest quarter of said Southwest quarter, 659.33 feet more or less, to the North line of the South half of the Northeast quarter of said Southwest quarter;
3. Thence South 89°59’49” East, along last said North line, 1322.32 feet more or less, to a line parallel with and 20 feet West of East line of said Southwest quarter, and existing City Limit line, being the West right-of-way line of Roeben Street;
4. Thence South 0°08’31” East, along said parallel line, and existing City Limit line, and said right-of-way line, 659.30 feet more or less, to the South line of the North half of said Southwest quarter;
5. Thence North 89°59’53” West, along said South line, and along the existing City Limit line and the Westerly prolongation thereof, 2644.20 feet more or less, to the Southwest corner of the Northwest quarter of said Southwest quarter;
6. Thence North 0°10’51” West, along the West line of said Southwest quarter, 1318.70 feet more or less, to the Northwest Corner of said Southwest quarter and the Point of Beginning;

Consisting of 59.74 acres more or less.

ONLY ONE SHEET

ATTACHMENT B

Pre-Annexation Agreement

This Pre-Annexation Agreement (”Agreement”) is made and entered into this ____ day of _____, 20___, by and among the City of Visalia, a charter law city (“City’) and Margaret Kenyon Elliott, (hereinafter “Owners”):

RECITALS

WHEREAS, Owners are the record owners of a portion of property, currently located in the unincorporated area of the County of Tulare, legally described in Exhibit A and depicted in Exhibit B, which are attached hereto and incorporated herein by reference (hereinafter referred to as the “Property”); and

WHEREAS, the Property is adjacent to and contiguous to the existing corporate boundary of the City, but is not situated within the limits of any municipality; and

WHEREAS, Owners desires to have the Property annexed to the City and to have the Property zoned as R-1-5 (Single Family Residential, 5,000 sq. ft. minimum), which would permit the Property to be used for Residential Low Density use; and

WHEREAS, the Property consists of approximately 59.13 acres, and no electors reside thereon; and

WHEREAS, proper applications have been filed with the City for approval of the annexation and tentative subdivision map as may be required for the Property; and

WHEREAS, the City has, by a resolution requesting initiation of proceedings to annex territory (“Resolution”) adopted on _____, 20__, initiated proceedings to annex the Property; and

WHEREAS, finding adoption of Resolution No. 20__-_____ initiating annexation requires entry into this Annexation Agreement prior to the City submitting an application to the Local Area Formation Commission to commence the proposed annexation; and

WHEREAS, Owners acknowledges that during the term of this Agreement the Property will be subject to all ordinances, resolutions, and other regulations of the City, as they may be amended from time to time, as well as state and federal statutes and regulations, as they may be amended.

WHEREAS, the City is authorized by its police powers to protect the health, safety and welfare of the community, and is entering into this Agreement and executing such authority for said purpose; and

WHEREAS, nothing contained in this Agreement shall constitute a waiver of the City's legislative, governmental, or police powers to promote and protect the health, safety and welfare of the City and its inhabitants, nor shall this Agreement prohibit the enactment or increase by town of any tax, fee, or charge.

NOW, THEREFORE, in consideration of the above Recitals and the following Covenants, it is agreed by and between the parties as follows:

I. AGREEMENT

A. Parties. The parties to this Agreement are the City and Owners.

B. Incorporation of Recitals. The parties confirm and incorporate the foregoing Recitals into this Agreement.

C. Purpose/Limits of Agreement. A specific purpose of this Agreement is to set forth specific terms and conditions of annexation of the Property to City.

II. TERMS AND CONDITIONS OF ANNEXATION; PURPOSE OF AGREEMENT

Generally, each party to this Agreement is benefited and burdened by detachment from the County and annexation to the City. Owners will obtain a variety of services from City and City will obtain additional tax revenues. City has adopted ordinances, regulations, and policies concerning design, improvement, construction, development and use of property within the City. Nothing contained in this Agreement shall constitute a waiver of City's legislative, governmental, or police powers to promote and protect the health, safety, and welfare of City and its inhabitants, nor shall this Agreement prohibit the enactment or increase by City of any tax or fee. The purpose of this Agreement is to spell out additional conditions to which Owners will be subject following annexation and prior to development within the City due to the burden placed on City by Owners desired annexation:

A. Water Acquisition Policy: Although City's current water service provider, California Water Service, continues to issue will-serve letters, City's Council is aware of the steadily decreasing level of water in the City's underground water aquifers and has determined that increasing development is contributing to this serious problem. Therefore, City's Council has studied the issue and investigated possible solutions in order that it may continue to assure citizens that there will be water available to serve the community's needs. City's Council is actively engaged in water replenishment activities with the Kaweah Delta Water Conservation District and it has adopted a policy, as set forth in Chapter 16.54 of the Visalia Municipal Code, which requires annexation applicants to convey title to water rights to City upon annexation and/or to pay a fee to City (pursuant to an adopted fee schedule) so that City may acquire water for groundwater replenishment and storage in order

to serve new development that comes with annexation, including development of the Property (the "Water Acquisition Policy"). Therefore, Owners agrees that, at the time that LAFCO issues a Certificate of Completion finalizing the annexation (and upon the running of all applicable statutes of limitation related thereto), Owners will comply with the Water Acquisition Policy by entering into an agreement with City to either (i) convey to City those water rights vested in the Property, if any, (ii) agree to pay City a fee in lieu thereof, (iii) agree to some combination of an in lieu fee payment and water right conveyance, or (iv) to comply by any other method allowed by the Water Acquisition Policy, provided that such agreement includes a condition precedent requiring City's water supplier to agree to serve the Property with potable water in amount sufficient to meet Owners reasonably anticipated total water demand for the Property, as determined by a valid water supply assessment prepared pursuant to California Water Code § 10910 *et seq*. No post-annexation permit or entitlement approvals concerning the Property will be issued by City unless and until Owners comply with the Water Acquisition Policy in a manner consistent with this subsection II(A). Owners agree that it shall identify all water rights which, to the best of Owners knowledge, have been used by Owners or its agents in connection with the Property, regardless of whether they are considered "vested" in the Property, and shall comply with the Water Acquisition Policy by entering into an agreement with City to convey such rights, if any, to City. City shall cooperate with Owners in valuing such water rights for the purposes of determining the amount of offset to be applied against the in-lieu fee as required pursuant of the Water Acquisition Policy. Owners further agrees that City shall have first right of refusal in acquiring upon mutually acceptable terms any water rights that Owners own that may be in addition to those required to meet Owners obligations under the Water Acquisition Policy. City agrees that water rights need not be conveyed and in lieu fees shall not be made payable until City's issuance of a building permit covering the Property and, in the event Owners apply to City for its approval of multiple building permits covering the Property, City agrees such water rights conveyance or fee payment obligation shall be allocated on a pro rata basis to each phase of development covered by each building permit, with conveyance of water rights or payment to be made on a per building permit basis upon City's issuance of each building permit covering the Property.

B. General Plan Maintenance Fee: On June 21, 2004, the City adopted (by Resolution 2004-63, as corrected) a General Plan Maintenance Fee. Owners agree that, at the time LAFCO issues a Certificate of Completion finalizing the annexation (and upon the running of all applicable statutes of limitation related thereto), Owners will enter into an agreement with City to pay the General Plan Maintenance Fee in an amount equal to $495 per acre and no post-annexation permit or entitlement approvals concerning the Property will be issued unless and until said agreement is executed. City agrees that such fee shall not be made payable until City's issuance of one or more building permits covering the Property and, in the event Owners apply to City for its approval of multiple

building permits covering the Property, City agrees such fee payment obligation shall be allocated on a pro rata basis to each phase of development covered by each building permit, with payment to be made on a per building permit basis upon City's issuance of each building permit covering the Property. Owners satisfaction of its obligations under this Section II(B) will satisfy any and all of Owners obligations related to and arising under the General Plan Maintenance Fee.

C. Plan For Providing Services. The parties agree to cooperate in, and to take such actions as may be necessary to ensure, the diligent preparation of a Plan For Providing Services to the Property, to be submitted to LAFCO along with City's annexation application, in accordance with Cortese-Knox-Hertzberg Act requirements.

Developer understands and agrees that building permits and other entitlements for development on the Property will not be issued unless and until each and every condition herein is met.

III. TERM

The term of this Agreement shall become effective when fully executed by the parties hereto (the "Effective Date") and continue for a period of twenty (20) years. This Agreement shall terminate if (a) the annexation proceedings are terminated for any reason; or (b) the completion of the annexation (recordation of a Certificate of Completion) does not occur on or before one (1) year from the Effective Date. Any indemnification provision included herewith shall survive termination and continue until expiration of the statute of limitations applicable to the subject matter thereof.

IV. DEFAULT, REMEDIES AND ENFORCEMENT

In the event of breach or default of any term, condition, covenant or obligation of this Agreement by either party, the other party may exercise any rights available at law or in equity, including an action for specific performance or other injunctive relief, and all such remedies shall be cumulative. This Agreement shall be enforceable, unless lawfully terminated or cancelled, by any party to the Agreement or any party's successor in interest, notwithstanding any subsequent changes in any applicable law adopted by the City which alters or amends the laws, ordinances, resolutions, rules or policies frozen by this Agreement.

V. INDEMNIFICATION

Owners agree to indemnify and hold harmless City and the City's officers, employees, agents, and contractors, from and against all liability, claims, causes of actions, and demands, including attorney's fees and court costs, which arise out of or are in any manner connected with this Agreement or its operation, or with any other action annexation or other action determined necessary or desirable by the City in order to effectuate the annexation of Owners property, or which are in any manner connected with the City's

enforcement of this Agreement. Owners further agree to investigate, handle, respond to, and to provide defense for and defend against or at the City's option to pay the attorney's fees and court costs, which arise out of or are in any manner connected with this Agreement or its operation.

VI. MISCELLANEOUS

a. Binding Effect/Covenants to Run With Land. The Parties hereto agree to be bound by this Agreement. This Agreement shall be binding upon and shall inure to the benefit of the heirs, transferees, successors and assigns of the parties hereto. The terms and conditions stated herein shall constitute covenants running with the land.

b. Assignment. Neither party shall assign, delegate or transfer their rights and duties in this Agreement without the written consent of the other party.

c. Authorized Signatory. The individuals executing this Agreement, by their signature hereto, declare that they are authorized to, and have the legal power, right and actual authority to bind the party to the terms and conditions of this Agreement.

d. Notices. All notices under this Agreement shall be effective upon personal delivery to City, or Owners, as the case may be, three (3) business days after deposit in the United States Mail, postage fully prepaid, addressed to the respective parties as follows:

To the City:
City Manager
City of Visalia
220 N. Santa Fe Street
Visalia, CA 93291

With Copy to:
Kenneth J. Richardson
City Attorney
Peltzer & Richardson
3746 West Mineral King
Visalia, CA 93291

To Owner:
Margaret Kenyon Elliott
16479 EFM 837
Frankston, TX 75763

San Joaquin Valley Homes
Attn: Steven Macias
5607 Avenida de los Robles
Visalia, CA 93291

Or such other address as the parties may from time to time designate by giving notice as required hereunder.

e. Entire Agreement. This Agreement represents the entire agreement between the City and Owners as to its subject matter and no prior oral or written understanding shall be of any force or affect.

f. Amendment. No part of this Agreement may be modified without the written consent of both parties.

g. Headings. Section headings are provided for organizational purposes only and do not in any manner affect the scope, meaning, or intent of the provisions under the heading.

h. No Third Party Beneficiaries Intended. Except as provided herein, the parties of this Agreement do not intend to provide any other party with any benefit or enforceable legal or equitable right or remedy.

i. Exhibits and Recitals. The recitals and any exhibits to this Agreement are fully incorporated by reference and are integral parts of this Agreement.

j. Conflict With Laws or Regulations/Severability. This Agreement is subject to all applicable laws and regulations. If any provision(s) of this Agreement is found by any court or other legal authority, or is agreed by the parties, to be in conflict with any code or regulation governing this subject, the conflicting provision(s) shall be considered null and void. If the effect of nullifying any conflicting provision is such that a material benefit of the Agreement to either party is lost, the Agreement may be terminated at the option of the effected party. In all other cases, the remainder of the Agreement shall continue in full force and effect.

k. Waiver. A waiver of any breech of this Agreement by any party shall not constitute a continuing waiver or a waiver of any subsequent breech of the same or any other provision of this Agreement.

l. Choice of Law - Venue. This Agreement shall be governed by the laws of the State of California and any questions arising hereunder shall be construed or determined according to such law. Venue for any legal action arising from or in connection with this Agreement or the Property shall be in Tulare County, California.

m. Attorneys Fees. In the event either party commences any action, arbitration or legal proceedings for the enforcement of this Agreement, the prevailing party, as determined by the court or arbitrator, shall be entitled to recovery of its reasonable fees and costs, including attorneys fees, court costs and arbitration costs incurred in the action brought thereon.

n. No Agency, Joint Venture or Partnership. It is understood that this Agreement is a contract that has been negotiated and voluntarily entered into by City and Owners and that Owners are not an agent of City. City and Owners hereby renounce the existence of any form of joint venture

or partnership between them, and agree that nothing contained herein or in any document executed in connection therewith shall be construed as making City and Owners joint venturers or partners.

o. Excusable Delays; Extension of Time of Performance. In the event of delays due to strikes, inability to obtain materials, civil commotion, fire, war, terrorism, lockouts, third-party litigation or other legal challenges regarding the annexation, riots, floods, earthquakes, epidemic, quarantine, freight embargoes, failure of contractors to perform, or other circumstances beyond the reasonable control of the parties and which cause substantially interferes with the ability of either party to perform its obligations under this Agreement, then the time for performance of any such obligation shall be extended for such period of time as the cause of such delay shall exist but in any event not longer than for such period of time.

p. Further Assurances. The parties will execute and deliver, upon demand by the other party, such further documents, instruments and conveyances, and shall take such further actions as such other party may request from time to time to document the transactions set forth herein.

q. Recordation of Agreement; Counterparts. This Agreement, or an abstract of its material terms and conditions shall be recorded by either party in the Official Records of the Tulare County Recorder. This Agreement may be executed in counterparts and, when all counterparts are combined, shall constitute a single agreement.

r. Future Development Impact Fees. The Owners hereby acknowledge that the City may, from time to time, adopt additional development impact fees at some time in the future after annexation of the Property. The Owners hereby agree that, in the event that the City adopts an ordinance imposing a development impact fee, in accordance with applicable legal requirements, prior to issuance of a vesting project approval for development of any portion of the Property, Owners will be subject to the requirements of such citywide development impact fee program to the extent applicable at the time Owners seek a vesting project approval for a project on the Property. This provision is not intended to retroactively subject the Property to additional annexation-related fees that may be adopted in the future.

s. Prezoning. City agrees to promptly process and, after City completes and adopts its environmental review, consider Owners application to prezone the Property, as required by the Cortese-Knox-Hertzberg Act's prezoning requirements. The R-1-5 (Single Family Residential, 5,000 sq. ft. minimum) zoning designation is the adopted prezonings for the Property, in accordance with Visalia Municipal Code Chapters 17.12 and Section 17.06.050(A), which section states that all territory which is annexed into the City shall be classified to the zone as indicated on the Visalia General Plan land use map, as adopted by the City (the "Prezoning"). The R-1-5

(Single Family Residential, 5,000 sq. ft. minimum) zoning designation permits residential land uses, as specified by the City of Visalia Municipal Code. Upon execution of this Agreement, City shall use its best efforts to (i) promptly complete its environmental review of the Project and consider its adoption thereof, and (ii) complete its preparation of the proposed prezoning contemplated by this subsection II(E) and consider its approval thereof. If City approves the prezoning contemplated by this subsection II(E), the terms and conditions of such prezoning shall be included in City's application to LAFCO for the annexation of the Property to City, which application shall promptly be submitted to LAFCO by City.

t. Development Impact Fees: The Owners shall pay all applicable development impact fees for any subsequent development on the Property at the time that building permits are issued, or prior to issuance of final occupancy, if applicable, at the discretion of the Community Development Director, or as may be required by ordinance. A list and amount of development impact fees can be located in the City's current version of the Development Fee Schedule.

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IN WITNESS WHEREOF, the parties have executed this Agreement on the date set forth next to their signature.

CITY

Date: _____ By: _____
Leslie Caviglia, City Manager

Attest:

Date: _____ By: _____
Michelle Nicholson, City Clerk

Approved as to Form:

Date: _____ By: _____
Kenneth J. Richardson, City Attorney

OWNERS

Date: _____ By: _____
_____
_____
_____
_____

Date: _____ By: _____
_____
_____
_____
_____

RESOLUTION NO 2024-07

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING ELLIOTT TENTATIVE SUBDIVISION MAP NO. 5597: A REQUEST TO SUBDIVIDE TWO PARCELS TOTALING APPROXIMATELY 59.13-ACRES INTO 225 LOTS FOR SINGLE-FAMILY RESIDENTIAL USE AND ADDITIONAL OUTLOTS FOR LANDSCAPING AND A NEIGHBORHOOD PARK, TO BE LOCATED WITHIN THE R-1-5 (SINGLE-FAMILY RESIDENTIAL, 5,000 SQUARE FOOT MINIMUM SITE AREA) ZONE. THE PROJECT SITE IS LOCATED WEST OF SOUTH ROEBEN STREET, APPROXIMATELY 650 FEET SOUTH OF WEST TULARE AVENUE (APNS: 087-010-006, 008)

WHEREAS, Elliott Tentative Subdivision Map No. 5597 is a request to to subdivide two parcels totaling approximately 59.13-acres into 225 lots for single-family residential use and additional outlots for landscaping and a neighborhood park. The project site is located west of South Roeben Street, approximately 650 feet south of West Tulare Avenue (APNs: 087-010-006, 008); and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice held a public hearing before said Commission on July 22, 2024; and

WHEREAS, during the July 22, 2024, Planning Commission meeting the Planning Commission requested that the project be continued to the August 12, 2024 Planning Commission meeting to provide staff and the project applicant with time to address concerns raised by the public regarding a five-foot-wide strip of land located between an existing block wall on six lots within the Savannah Heights Subdivision and the southern property boundary of the project site; and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice did hold a public hearing before said Commission on August 12, 2024; and

WHEREAS, the Planning Commission of the City of Visalia finds the tentative subdivision map in accordance with Chapter 16.16 of the Subdivision Ordinance of the City of Visalia, based on the evidence contained in the staff report and testimony presented at the public hearing; and

WHEREAS, an Initial Study was prepared which disclosed that no significant environmental impacts would result from this project with the incorporation of mitigation measures.

NOW, THEREFORE, BE IT RESOLVED that the Planning Commission hereby adopts Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257) for Elliott Tentative Subdivision Map No. 5597 that was prepared consistent with the California Environmental Quality Act and City of Visalia Environmental Guidelines.

NOW, THEREFORE, BE IT FURTHER RESOLVED, that the Planning Commission of the City of Visalia approves the proposed tentative subdivision map based on the following specific findings and based on the evidence presented:

1. That the proposed location and layout of the Elliott Tentative Subdivision Map No. 5597, its improvements and design, and the conditions under which it will be maintained are consistent with the policies and intent of the General Plan, Zoning Ordinance, and Subdivision Ordinance. The 59.13-acre project site, which is the site of the proposed 225-lot single-family residential subdivision, is consistent with Land Use Policy LU-P-21 of the General Plan. Policy LU-P-21 allows for the "annexation and development of residential, commercial, regional retail, and industrial land to occur within the Urban Development Boundary (Tier II) consistent with the City's Land Use Diagram".
2. That the proposed Elliott Tentative Subdivision Map No. 5597, its improvements and design, and the conditions under which it will be maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity, nor is it likely to cause serious public health problems. The proposed tentative subdivision map will be compatible with adjacent land uses. The project site is bordered by existing residential development, an arterial street, and two collector streets.
3. That the site is physically suitable for the proposed tentative subdivision map. The Elliott Tentative Subdivision Map No. 5597 is consistent with the intent of the General Plan, Zoning Ordinance, and Subdivision Ordinance, and is not detrimental to the public health, safety, or welfare or materially injurious to properties or improvements in the vicinity. The project site is adjacent to land zoned for residential development, and the subdivision establishes an arterial, collector, and local street pattern that will serve the subject site and the future development of vacant parcels located to the north and west of the subject site.
4. That the site is physically suitable for the proposed tentative subdivision map and the project's density, which is consistent with the underlying Low Density Residential General Plan Land Use Designation. The proposed location and layout of the Elliott Tentative Subdivision Map No. 5597, its improvement and design, and the conditions under which it will be maintained is consistent with the policies and intent of the General Plan, Zoning Ordinance, and Subdivision Ordinance. The 59.13-acre project site, which is the site of the proposed 225-lot single-family residential subdivision, is consistent with Land Use Policy LU-P-21.
5. That the proposed Elliott Tentative Subdivision Map No. 5597, the design of the subdivision or the type of improvements will not conflict with easements, acquired by the public at large, for access through or use of, property within the proposed subdivision. The 225-lot subdivision is designed to comply with the City's Engineering Improvement Standards for major streets. The development of the site

with a 225-lot single-family residential subdivision will improve arterial and collector streets (South Roeben Street, West Tulare Avenue, and South Shirk Street), and extend local streets, infrastructure improvements, utilities, right-of-way improvements and a residential lot pattern consistent with existing residential development found in the area.

6. The proposed location of the tentative subdivision map is in accordance with the Visalia General Plan and the objectives of the Zoning and Subdivision Ordinances. The proposed location of the subdivision is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located. Multiple General Plan policies identify the implementation of development standards to ensure that new single-family residential development will contribute to positive land use compatibility. The size of the property combined with the number of residential lots proposed is consistent and compatible with existing surrounding residential development.

   The proposed project will result in the creation of a new single-family residential development at a density of 3.8 units per acre, which is consistent with General Plan land use designation of Low Density Residential and the R-1-5 zoning designation that will be applied to the site when annexed into the city limits.

7. The Housing Accountability Act (GC section 66589.5) requires local agencies to approve housing developments that are consistent with applicable, objective general plan, zoning, and subdivision standards in effect at the time that the housing development project's application is determined to be complete. A local agency cannot disapprove a project or lower its density unless it finds by a preponderance of the evidence that the project would have a specific, adverse impact on public health or safety, and there is no feasible way to mitigate or avoid the impact. There is no evidence that the project would cause quantifiable significant unavoidable impacts on public health and safety. The project is consistent, compliant, and in conformity with the General Plan, Zoning Ordinance, and development standards.

8. That an Initial Study was prepared for this project, consistent with CEQA, which disclosed that environmental impacts are determined to be not significant and that Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257), is hereby adopted. Furthermore, the design of the subdivision or the proposed improvements are not likely to cause substantial environmental damage nor substantially and avoidably injure fish or wildlife or their habitat.

BE IT FURTHER RESOLVED that the Planning Commission hereby approves Elliott Tentative Subdivision Map No. 5597 on the real property hereinabove described in accordance with the terms of this resolution under the provisions of Section 16.16.110 of the Ordinance Code of the City of Visalia, subject to the following conditions:

1. That the subdivision map be developed in substantial compliance with the comments and conditions of the Site Plan Review Committee as set forth under Site Plan Review No. 2023-131 incorporated herein by reference.

2. That the Elliott Tentative Subdivision Map No. 5597 be prepared in substantial compliance with the subdivision map in Exhibit “A”.

3. That setbacks for the Elliott Tentative Subdivision Map No. 5597 shall be as follows:

Minimum Lot Area	Front	Side	Street Side	Rear
5,000 sq. ft.	15-ft. to habitable space. 22-ft. to garage, except on curvilinear lots 20-ft. to garage.	5-ft.	10-ft.	25-ft. City standard rear yard setbacks are 25 feet with allowance for one-story structure to go to 20-feet subject to open space requirements.

4. That approval of the Elliott Tentative Subdivision Map No. 5597 shall not become effective unless Annexation No. 2024-01, placing the project site within the corporate limits of the City of Visalia, is approved by the Tulare County Local Agency Formation Commission (LAFCO), and is fully executed to include all conditions contained in the Pre-Annexation Agreement for Annexation No. 2024-01.

5. That prior to the issuance of any residential building permit on the site, the applicant / developer shall obtain and provide the City with a valid Will Serve Letter from the California Water Service Company.

6. That the applicant shall consult with City of Visalia Engineering Development Division and Traffic Engineering Division and comply with any requirements for adequate design and improvement of the proposed local, collection, and arterial streets. The applicant shall redesign Street 6 to comply with the 60-foot width requirement for local streets.

7. That the applicant shall comply with the Tulare County Comprehensive Airport Land Use Plan and noise requirements therein prior to issuance of a building permit for the tentative subdivision map. This is subject to a requirement that, in areas where aircraft noise is expected to exceed 60dB CNEL, inhabited residential structures must meet California Noise Standards and be designed to achieve an interior noise level of 45 dB CNEL or less.

8. That the block walls located within the Landscape and Lighting District lots shall transition to three-foot height within the 15-foot front yard setback areas of the adjoining residential lots identified as Lots 49, 50, 63, 64, 105, and 135.

9. That a seven-foot-tall block wall shall be installed along the shared boundaries of Outlot E, Elliott Subdivision Lot 1, Savannah Heights Unit 3 Subdivision Lots 44 and 45 (1617 and 1618 South Jacques Court), and 1627 South Roeben Street (APN: 087-442-040). For Elliott Subdivision Lot 1, the block wall shall transition to a three-foot-tall block wall within the 15-foot front yard setback area. The walls shall also be maintained by the Lighting and Landscape District for the Elliott Tentative Subdivision Map No. 5597.

10. The applicant shall coordinate with the Persian Ditch Company and shall comply with all its requirements for the installation of improvements to the Persian Ditch within the project site.

11. The applicant shall comply with all requirements of Visalia Municipal Code Chapter 12.24 (Oak Tree Preservation), for the removal of any Valley Oak trees from the project site.

12. That the Mitigation Monitoring and Reporting Program and its mitigation measures adopted with the Initial Study / Mitigated Negative Declaration No. 2024-05 (State Clearinghouse 2024051257) and all conditions of the Elliott Tentative Subdivision Map No. 5597, including the following conditions in response to the Department of Toxic Substances Control (DTSC) comment letter be met during construction and upon final occupancy and ongoing operation of the project:

    - That prior to site disturbance, the developer/homebuilder shall consult with a qualified hazardous substance professional to determine whether the applicant should obtain soil samples to test for contaminants of concern (COCs), in particular Pesticides and Organochlorine Pesticides (OCPs) historically used on the property. If suggested to be performed, the developer/homebuilder shall have the qualified hazardous substances professional perform the soil sampling per Interim Guidance for Sampling Agricultural Properties from DTSC. The developer/homebuilder shall provide the Planning and Community Preservation Director with a copy of all correspondence between the developer/homebuilder and the qualified hazardous substances professional that details the required direction/recommendation on soil samples to test for COCs/OCPs. The City shall require the developer to comply with specified direction/recommendation as required prior to any further site disturbance.

    - All imported soil and fill material shall be tested to ensure that any contaminants are with DTSC's and the US Environmental Protection Agency's (USEPA's) Regional Screening Levels (RSLs).

13. That the applicant shall consult with the City of Visalia Parks and Recreation Department and shall comply with all requirements for development of the park on Outlot E, which will include designing and installing amenities for the future park.

14. That the temporary stormwater basin located on Lots 37 through 43, and Lots 186 and 187, shall be maintained onsite until a permanent regional ponding basin is established to service the development.

15. That the project be developed in substantial compliance with all improvements depicted and described in Exhibits "A" through "G".

16. That the developer shall inform and have future homeowners of the Elliott subdivision sign and acknowledge Tulare County's "Right to Farm" Ordinance. This informs future residential owners that the farming operations located to the north and west, which are located in Tulare County, are protected and cannot be declared a

nuisance if operating in a manner consistent with proper and accepted customs and standards.

17. That all applicable federal, state, regional, and city policies and ordinances be met.

June 18, 2024

ELLIOT PROPERTY

TENTATIVE SUBDIVISION MAP

PREPARED FOR: SAN JOAQUIN VALLEY HOMES
5607 AVENIDA DE LOS ROBLES
VISALIA, CA 93291

PREPARED BY: 4CREEKS, INC.
324 S. SANTA FE ST., STE. A
VISALIA ,CA 93292

ACREAGE

59.13 AC 225 UNITS

LEGEND

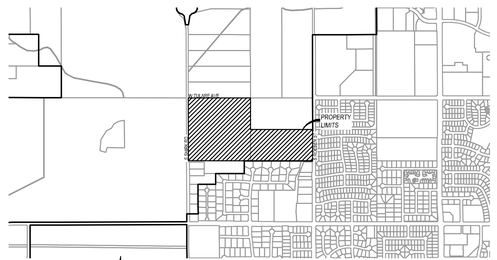
APN:	087-010-006, 087-010-008
ZONING:	AGRICULTURE
GENERAL PLAN:	LOW DENSITY RESIDENTIAL
FLOOD ZONE:	AE & X
ELECTRICITY:	SOUTHEN CALIFORNIA EDISON COMPANY
WATER:	CALWATER
TELEPHONE:	AT&T
NATURAL GAS:	SOUTHERN CALIFORNIA GAS COMPANY
EXISTING USE:	VACANT
PROP. USE:	LOW DENSITY RESIDENTIAL
PROP. MAINTENANCE:	CITY OF VISALIA
	LANDSCAPE SETBACK LOT
	MIN. 7' BLOCK WALL
	6' CHAIN LINK FENCE W/ PRIVACY SLATS
	PHASE LINE

TYPICAL LOT SIZES:

6480 SF MIN. LOTS± (60' X 108' TYP.) (225 UNITS)
*OUTLOTS A-E TO BE DEDICATED TO THE CITY OF VISALIA

UTILITIES:

SEWER:	SHIRK RD - EXIST. 6" ROEBEN ST - EXIST. 8"
STORM DRAIN:	TEMP. RETENTION BASIN TO MAINTAIN ALL ON-SITE DRAINAGE
OVERHEAD POWER:	ROEBEN ST (3 DISTRIBUTION, TO BE UNDERGROUNDED) SHIRK (5 TRANSMISSION, TO BE RELOCATED)



VICINITY MAP

SCALE: 1"=1500'

NORTH

100' 0' 100'

PREPARED BY:
4CREEKS
324 S. SANTA FE, STE. A
VISALIA, CA 93292
TEL: 559.802.3052
FAX: 559.802.3215
www.4-creeks.com

EXHIBIT A

ANNEXATION NO. 2024-___

CITY OF VISALIA - EFFECTIVE:

THAT PORTION OF SECTION 34. T. 18 S., R. 24 E., M.D.B.&M., IN THE COUNTY OF TULARE, STATE OF CALIFORNIA

EXHIBIT "B"

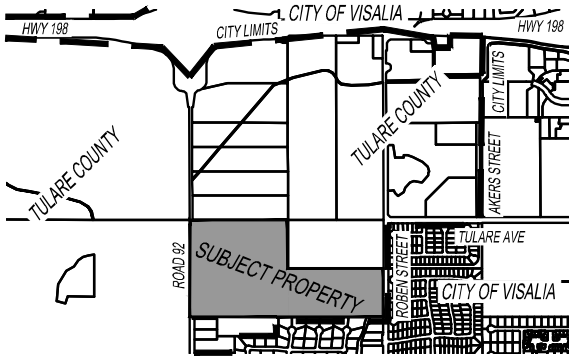
LEGEND

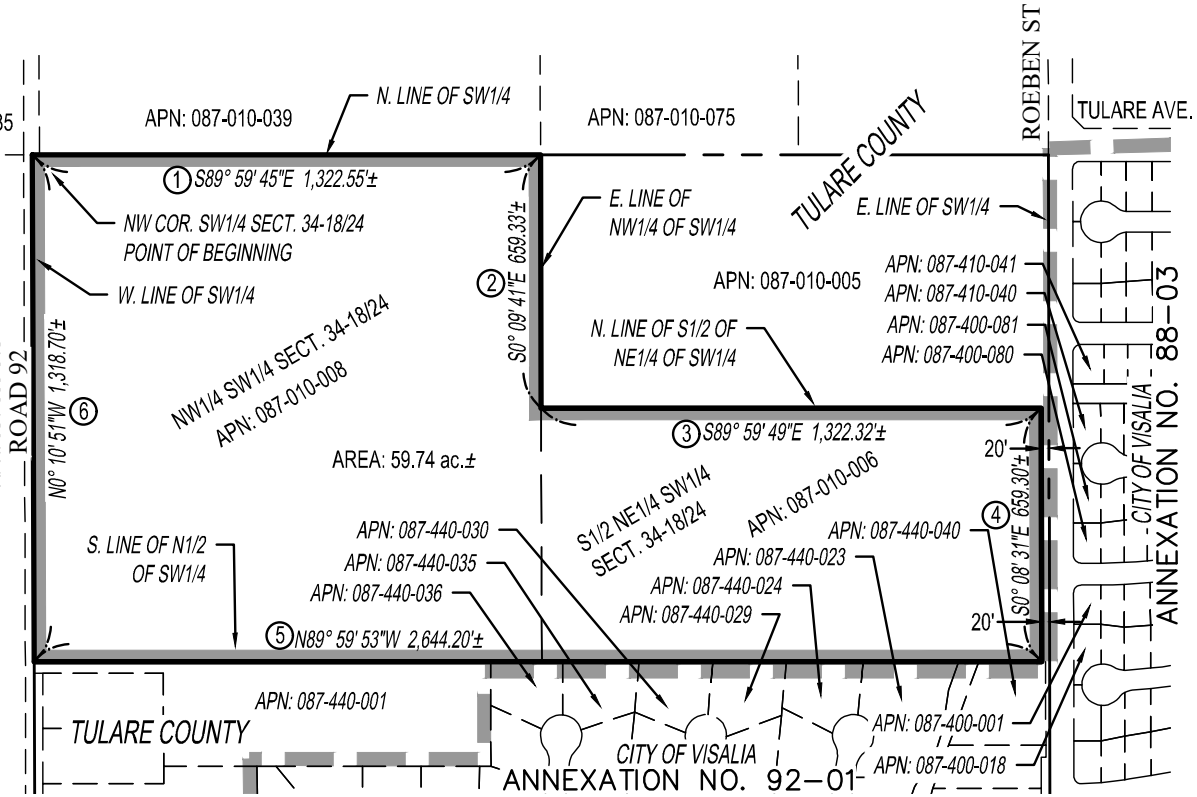
ANNEXATION BOUNDARY

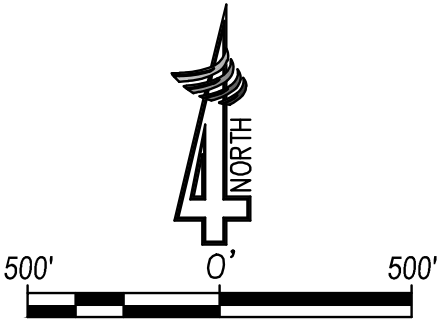
EXISTING CITY LIMITS

PROFESSIONAL LAND SURVEYOR
CLINTON J. CAUDLE
9849
STATE OF CALIFORNIA

VICINITY MAP
NO SCALE







4CREEKS
324 S. SANTA FE, STE. A
VISALIA, CA 93292
TEL: 559.802.3052
FAX: 559.802.3215
www.4-creeks.com

EXHIBIT B

CITY OF VISALIA

ANNEXATION NO. 2024-_____

That portion of the Northwest quarter of the Southwest quarter and that portion of the South Half of the Northeast quarter of the Southwest quarter of Section 34, Township 18 South, Range 24 East, Mount Diablo Base and Meridian, in the County of Tulare, State of California, being more particularly described as follows:

Beginning at the Northwest corner of the Southwest quarter of Section 34, Township 18 South, Range 24 East;

1. Thence South 89°59'45" East, along the North line of said Southwest quarter, 1322.55 feet more or less, to the Northeast corner of the Northwest quarter of said Southwest quarter;
2. Thence South 0°09'41" East, along the East line of the Northwest quarter of said Southwest quarter, 659.33 feet more or less, to the North line of the South half of the Northeast quarter of said Southwest quarter;
3. Thence South 89°59'49" East, along last said North line, 1322.32 feet more or less, to a line parallel with and 20 feet West of East line of said Southwest quarter, and existing City Limit line, being the West right-of-way line of Roeben Street;
4. Thence South 0°08'31" East, along said parallel line, and existing City Limit line, and said right-of-way line, 659.30 feet more or less, to the South line of the North half of said Southwest quarter;
5. Thence North 89°59'53" West, along said South line, and along the existing City Limit line and the Westerly prolongation thereof, 2644.20 feet more or less, to the Southwest corner of the Northwest quarter of said Southwest quarter;
6. Thence North 0°10'51" West, along the West line of said Southwest quarter, 1318.70 feet more or less, to the Northwest Corner of said Southwest quarter and the Point of Beginning;

Consisting of 59.74 acres more or less.

ONLY ONE SHEET

June 18, 2024

ELLIOT PROPERTY

PHASING EXHIBIT

PREPARED FOR: SAN JOAQUIN VALLEY HOMES
5607 AVENIDA DE LOS ROBLES
VISALIA, CA 93291

PREPARED BY: 4CREEKS, INC.
324 S. SANTA FE ST., STE. A
VISALIA ,CA 93292

ACREAGE

59.13 AC 225 UNITS

LEGEND

APN:	087-010-006, 087-010-008
ZONING:	AGRICULTURE
GENERAL PLAN:	LOW DENSITY RESIDENTIAL
FLOOD ZONE:	AE & X
ELECTRICITY:	SOUTHEN CALIFORNIA EDISON COMPANY
WATER:	CALWATER
TELEPHONE:	AT&T
NATURAL GAS:	SOUTHERN CALIFORNIA GAS COMPANY
EXISTING USE:	VACANT
PROP. USE:	LOW DENSITY RESIDENTIAL
PROP. MAINTENANCE:	CITY OF VISALIA
	LANDSCAPE SETBACK LOT
	MIN. 7' BLOCK WALL
	6' CHAIN LINK FENCE W/ PRIVACY SLATS
	PHASE LINE

TYPICAL LOT SIZES:
6480 SF MIN. LOTS± (60' X 108' TYP.) (225 UNITS)
*OUTLOTS A-E TO BE DEDICATED TO THE CITY OF VISALIA

UTILITIES:

SEWER:	SHIRK RD - EXIST. 6" ROEBEN ST - EXIST. 8"
STORM DRAIN:	TEMP. RETENTION BASIN TO MAINTAIN ALL ON-SITE DRAINAGE
OVERHEAD POWER:	ROEBEN ST (3 DISTRIBUTION, TO BE UNDERGROUNDED) SHIRK (5 TRANSMISSION, TO BE RELOCATED)

APN 087-010-039
NOT A PART

APN 087-010-075
NOT A PART

APN 087-010-038
NOT A PART

APN 087-010-005
NOT A PART

W TULARE AVE
SECTION LINE

S SHIRK RD
SECTION LINE

S ROEBEN ST
SECTION LINE

ZONE "X"
ZONE "AE"

ZONE "AE"
ZONE "X"

AVENUE 1
AVENUE 2
AVENUE 3
AVENUE 4
AVENUE 5
AVENUE 6
AVENUE 7
AVENUE 8
AVENUE 8

STREET 1
STREET 2
STREET 3
STREET 3
STREET 4
STREET 5
STREET 5
STREET 6
STREET 7
STREET 8
STREET 9

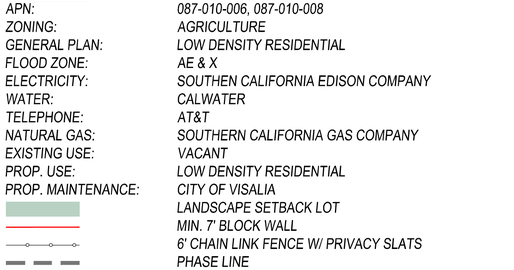
PHASE 2
142 UNITS

PHASE 1
83 UNITS

TEMP. POND TO BE CONSTRUCTED W/ PHASE 1

TEMP. POND
(ACCOUNTS FOR 80 AC OF SFR)
(FUTURE LOTS 37-43, 186-187)

$V_{REQ'D.}$	9.73 AC-FT
$V_{PROP.}$	11 AC-FT
DEPTH	10'
SLOPE	3:1



VICINITY MAP
SCALE: 1"=1500'

NORTH
100' 0' 100'

PREPARED BY:
4CREEKS
324 S. SANTA FE, STE. A
VISALIA, CA 93292
TEL: 559.802.3052
FAX: 559.802.3215
www.4-creeks.com

EXHIBIT C

June 18, 2024

ELLIOT PROPERTY

ATYPICAL LOT EXHIBIT

PREPARED FOR: SAN JOAQUIN VALLEY HOMES
5607 AVENIDA DE LOS ROBLES
VISALIA, CA 93291

PREPARED BY: 4CREEKS, INC.
324 S. SANTA FE ST., STE. A
VISALIA ,CA 93292

ACREAGE

59.13 AC 225 UNITS

LEGEND

APN:	087-010-006, 087-010-008
ZONING:	AGRICULTURE
GENERAL PLAN:	LOW DENSITY RESIDENTIAL
FLOOD ZONE:	AE & X
ELECTRICITY:	SOUTHEN CALIFORNIA EDISON COMPANY
WATER:	CALWATER
TELEPHONE:	AT&T
NATURAL GAS:	SOUTHERN CALIFORNIA GAS COMPANY
EXISTING USE:	VACANT
PROP. USE:	LOW DENSITY RESIDENTIAL
PROP. MAINTENANCE:	CITY OF VISALIA
	LANDSCAPE SETBACK LOT
	MIN. 7' BLOCK WALL
	6' CHAIN LINK FENCE W/ PRIVACY SLATS
	PHASE LINE

TYPICAL LOT SIZES:
6480 SF MIN. LOTS± (60' X 108' TYP.) (225 UNITS)
*OUTLOTS A-E TO BE DEDICATED TO THE CITY OF VISALIA

UTILITIES:

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OVERHEAD POWER:	ROEBEN ST (3 DISTRIBUTION, TO BE UNDERGROUNDED) SHIRK (5 TRANSMISSION, TO BE RELOCATED)

APN 087-010-039
NOT A PART

APN 087-010-075
NOT A PART

APN 087-010-038
NOT A PART

APN 087-010-005
NOT A PART

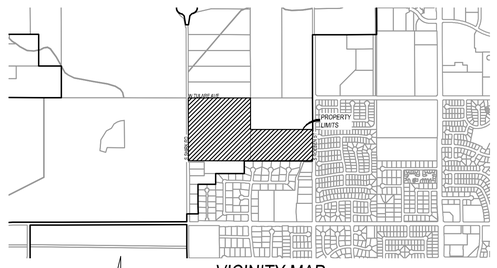
W TULARE AVE
SECTION LINE

S SHIRK RD
SECTION LINE

S ROEBEN ST
SECTION LINE

AVENUE 1
AVENUE 2
AVENUE 3
AVENUE 4
AVENUE 5
AVENUE 6
AVENUE 7
AVENUE 8
AVENUE 8

STREET 1
STREET 2
STREET 3
STREET 3
STREET 4
STREET 5
STREET 5
STREET 6
STREET 7
STREET 8
STREET 9



VICINITY MAP

SCALE: 1"=1500'

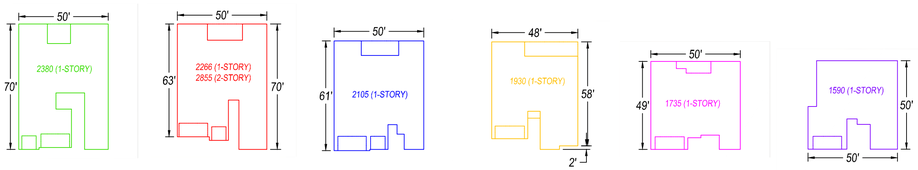
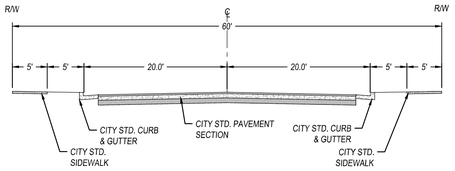


EXHIBIT D

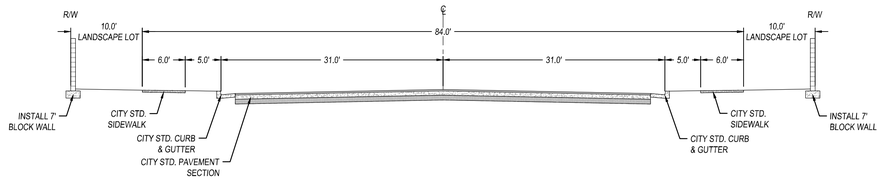
NORTH

100' 0' 100'

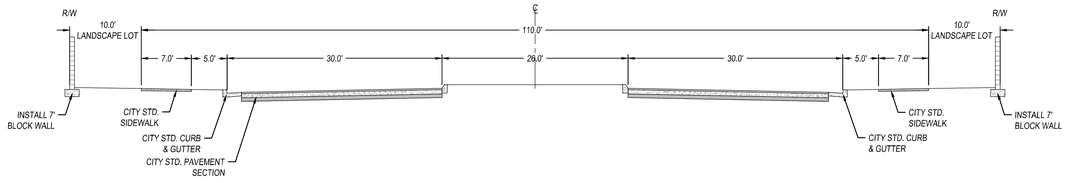
PREPARED BY:
4CREEKS
324 S. SANTA FE, STE. A
VISALIA, CA 93292
TEL: 559.802.3052
FAX: 559.802.3215
www.4-creeks.com



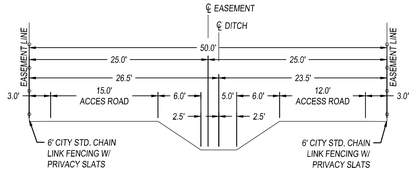
TYPICAL INTERNAL



TUARE AVE & ROEBEN ST



SHIRK RD



PERSIAN DITCH

EXHIBIT E

June 18, 2024

ELLIOT PROPERTY

CROSS SECTIONS

PREPARED FOR: SAN JOAQUIN VALLEY HOMES
5607 AVENIDA DE LOS ROBLES
VISALIA, CA 93291

PREPARED BY: 4CREEKS, INC.
324 S. SANTA FE ST., STE. A
VISALIA ,CA 93292

ACREAGE

59.13 AC 225 UNITS

LEGEND

APN:	087-010-006, 087-010-008
ZONING:	AGRICULTURE
GENERAL PLAN:	LOW DENSITY RESIDENTIAL
FLOOD ZONE:	AE & X
ELECTRICITY:	SOUTHEN CALIFORNIA EDISON COMPANY
WATER:	CALWATER
TELEPHONE:	AT&T
NATURAL GAS:	SOUTHERN CALIFORNIA GAS COMPANY
EXISTING USE:	VACANT
PROP. USE:	LOW DENSITY RESIDENTIAL
PROP. MAINTENANCE:	CITY OF VISALIA
	LANDSCAPE SETBACK LOT
	MIN. 7' BLOCK WALL
	6' CHAIN LINK FENCE W/ PRIVACY SLATS
	PHASE LINE

TYPICAL LOT SIZES:
6480 SF MIN. LOTS± (60' X 108' TYP.) (225 UNITS)
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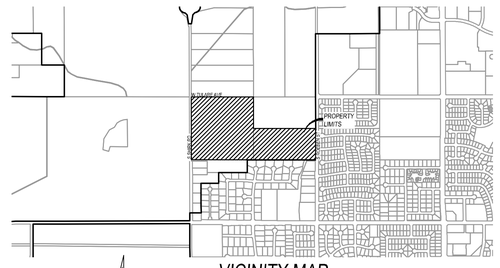
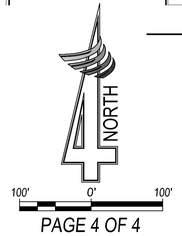


VICINITY MAP

SCALE: 1"=1500'



PREPARED BY:
4CREEKS
324 S. SANTA FE, STE. A
VISALIA, CA 93292
TEL: 559.802.3052
FAX: 559.802.3215
www.4-creeks.com

ELLIOTT PROPERTY

PROJECT DETAILS

LOCATION	CITY OF VISALIA
APN	087-010-006, 087-010-008
TOTAL AREA	59.13 AC
EXISTING ZONING	AGRICULTURE
PROPOSED ZONING	LOW DENSITY RESIDENTIAL
PROPOSED LAND USE	LOW DENSITY RESIDENTIAL
TYPICAL LOT SIZE	6,480 SF (60' X 108')
TOTAL LOTS	225
PHASING	
PHASE 1	83 UNITS
PHASE 2	142 UNITS

NOT A PART

NOT A PART

NOT A PART

W TULARE ROAD

S SHIRK ROAD

S ROEBEN STREET

FLOOD ZONE X

FLOOD ZONE AE

PHASE 2

PHASE 1

PARK
4.15 AC

PERSIAN DITCH

ACCESS ROAD

CHAIN LINK FENCING

EXHIBIT F

1''=100'

N

4CREEKS

EXHIBIT G

Elliott Subdivision

Project Narrative

APPLICANT/DEVELOPER:

San Joaquin Valley Homes
Contact Person: Nicolas Peters
5607 Avenida de los Robles
Visalia, California 93291
(559) 732-2660

PROJECT OBJECTIVE:

Elliott Subdivision proposes low-density single-family homes and a 4.15-acre park on 59.13 gross acres within the City of Visalia Planning Area.

DESCRIPTION:

Elliott Subdivision will feature 225 single-family residential units, with an average lot size of 8,082 SF. The lot sizes range from a minimum of 6,376 SF to a maximum of 12,774 SF.

- **Phase 1:** Includes Lots 1-83 with 1- and 2-story homes ranging from 1,735 to 2,855 SF.
- **Phase 2:** Includes Lots 84-225 with 1-story homes ranging from 1,735 to 2,105 SF, excluding Lots 90-100 and Lot 152, which will have 2-story homes ranging from 1,735 to 2,855 SF.

The project includes a 4.15-acre park (Outlot E) with the Persian Ditch fenced off within the park area. The park will be dedicated to the City of Visalia and maintained via a Landscape and Lighting District, with no proposed amenities at this time.

The project's existing land use designation under the City of Visalia General Plan is Residential Low Density. The current County of Tulare zoning designation is AE-20 (Exclusive Agriculture, 20-acre minimum site area), and the proposed zoning under city jurisdiction is R-1-5 (Single Family Residential, 5,000 square foot minimum site area).

INFRASTRUCTURE IMPROVEMENTS:

The project will include onsite and offsite infrastructure improvements, such as new and relocated utilities, new residential streets, and improvements to West Tulare Avenue, South Roeben Street, and South Shirk Road. A retention basin will be located in the southwest corner of the project site to manage all on-site drainage.

TYPICAL LOT SIZES:
6,480± SF minimum (60' X 108')

DENSITY:
3.8 DU/AC

OUTLOT SIZES:

Outlot A - 7,111 SF
Outlot B – 12,328 SF
Outlot C – 7,783 SF
Outlot D – 852 SF
Outlot E – 4.15 AC

Outlots A-E To Be Dedicated to The City of Visalia

REQUIRED APPROVALS:

- Annexation into the City of Visalia

EXHIBIT H

San Joaquin Valley HOMES

5607 Avenida de los Robles
Visalia, CA 93291
559.732.2660

July 26, 2024

Dear Neighbors,

I hope this letter finds you well. My name is Steven Macias, and I am the Engineering Manager for San Joaquin Valley Homes (SJVH). We are excited to be developing the Elliott Project, located adjacent to your properties, and we look forward to working together to address a matter that was discussed during a recent City of Visalia Planning Commission hearing that was held on Monday, July 22nd.

It has come to our attention that your block walls are set back five feet into your properties, a condition established as part of the approved map on April 26, 1993 (Conditional Use Permit No. 9310). Specifically, section 1b of the staff evaluation stated, "Additionally, there would be a 6-foot, 8-inch block wall along the north edge, set back five feet behind the property line to provide turning areas for farm equipment and a tree row inside the wall to buffer the residential use."

SJVH has a well-established reputation for constructing successful subdivisions in the City of Visalia. It is standard company practice to install a wood fence along our property line where it abuts an existing residential use. In this instance, installing a wood fence along our property line would result in an approximate 5-foot gap between the new wood fence and your existing block walls. To address this matter, we propose the following options for your consideration:

Option 1: Lot Line Adjustment - SJVH is prepared to facilitate a lot line adjustment to incorporate the land outside of your block wall into the lots within the Elliott Project. SJVH will pay all associated fees to prepare and record the lot line adjustments, estimated at $20,000.

Option 2: Shared Cost for New Block Wall - We propose to share the cost of constructing a new six-foot, eight-inch block wall along the existing property boundary. Homeowners would have the option to remove their section of the existing block wall, thereby incorporating the additional area into their yards. Based on current estimates, the cost of constructing a block wall is approximately $100 per linear foot. With each property having approximately 200 feet of frontage, the total cost per property would be approximately $20,000. SJV Homes will provide the Homeowners with two bids for the wall construction. SJVH will collect $10,000 from each property owner to pay for the construction of the wall. SJV Homes will allow Homeowners up to six months to pay the amount to SJVH.

Should neither of these options be acceptable, SJVH will proceed with installing a new wood fence at the property line. In this case, the Homeowners will be responsible for maintaining the area between the new wood fence and the existing block wall because of their ownership over the property.

We respectfully request unanimous consent among the six affected property owners for the chosen solution. Unanimous consent is necessary because we believe a coordinated approach will ensure the most aesthetically pleasing and practical outcome for all involved.

San Joaquin Valley HOMES

5607 Avenida de los Robles
Visalia, CA 93291
559.732.2660

Should the property owners reach a unanimous decision on one of the proposed options, we will request that all affected parties sign an agreement prepared by SJVH, prior to the next Planning Commission hearing.

Given our timeline, we kindly ask for your response by August 2, 2024. SJV Homes plans to present our project at the next Planning Commission hearing on August 12, 2024, and the City will prepare the staff report roughly two weeks in advance of the hearing. We are willing to meet with property owners on-site on Tuesday, July 30, 2024, at 2:00 pm, to discuss this matter further. If there is another time that works better for all neighbors, please let me know and we will do our best to accommodate a preferred time or to meet with neighbors individually.

We are committed to working together to find a resolution that benefits everyone and ensures the continued success and harmony of our community. Should you have any questions or wish to discuss these options further, please do not hesitate to contact me at (559)786-0936.

Thank you for your attention to this matter.

Sincerely,

Steven J. Macias
Engineering Manager
San Joaquin Valley Homes
C (559) 786-0936
smacias@sjvhomes.com

From: Steve Macias <smacias@sjvhomes.com>
Sent: Thursday, August 1, 2024 12:19 PM
To: Paul Bernal <Paul.Bernal@visalia.city>
Cc: Joe Leal <jleal@sjvhomes.com>; Jim Robinson <jrobinson@sjvhomes.com>
Subject: Elliott - On Site Meeting

EXHIBIT I

Paul,

I wanted to summarize the meeting that we had with the neighbors that would be affected by the 5-foot gap between the existing wall and our property boundary.

I hand delivered the attached letter on Friday 7/26/24, to each of the six homeowners.

On 7/30/24 at 2:00pm, we met on site with the neighbors. Jongsma was the only owner that was not in attendance.

I received mixed feedback from the property owners. Some had little issue with us constructing a wood fence along the rear property line, especially if there were no two-story homes that had windows facing their property. The majority of the group thought that SJVH should be responsible for the full cost of constructing a new block wall adjacent to the existing wall. As noted in our letter, we have proposed to share the cost to construct a block wall at our boundary in lieu of a wood fence, which is what we normally construct at our rear property line where our project abuts an existing residential zone. Based on recent costs we have seen at similar projects, below is an estimate to construct a wall:

Owner	Wall Length (LF)	Cost ($/LF)	Total Cost	Proposed Owner Share	SJVH Cost
Tenn	245	110	$26,950	$10,000	$16,950
Schouten	197	110	$21,670	$10,000	$11,670
Swanson	189	110	$20,790	$10,000	$10,790
Baldwin	189	110	$20,790	$10,000	$10,790
Jongsma	196	110	$21,560	$10,000	$11,560
Brown	185	110	$20,350	$10,000	$10,350

The total cost to construct a new wall is approximately $132,110. SJHV has proposed to pay $72,110 of the total cost with the existing owners providing the remaining $60,000.
The cost to install a wood fence along this boundary would be approximately $22,000.

I did not receive a unanimous direction from the owners regarding either of the options that we had presented, so I have encouraged the neighbors to provide any other suggestions to our team by email. We will consider any other reasonable suggestion that is not more costly. We have not received any correspondence since our meeting on Tuesday. We ask that City staff inform the PC that our project has met all required conditions, and we should not have costly conditions added by appointed Commissioners. Our neighbors know that they own additional land outside their walls and have been given the option to either be released of the liability by cooperating in a LLA at no cost to them, or by constructing a new wall at less than half of its cost. Should additional requirements above the cost we have already agreed to are conditioned by PC, SJV Homes is prepared to appeal to the Visalia City Council and make its case that these types of free improvements for extremely well-off neighbors are a big part of why affordable housing is disappearing in California.

If you have any questions or if there is anything I can provide that would assist with the staff report, please do not hesitate to contact me. Thanks.

Steven J. Macias

Engineering Manager

San Joaquin Valley Homes

C (559)786-0936

EXHIBIT J

California Planning and Engineering Corporation
2035 E. Noble Avenue Visalia, CA 93277 (209) 625-5334

TENTATIVE SUBDIVISION MAP
SAVANNAH HEIGHTS

BEING A DIVISION OF A PORTION OF PARCELS 1 & 2 OF PARCEL MAP No. 737, SITUATED IN THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 34, T.18 S., R.24 E., IN THE CITY OF VISALIA SEPT. 1991

Wm. Bogard COMPANY

A.P.N. 087-010-43, 45, & 47

Introduction:
Bufftech was one of a company recognized for quality and innovation in environment friendly PVC fencing products.

Bufftech's unique blend of raw materials is reflected in all fence products and its exclusive environment of manufacturing and 3-20 year non-prorated warranty.

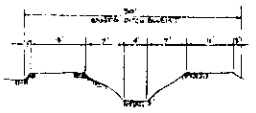
Bufftech is a major manufacturer of PVC products. Purchasing direct to store Bufftech means you receive substantial savings.

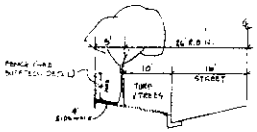
Bufftech is a valued member of the PVC Fence Council.

Features:
Bufftech's superior PVC fencing products are proven to be durable and its ally ultraviolet inhibitors will not chip, warp, crack, rot, rust or fade and other industry pollutants. The specially formulated PVC material is impact resistant which will withstand nature's harsh elements. The smooth surface prevents insects that can come from outdoors and chewing.

Bufftech fences are available in a variety of design applications. Any color will not affect, add to quality and durability. Our fences will also add value to your property.

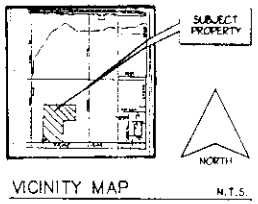
Bufftech
Quality PVC Fence Products





NOTES:

1. BLOCK WALL SET INSIDE PROPERTY LINE 5' TO GIVE FARMING OPERATION TURNING ROOM.
2. TREES PLANTED INSIDE BLOCK WALL TO ENSURED EASE OF MAINTENANCE. (IF TREES, IRRIGATION, WEEDS, ETC. ARE OUTSIDE WALL, THEN HOMEOWNERS WOULD HAVE NO ACCESS FOR MAINTENANCE.)



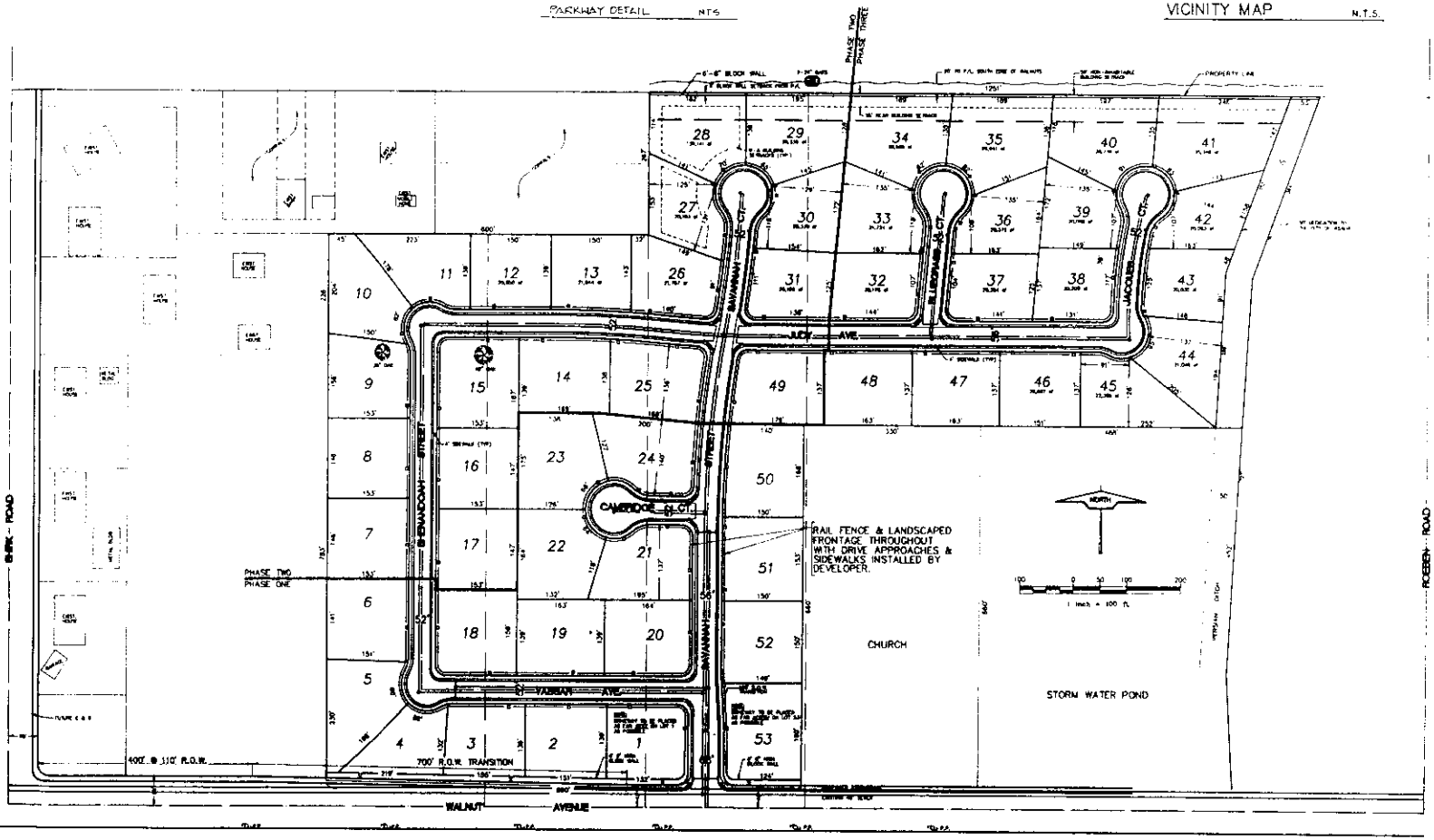
NOTE:

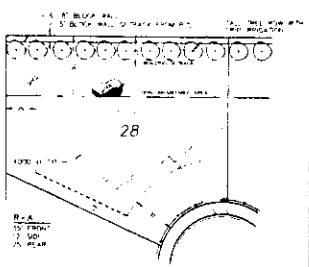
WE PROPOSED A MINIMUM REAR YARD (NC HABITABLE BUILDING) SETBACK OF 50 FEET ALONG THE PROPERTY LINE ADJACENT TO THE AGRICULTURAL LAND TO THE NORTH. THIS SETBACK ADDED TO THE DISTANCE BETWEEN OUR PROPERTY LINE AND THE ORCHARD LINE YIELDS A TOTAL SETBACK OF 50 FEET. WE WILL FILE A "RIGHT-TO-FARM" NOTICE WITH THE FINAL MAP. WE WILL ALSO ATTACH A "RIGHT-TO-FARM" NOTICE TO EACH DEED UPON SALE OF LOTS. WE FURTHER PROPOSE TO CONSTRUCT A 6'+ FOOT, EIGHT INCH FENCE ALONG OUR NORTH PROPERTY LINE

WE BELIEVE THAT THE ABOVE MITIGATION MEASURES AT [illegible] ADDRESS THE "OTHER BUFFER" PORTION OF THE E.I.R.

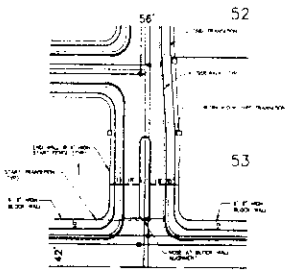
CONDITIONAL USE PERMIT
1. R-A BUILDING SETBACKS USED
2. 2 LOTS PER ACRE NET YIELD

TOTAL AREA: 35 ACRES ±





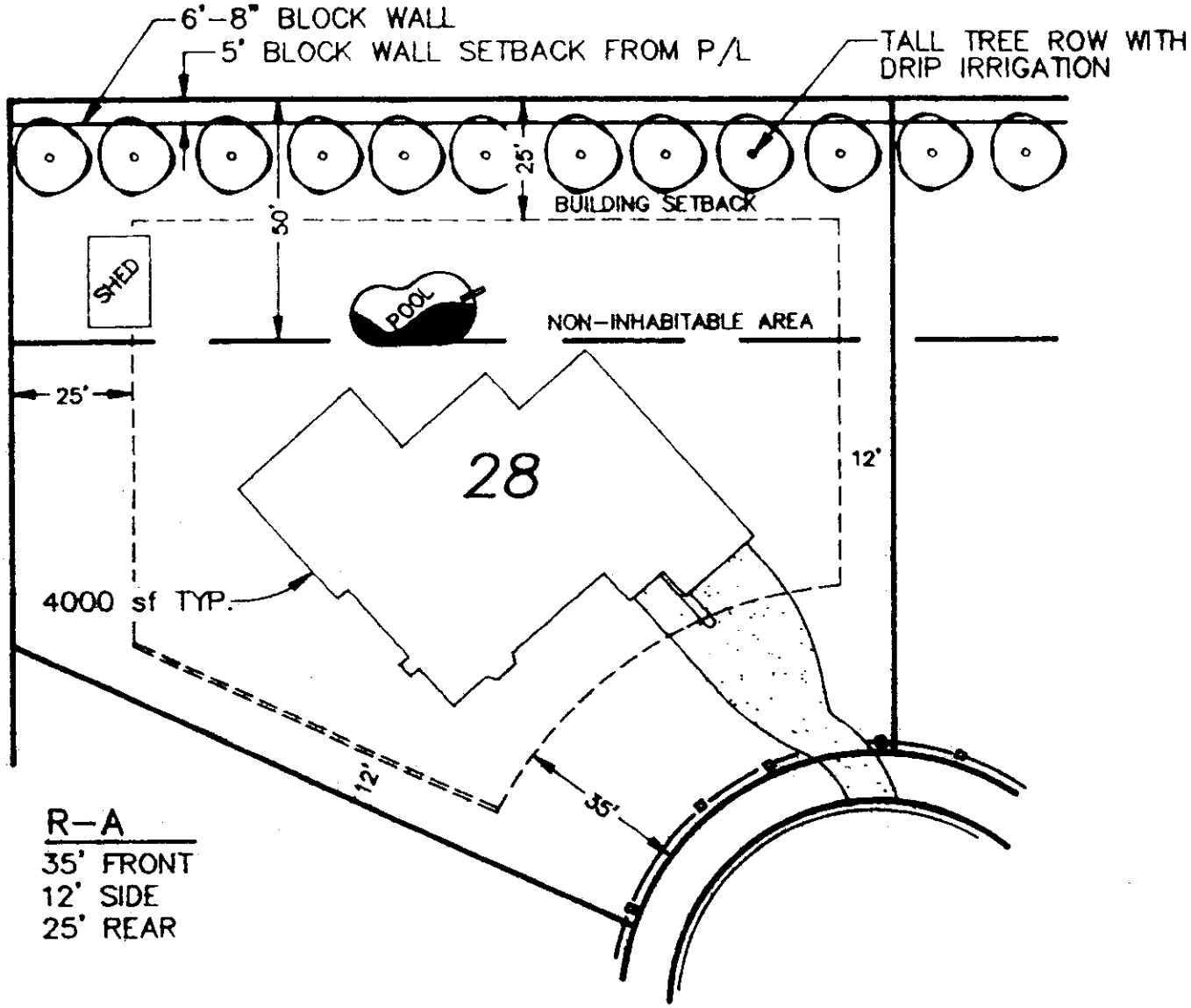
TYP. CULDESAC LOT DETAIL
N.T.S.



ENTRANCE DETAIL
N.T.S.

EXHIBIT "A"

ONE SHEET ONLY
03/12/93
J.N. 91-5



TYP. CULDESAC LOT DETAIL

N.T.S.

EXHIBIT "B"

EXHIBIT K

RESOLUTION NO. 93-34

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING SAVANNAH HEIGHTS TENTATIVE SUBDIVISION MAP FOR PROPERTY LOCATED ON THE NORTH SIDE OF WALNUT AVENUE, BETWEEN SHIRK AND ROEBEN STREETS, WILLIAM BOGARD CO., OWNER CALIFORNIA PLANNING AND ENGINEERING, AGENT

WHEREAS, a subdivision application was filed by William Bogard Co., owner, California Planning and Engineering, agent, for property located on the north side of Walnut Avenue, between Shirk and Roeben Streets, APN: 087-010-46, 47, and 63, City of Visalia; and

WHEREAS, the Planning Commission of the City of Visalia, after twenty-one (21) days published notice did hold a public hearing before said Commission on April 12, 1993; and

WHEREAS, the Planning Commission of the City of Visalia finds the subdivision in accordance with Section 9145 of the Ordinance Code of the City of Visalia based on the evidence contained in the staff report and testimony presented at the public hearing; and

WHEREAS, a Negative Declaration was prepared consistent with the California Environmental Quality Act and City of Visalia Environmental Guidelines.

NOW, THEREFORE, BE IT RESOLVED that the Planning Commission of the City of Visalia makes the following specific findings based on the evidence presented:

1. That the proposed project is consistent with the intent of the General Plan and Zoning Ordinance.

2. That the increase in density from 1 to 2 units per acre is consistent with Land Use Policy 4.1.17 for Rural Residential development.

3. That the project includes measures which would provide buffering between the proposed residential land use and adjacent agricultural areas.

4. That the proposed project would be compatible with adjacent land uses.

5. That the proposed project will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties in the vicinity.

6. That an Initial Study was prepared for this project, consistent with CEQA, which disclosed that environmental impacts are determined to be not significant, and Negative Declaration No. 93-18 is hereby adopted.

BE IT FURTHER RESOLVED the Planning Commission recommends approval of the subdivision on the real property hereinabove described in accordance with the terms of this resolution under the provisions of Section 9145 of the Ordinance Code of the City of Visalia and subject to the following conditions:

1. That the site be developed consistent with the comments and conditions of the Site Plan Review Committee, and the site plan shown in Exhibit "A."

2. That the minimum lot size on the final map shall be 20,000 square feet.

3. That on lots adjacent to the block wall along Walnut Avenue, setbacks shall be measured from the inside face of the block wall.

4. That the west edge of the driveway on Lot #1 be placed shall be placed 12 feet from the west property line. The north edge of the driveway on Lot #53 shall be placed 12 feet from the north property line.

5. Lots #1, 2, 3, and 4 shall dedicate access rights on Walnut Avenue to the City of Visalia. The final map shall include a notation indicating that these lots have dedicated said access rights.

6. That there be a 50-foot non-inhabitable area along the north edge of Lots 28, 29, 34, 35, 40, and 41, as indicated on the tentative map. This area shall be clearly indicated on the face of the final map.

7. That a 6-foot, 8-inch block wall and screening trees (15 gallon minimum) be installed along the north edge of the project, as indicated on the site plan.

8. That a right to farm notice be attached to the final map and to the deed for each individual lot.

9. That landscaping and irrigation plans be submitted for review and approval by Planning Division staff as part of the improvement plans.

10. That a 5-foot wide easement for pedestrian access and fence maintenance adjacent to the interior public streets be provided as part of the final map.

11. That a Landscaping and Lighting Act Maintenance District be formed for the maintenance of the Walnut Avenue block wall and landscaping, the entrance island, and the interior street landscaping and fencing.

12. That Conditional Use Permit No. 93-10 be approved.

13. That the 50-foot wide portion of the Persian Ditch, as indicated on the tentative map, be dedicated to city.

14. That a deed notice for each individual lot be provided which indicates the property's proximity to the airport and the possibility of overflights.

15. That all other city codes and ordinances be met.

Commissioner Hill offered the motion to this resolution, Commissioner Sanchez seconded the motion and it carried by the following vote:

Ayes: Commissioners Sanchez, Lane, Hill, and Landers
Noes: None
Abstained: None
Absent: Commissioner Nugent

PHYLLIS CORING, Secretary
Visalia City Planning Commission

ATTEST: Barbara Phillips, Clerk

I, Barbara Phillips, Clerk of the Visalia City Planning Commission, certify that the above is a true copy of a Resolution duly passed and adopted at a regular meeting of the Commission of April 12, 1993.

Mike Lane, Vice Chairperson

EXHIBIT L

CITY OF VISALIA

STAFF REPORT

TO: VISALIA PLANNING COMMISSION DATE: APRIL 12, 1993

FROM: PLANNING DIVISION PROJECT PLANNER: CARL SCHLAUDT

SUBJECT: SAVANNAH HEIGHTS TENTATIVE SUBDIVISION MAP and CONDITIONAL USE PERMIT NO. 93-10

GENERAL INFORMATION

1.	Applicant:	William Bogard Co.; California Planning and Engineering - Agent.
2.	Requested Action:	a) Tentative subdivision map to divide 4 parcels into 53 lots for single family residential development. b) Conditional use permit to allow 2 dwelling units per acre in the RA zone.
3.	Location:	North side of Walnut Avenue, between Shirk and Roeben Streets; APN: 087-010-46, 47, and 63.
4.	General Plan Land Use/Zoning:	The proposed site is designated as Rural Residential on the General Plan Land Use Element, and is zoned RA.
5.	Property Configuration & Area:	The subject area is irregular in shape with an approximate area of 35 acres.
6.	Surrounding Land Use & Zoning:	North: Agricultural; County AE-20, PDRA. South: Agricultural, Ponding Basin; RA and County AE-20. East : Rural Residential; RA. West : Rural Residential; RA.
7.	Environmental Review:	Negative Declaration No. 93-18.
8.	Special Districts:	West Visalia Specific Plan Area.
9.	Site Plan Review:	February 10, 1993.

BACKGROUND EVALUATION

1. Description of the Project:

The applicant is requesting approval of a tentative subdivision map to divide approximately 35 acres into 53 single-family residential lots, for property located north of Walnut Avenue between Roeben and Shirk Streets. The project includes a conditional use permit to allow 2 dwelling units per acre in the RA zone. As shown in the site plan (Exhibit "A"), the applicant is proposing a large lot subdivision with an average lot size of 1/2 acre. The project would be oriented around a new internal road system, including 4 cul-de-sacs, and would take primary access to Walnut Avenue via the proposed Savannah Street.

The subject site is currently vacant, fallow agricultural land. The site is bounded by rural residential homes to the west, agriculture and a storm water detention pond to the east, and a stone fruit orchard to the north. Persian Ditch runs along the east edge of the parcel. There are 2 large valley oak trees, which are indicated on the site plan within the area of Lots 9 and 15.

2. Related Plans & Policies:

General Plan Land Use Element

Land Use Element Policy 4.1.17 provides for Rural Residential densities of up to 2 units per acre with a conditional use permit, in certain areas, including the west side of Roeben, between Tulare and Walnut. The policy also states:

a. Developments will not be permitted to have farm animals.

b. Full development improvements shall be installed.

c. Development setbacks and buffering will ensure that there will be no conflicts with adjacent rural residential uses."

Land Use Element Policy No. 6.1.4 states: "Utilize Rural Residential land uses as a buffer and transition between agricultural uses and urban development."

Zoning Ordinance Section 7255 was amended in 1991 to provide for 2 dwelling units per acre in the RA zone through the conditional use permit process.

West Visalia Specific Plan

The project site has an Agricultural designation under the West Visalia Specific Plan. However, the Land Use Element update in 1991 changed the General Plan designation to Rural Residential.

STAFF EVALUATION

1. Evaluation

Staff supports the requested tentative subdivision map and conditional use permit based on consistency with the intent of the General Plan and the Zoning Ordinance, and based on project compatibility with adjacent land uses.

a. General Plan and Zoning Ordinance

The proposed parcels would be developed to RA standards, with lots ranging from approximately 20,000 to 35,000 square feet. The average lot size would be approximately 1/2 acre. Staff views the proposed subdivision as consistent with General Plan Land Use Element Policy 4.1.17 and the Zoning Ordinance for 1/2-acre lots in the RA zone.

b. Agricultural Buffer

To provide a buffer between this project and adjacent agricultural land uses to the north of the site, a 50-foot deep non-inhabitable rear setback area would be established along the north edge of lots adjacent to the agricultural use. This buffer, as shown in detail in Exhibit "B," would provide a distance separation of approximately 70 feet between the 2 land uses. Additionally, there would a 6-foot, 8-inch block wall along the north edge, setback 5 feet behind the property line (to provide turning areas for farm equipment), and a tree row inside the wall to buffer the residential use. Finally, a "right-to-farm" notice would be attached to the final map and with each individual property deed upon sale of lots. Staff supports these measures as consistent with the Land Use Element intent to buffer and separate these land uses.

Staff referred this request to the Tulare County Agricultural Commissioner for comment. Dennis Hanes, staff biologist, discussed the project with staff and stated that the County does not object to the project and supports the proposed buffering measures as discussed above. Staff recommends that these measures be included as conditions of approval for this project.

c. Density

As proposed, the lots along the north edge of the site would be larger. This is to provide a suitable building envelope to compensate for the non-habitable agricultural buffer. The average lot size for the entire project is 1/2-acre, or approximately 21,780 square feet. Staff recommends, as a condition of approval, that the minimum lot size on the final map be 20,000 square feet to comply with the intent of the 1/2-acre RA designation.

d. Access and Circulation

The Site Plan Review Committee is requiring that all lots adjacent to Walnut Avenue dedicate access rights onto Walnut to the City. The Committee is also requiring that Lot #53 have its driveway as far north as possible, and Lot #1 have its driveway as far west as possible to limit parking movements at the Vassar/Savannah intersection.

e. Block Wall and Fences

The project includes a 6-foot, 8-inch block wall along the Walnut frontage and along the north edge of the site. The wall along Walnut would be set in a 10-foot wide area which would be dedicated to the city in fee-simple title and placed in a Landscaping and Lighting Act District for maintenance. The wall along the north side of the site would be placed 5 feet inside of the north property line, and would be maintained by the individual homeowners.

The applicant proposes using a PVC split-rail type fence along the interior street frontages. This fence would be 4 feet in height and be placed in 5-foot wide easement at the edge of the lots, adjacent to the 4-foot wide sidewalks. Staff recommends that an easement for pedestrian access and maintenance purposes be established in this 5-foot wide area, as a part of the final map. The fence would be included in the Landscaping and Lighting Act District for maintenance.

f. Persian Ditch

The section of the Persian Ditch which is adjacent to the site is used for irrigation. The Site Plan Review Committee is not requiring riparian improvements for this section. However, the Committee is requiring a dedication of the 50-foot wide ditch area to the city for maintenance.

g. Environmental Review

An Initial Study was prepared for this project, consistent with the California Environmental Quality Act (CEQA). The Initial Study disclosed that environmental impacts are determined to be not significant. Therefore, staff recommends that Negative Declaration No. 93-18 be adopted for this project. The project area is undeveloped agricultural land with no evidence of perimeter disking. Therefore, staff has not included a recommendation for de minimus impact findings (which would find that the proposed project will not have any potential for adverse effect on wildlife resources, as defined in Section 711.2 of the Department of Fish and Game Code).

The San Joaquin Valley Unified Air Pollution Control District has supplied written comments on the Negative Declaration, which are attached as Exhibit "C." The District requested that construction dust mitigation measures be included in the final Negative Declaration. Staff recommends the addition of these measures, as requested by the District.

2. Summary

Staff views the Savannah Heights Tentative Subdivision Map, and conditional use permit to create 1/2-acre parcels, as consistent with the policies and intent of the General Plan and the Zoning Ordinance. The proposed subdivision, as conditioned, would be compatible with adjacent land uses. Staff recommends that the approval period for the conditional use period (normally 18 months, with provision for a 1 year time extension) run with the tentative map (2 years) and be eligible for 3 1-year time extensions.

STAFF RECOMMENDATION & FINDINGS:

Savannah Heights Tentative Subdivision Map

That the Planning Commission approve the Savannah Heights Tentative Subdivision Map based on the following findings:

1. That the proposed project is consistent with the intent of the General Plan and Zoning Ordinance.

2. That the increase in density from 1 to 2 units per acre is consistent with Land Use Policy 4.1.17 for Rural Residential development.

3. That the project includes measures which would provide buffering between the proposed residential land use and adjacent agricultural areas.

4. That the proposed project would be compatible with adjacent land uses.

5. That the proposed project will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties in the vicinity.

6. That an Initial Study was prepared for this project, consistent with CEQA, which disclosed that environmental impacts are determined to be not significant, and Negative Declaration No. 93-18 is hereby adopted.

And subject to the following conditions:

1. That the site be developed consistent with the comments and conditions of the Site Plan Review Committee, and the site plan shown in Exhibit "A."

2. That the minimum lot size on the final map shall be 20,000 square feet.

3. That on lots adjacent to the block wall along Walnut Avenue, setbacks shall be measured from the inside face of the block wall.

4. That the driveway on Lot #1 be placed as far west as possible. The driveway on Lot #53 shall be placed as far north as possible.

5. Lots #1, 2, 3, and 4 shall dedicate access rights on Walnut Avenue to the City of Visalia. The final map shall include a notation indicating that these lots have dedicated said access rights.

6. That there be a 50-foot non-inhabitable area along the north edge of Lots 28, 29, 34, 35, 40, and 41, as indicated on the tentative map. This area shall be clearly indicated on the face of the final map.

7. That a 6-foot, 8-inch block wall and screening trees (15 gallon minimum) be installed along the north edge of the project, as indicated on the site plan.

8. That a right to farm notice be attached to the final map and to the deed for each individual lot.

9. That landscaping and irrigation plans be submitted for review and approval by Planning Division staff as part of the improvement plans.

10. That a 5-foot wide easement for pedestrian access and fence maintenance adjacent to the interior public streets be provided as part of the final map.

11. That a Landscaping and Lighting Act Maintenance District be formed for the maintenance of the Walnut Avenue block wall and landscaping, the entrance island, and the interior street landscaping and fencing.

12. That Conditional Use Permit No. 93-10 be approved.

13. That the 50-foot wide portion of the Persian Ditch, as indicated on the tentative map, be dedicated to city.

14. That all other city codes and ordinances be met.

Conditional Use Permit No. 93-10

Staff further recommends that the Planning Commission approve the Conditional Use Permit No. 93-10:

1. That the proposed project is consistent with the General Plan and Zoning Ordinance.

2. That the increase in density from 1 to 2 units per acre is consistent with Land Use Policy 4.1.17 for Rural Residential development.

3. That the project includes measures which would provide buffering between the proposed residential land use and adjacent agricultural areas.

4. That the proposed project would be compatible with adjacent land uses.

5. That the proposed project will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties in the vicinity.

6. That an Initial Study was prepared for this project, consistent with CEQA, which disclosed that environmental impacts are determined to be not significant, and Negative Declaration No. 93-18 is hereby adopted.

And subject to the following conditions:

1. That all conditions of the Savannah Heights Tentative Subdivision Map shall apply.

2. That farm animals shall not be kept on any lot.

3. That the approval term of this use permit shall run with the tentative subdivision map and shall be eligible to apply for time extensions in 1 year increments, concurrently with the tentative map. Said extensions shall not exceed 3 years in the aggregate.

Attachments:

* Exhibit "A" - Site Plan
* Exhibit "B" - Buffering Measures (Site Plan Enlargement)
* Exhibit "C" - Air Pollution District Letter
* Environmental Document
* Location Sketch

c:\reports\savannah

California Planning and Engineering Corporation
2035 E. Noble Avenue Visalia, CA 93277 (209) 625-5334

TENTATIVE SUBDIVISION MAP
SAVANNAH HEIGHTS

BEING A DIVISION OF A PORTION OF PARCELS 1 & 2 OF PARCEL MAP No. 737, SITUATED IN THE SOUTH HALF OF THE SOUTHWEST QUARTER OF SECTION 34, T.18 S., R.24 E., IN THE CITY OF VISALIA SEPT. 1991

Wm. Bogard COMPANY

A.P.N. 087-010-43, 45, & 47

Introduction:

Bufftech was one of a company recognized for quality and innovation in environment friendly PVC fencing products.

Bufftech's unique patented resins are one fencing material is reflected in its diverse products and its exclusive environment of remanufacturing and a 20 year non-prorated warranty.

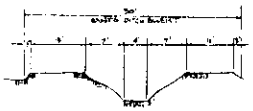
Bufftech is a major manufacturer of PVC products. Purchasing direct to store Bufftech means you receive substantial savings.

Bufftech is a valued member of the PVC Fence Council. Fence owners in these com-

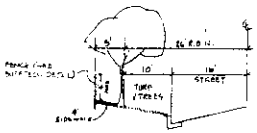
Features:

Bufftech's superior PVC fencing products are proven to be durable and its ugly oil paint will not chip, warp, crack, rot, rust or fade and other inferior, polluting. The specially formulated PVC material is impact resistant which will withstand ruthless, harsh elements. The smooth surface prevents injuries that can come from cutting and chewing. Bufftech fences are available in a variety of design applications. No one will put fences last for quality and durability but they will also add value to your property.

Bufftech
Quality PVC Fence Products



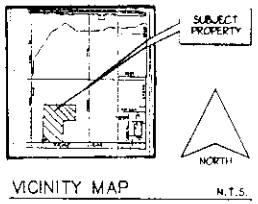
EXISTING DITCH N.T.S.



PARKWAY DETAIL N.T.S.

NOTES:

1. BLOCK WALL SET INSIDE PROPERTY LINE 5' TO GIVE FARMING OPERATION TURNING ROOM.
2. TREES PLANTED INSIDE BLOCK WALL TO ENSURED EASE OF MAINTENANCE. (IF TREES, IRRIGATION, WEEDS, ETC. ARE OUTSIDE WALL, THEN HOMEOWNERS WOULD HAVE NO ACCESS FOR MAINTENANCE.)



VICINITY MAP N.T.S.

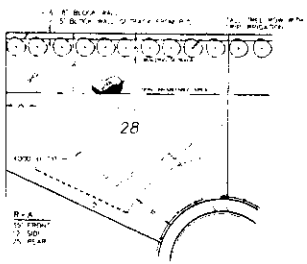
NOTE:

WE PROPOSED A MINIMUM REAR YARD (NC HABITABLE BUILDING) SETBACK OF 50 FEET ALONG THE PROPERTY LINE ADJACENT TO THE AGRICULTURAL LAND TO THE NORTH. THIS SETBACK ADDED TO THE DISTANCE BETWEEN OUR PROPERTY LINE AND THE ORCHARD LINE YIELDS A TOTAL SETBACK OF 50 FEET. WE WILL FILE A "RIGHT-TO-FARM" NOTICE WITH THE FINAL MAP. WE WILL ALSO ATTACH A "RIGHT-TO-FARM" NOTICE TO EACH DEED UPON SALE OF LOTS. WE FURTHER PROPOSE TO CONSTRUCT A 6'6" TOOT, EIGHT INCH FENCE ALONG OUR NORTH PROPERTY LINE

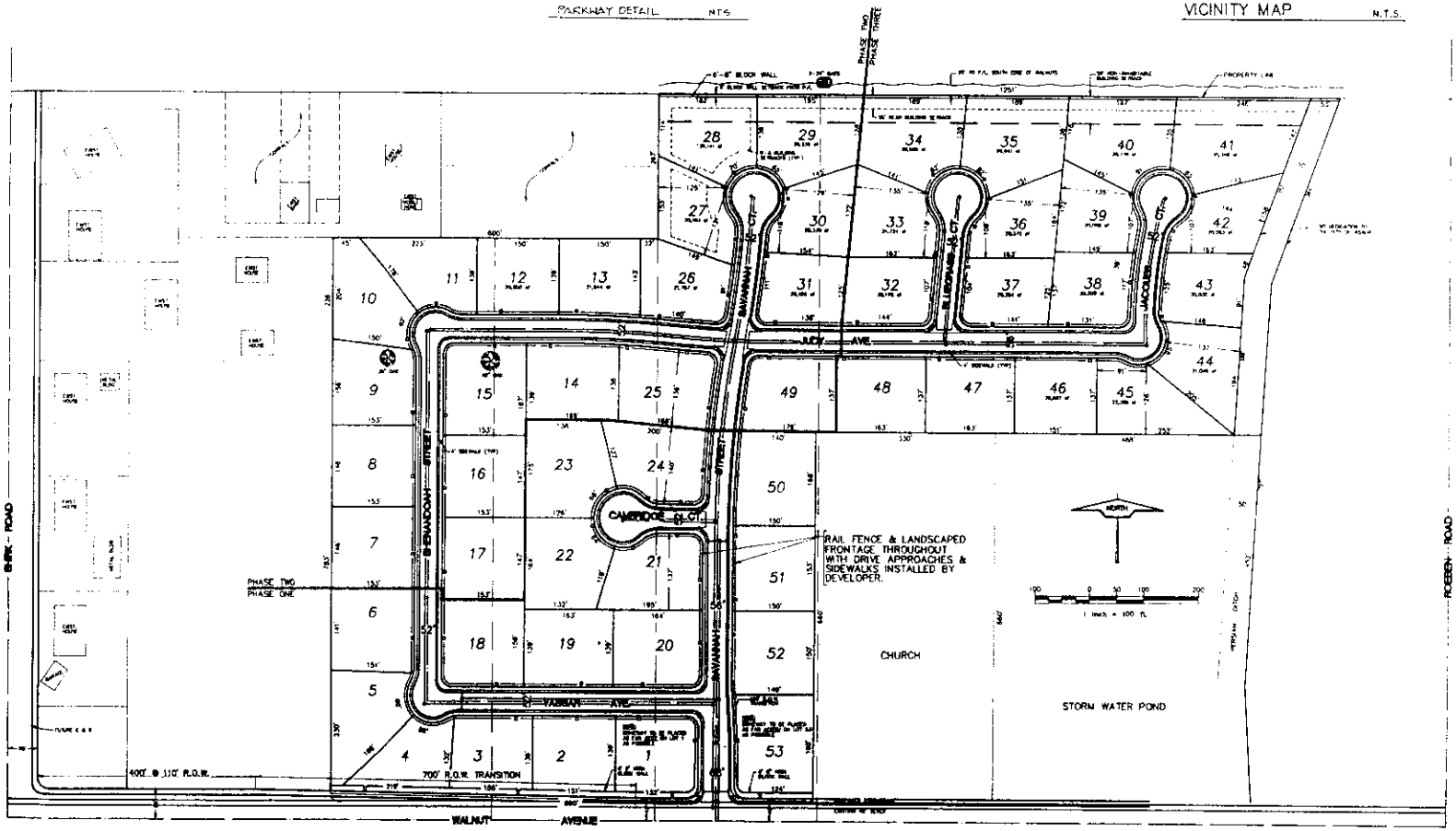
WE BELIEVE THAT THE ABOVE MITIGATION MEASURES AT [illegible] ADDRESS THE "OTHER BUFFER" PORTION OF THE E.I.R.

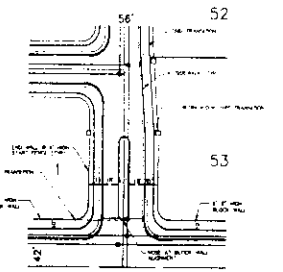
CONDITIONAL USE PERMIT
1. R-A BUILDING SETBACKS USED
2. 2 LOTS PER ACRE NET YIELD

TOTAL AREA 35 ACRES ±



TYP. CULDESAC LOT DETAIL
N.T.S.





ENTRANCE DETAIL
N.T.S.

ONE SHEET ONLY
03/12/93
J.N. 91515

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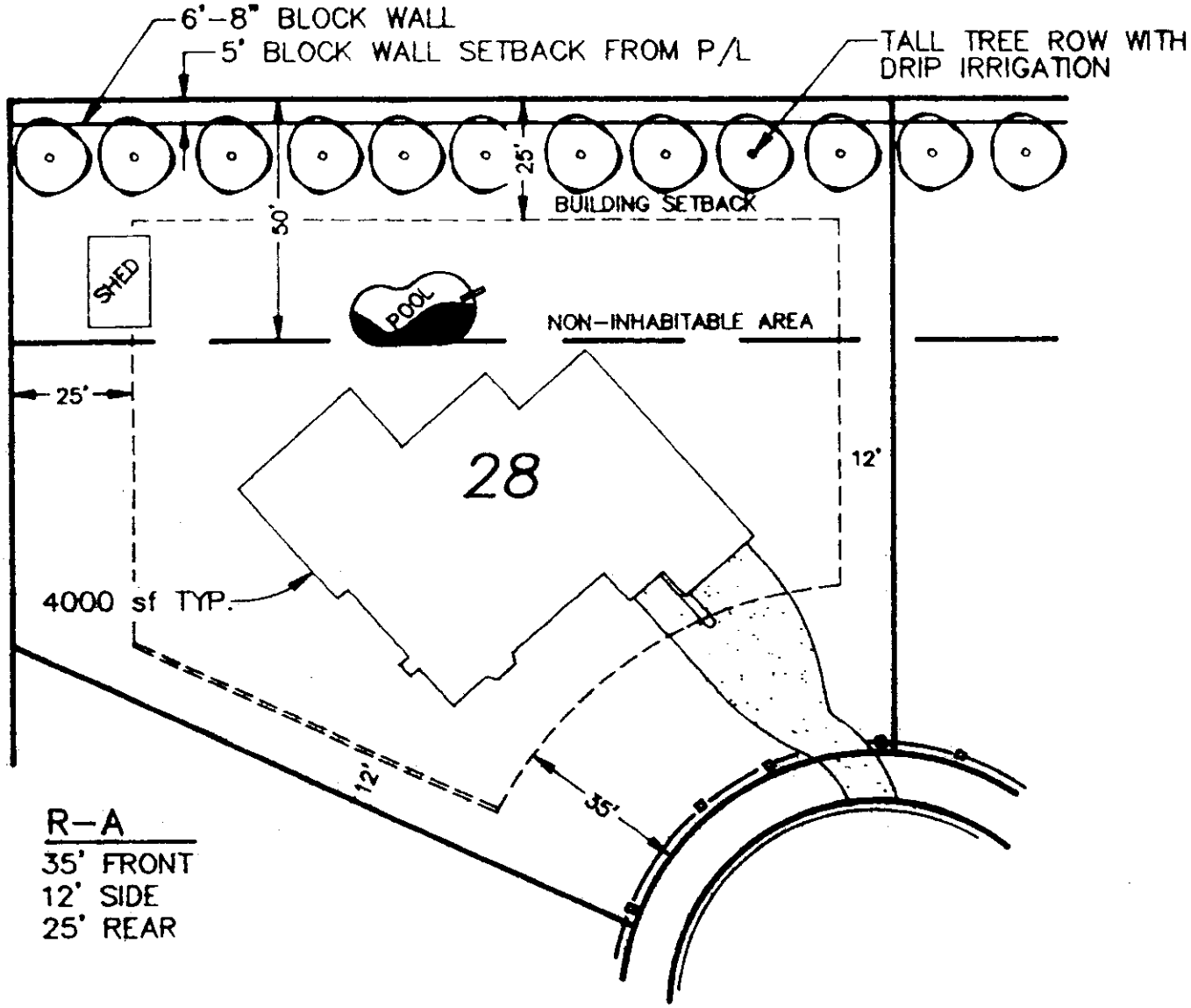
EXHIBIT "A"



TYP. CULDESAC LOT DETAIL

N.T.S.

EXHIBIT "B"

San Joaquin Valley
Unified Air Pollution Control District

March 31, 1993

Wayne Virag
Planning Department
CITY OF VISALIA
707 W. Acequia Street
Visalia, CA 93291

Negative Declaration:
Savannah Heights Tentative Subdivision/Conditional Use Permit No. 93-10

The San Joaquin Valley Unified Air Pollution Control District (District) has reviewed the documentation on your Negative Declaration and concludes that with good mitigation there would be minimal negative impact on the environment with regard to air quality. Therefore the District would support a mitigated Negative Declaration.

The District is concerned with the potential for dust emissions generated from this project during its construction phase. The District has therefore determined that the following dust mitigation measure is reasonable and implementable and should be attached to the Negative Declaration when filed.

1. The applicant shall employ all feasible dust mitigation practices during grading and construction as recommended and approved by the San Joaquin Valley Unified Air Pollution Control District. The two approved measures are as follows:

   - All material excavated or graded will be sufficiently watered to prevent excessive amount of dust. Watering will occur at least twice a day with complete coverage, preferably in the late morning and after work is done for the day.

   - All material transported off-site will be either sufficiently watered or securely covered to prevent excessive amounts of dust.

David L. Crow
Executive Director/Air Pollution Control Officer
[illegible] Inyo Street, Suite 200 • Fresno, CA 93721 • (209) 497-[illegible] • FAX (209) [illegible]

Northern Region
[illegible]

Central Region
1999 Inyo Street, Suite 200 • Fresno, CA [illegible]
(209) 497-1000 • Fax (209) 233-2057

Southern Region
[illegible] M Street, Suite 275 • Bakersfield, CA 93301
(805) 861-3682 • Fax (805) 861-2060

Printed on Recycled Paper

EXHIBIT "C"

The District appreciates the opportunity to comment on this Negative Declaration. If you have any questions, please do not hesitate to contact Joe O'Bannon at (805) 861-3682.

ROBERT C. DOWELL
DISTRICT MANAGER OF ENVIRONMENTAL PLANNING

By: Joe O'Bannon
Environmental Planner, Southern Region

APCD Ref#: S930071

Environmental Document #93-18
Cross Reference @:
City of Visalia Planning Dept.

CITY OF VISALIA
707 W. ACEQUIA STREET
VISALIA, CA 93291

NEGATIVE DECLARATION

Project Title: Savannah Heights Tentative Subdivision/Conditional Use Permit No. 93-10 (Wm. Bogard Company).

Address/Location: See Initial Study #93-18 (attached)

Contact Person: Wayne L. Virag Phone: (209) 738-3533

Project Description: See Initial Study #93-18 (attached), Section I.A.

Pursuant to Resolution No. 83-101, the environmental Coordinator of the City of Visalia has reviewed the proposed project described herein and has found that it will not result in any significant effect upon the environmental because of the reasons listed below:

Reasons for Negative Declaration:

Initial Study #93-18 (attached) has not identified any significant, adverse environmental impacts that may occur because of the project.

Copies of the plans and other documents relating to the subject project may be examined by interested parties at the office of the Environmental Coordinator, City Planning Department, in City Hall, at the above address. Comments regarding the proposed project must be made in writing and filed with the City Clerk, City of Visalia prior to April 2, 1993.

Date: March 10, 1993

Signed: Phyllis Corey
Environmental Coordinator
City of Visalia

Environmental Document #93-18
Cross Reference @:
City of Visalia Planning Dept.
Savannah Heights Tentative Subdivision and Conditional Use Permit No. 93-10.
Date: March 10, 1993.

ENVIRONMENTAL DOCUMENT
INITIAL STUDY

I. GENERAL

A. Description of the Project

The applicant is requesting approval of the division of approximately 35 acres into 53 single-family residential parcels, for property located north of Walnut Avenue between Roeben and Shirk Streets. The project includes a conditional use permit to provide for half-acre lot development in the RA zone, as provide for in the Land Use Element. Primary access to the site would be from Walnut Avenue, an identified arterial.

B. Identification of the Environmental Setting

The subject site is currently vacant. The site is bounded by rural residential homes to the west, agriculture and a storm water detention pond to the east, and a stone fruit orchard to the north. Two large oak trees exist within the project boundaries.

The surrounding zoning and land uses are as follows:

North:	County; stone fruit orchard
South:	County; agriculture
East :	R-1-6; row crops and residences
West :	County; agriculture and residences

C. Related Plans and Policies

General Plan Land Use Element

The Visalia General Plan designates the site for rural residential development.

Policy No. 4.1.17. "Rural Residential areas shall be designated to provide opportunities for residential dwellings in conjunction with small-scale farming and animal husbandry or in a semi-rural setting. Rural Residential development (6 persons per acre - up to 2 dwelling units per acre) shall be directed to areas where:

1. all urban services (i.e., storm drainage, schools, sidewalks, lighting) may not be required or available;

2. adjacent to agricultural areas where more intensive future urban development is unlikely because of public safety conflicts such as the airport protection area;

3. boundaries between dissimilar land uses (i.e., industrial to residential in the northwest and agriculture to residential in the southwest);

4. in areas where the viability of large-scale agriculture may be threatened due to the encroachment of non-agricultural uses, and which do not warrant designation to a higher density.

Densities of up to 2 units per acre may be permitted by conditional use permit...on the west side of Roeben Road between Tulare and Walnut, subject to the following conditions:

a. Developments will not be permitted to have farm animals.

b. Full development improvements shall be installed.

c. Development setbacks and buffering will ensure that there will be no conflicts with adjacent rural residential uses."

Policy No. 4.1.7. "Ensure that natural and open space features such as Valley Oak trees and community waterways are treated as special site amenities which are to be preserved and enhanced in conformity with the Open Space, Conservation, Recreation, and Parks Element."

Policy No. 6.1.4. "Utilize Rural Residential land uses as a buffer and transition between agricultural uses and urban development."

Policy No. 6.1.6. "Promote the preservation of permanent agricultural open space around the City by protecting viable agricultural operations and land in the airport and wastewater treatment plant environs."

Conservation, Open Space, Recreation, and Parks Element

The Conservation, Open Space, Recreation, and Parks Element to the General Plan (COSRP) identifies the Persian Ditch, which abuts the subject property on the east, as a Community Waterway. As such, the development will be subject to the following COSRP policies:

Policy No. 1.2.1. "Protect, and where necessary, restore and enhance a continuous corridor of native riparian vegetation along planning area waterways."

Policy No. 1.2.4. "Residential or commercial development shall not be allowed within development setbacks (defined in standards below) along waterway corridors. Maintenance and emergency access roads, trails, and bike paths are permitted within waterway corridor development setbacks.

Standards: Where no urban development exists, maintain a 25 to 50-foot riparian habitat development setback (from discernible top of bank) for both sides of Modoc, Evans, and Persian Ditches through land dedication or easements."

Oak Tree Ordinance

The Visalia Oak Tree Ordinance was established to aid in the preservation and maintenance of oak trees located in the community.

II. ENVIRONMENTAL IMPACTS

The subject site is designated for rural residential development which provides for up to 2 dwelling units per acre, subject to a conditional use permit. A 50-foot dedication to the City of Visalia along the Persian Ditch will be required to establish a riparian habitat development setback. Additionally, a 50-foot non-buildable easement will be required along those lots proposed which abut agricultural uses. As a result, no significant environmental impacts will be realized as a result of this project.

III. PROJECT EVALUATION

Land Use

The project will utilize two dwelling units per acre as provided through the conditional use permit process, as provided in the aforementioned policies. Rural Residential (RA) is intended to function as a buffer between the existing agricultural operations and the proposed RA development. Additionally, as a buffer between the development and the project itself, a 50-foot non-buildable easement will be required along those lots proposed to abut the agriculture. The project is consistent with the Land Use Element of the General Plan.

A 50-foot dedication to the City of Visalia along the Persian Ditch will be required as a riparian habitat development setback, as required through the COSRP Element.

Oak Trees

The Visalia Oak Tree Ordinance requires that all Oak trees greater than two inches in trunk diameter, measured four and one half feet above the ground, be preserved and protected. No construction is allowed within the drip line of each tree as a minimum rule. The two on-site oak trees will be preserved consistent with the provisions of the Ordinance.

IV. PROJECT COMPATIBILITY WITH EXISTING ZONES AND PLANS

The project is consistent with the intent of the Land Use Element of the Visalia General Plan which designates the site for residential development. Additionally, the required buffering between agricultural and non-agricultural land uses should provide for compatibility between uses while providing an gradual overall buffer to the surrounding area.

The project is consistent with the intent of the Visalia Oak Tree Ordinance, as conditioned.

V. NAME OF PERSON WHO PREPARED INITIAL STUDY

Wayne L. Virag
Associate Planner

Phyllis Coring
Environmental Coordinator

ENVIRONMENTAL CHECKLIST

A. BACKGROUND

Name of Proponent: William Bogard Company

Address of Proponent: 1500 S. Mooney Blvd.
Visalia, CA 93277

Telephone Number: (209) 734-6262

Date of Review: March 10, 1993

Agency Requiring Checklist: City of Visalia

Name of Proposal, (if applicable) Savannah Heights Tentative Subdivision/Conditional Use Permit No. 93-10

B. ENVIRONMENTAL IMPACTS

(Explanations of all "YES" answers are required on attached sheets)

	NO	YES			
		NOT SIGNIFICANT	SIGNIFICANT UNLESS MITIGATED	SIGNIFICANT NO APPARENT MITIGATION	CUMULATIVE
1. Earth. Will the proposal result in:					
a. Unstable earth conditions or in changes in geologic structures?	X				
b. Disruptions, displacements, compaction or overcovering of the soil?		X			
c. Change in topography or ground surface relief features?		X			
d. The destruction, covering or modification of any unique geologic or physical feature .	X				
e. Any increase in wind or water erosion of soil, either on or off the site?	X				
f. Changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a river or stream or the bed of the ocean or any bay, inlet or lake?	X				
g. Exposure of people or property to geologic hazards such as earthquakes, landslides, mud slides, ground failure, or similar hazards?	X				
2. Air Will the proposal result in:					
a. Substantial air emissions or deterioration of ambient air quality?	X				
b. The creation of objectionable odors?	X				
c. Alteration of air movement, moisture, or temperature, or any change in climate, either locally or regionally?	X				

	NO	YES			
		NOT SIGNIFICANT	SIGNIFICANT UNLESS MITIGATED	SIGNIFICANT NO APPARENT MITIGATION	CUMULATIVE
3. Water Will the proposal result in:					
a. Changes in currents, or the course of direction of water movements, in either marine or fresh water?	X				
b. Changes in absorption rates, drainage patterns, or the rate and amount of surface runoff?		X			
c. Alterations to the course or flow of flood waters?	X				
d. Changes in the amount of surface water in any water body?	X				
e. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved oxygen or turbidity?	X				
f. Alteration of the direction or rate of flow of ground waters?	X				
g. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?	X				
h. Substantial reduction in the amount of water otherwise available for public water supplies?	X				
i. Exposure of people or property to water related hazards such as flooding or tidal waves?	X				
4. Plant Life Will the proposal result in:					
a. Change in the diversity of species, or number of any species or plants (including trees, shrubs, grass, crops, and aquatic plants)?	X				
b. Reduction in the numbers of any unique, rare, or endangered species of plants?	X				
c. Introduction of new species or plants into an area, or in a barrier to the normal replenishment of existing species?	X				
d. Reduction in acreage of any agricultural crop?		X			

	NO	YES			
		NOT SIGNIFICANT	SIGNIFICANT UNLESS MITIGATED	SIGNIFICANT NO APPARENT MITIGATION	CUMULATIVE
5. Animal Life Will the proposal result in:					
a. Change in the diversity of species, or numbers of any species or animals (birds, land animals including reptiles, fish and shellfish, benthic organisms or insects)?	X				
b. Reduction of the numbers of any unique,rare or endangered species of animals?	X				
c. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?	X				
d. Deterioration to existing fish or wildlife habitat?		X			
6. Noise. Will the proposal result in:					
a. Increases in existing noise levels?		X			
b. Exposure of people to severe noise levels?	X				
7. Light & Glare. Will the proposal produce new light or glare?		X			
8. Land Use: Will the proposal result in a substantial alteration of the present or planned land use of an area?	X				
9. Natural Resources. Will the proposal result in:					
a. Increases in the rate of use of any natural resources?		X			
b. Substantial depletion of any non-renewable natural resource?	X				
10. Risk of Upset. Will the proposal involve:					
a. A risk of an explosion or the release of hazardous substances (including, but not limited to, oil, pesticides, chemicals, or radiation) in the event of an accident or upset conditions?	X				
b. Possible interference with an emergency response plan or an emergency evacuation plan?	X				

	NO	YES: NOT SIGNIFICANT	YES: SIGNIFICANT UNLESS MITIGATED	YES: SIGNIFICANT NO APPARENT MITIGATION	YES: CUMULATIVE
11. Population. Will the proposal alter the location, distribution, density, or growth rate of the human population of an area?		X			
12. Housing. Will the proposal affect existing housing, or create a demand for additional housing?		X			
13. Transportation/Circulation. Will the proposal result in:					
a. Generation of substantial additional vehicular movement?		X			
b. Effects on existing parking facilities, or demand for new parking?	X				
c. Substantial impact upon existing transportation systems?	X				
d. Alterations to present patterns of circulation or movement of people and/or goods?	X				
e. Alteration to water-borne, rail or air traffic?	X				
f. Increase in traffic hazards to motor vehicles, bicyclists or pedestrians?	X				
14. Public Services. Will the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas:					
a. Fire protection?		X			
b. Police protection?		X			
c. Schools?		X			
d. Parks or other recreational facilities?		X			
e. Maintenance of public facilities, including roads?		X			
f. Other governmental services?		X			
15. Energy. Will the proposal result in:					
a. Use of substantial amounts of fuel or energy?	X				
b. Substantial increase in demand upon existing sources of energy, or require the development of new sources of energy?	X				

	NO	YES			
		NOT SIGNIFICANT	SIGNIFICANT UNLESS MITIGATED	SIGNIFICANT NO APPARENT MITIGATION	CUMULATIVE
16. Utilities. Will the proposal result in a need for new systems, or substantial alterations to the following utilities:					
a. Power or natural gas?		X			
b. Communications systems?		X			
c. Water?		X			
d. Sewer or septic tanks?		X			
e. Storm water drainage?		X			
f. Solid waste and disposal?		X			
17. Human Health. Will the proposal result in:					
a. Creation of any health hazard or potential health hazard (excluding mental health)?	X				
b. Exposure of people to potential health hazards?	X				
18. Aesthetics. Will the proposal result in the obstruction of any scenic vista or view open to the public, or will the proposal result in the creation of an aesthetically offensive site open to public view?	X				
19. Recreation. Will the proposal result in an impact upon the quality or quantity of existing recreational opportunities?	X				
20. Cultural Resources.					
a. Will the proposal result in the alteration of or the destruction of a prehistoric or historic archaeological site?	X				
b. Will the proposal result in adverse physical or aesthetic effects to a pre-historic or historic building, structure or object?	X				
c. Does the proposal have the potential to cause a physical change which would affect unique ethnic cultural values?	X				
d. Will the proposal restrict existing religious or sacred uses within the potential impact area?	X				

	NO	YES			
		NOT SIGNIFICANT	SIGNIFICANT UNLESS MITIGATED	SIGNIFICANT NO APPARENT MITIGATION	CUMULATIVE
21. Mandatory Findings of Significance.					
a. Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	X				
b. Does the project have the potential to achieve short-term, to the disadvantage of long-term, environmental goals? (A short-term impact on the environment is one which occurs in a relatively brief, definite period of time while long-term impacts will endure well into the future).	X				
c. Does the project have impacts which are individually limited, but cumulatively considerable? (A project may impact on two or more separate resources where the impact on each resource is relatively small, but where the effect of the total of those impacts on the environment is significant.)	X				
e. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	X				

C. DISCUSSION OF ENVIRONMENTAL EVALUATION ATTACHMENT "A"

D. DETERMINATION

(To be completed by the Lead Agency)
On the basis of this initial evaluation:

I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared. X

I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the project. A NEGATIVE DECLARATION WILL BE PREPARED.

I find the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

I find that as a result of the proposed project no new effects could occur, or new mitigation measures would be required that have not been addressed within the scope of the Program Environmental Impact Report (SCH No. 90020160). The Environmental Impact Report prepared for the City of Visalia Land Use Element (Amendment No. 90-04) was certified by Resolution No. 91-105 adopted on September 3, 1991. THE PROGRAM ENVIRONMENTAL IMPACT REPORT WILL BE UTILIZED.

SIGNATURE

3/10/93
DATE

CITY OF VISALIA

AMD\E:\LOTDATA\PLANNING\CL-MASTER.WK1

ATTACHMENT "A"

Environmental Document #93-18
Savannah Heights Tentative Subdivision Map
and Conditional Use Permit No. 93-10

1. Earth

b. Disruption, compaction or overcovering of the soil?

Exhibit "B", illustrates the topographic conditions of the subject site and surrounding area. Project development will require some movement of earth resulting in disruption and compaction of soils. Existing topography may also be altered to accommodate development; however, this is determined not to be significant. Compliance with city codes and ordinances will reduce impacts to an acceptable level.

2. Air

b. Substantial air emissions or deterioration of ambient air quality?

The proposal will facilitate only rural residential development as designated by the Visalia General Plan. During the construction phase of the project, grading activities may result in suspended dust particles, particularly under windy conditions. This short-term potential impact can be mitigated with on-site dust suppression measures, as recommended by the San Joaquin Valley Air Pollution Control District (SJVAPCD).

The installation of fireplaces and barbecues is common for new residential development. These facilities may be deleterious to the air quality. The SJVAPCD recommends as mitigation measures, that EPA-certified, low-emitting fireplace inserts and/or wood stoves or natural gas fireplaces be utilized. It is further recommended that natural gas or electrical outlets to backyard areas of residences be provided to encourage the use of natural gas or electric barbecues.

Residential development is also considered an indirect source of automobile emissions. However, the number of additional vehicular trips generated by the project is not expected to significantly increase the current level of emissions on a local or regional basis.

Attached Exhibit "C" is an air quality analysis summary projection. This projection was developed through the use of AQUAT-3 (URBEMIS3) computer modeling for air quality which is a recognized tool of the California Air Resources Board. This projection was based upon development of 53 single-family residences. Although the URBEMIS3 identified impact of the project's emissions is not expected to be significant when compared with the current total emissions in Visalia and the San Joaquin Valley, the potential long-term

cumulative impact of this project and other growth-related projects is a further deterioration of local and regional air quality. In order to address the problem of deteriorating air quality, the California Air Resources Board has established ambient air quality standards which regional air pollution control districts are expected to attain with transportation control measures, such as ride-sharing and circulation improvements.

3. Water

b. Changes in absorption rates, drainage patterns or the rate and amount of surface runoff?

Rural residential development will increase the rate and amount of run-off. Project design includes a temporary storm water detention pond for peak storm periods and a permanent storm drainage retention pond. Compliance with city development standards will reduce impacts to an acceptable level.

4. Plant Life

d. Reduction in acreage of any agricultural crop?

The site contains 35 acres of agricultural land. The loss of acreage has been determined to be insignificant as the project is a portion of a phased development and is designated for rural residential development and lies within the urban development boundary established in the Land Use Element of the General Plan.

5. Animal Life

d. Deterioration to existing fish or wildlife habitat?

The Persian Ditch, which is an identified Community Waterway, abuts the subject property along the eastern property line. A 50-foot dedication to the City of Visalia along the Persian Ditch is a required mitigation measure for projects impacting Community Waterways. This area is to be utilized as a riparian development setback. Potential impacts are anticipated to be reduced to a level of being not significant.

6. Noise

a. Increases in existing noise levels?

Construction activities associated with residential development generally cause temporary increases in the ambient noise level which could periodically be severe if not properly mitigated. Because construction activities will be short-term and intermittent and are generated on weekdays between 7:00 a.m. and 7:00 p.m., the impacts are normally considered acceptable.

b. Exposure of people to severe noise levels?

Although the project site is located within close proximity to the Visalia Municipal Airport area of influence, the site is not within the area of adopted Community Noise Equivalent Level (CNEL) maximum for residential development.

7. Light and Glare

New residential development will increase the amount of light and glare. This symptom is mitigated at the project level by requiring shielding and directional lighting so as not to create a nuisance off-site.

8. Land Use

The proposal is to create 53 lots for rural residential development. The site is designated for rural residential development. These new lots will meet city development standards, as conditioned.

9. Natural Resources

No natural resources have been recorded or identified as existing on the project site. It is not anticipated that this project will result in a substantial use of renewable or non-renewable resources.

10. Risk of Upset

The proposal will not produce a risk of explosion or hazardous material contamination, nor will it pose any interference with local emergency response operations. The site is located in Seismic Zone 3 as identified by the 1991 Uniform Building Code.

11. Population

The development of 53 new residential lots will encourage a localized population increase, which may be locally significant. The subject property is designated for rural residential development by the Visalia General Plan. The resulting increase is determined not to be significant.

12. Housing

This proposal will create additional housing for the area but will not significantly alter the existing housing stock or character of the area.

13. Transportation/Circulation

The development will not significantly impact the existing circulation system, as conditioned.

14. Public Services

c. Will the project have an effect upon, or result in a need for new or altered governmental services?

Residential development of the site will increase the demand on schools and parks, fire and police protection services, and maintenance of roads, etc. The project area is designated for urban growth by the Visalia General Plan. The City has the ability to provide the current level of service. The environmental impacts associated with the increased demand to the school system will be mitigated through the collection of school impact fees, as provided by the final

EIR for the Land Use Element of the General Plan. The Visalia Unified School District has gained approval of the Linwood School expansion and is preparing plans for the construction of a new high school which would service the area. School project funding is directly attributable, in part, to the collection of school impact fees which are required at the time of building permits for new residential development.

15. Energy

The project site is designated for residential development. Application of the Uniform Building Code will ensure energy efficiency standards are met. There will be no significant impacts.

16. Utilities

Additional utilities and the extension of service lines will be required. This will be provided by the developer or the utility company. The subject property lies within the designated urban improvement area of the City for which services are planned to be extended. Development consistent with City standards will reduce impacts to an acceptable level.

17. Human Health

The project site is designated for rural residential development. There will be no significant impacts.

18. Esthetics

The proposal will not result in the obstruction of any scenic vista or view open to the public, or create an esthetically offensive site that is open to the public view.

19. Recreation

Compliance with the requirements of the City of Visalia Conservation, Open Space, Recreation, and Parks Element of the General Plan will reduce impacts to the point of being not significant.

20. Cultural Resources

No cultural resources have been recorded or are known to exist on the project site. There will be no known significant impacts to cultural resources.

21. Mandatory Findings of Significance

The project, as conditioned, will not have environmental effects which will cause substantial adverse effects on human beings, rare or protected plant/animal species and cultural resources either directly or indirectly, or through cumulative effects. The project site is designated for residential development by the Visalia General Plan.

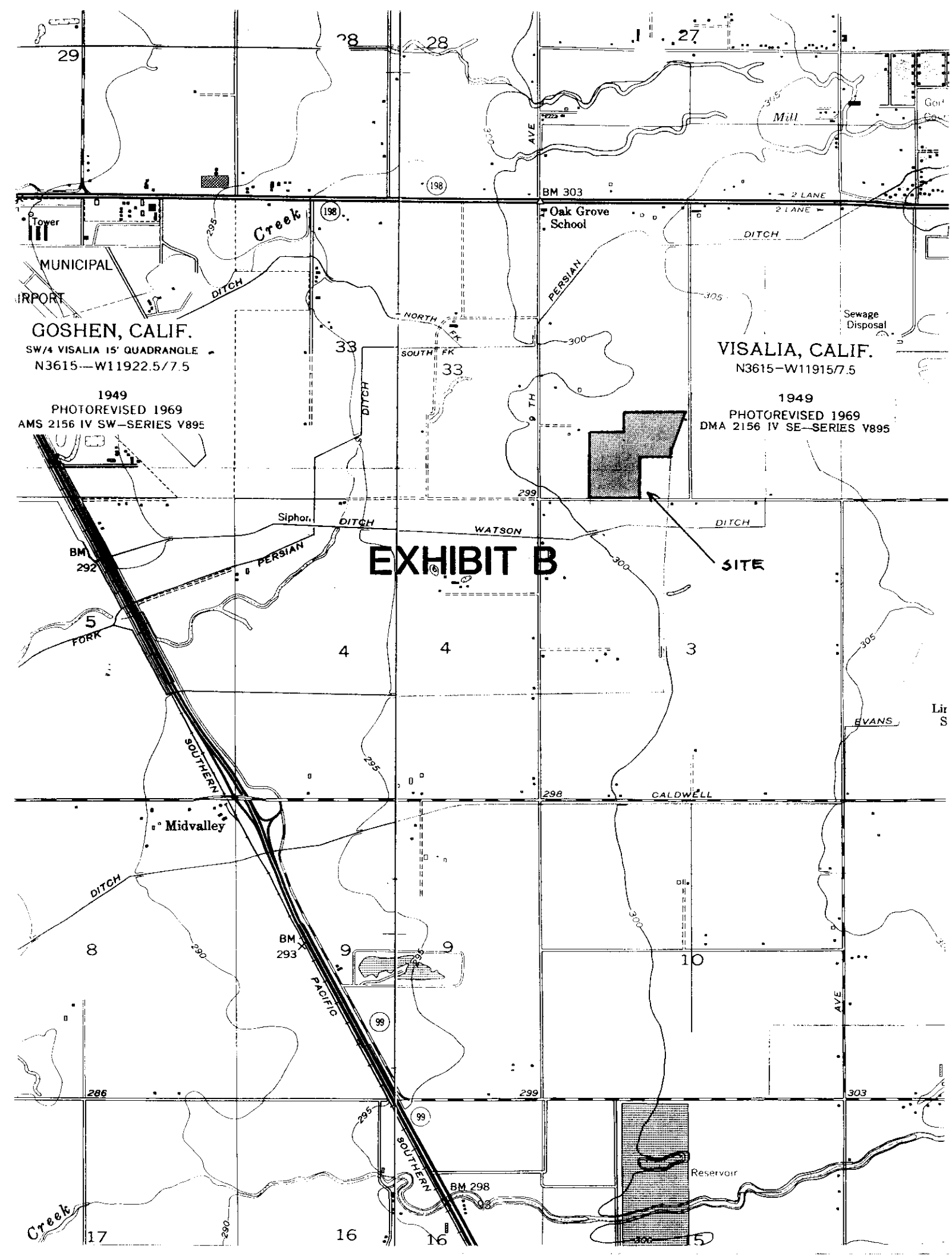

GOSHEN, CALIF.
SW/4 VISALIA 15' QUADRANGLE
N3615—W11922.5/7.5
1949
PHOTOREVISED 1969
AMS 2156 IV SW—SERIES V895
VISALIA, CALIF.
N3615—W11915/7.5
1949
PHOTOREVISED 1969
DMA 2156 IV SE—SERIES V895
EXHIBIT B
SITE
Oak Grove School
Tower
MUNICIPAL
AIRPORT
Sewage Disposal
Reservoir
Midvalley
BM 303
BM 292
BM 293
BM 298
Creek
DITCH
PERSIAN
NORTH FK
SOUTH FK
Siphon
WATSON
SOUTHERN PACIFIC
EVANS
CALDWELL
AVE
2 LANE
Mill

EXHIBIT "C"

Project Name : SAVANNAH HEIGHTS SUBDIVIS Date : 03-10-1993

Analysis Year = 1995 Temperature = 75
EMFAC7 VERSION : EMFAC7D ...11/88

Unit Type	Trip Rate	Size	Tot Trips	Days Op.
Single Family Housing	10.0/Unit	53	530	

	Residential			Commercial	
	Home-Work	Home-Shop	Home-Other	Work	Non-Work
Trip Length	4.7	2.4	5.2	4.2	3.6
% Started Cold	88.2	40.1	58.0	77.2	27.0
Trip Speed	35	35	35	35	35
Percent Trip	27.3	21.2	51.5		

Vehicle Fleetmix

Vehicle Type	Percent Type	Leaded	Unleaded	Diesel
Light Duty Autos	72.8	1.5	95.9	2.6
Light Duty Trucks	14.3	2.4	94.9	2.8
Medium Duty Trucks	4.3	5.9	94.2	0.0
Heavy Duty Trucks	3.9	33.3	66.7	N/A
Heavy Duty Trucks	3.9	N/A	N/A	100.0
Motorcycles	0.9	100.0	N/A	N/A

Project Emissions Report in Lb/Year

Unit Type	TOG	CO	NOx
Single Family Housing	2028.2	17499.1	2896.6

Project Emissions Report in Lb/Year

Unit Type	FUEL USE	PM10	SOx
Single Family Housing	35190.2	287.8	330.4

CITY OF VISALIA
315 E. ACEQUIA AVENUE
VISALIA, CA 93291

NOTICE OF A PROPOSED INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION

Project Title: Annexation No. 2024-01 and Elliott Tentative Subdivision Map No. 5597

Project Description:
Annexation No. 2024-01 is a request by Jonathan Frausto/San Joaquin Valley Homes to annex two parcels totaling approximately 59.13-acres into the City Limits of Visalia and to detach said parcels from Tulare County Service Area No. 1.

The Elliott Tentative Subdivision Map No. 5597 is a request by Jonathan Frausto/San Joaquin Valley Homes to subdivide two parcels totaling approximately 59.13-acres into 225 lots for single-family residential use and additional outlots for landscaping and a neighborhood park.

The development of the property, if approved, will create additional housing units in the southwest portion of the City at a density of 3.8 dwelling units to the gross acre within the Low Density Residential designation area, which is consistent with the Visalia General Plan.

Project Location: The project site is located west of South Roeben Street, approximately 650 feet south of West Tulare Avenue (APNs: 087-010-006 and 087-010-008).

Contact Person: Cristobal Carrillo, Associate Planner, Phone: (559) 713-4443, Email: cristobal.carrillo@visalia.city

Pursuant to City Ordinance No. 2388, the Environmental Coordinator of the City of Visalia has reviewed the proposed project described herein and has found that the project will not result in any significant effect upon the environment because of the reasons listed below:

Reasons for Mitigated Negative Declaration: Initial Study No. 2024-05 has identified environmental impact(s) that may occur because of the project; however, with the implementation of mitigation measures identified, impact(s) will be reduced to a level that is less than significant.

Copies of the initial study and other documents relating to the subject project may be examined by interested parties at the Planning Division in City Hall East, at 315 East Acequia Avenue, Visalia, CA. In the event that City Hall front counter services are closed to the public, copies of the initial study and other documents relating to the subject project may be requested by contacting project planner Cristobal Carrillo, Associate Planner, by phone at (559) 713-4443 or by email at cristobal.carrillo@visalia.city or by visiting the following webpage:

https://www.visalia.city/depts/community_development/planning/ceqa_environmental_review.asp

Comments on this proposed Mitigated Negative Declaration will be accepted from June 27, 2024 to July 17, 2024.

Date June 27, 2024

Signed:

Brandon Smith, AICP Environmental Coordinator
City of Visalia

Initial Study and Mitigated Negative Declaration for Elliott Subdivision

June 2024

Prepared By:

4Creeks, Inc.
324 S Santa Fe, Suite A
Visalia, CA 93292

Prepared For:

City of Visalia
315 E Acequia Ave
Visalia, CA 93291

TABLE OF CONTENTS

Section 1: Initial Study/MND Process **1-1**

1.1 California Environmental Quality Act Guidelines 1-1
1.2 Initial Study 1-1
1.3 Environmental Checklist 1-2
1.4 Notice of Intent to Adopt a Negative Declaration/Notice of Preparation 1-2
1.5 Mitigated Negative Declaration 1-3
1.6 Intended Uses of the Environmental Assessment, Initial Study 1-3
1.7 Notice of Determination 1-4
1.8 CEQA Process Flow Chart 1-5

Section 2: Project Description **2-1**

2.1 Project Description & Purpose 2-1
2.2 Project Location 2-1
2.3 Other Permits and Approvals 2-1

Section 3: Evaluation of Environmental Impacts **3-1**

3.1 Purpose 3-1
3.2 Initial Study/Mitigated Negative Declaration 3-3
3.3 Evaluation of Environmental Impacts 3-8
3.4 Environmental Factors Potentially Affected 3-11
3.5 Environmental Analysis 3-12
I. Aesthetics 3-12
II. Agriculture and Forest Resources 3-20
III. Air Quality 3-29
IV. Biological Resources 3-39
V. Cultural Resources 3-50
VI. Energy 3-58
VII. Geology and Soils 3-63
VIII. Greenhouse Gas Emissions 3-71
IX. Hazards and Hazardous Materials 3-77
X. Hydrology and Water Quality 3-84
XI. Land Use and Planning 3-92
XII. Mineral Resources 3-97
XIII. Noise 3-99
XIV. Population and Housing 3-105
XV. Public Services 3-107
XVI. Parks and Recreation 3-111
XVII. Transportation 3-114
XVIII. Tribal Cultural Resources 3-122
XIX. Utilities and Service Systems 3-130

XX. Wildfire 3-136
XX. Mandatory Findings of Significance 3-138
3.6 Mitigation Monitoring and Reporting Program 3-140
3.7 Supporting Information and Sources 3-146

Section 4: List of Report Preparers 4-1

Appendices

Appendix A: CalEEMod Report
Appendix B: Biological Evaluation
Appendix C: Cultural Resources Assessment
Appendix D: Traffic Study/VMT Assessment
Appendix E: Agricultural Mitigation Memo
Appendix F: Biochemical Oxygen Demand and Total Suspended Solids Calculations

List of Figures

2-1 Regional Location 2-3
2-2 Vicinity Map 2-4
3-1 Site Plan 3-7
3-2 Phasing Map 3-8
3-3 Important Farmland Map 3-26
3-4 Soils Map 3-66
3-5 Distance to Schools and Airports 3-80
3-6 City of Tulare General Plan Land Use 3-94
3-7 Zoning Map 3-95
3-8 Construction Related Noise Levels 3-102
3-9 Visalia Existing VMT Per Capita – First Parcel 3-119
3-10 Visalia Existing VMT Per Capita – Second Parcel 3-120

List of Tables

3-1 Important Farmland Developed Under 2030 GP 3-26
3-2 San Joaquin Valley Attainment Status 3-30
3-3 Ambient Air Quality Standards 3-32
3-4 SJVAPCD Thresholds of Significance – Criteria Pollutants 3-35
3-5 Projected Project Emissions for Criteria Pollutants related to Construction 3-37
3-6 Projected Project Emissions for Criteria Pollutants related to Operations 3-37
3-7 Special Status Species Findings 3-42
3-8 SCE and State Average Power Resources 3-58
3-9 On-Road Mobile Fuel Use Generated from Construction 3-61
3-10 On-Road Mobile Fuel Use Generated from Operation 3-61
3-11 Greenhouse Gases 3-72
3-12 Projected Project Operational GHG Emissions 3-75

3-13 Project Consistency with Climate Action Plan Strategies 3-75
3-14 City of Visalia Noise Standards 3-100
3-15 Noise Levels of Noise-Generating Equipment 3-102
3-16 Vibration Levels Generated by Construction Equipment 3-103
3-17 Student Generation Rates 3-110
3-18 Proposed Project Trip Generation 3-116

Section 1

Initial Study/Negative Declaration Process

City of Visalia
315 E Acequia Ave
Visalia, CA 93291

SECTION 1
CEQA Review Process

Project Title: Elliott Subdivision

1.1 California Environmental Quality Act Guidelines

Section 15063 of the California Environmental Quality Act (CEQA) Guidelines requires that the Lead Agency prepare an Initial Study to determine whether a discretionary project will have a significant effect on the environment. All phases of the project planning, implementation, and operation must be considered in the Initial Study. The purposes of an Initial Study, as listed under Section 15063(c) of the CEQA Guidelines, include:

(1) Provide the lead agency with information to use as the basis for deciding whether to prepare an EIR or negative declaration;
(2) Enable an applicant or lead agency to modify a project, mitigating adverse impacts before an EIR is prepared, thereby enabling the project to qualify for a negative declaration;
(3) Assist in the preparation of an EIR, if one is required, by:
- *(a) Focusing the EIR on the effects determined to be significant,*
- *(b) Identifying the effects determined not to be significant,*
- *(c) Explaining the reasons for determining that potentially significant effects would not be significant, and*
- *(d) Identifying whether a program EIR, tiering, or another appropriate process can be used for analysis of the project's environmental effects.*

(4) Facilitate environmental assessment early in the design of a project;
(5) Provide documentation of the factual basis for the finding in a negative declaration that a project will not have a significant effect on the environment
(6) Eliminate unnecessary EIRs;
(7) Determine whether a previously prepared EIR could be used with the project.

1.2 Initial Study

The Initial Study provided herein covers the potential environmental effects of a 225-unit, low-density single-family development on 59.13 gross acres within the City of Visalia Planning Area. The Project site's existing City of Visalia General Plan land use designation is Residential Low Density, with a current County of Tulare zoning designation of AE-20 (Exclusive Agriculture, 20 acre minimum site area). The Project's proposed zoning under City jurisdiction is R-1-5 (Single Family Residential, 5,000 square foot minimum site area). The Project includes 225 homes, with

a minimum of 6,480 square feet per lot, and a 4.15-acre park. The City of Visalia will act as the Lead Agency for processing the Initial Study/Mitigated Negative Declaration under the CEQA Guidelines.

1.3 Environmental Checklist

The Lead Agency may use the CEQA Environmental Checklist Form [CEQA Guidelines, Section 15063(d)(3) and (f)] in preparation of an Initial Study to provide information for determining if there are significant effects of the project on the environment. A copy of the completed Environmental Checklist is outlined in **Section Three**.

1.4 Notice of Intent to Adopt a Negative Declaration

The Lead Agency shall provide a Notice of Intent to Adopt a Negative Declaration (CEQA Guidelines, Section 15072) to the public, responsible agencies, trustee agencies, and the County Clerk within which the project is located, sufficiently before adoption by the Lead Agency of the Negative Declaration to allow the public and agencies the review period. The public review period (CEQA Guidelines, Section 15105) will be 20 days. The City is not anticipating state agency review.

Before approving the project, the Lead Agency shall consider the proposed Negative Declaration together with any comments received during the public review process and shall adopt the proposed Negative Declaration only if it finds based on the whole record before it, that there is no substantial evidence that the project will have a significant effect on the environment and that the Negative Declaration reflects the Lead Agency's independent judgment and analysis.

The written and oral comments received during the public review period will be considered by The City of Visalia before adopting the Negative Declaration. Regardless of the type of CEQA document that must be prepared, the overall purpose of the CEQA process is to:

1) Assure that the environment and public health and safety are protected in the face of discretionary projects initiated by public agencies or private concerns;
2) Provide full disclosure of the project's environmental effects to the public, the agency decision-makers who will approve or deny the project, and the responsible trustee agencies charged with managing resources (e.g. wildlife, air quality) that may be affected by the project; and
3) Provide a forum for public participation in the decision-making process on potential environmental effects.

According to Section 15070(a) a public agency shall prepare or have prepared a proposed negative declaration for a project subject to CEQA when:

The initial study shows that there is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment. Less than significant impacts with mitigation measures have been identified.

The Environmental Checklist Discussion contained in Section Three of this document has determined that the environmental impacts of the project are less than significant with mitigation measures and that a Mitigated Negative Declaration is adequate for adoption by the Lead Agency.

1.5 Negative Declaration or Mitigated Negative Declaration

The Lead Agency shall prepare or have prepared a proposed Negative Declaration or Mitigated Negative Declaration (CEQA Guidelines Section 15070) for a project subject to CEQA when the Initial Study shows that there is no substantial evidence, in light of the whole record before the agency, that the project may have a significant effect on the environment. The proposed Negative Declaration or Mitigated Negative Declaration circulated for public review shall include the following:

(a) A brief description of the project, including a commonly used name for the project.
(b) The location of the project, preferably shown on a map.
(c) A proposed finding that the project will not have a significant effect on the environment.
(d) An attached copy of the Initial Study documenting reasons to support the finding.
(e) Mitigation measures, if any.

1.6 Intended Uses of Initial Study/Negative Declaration Documents

The Initial Study/Negative Declaration document is an informational document that is intended to inform decision-makers, other responsible or interested agencies, and the general public of the potential environmental effects of the proposed project. The environmental review process has been established to enable public agencies to evaluate environmental consequences and to examine and implement methods of eliminating or reducing any adverse impacts. While CEQA requires that consideration be given to avoiding environmental damage, the Lead Agency must balance any potential environmental effects against other public objectives, including economic and social goals. The City of Visalia, as the Lead Agency, will make a determination, based on the environmental review for the Environmental Study, Initial Study, and comments from the general public, if there are less than significant impacts from the proposed project and the requirements of CEQA can be met by adoption of a Mitigated Negative Declaration.

1.7 Notice of Determination (NOD)

The Lead Agency shall file a Notice of Determination within five working days after deciding to approve the project. The Notice of Determination (CEQA Guidelines, Section 15075) shall include the following:

(1) An identification of the project including the project title as identified on the proposed negative declaration, its location, and the State Clearinghouse identification number for the proposed negative declaration if the notice of determination is filed with the State Clearinghouse.

(2) A brief description of the project.

(3) The agency's name and the date on which the agency approved the project.

(4) The determination of the agency that the project will not have a significant effect on the environment.

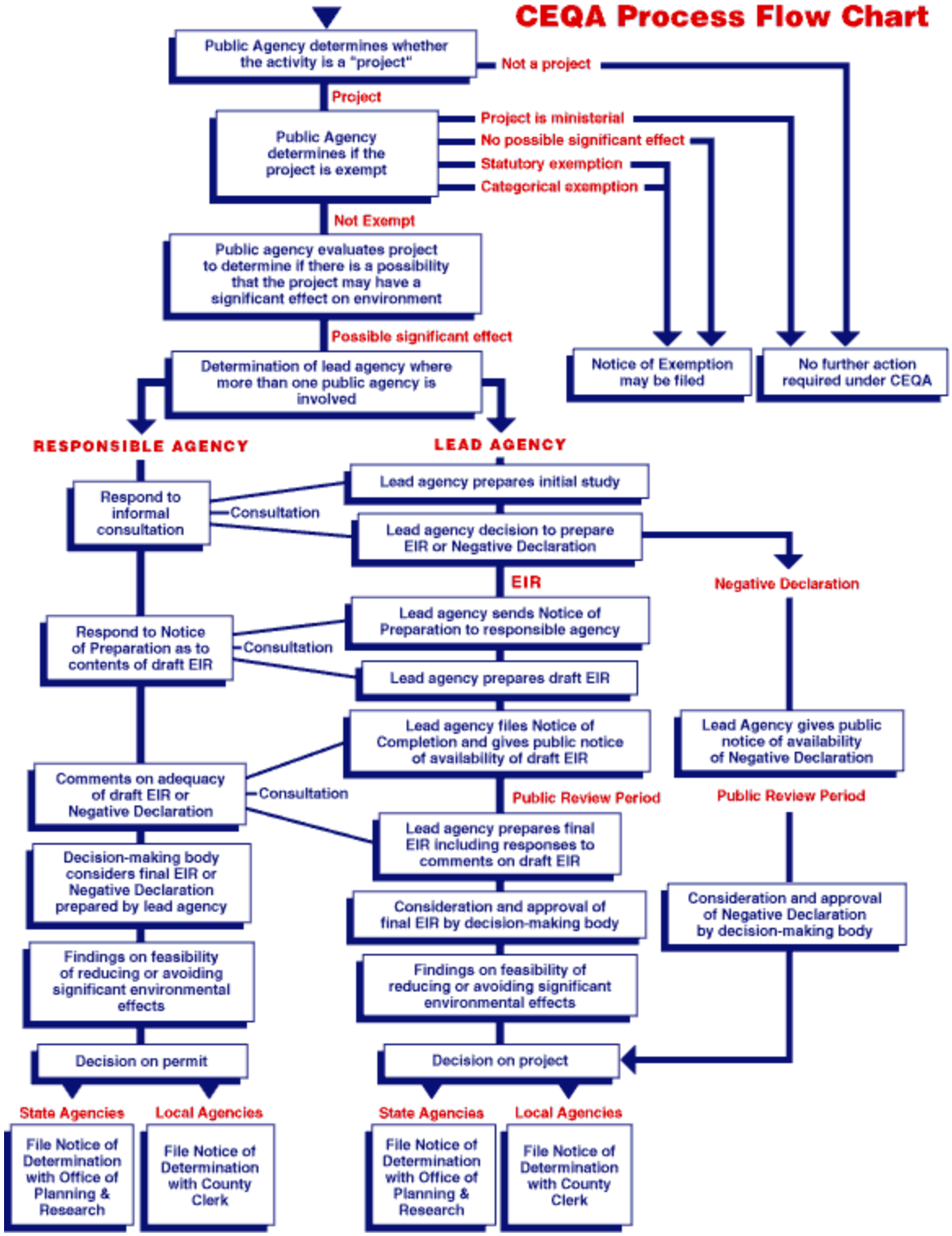
(5) A statement that a negative declaration or a mitigated negative declaration was adopted pursuant to the provisions of CEQA.

(6) A statement indicating whether mitigation measures were made a condition of the approval of the project, and whether a mitigation monitoring plan/program was adopted.

(7) The address where a copy of the negative declaration or mitigated negative declaration may be examined.

(8) The identity of the person undertaking a project which is supported, in whole or in part, through contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies or the identity of the person receiving a lease, permit, license, certificate, or other entitlement for use from one or more public agencies.

1.8 CEQA Process Flow Chart



Section 2

Project Description

City of Visalia
315 E Acequia Ave
Visalia, CA 93291

SECTION 2
Project Description

Project Title: Elliott Property Subdivision

2.1 Project Description and Purpose

The Project proposes a 225-unit, low-density single-family development on 59.13 gross acres within the City of Visalia Planning Area. The Project site's existing City of Visalia General Plan land use designation is Residential Low Density, with a current County of Tulare zoning designation of AE-20 (Exclusive Agriculture, 20 acre minimum site area). The Project's proposed zoning under City jurisdiction is R-1-5 (Single Family Residential, 5,000 square foot minimum site area). The Project includes 225 homes, with a minimum of 6,480 square feet per lot, and a 4.15-acre park.

The Project would result in onsite and offsite infrastructure improvements, including new and relocated utilities, new residential streets, and improvements of West Tulare Avenue, South Roeben Street, and South Shirk Road. The Persian Ditch will remain, fenced off within the park area. The Project will require no demolition.

The Project will require annexation into the City of Visalia; it is within the Visalia Planning Area and borders the existing City limits and single-family homes. The Project plans to develop the project in two phases (Figure 3-2).

2.2 Project Location

The proposed project site is located within the City of Visalia Planning Area within Tulare County. The site is west of S Roeben Street, east of S Shirk Road, and south of W Tulare Avenue. The site is approximately 3.5 miles southwest of the Visalia downtown. The Project involves construction on APNs 087-010-006 and 087-010-008. The site is topographically flat, with agricultural uses to the north and west and single-family housing to the south and east. The site contains agricultural uses, vacant land, and an oak grove.

2.3 Other Permits and Approvals

The following approvals are required for the proposed Project:

- Tentative Subdivision Map

- Tulare County Local Agency Formation Commission Annexation
- San Joaquin Valley Air Pollution Control District (SJVAPCD). The proposed Project is within the jurisdiction of the SJVAPCD and will be required to comply with Rules VIII, 3135, 4101, and 9510.
- Central Valley Regional Water Quality Control Board, SWPPP. The proposed project site is within the jurisdiction of the Central Valley Regional Water Quality Control Board (RWQCB). The Central Valley RWQCB will require a Storm Water Pollution Prevention Plan (SWPPP) to prevent impacts related to stormwater because of project construction.

The following ministerial approvals are required from the City of Visalia for the proposed Project:

- City of Visalia Building and Encroachment Permits
- Roadway Dedication of Shirk Road, Roeben Street, and Tulare Avenue.

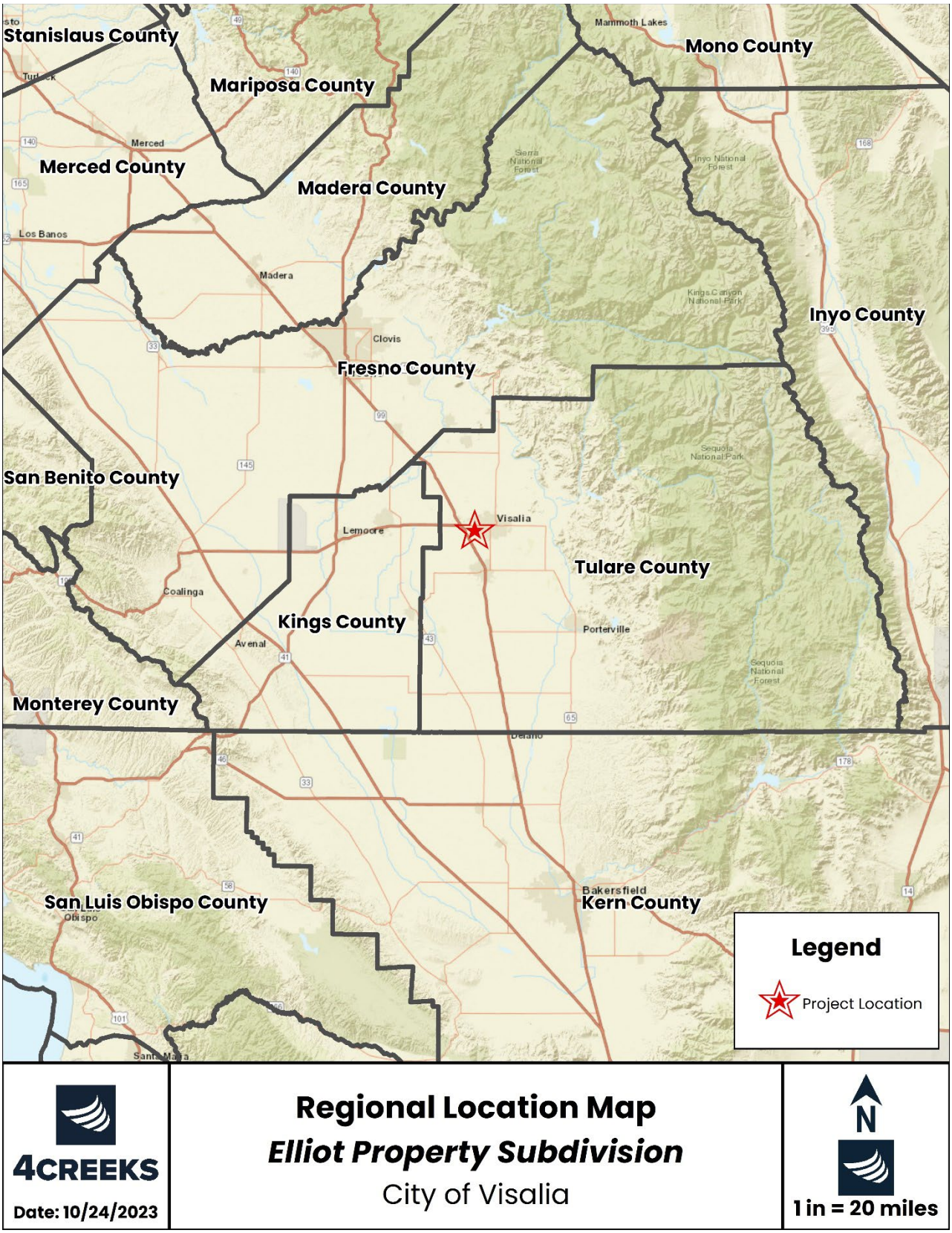


Figure 2-1. Regional Location Map

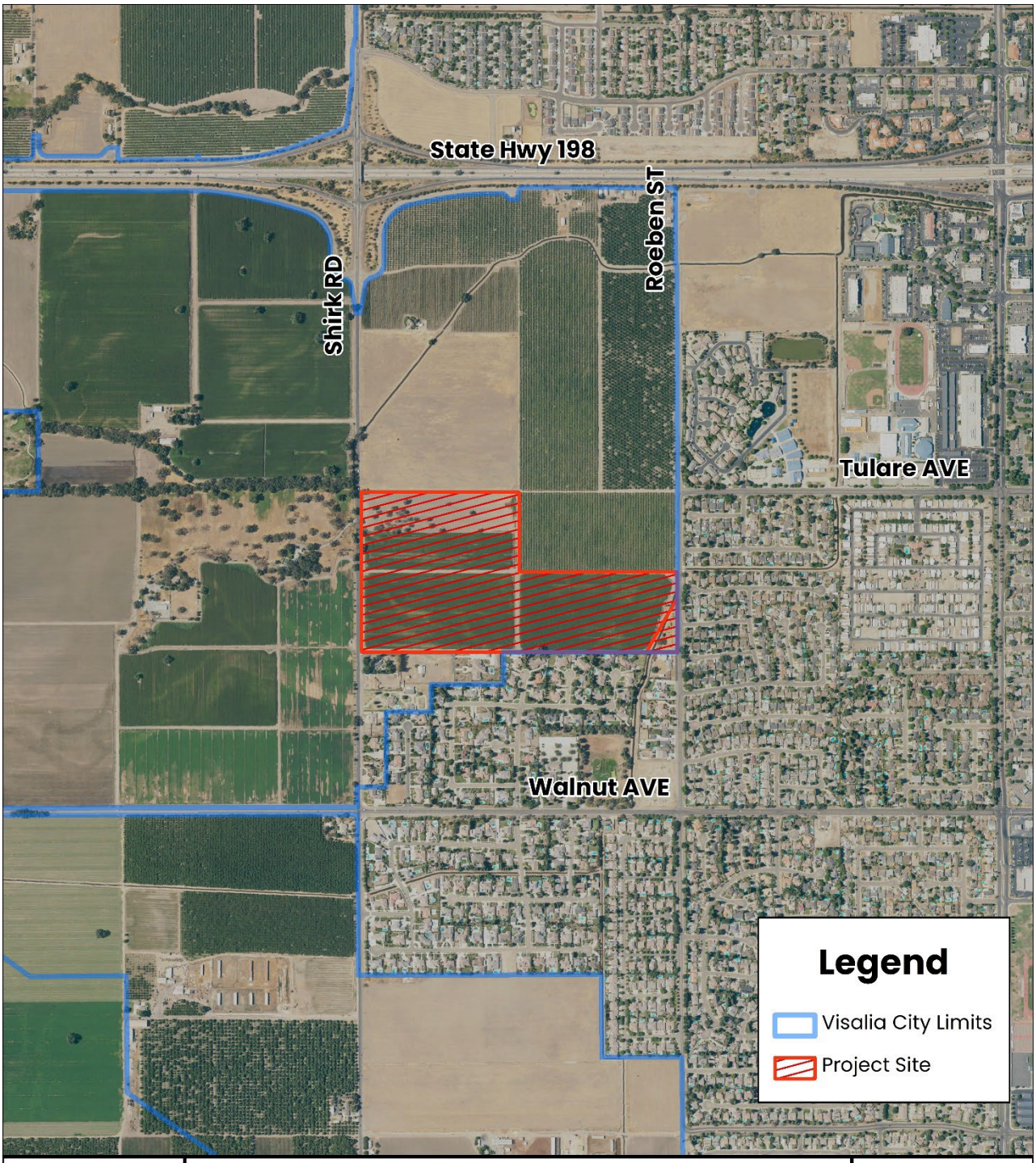


Figure 2-2. Vicinity Map

Section 3

Evaluation of Environmental Impacts

City of Visalia
315 E Acequia Ave
Visalia, CA 93291

SECTION 3
Evaluation of Environmental Impacts

Project Title: Elliott Property Subdivision

This document is the Initial Study/Mitigated Negative Declaration for the proposed construction and operation of 225-unit, low-density single-family development with a park on 59.13 gross acres within the City of Visalia. The City of Visalia will act as Lead Agency for this Project pursuant to the California Environmental Quality Act (CEQA) and the CEQA Guidelines.

3.1 PURPOSE

The purpose of this environmental document is to implement the California Environmental Quality Act (CEQA). Section 15002(a) of the CEQA Guidelines describes the basic purposes of CEQA as follows.

(1) Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities.
(2) Identify the ways that environmental damage can be avoided or significantly reduced.
(3) Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible.
(4) Disclose to the public the reasons why a governmental agency approved the Project in the manner the agency chose if significant environmental effects are involved.

This Initial Study of environmental impacts has been prepared to conform to the requirements of the California Environmental Quality Act (CEQA) (Public Resources Code Section 21000 et seq.) and the State CEQA Guidelines (California Code of Regulations Section 15000 et seq.). According to Section 15070, a public agency shall prepare or have prepared a proposed negative declaration or mitigated negative declaration for a Project subject to CEQA when:

(a) The initial study shows that there is no substantial evidence, in light of the whole record before the agency, that the Project may have a significant effect on the environment, or
(b) The initial study identifies potentially significant effects, but:
(1) Revisions in the Project plans or proposals made by, or agreed to by the applicant before a proposed mitigated negative declaration and initial study are released

for public review would avoid the effects or mitigate the effects to a point where clearly no significant effects would occur, and

(2) There is no substantial evidence, in light of the whole record before the agency, that the Project as revised may have a significant effect on the environment.

3.2 INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

1. **Project Title:** Elliott Property Subdivision

2. **Lead Agency:** City of Visalia, Planning and Community Preservation Department
Contact Person: Cristobal Carrillo, Planning Division
315 E Acequia Ave
Visalia, CA 93291
Phone Number: (559) 713-4443

3. **Applicant:** San Joaquin Valley Homes
Contact Person: Nick Peters
5607 Avenida De Los Robles
Visalia, CA 93291
Phone Number: (559)-437-5010

4. **Project Location:** The proposed Project Site is located within the City of Visalia Planning Area within Tulare County. The Site is west of S Roeben Street, east of S Shirk Road, and south of Tulare Street. The Site is approximately 3.5 miles southwest of the Visalia downtown. The Project involves construction on APNs 087-010-006 and 087-010-008. The Site is topographically flat, with agricultural uses to the north and west and single-family housing to the south and east. The Site is zoned AE-20 (Exclusive Agriculture, 20 Acre Minimum Site Area) by Tulare County but will be zoned R-1-5 by the City of Visalia, pending annexation. The Visalia General Plan Designation is Low Density Residential. The Site contains agricultural uses, vacant land, and an oak grove.

5. **General Plan Designation:** The proposed Project Site is designated as Low Density Residential by the Visalia General Plan.

6. **Zoning Designation:** The Site is currently zoned AE-20 in the County of Tulare Designation.

7. **Project Description:** The Project proposes a 225-unit, low-density single-family development on 59.13 gross acres within the City of Visalia Planning Area. The Project site's existing City of Visalia General Plan land use designation is Residential Low Density, with a current County of Tulare zoning designation of AE-20 (Exclusive Agriculture, 20-acre minimum site area). The Project's proposed zoning under City jurisdiction is R-1-5 (Single Family Residential, 5,000 square foot minimum site area). The Project includes 225 homes, with a minimum of 6,480 square feet per lot, and a 4.15-acre park.

   The Project would result in onsite and offsite infrastructure improvements, including new and relocated utilities, new residential streets, and improvements of West Tulare Avenue,

South Roeben Street, and South Shirk Road. The Persian Ditch will remain, fenced off, in the park area. within the park area. The Project will require no demolition.

8. **Surrounding Land Uses and Settings:**

Direction	*Adjacent Street*	*Adjacent Property Usage*
North	None (Future West Tulare Street)	Agricultural and Irrigated Pasture
South	None	Residential
East	South Roeben Street	Residential
West	South Shirk Road	Rural Residence and Agricultural

9. **Required Approvals:** The following approvals are required for the proposed project:
   - Tentative Subdivision Map
   - Tulare County Local Agency Formation Commission Annexation
   - San Joaquin Valley Air Pollution Control District (SJVAPCD). The proposed Project is within the jurisdiction of the SJVAPCD and will be required to comply with Rule VIII, 3135, 4101, and 9510.
   - Central Valley Regional Water Quality Control Board, SWPPP. The proposed Project Site is within the jurisdiction of the Central Valley Regional Water Quality Control Board (RWQCB). The Central Valley RWQCB will require a Storm Water Pollution Prevention Plan (SWPPP) to prevent impacts related to stormwater because of Project construction.

The following ministerial approvals are required from the City of Visalia for the proposed project:

- City of Visalia Building and Encroachment Permits
- Roadway Dedication of Shirk Road, Roeben Street, and Whitendale Avenue

10. **Native American Consultation:** The State requires lead agencies to consider the potential effects of proposed projects and consult with California Native American tribes during the local planning process for the purpose of protecting Traditional Tribal Cultural Resources through the California Environmental Quality Act (CEQA) Guidelines. Pursuant to PRC Section 21080.3.1, the lead agency shall begin consultation with the California Native American tribe that is traditionally and culturally affiliated with the geographical area of the proposed project. Such significant cultural resources are either sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a tribe which is either on or eligible for inclusion in the California Historic Register or local historic register, or, the lead agency, at its discretion, and support by substantial evidence, choose to treat the resources as a Tribal Cultural Resources (PRC Section 21074(a)(1-2)). According to the most recent census data, California is home to 109 currently recognized Native American tribes. Tribes in California currently have nearly 100 separate reservations or Rancherias. Tulare County has several Rancherias. These Rancherias are not located within the City limits.

Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and Project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See PRC Section 21083.3.2.) Information may also be available from the California Native American Heritage Commission's Sacred Lands File per PRC Section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that PRC Section 21082.3(c) contains provisions specific to confidentiality.

11. **Parking and access:** Vehicular access to the Project is available via S Shirk Road, S Roeben Street, and the future expansion of W Tulare Road to the north of the Project. The Project includes new streets and courts that provide full access to the Project site. These internal streets will have a ROW of 60', including sidewalks and parkways on both sides. Improvements will be made to Shirk Road, Tulare Avenue, and Roeben Street. The Right of Way (ROW) of Shirk Road will have an ultimate ROW of 110' with a center median, with the Project providing the eastern half of improvements. The eastern half of Shirk Road will include two lanes of traffic, a bike lane, a sidewalk, and landscaping. The ROW of S. Roeben Street will have an ultimate ROW of 84'. The Project will build out the western half of Roeben Street to include a southbound lane of traffic, sidewalk, bike lane, and landscaping. Tulare Avenue, currently a dirt road to the north of the Project, will have an ultimate ROW of 84', with the Project providing the southern half of improvements, including new pavement for an eastbound lane of traffic, a bike lane, a sidewalk, and landscaping. During construction, workers will utilize existing parking areas and/or temporary construction staging areas for parking vehicles and equipment.

12. **Landscaping and Design:** The landscape and design plans will be required during building permit and final map submittal for any areas maintained by a landscape and lighting district.

13. **Utilities and Electrical Services:** The Project would result in onsite and offsite infrastructure improvements including new and relocated utilities. Electricity will be provided by Southern California Edison, telephone will be provided by AT&T, and natural gas will be provided by Southern California Gas. Water will be provided by Cal Water and sewer services will be provided by the City of Visalia via existing lines. A stormwater pond will be located in the Southwest corner of the site. During construction, a temporary stormwater basin will be utilized.

Acronyms

BMP	Best Management Practices
BAU	Business as Usual
CAA	Clean Air Act
CBC	California Building Code
CCAP	Climate Change Action Plan
CCR	California Code of Regulation
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CRHR	California Register of Historic Places
CWA	California Water Act
DHS	Department of Health Services
FEIR	Final Environmental Impact Report
FMMP	Important Farmland Mapping and Monitoring Program
ISMND	Initial Study Mitigated Negative Declaration
ISR	Indirect Source Review
MCL	Maximum Contaminant Level
MEIR	Master Environmental Impact Report
NOI	Notice of Intent
ND	Negative Declaration
NAC	Noise Abatement Criteria
RCRA	Resource Conservation and Recovery Act of 1976
ROW	Right-of-Way
RWQCB	Regional Water Quality Control Board
SCE	Southern California Edison
SHPO	State Historic Preservation Office
SJVAPCD	San Joaquin Valley Air Pollution Control District
SSJVIC	Southern San Joaquin Information Center
SWPPP	Storm Water Pollution Prevention Plan
TCR	Tribal Cultural Resource
UWMP	Urban Water Management Plan

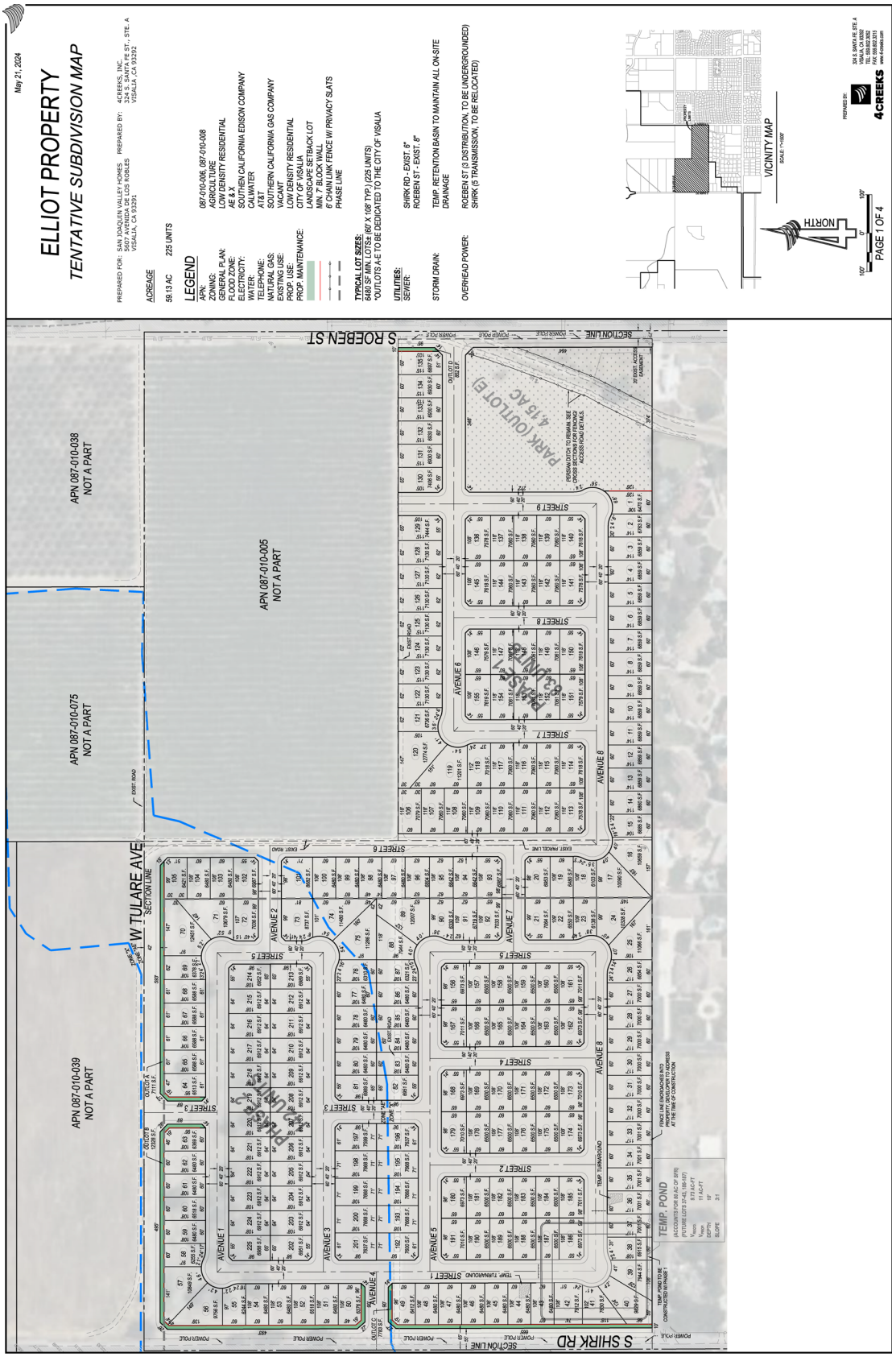


Figure 3-1: Site Plan

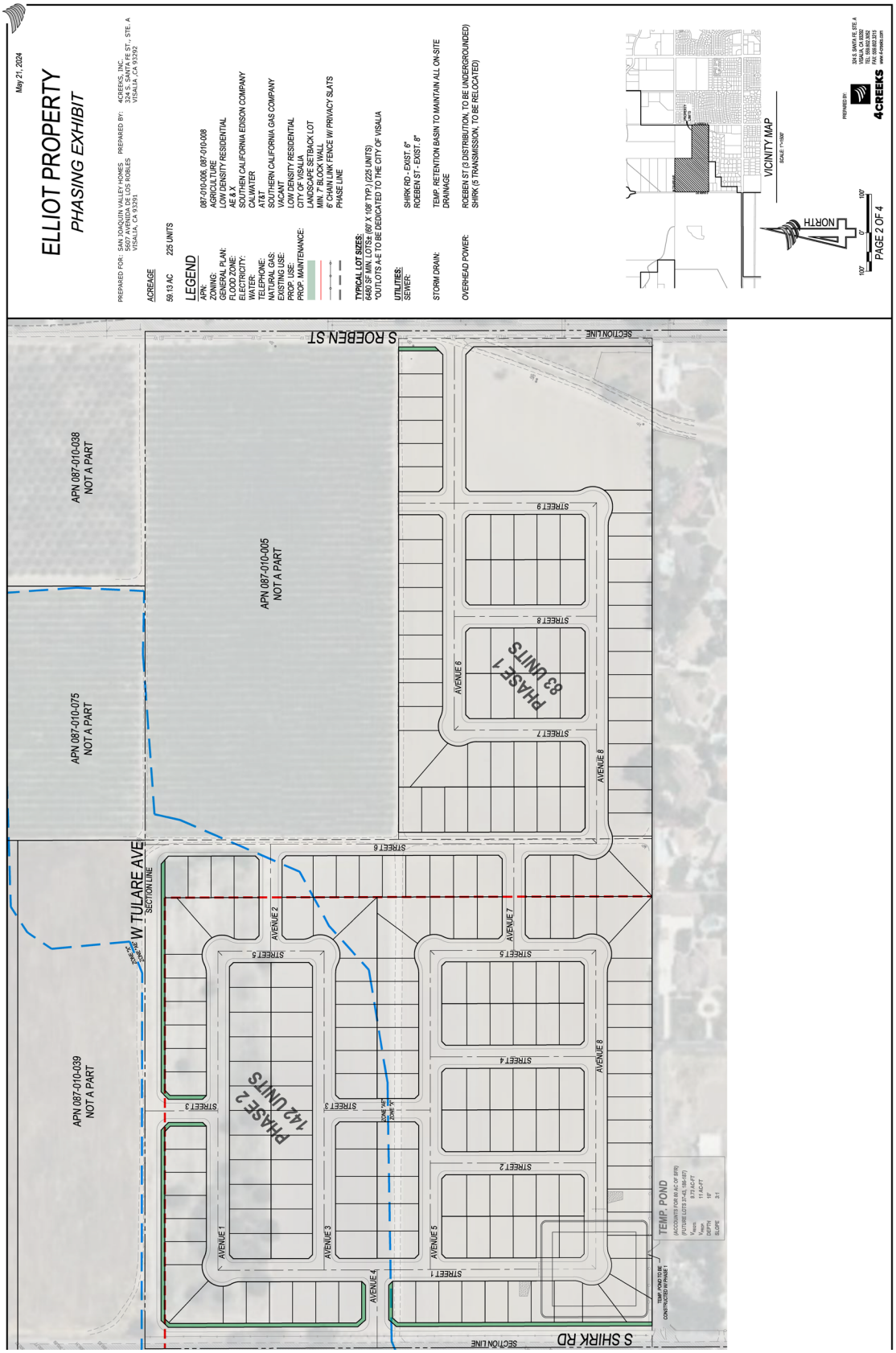


Figure 3-2: Phasing Plan

3.3 EVALUATION OF ENVIRONMENTAL IMPACTS

1. A brief explanation is required for all answers except "no Impact" answers that are adequately supported by the information sources a lead agency cites, in the parentheses following each question. A "No Impact" answer is adequately supported if the reference information sources show that the impact simply does not apply to projects like the one involved (e.g., the Project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the Project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

2. All answers must take account of the whole action involved, including off-Site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR if required.

4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).

5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c) (3)(D). In this case, a brief discussion should identify the following.

    - Earlier Analysis Used. Identify and state where they are available for review.
    - Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
    - Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated." Describe and mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.

3.4 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

☐ Aesthetics	☐ Greenhouse Gas Emissions	☐ Public Services
☐ Agriculture and Forest Resources	☐ Hazards & Hazardous Materials	☐ Recreation
☐ Air Quality	☑ Hydrology and Water Quality	☐ Transportation
☑ Biological Resources	☐ Land Use and Planning	☑ Tribal
☑ Cultural Resources	☐ Mineral Resources	☐ Utilities and Service System
☐ Energy	☐ Noise	☐ Wildfire
☑ Geology and soils	☐ Population	☑ Mandatory Findings of Significance

DETERMINATION: (To be completed by the Lead Agency) Where potential impacts are anticipated to be significant, mitigation measures will be required, so that impacts may be avoided or reduced to insignificant levels.

On the basis of this initial evaluation:

☐ I find that the proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION WILL BE PREPARED.

☑ I find that although the proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the Project have been made by or agreed to by the Project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. A Negative Declaration is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed Project could have a significant effect on the environment because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is requested.

6/27/2024

SIGNATURE DATE

Brandon Smith City of Visalia

PRINTED NAME AGENCY

3.5 ENVIRONMENTAL ANALYSIS

The following section provides an evaluation of the impact categories and questions contained in the checklist and identify mitigation measures, if applicable.

I. AESTHETICS

Except as provided in Public Resource Code Section 21099, would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?	☐	☐	☑	☐
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within state scenic highway?	☐	☐	☑	☐
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the Site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the Project is in an urbanized area, would the Project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☐	☑
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☑	☐

Environmental Setting

Scenic Resources

Scenic resources include landscapes and features that are visually or aesthetically pleasing. They contribute positively to a distinct community or region. These resources produce a visual benefit to communities. The City of Visalia has a visual character of a mix of rural and built environments. Visalia is surrounded by natural open space agricultural land, characterized by uses such as grazing, open space, and cultivated agriculture. Downtown Visalia is the physical, cultural, and economic center, with historical homes surrounding the downtown. St. John's River flows along the North side of Visalia's city limits, along with smaller creeks and ditches throughout the city. Valley Oak trees, both individually and in groves, also provide an important scenic feature and link to the natural setting of the San Joaquin Valley. The goal of Visalia's

General Plan regarding visual resources is to preserve and re-establish the city's natural waterway system and Valley Oak tree groves with parks, conservation areas, and trailways.

Scenic Vistas

The Visalia General Plan identifies the Sierra Nevada mountains to the east and agricultural lands surrounding the city as scenic vistas surrounding Visalia.

Existing Visual Character

The following photos demonstrate the aesthetic character of the Project area. As shown, the proposed Project Site area is in a relatively flat area characterized by agricultural uses.

Photo 1: Eastern-facing view of the central-western portion of subject Site parcel 087-010-008 (central-western portion of the subject site).

Photo 2: Western-facing view of the northeastern portion of subject Site parcel 087-010-008 (northeastern portion of the subject site).

Photo 3: View of the irrigation canal (Persian Ditch) located in a presumed easement in the southeastern portion of the subject site.

Photo 4: Southern-facing view of the former residential area located adjacent to South Roeben Street in the southeastern portion of the subject site.

Regulatory Setting

Scenic Roadways

The California Scenic Highway Program was established in 1963 by the State Legislature to protect and enhance the natural beauty of California highways and adjacent corridors through conservation strategies. The State Scenic Highway System includes a list of highways that have either been officially designated or are eligible for designation. State laws affiliated with governing the scenic highway program can be found in Sections 260-263 in The Street and Highways Code.

State Scenic Highways

According to the California Department of Transportation mapping of State Scenic Highways, the City of Visalia does not have officially designated State Scenic Highways, however, the City has one eligible State Scenic Highway, a 44-mile stretch of State Route 198 from State Route 99 to Sequoia National Park. This is designated as a scenic corridor in the City's General Plan This portion of the highway is approximately 0.5 miles north from the proposed Site.

City of Visalia General Plan

The 2030 General Plan includes the policies related to aesthetic resources that correlate to the proposed project:

- *LU-P-28*: Continue to use natural and man-made edges, such as major roadways and

waterways within the City's Urban Area Boundary, as urban development limit and growth phasing lines.

- *LU-P-34*: Work with Tulare County to prevent urban development of agricultural land outside of the current growth boundaries and to promote the of use agricultural preserves, where they will promote orderly development.
- *LU-P-42*: Develop scenic corridor and gateway guidelines that will maintain the agricultural character of Visalia at its urban fringe.
- *LU-P-72*: Ensure that noise, traffic, and other potential conflicts that may arise in a mix of commercial and residential uses are mitigated through good Site planning, building design, and/or appropriate operational measures.
- *OSC-P-13*: In new neighborhoods that include waterways, improvement of the waterway corridor, including preservation and/or enhancement of natural features and development of a continuous waterway trail on at least one side, shall be required.
- *OSC-P-17*: Require that new development along waterways maintain a visual orientation and active interface with waterways. Develop design guidelines to be used for review and approval of subdivision and development proposals to illustrate how this can be accomplished for different land uses in various geographic settings.
- *OSC-P-34*: Enhance views and public access to Planning Area waterways and other significant features such as Valley Oak groves consistent with flood protection, irrigation water conveyance, habitat preservation and recreation planning policies.

Tulare County General Plan

The 2030 Tulare County General Plan contains the following goals and policies related to aesthetic resources that correlate to the proposed project:

- *SL-1.1 Natural Landscapes:* During review of discretionary approvals, including parcel and subdivision maps, the County shall as appropriate, require new development to not significantly impact or block views of Tulare County's natural landscapes.
    - Be sited to minimize obstruction of views from public lands and rights-of-ways,
    - Screen parking areas from view,
    - Include landscaping that screens the development,
    - Limit the impact of new roadways and grading on natural settings, and
    - Include signage that is compatible and in character with the location and building design
- *SL-1.2 Working Landscapes*: The County shall require that new non-agricultural structures and infrastructure located in or adjacent to croplands, orchards, vineyards, and open rangelands be sited so as to not obstruct important viewsheds and to be designed to reflect unique relationships with the landscape.
    - Referencing traditional agricultural building forms and materials,
    - Screening and breaking up parking and paving with landscaping, and
    - Minimizing light pollution and bright signage.
- *SL-1.3 Watercourses*: The County shall protect visual access to, and the character of, Tulare County's scenic rivers, lakes, and irrigation canals.
- *SL-3.2 Urban Expansion–Edges*: The County shall design and plan the edges and interface of communities with working and natural landscapes to protect their scenic qualities by:
    - Maintaining urban separators between cities and communities,
    - Encouraging cities to master plan mixed-density neighborhoods at their edges, locating compatible lower density uses adjacent to working and natural landscapes, and
    - Protecting important natural, cultural, and scenic resources located within areas that may be urbanized in the future.

City of Visalia Zoning Ordinance

The Visalia Zoning Ordinance governs the distribution and intensity of land uses, sets the principles for evaluating development, and guides the development and growth of the City. The Zoning Ordinance establishes specific development criteria for each zoning district (i.e., parking requirements, walls, fencing, setbacks, building height, etc.).

City of Visalia Valley Oak Ordinance

The City's Valley Oak Ordinance provides basic standards, measures, and compliance requirements for the preservation and protection of native Valley oak trees and landmark trees. The Ordinance prohibits the destruction of oak trees except with an oak tree removal permit. A permit may be granted only if it is found that the oak tree is in danger of falling on a structure or is a host for a plant, pest, or disease endangering other species; if removal is necessary to allow the reasonable enjoyment of private property; or if urban forestry or land management practices warrant removal. If a tree removal permit is granted, the tree must either be replaced by new oak trees on the same property, or by paying mitigation fees to be used for the establishment of new oak trees on other property.

Discussion

a) Would the Project have a substantial adverse effect on a scenic vista?

Less than Significant Impact: A scenic vista is defined as a viewpoint that provides expansive views of a highly valued landscape for the benefit of the general public. The Sierra Nevada mountains to the east and agricultural lands surrounding the city are the primary scenic vista within this region. The Site is surrounded by agricultural uses and single-family homes, while the Sierra Nevada foothills are approximately 20 miles east of the Project Site. The Project would obstruct some views of agricultural uses. However, the Project would not significantly alter views overall from the surrounding community. There is *a less than significant impact.*

b) Would the Project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within state scenic highway?

No Impact: There are no officially designated State Scenic Highways located in the City of Visalia or nearby the site. Highway 198, 0.5 miles north of the Site, is eligible to become a State Scenic Highway. The Site is not visible from Highway 198 and will not impact any views. The proposed Project would not damage any scenic resources within a state scenic highway and there is *no impact.*

c) In non-urbanized areas, would the Project substantially degrade the existing visual character or quality of the Site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the Project is in an urbanized area, would the Project conflict with applicable zoning and other regulations governing scenic quality?

Less than Significant Impact: The Project Site contains an Oak Grove in the northern portion. Following the Valley Oak Ordinance, any trees that must be removed will be inspected and will be replaced. The materials, signage, fencing, landscaping, and building materials used in the construction of the Project will be selected based on their

ability to improve the overall visual character of the area. The proposed Project will comply with the Valley Oak Ordinance (Visalia Municipal Code Chapter 12.24) as well as all applicable zoning and other regulations governing scenic quality. There is *a less than significant impact.*

d) Would the Project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less than Significant Impact: The proposed Project would result in new lighting sources on the Project Site consistent with adjacent residential development. New lighting sources would include interior lighting from residences, street lighting, and security lighting. All street and landscape lighting will be consistent with the City's lighting standards, which are developed to minimize impacts related to excessive light and glare. Although the Project will introduce new light sources to the area, all lighting will be consistent with adjacent residential land uses and the City's lighting standards. The impacts are *less than significant.*

II. AGRICULTURE AND FOREST RESOURCES:

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Department of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in the Forest Protocols adopted by the California Air Resources Board. Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☑	☐
b) Conflict with existing zoning for agricultural use, or a Williamson Act Contract?	☐	☐	☑	☐
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned timberland Production (as defined by Government Code section 51104(g)?	☐	☐	☐	☑

d) Result in the loss of forestland or conversion of forest land to non-forest use?	☐	☐	☐	☑
e) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forestland to non-forest use?	☐	☐	☑	☐

Environmental Setting

Central California is one of the world's premier growing regions. Agriculture is an important economic resource for Visalia and the surrounding areas. 39,518 acres, or 65 percent, of the Visalia Planning Area is farmland producing fruit and nut crops, vegetables, nursery products (trees), apiary products (honey), seed crops (cotton), industrial crops (timber), field crops (alfalfa, barley, corn), and livestock.

The proposed Project Site is located within the Visalia Planning Area. The proposed Project Site is not under a Williamson Act Contract or a Farmland Security Zone contract. The proposed Site is designated as with two land use designations, *Prime Farmland* and *Urban and Built-Up Land*, under the Important Farmland Mapping and Monitoring Program (FMMP). The Site is within the Tier 2 Development Boundary and is designated for Low-Density Housing. To the north and west is additional Prime Farmland. To the south and east are Urban and Built-up land.

Regulatory Setting

California Land Conservation Act of 1965

The California Land Conservation Act of 1965, commonly referred to as the Williamson Act, allows local governments to enter into contracts with private landowners to restrict the activities on specific parcels of land to agricultural or open space uses. The landowners benefit from the contract by receiving greatly reduced property tax assessments. The California Land Conservation Act is overseen by the California Department of Conservation; however local governments are responsible for determining specific allowed uses and enforcing the contract.

Right to Farm Ordinance

Tulare County adopted a "Right to Farm Ordinance," to protect the rights of commercial farming operations while promoting a "good neighbor policy" between these uses. Under this ordinance, property owners and residents are made aware that they may experience inconveniences due to commercial agricultural operations.

Visalia Municipal Code Chapter 18.04: Agricultural Land Preservation Program

Chapter 18.04 of the Visalia Municipal Code details the Agricultural Land Preservation Program (Program) in Visalia. The Program intends to establish a process for the required preservation of agricultural land through the acquisition of agricultural conservation easements or the payment of an in-lieu fee for projects.

California Farmland Mapping and Monitoring Program (FMMP)

The FMMP is implemented by the California Department of Conservation (DOC) to conserve and protect agricultural lands within the State. Land is included in this program based on soil type, annual crop yields, and other factors that influence the quality of farmland. The FMMP mapping categories for the most important statewide farmland are as follows:

- ***Prime Farmland*** has the ideal physical and chemical composition for crop production. It has been used for irrigated production in the four years prior to classification and can produce sustained yields. 51% of the Visalia Planning Area is classified as Prime Farmland.
- ***Farmland of Statewide Importance*** has also been used for irrigated production in the four years prior to classification and is only slightly poorer quality than Prime Farmland. 11% of the Visalia Planning Area is classified as Farmland of Statewide Importance.
- ***Unique Farmland*** has been cropped in the four years prior to classification and does not meet the criteria for Prime Farmland or Farmland of Statewide Importance but has produced specific crops with high economic value. Less than 1% of the Visalia Planning Area is classified as Unique Farmland.
- ***Farmland of Local Importance*** encompasses farmland that does not meet the criteria for the previous three categories. These may lack irrigation, produce major crops, be zoned as agricultural, and/or support dairy. 2% of the Visalia Planning Area is classified as Farmland of Local Importance.

City of Visalia General Plan

The 2030 General Plan includes the policies related to agricultural resources that correlate to the proposed project:

- *LU-P-14*: Recognize the importance of agriculture-related business to the City and region, and support the continuation and development of agriculture and agriculture related enterprises in and around Visalia by:
  - Implementing growth boundaries and cooperating with the County on agricultural preservation efforts;
  - Accommodating agriculture-related industries in industrial districts;
  - Facilitating successful farmers' markets;
  - Helping to promote locally grown and produced agricultural goods, and the image of Visalia and Tulare County as an agricultural region.
- *LU-P-19*: Ensure that growth occurs in a compact and concentric fashion by implementing the General Plan's phased growth strategy.

- *LU-P-21*: Allow annexation and development of residential, commercial, and industrial land to occur within the Tier II UDB and the Tier III Urban Growth Boundary consistent with the City's Land Use Diagram, according to the stated phasing thresholds.
- *LU-P-30*: Maintain greenbelts, or agricultural/open space buffer areas, between Visalia and other communities by implementing growth boundaries and working with Tulare County and land developers to prevent premature urban growth north of the St. Johns River and in other sensitive locations within the timeframe of this General Plan.
- *LU-P-31*: Promote the preservation of permanent agricultural open space around the City by protecting viable agricultural operations and land within the City limits in the airport and wastewater treatment plant environs.
- *LU-P-32*: Continue to maintain a 20-acre minimum for parcel map proposals in areas designated for Agriculture to encourage viable agricultural operations in the Planning Area.
- *OSC-P-27*: To allow efficient cultivation, pest control and harvesting methods; require buffer and transition areas between urban development and adjoining or nearby agricultural land.
- *OSC-P-28*: Require new development to implement measures, as appropriate, to minimize soil erosion related to grading, site preparation, landscaping, and construction.

Tulare County General Plan

The 2030 Tulare County General Plan contains following goals related to agricultural resources that correlate to the proposed project:

- *AG-1.1*: The County shall maintain agriculture as the primary land use in the valley region of the County, not only in recognition of the economic importance of agriculture, but also in terms of agriculture's real contribution to the conservation of open space and natural resources.
- *AG-1.6*: The County shall consider developing an Agricultural Conservation Easement Program (ACEP) to help protect and preserve agricultural lands (including "Important Farmlands"), as defined in this Element. This program may require payment of an in-lieu fee sufficient to purchase a farmland conservation easement, farmland deed restriction, or other farmland conservation mechanism as a condition of approval for conservation of important agricultural land to non-agricultural use. If available, the ACEP shall be used for replacement lands determined to be of statewide significance (Prime or other Important Farmlands), or sensitive and necessary for the preservation of agricultural land, including land that may be a part of a community separator as part of a comprehensive program to establish community separators. The in-lieu fee or other conservation mechanism shall recognize the importance of land value and shall require equivalent mitigation.

- *AG-*1.7: The County shall promote the preservation of its agricultural economic base and open space resources through the implementation of resource management programs such as the Williamson Act, Rural Valley Lands Plan, Foothill Growth Management Plan or similar types of strategies and the identification of growth boundaries for all urban areas located in the County.
- *AG-1.8*: The County shall not approve applications for preserves or regular Williamson Act contracts on lands located within a UDB and/or HDB unless it is demonstrated that the restriction of such land will not detrimentally affect the growth of the community involved for the succeeding 10 years, that the property in question has special public values for open space, conservation, other comparable uses, or that the contract is consistent with the publicly desirable future use and control of the land in question. If proposed within a UDB of an incorporated city, the County shall give written notice to the affected city pursuant to Government Code §51233.
- *AG-1.10*: The County shall oppose extension of urban services, such as sewer lines, water lines, or other urban infrastructure, into areas designated for agriculture use unless necessary to resolve a public health situation. Where necessary to address a public health issue, services should be located in public rights-of-way in order to prevent interference with agricultural operations and to provide ease of access for operation and maintenance. Service capacity and length of lines should be designed to prevent the conversion of agricultural lands into urban/suburban uses.
- *AG-1.11*: The County shall examine the feasibility of employing agricultural buffers between agricultural and non-agricultural uses, and along the edges of UDBs and HDBs. Considering factors include the type of operation and chemicals used for spraying, building orientation, planting of trees for screening, location of existing and future rights-of-way (roads, railroads, canals, power lines, etc.), and unique site conditions.
- *LU-1.8*: The County shall encourage and provide incentives for infill development to occur in communities and hamlets within or adjacent to existing development in order to maximize the use of land within existing urban areas, minimize the conversion of existing agricultural land, and minimize environmental concerns associated with new development.
- *LU-2.1*: The County shall maintain agriculturally-designated areas for agriculture use by directing urban development away from valuable agricultural lands to cities, unincorporated communities, hamlets, and planned community areas where public facilities and infrastructure are available.
- *PF-1.2*: The County shall ensure that urban development only takes place in the following areas:
    - Within incorporated cities and CACUDBs
    - Within the UDBs of adjacent cities in other counties, unincorporated communities, planned community areas, and HDBs of hamlets

  - Within foothill development corridors as determined by procedures set forth in Foothill Growth Management Plan
  - Within areas set aside for urban use in the Mountain Framework Plan and the mountain sub-area plans; and
  - Within other areas suited for non-agricultural development, as determined by the procedures set forth in the Rural Valley Lands Plan.
- *PF-1.3*: The County shall encourage those types of urban land uses that benefit from urban services to develop within UDBs and HDBs. Permanent uses which do not benefit from urban services shall be discouraged within these areas. This shall not apply to agricultural or agricultural support uses, including the cultivation of land or other uses accessory to the cultivation of land provided that such accessory uses are time-limited through Special Use Permit procedures.
- *PF-1.4*: The County shall encourage urban development to locate in existing UDBs and HDBs where infrastructure is available or may be established in conjunction with development. The County shall ensure that development does not occur unless adequate infrastructure is available, that sufficient water supplies are available or can be made available, and that there are adequate provisions for long term management and maintenance of infrastructure and identified water supplies.

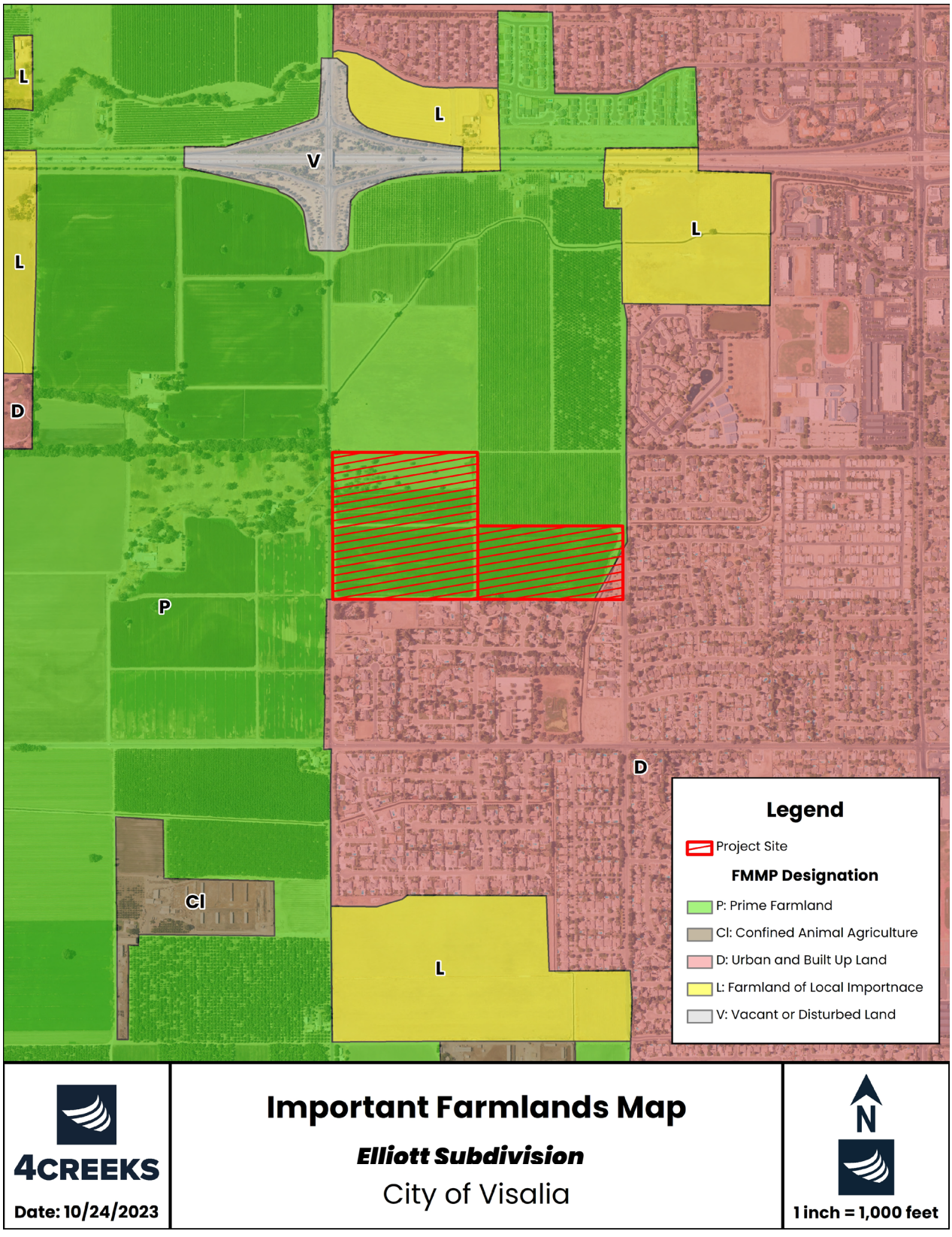


Figure 3-3: Important Farmlands Map

Discussion

a) Would the Project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

Less Than Significant Impact: The Project Site is currently occupied by agricultural land with field crops. Implementation of the proposed Project would result in the permanent conversion of approximately 57.82 acres of Prime Farmland to non-agricultural uses.

The loss of Prime Farmland on the Project Site would result in the decrease of Important Farmland inventory in Visalia Planning Area. Visalia Planning Area currently has an Important Farmland inventory of 43,155 acres, 33,991 acres of which were categorized as Prime Farmland. Implementation of the Project would convert 57.82 acres of Prime Farmland, which would result in a 0.13 percent decrease in the total Important Farmland inventory of Visalia Planning Area and a 0.17 percent decrease in the Prime Farmland inventory.

As shown in Table 3-1, the Visalia 2030 General Plan (at full buildout) plans to develop 14,265 total acres of Important Farmland, of which 12,490 acres are Prime Farmland. Most of the growth is planned to be adjacent to urbanized areas, which is much less disruptive to other agricultural uses countywide because it discourages the development of new rural neighborhoods or communities that would require the extension of infrastructure that would create growth-inducing impacts and potentially greater impacts to agricultural resources.

FMMP Designation	Existing Planning Area Total (Acres)	Planning Area Total at General Plan Buildout (Acres)	Change
Prime Farmland	33,991	21,501	-12,490 (-37%)
Farmland of Statewide Importance	7,353	6,954	-399 (-5%)
Unique Farmland	181	137	-44 (-24%)
Farmland of Local Importance	1,630	298	-1,333 (-82%)
Important Farmland Total	**43,155**	**28,890**	**-14,265 (-33%)**

Table 3-1: Important Farmland Developed Under 2030 General Plan. Source: Visalia Planning Area General Plan EIR

Although the proposed Site is located on Prime Farmland, the development is in accordance with the 2030 General Plan. The Site is within the Tier 2 Development Boundary and is designated as Low Density Residential by the General Plan. The Project will follow all existing and proposed 2030 General Plan policies to reduce potential impacts.

However, following *Visalia Municipal Code Chapter 18.04*: *Agricultural Land Preservation Program,* the Project will be required to preserve 43.11 acres of Prime Farmland or Farmland of Statewide Importance. This is detailed in the Agricultural Mitigation Memo (Appendix E). The developer will acquire a minimum of 47.35 acres of Prime Farmland or Farmland of Statewide Importance. This land will be located in the southern San Joaquin Valley, but outside of Visalia's Sphere of Influence. This farmland will be preserved for long-term agricultural uses. There is a *less than significant impact.*

b) Would the Project conflict with existing zoning for agricultural use, or a Williamson Act Contract?

Less Than Significant Impact: The Site is currently zoned for agriculture by Tulare County. However, it is within the Visalia Planning Area, Tier 2 Development Boundary and will be annexed by the City. It currently has a General Plan designation of Low Density Residential that would suit the proposed Project. The Project Site is not under a Williamson Act Contract. There is *a less than significant impact.*

c) Would the Project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned timberland Production (as defined by Government Code section 51104(g)?

No Impact: The Project Site is not zoned for forest or timberland production. Therefore, *no impacts* would occur.

d) Would the Project result in the loss of forestland or conversion of forest land to non-forest use?

No Impact: No conversion of forestland, as defined under Public Resource Code or General Code, will occur as a result of the Project and there would be *no impacts*.

e) Would the Project involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forestland to non-forest use?

Less Than Significant Impact: As discussed above, new development including the Project Site would be focused in and around existing communities. This would prevent new infrastructure from interfering with surrounding farmland. The Project does not include any features which could result in the conversion of forestland to non-forest use. There is a *less than significant impact.*

III. AIR QUALITY

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations. Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☑	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☑	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☑	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☑	☐

Environmental Setting

Air pollution is directly related to regional topography. Topographic features can either stimulate the movement of air or restrict air movement. California is divided into regional air basins based on topographic air drainage features. The proposed Project Site is within the San Joaquin Valley Air Basin, which is bordered by the Sierra Nevada Mountains to the East, Coastal Ranges to the West, and the Tehachapi Mountains to the South.

The mountain ranges surrounding the San Joaquin Valley Air Basin (SJVAB) serve to restrict air movement and prevent the dispersal of pollution. As a result, the SJVAB is highly susceptible to pollution accumulation over time. As shown in Table 3-2, the SJVAB is in nonattainment for several pollutant standards. The primary pollutants of concern in the San Joaquin Valley are ozone (O3) and PM10. Table 3-3 displays Ambient Air Quality Standards for California and Nationally.

Pollutant	Designation/Classification	
	Federal Standards	State Standards
Ozone – One hour	No Federal Standard[f]	Nonattainment/Severe
Ozone – Eight hour	Nonattainment/Extreme[e]	Nonattainment
PM 10	Attainment[c]	Nonattainment
PM 2.5	Nonattainment[d]	Nonattainment
Carbon Monoxide	Attainment/Unclassified	Attainment/Unclassified
Nitrogen Dioxide	Attainment/Unclassified	Attainment
Sulfur Dioxide	Attainment/Unclassified	Attainment
Lead (Particulate)	No Designation/Classification	Attainment
Hydrogen Sulfide	No Federal Standard	Unclassified
Sulfates	No Federal Standard	Attainment
Visibility Reducing Particles	No Federal Standard	Unclassified
Vinyl Chloride	No Federal Standard	Attainment

[a] See 40 CFR Part 81

[b] See CCR Title 17 Sections 60200-60210

[c] On September 25, 2008, EPA redesignated the San Joaquin Valley to attainment for the PM10 National Ambient Air Quality Standard (NAAQS) and approved the PM10 Maintenance Plan.

[d] The Valley is designated nonattainment for the 1997 PM2.5 NAAQS. EPA designated the Valley as nonattainment for the 2006 PM2.5 NAAQS on November 13, 2009 (effective December 14, 2009).

[e] Though the Valley was initially classified as serious nonattainment for the 1997 8-hour ozone standard, EPA approved Valley reclassification to extreme nonattainment in the Federal Register on May 5, 2010 (effective June 4, 2010).

[f] Effective June 15, 2005, the U.S. Environmental Protection Agency (EPA) revoked the federal 1-hour ozone standard, including associated designations and classifications. EPA had previously classified the SJVAB as extreme nonattainment for this standard. EPA approved the 2004 Extreme Ozone Attainment Demonstration Plan on March 8, 2010 (effective April 7, 2010). Many applicable requirements for extreme 1-hour ozone nonattainment areas continue to apply to the SJVAB.

Table 3-2. San Joaquin Valley Attainment Status; Source: SJVAPCD

Pollutant	Averaging Time	California Standards[1]		National Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
Ozone (03)	1 Hour	0.09 ppm (180 µg/m³)	Ultraviolet Photometry	--	Same as Primary Standard	Ultraviolet 8 Hour Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.075 ppm (147 µg/m³)		
Respirable Particulate Matter (PM_{10})	24 Hour	50 µg/m	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Annual Analysis
	Annual Arithmetic Mean	20 µg/m3		--		
Fine Particulate Matter ($PM_{2.5}$)	24 Hour		Gravimetric or Beta Attenuation	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Annual Analysis
	Annual Arithmetic Mean	12 µg/m³		15 µg/m³		
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	--	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	--	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		--	--	
Nitrogen Dioxide (NO_2) [8]	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	--	Gas Phase Annual Chemiluminescence
	Arithmetic Mean	0.030 ppm (57 µg/m³)		53 ppb (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	--	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	--		--	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas)9	--	
	Annual Arithmetic Mean	--		0.030 ppm (for certain areas)9	--	
Lead[10,11]	30 Day Average	1.5 µg/m³	Atomic Absorption	--	--	High Volume Sampler and Atomic Absorption
	Calendar Quarter	--		1.5 µg/m3 (for certain areas)11	Same as Primary Standard	
	Rolling 3-Month Average	--		0.15 µg/m³		
Visibility Reducing Particles[12]	8 Hour	See footnote 12	Beta Attenuation and Transmittance through Filter Tape	No National Standard		
Sulfates	24 Hour	25 µg/m³	Ion Chromatography			

Pollutant	Averaging Time	California Standards[1]		National Standards[2]		
		Concentration[3]	Method[4]	Primary[3,5]	Secondary[3,6]	Method[7]
Hydrogen Sulfide	1 Hour	0.03 ppm (42 μg/m³)	Ultraviolet Fluorescence			
Vinyl Chloride[10]	24 Hour	0.01 ppm (26 μg/m³)	Gas Chromatography			

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each Site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m3 is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
8. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each Site must not exceed 100 ppb. Note that the national standards are in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national standards to the California standards the units can be converted from ppb to ppm. In this case, the national standards of 53 ppb and 100 ppb are identical to 0.053 ppm and 0.100 ppm, respectively.
9. On June 2, 2010, a new 1-hour SO2 standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each Site must not exceed 75 ppb. The 1971 SO2 national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved. Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
10. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
11. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 μg/m3 as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
12. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Table 3-3. Ambient Air Quality Standards; Source: SJVAPCD, San Joaquin Valley Attainment Status

Valley Fever

Valley Fever is an illness caused by a fungus (*Coccidioides immitis* and *C. posadasii*) that grows in soils under certain conditions. Favorable conditions for the Valley Fever fungus include

low rainfall, high summer temperatures, and moderate winter temperatures. In California, the counties with the highest incident of Valley Fever are Fresno, Kern, and Kings counties. When soils are disturbed by wind or activities like construction and farming, Valley Fever fungal spores can become airborne. The spores present a potential health hazard when inhaled. Individuals in occupations such as construction, agriculture, and archaeology have a higher risk of exposure due to working in areas of disturbed soils which may have the Valley Fever fungus.

Regulatory Setting

Federal Clean Air Act

The 1977 Federal Clean Air Act (CAA) authorized the establishment of the National Ambient Air Quality Standards (NAAQS) and set deadlines for their attainment. The Clean Air Act identifies specific emission reduction goals, requires both a demonstration of reasonable further progress and an attainment demonstration, and incorporates more stringent sanctions for failure to meet interim milestones. The U.S. EPA is the federal agency charged with administering the Act and other air quality-related legislation. EPA's principal functions include setting NAAQS; establishing minimum national emission limits for major sources of pollution; and promulgating regulations. Under CAA, the NCCAB is identified as an attainment area for all pollutants.

Nonroad Diesel Rule

The EPA established a series of increasingly strict emission standards for new offroad diesel equipment, onroad diesel trucks, and harbor craft. New construction equipment used for the project, including heavy duty trucks, off-road construction equipment, and tugboats will be required to comply with the emission standards.

California Clean Air Act

California Air Resources Board coordinates and oversees both state and federal air pollution control programs in California. As part of this responsibility, California Air Resources Board monitors existing air quality, establishes California Ambient Air Quality Standards, and limits allowable emissions from vehicular sources. Regulatory authority within established air basins is provided by air pollution control and management districts, which control stationary-source and most categories of area-source emissions and develop regional air quality plans. The Project is located within the jurisdiction of the San Joaquin Valley Air Pollution Control District.

The state and federal standards for the criteria pollutants are presented in Section 8.4 of The San Joaquin Valley Unified Air Pollution Control District's 2015 "Guidance for Assessing and Mitigating Air Quality Impacts". These standards are designed to protect public health and welfare. The "primary" standards have been established to protect the public health. The "secondary" standards are intended to protect the nation's welfare and account for air pollutant effects on soils, water, visibility, materials, vegetation, and other aspects of general

welfare. The U.S. EPA revoked the national 1-hour ozone standard on June 15, 2005, and the annual PM_{10} standard on September 21, 2006, when a new $PM_{2.5}$ 24-hour standard was established.

State Tailpipe Emission Standards

To reduce emissions from off-road diesel equipment, onroad diesel trucks, and harbor craft, ARB established a series of increasingly strict emission standards for new engines. New construction equipment used for the project, including heavy duty trucks, off-road construction equipment, tugboats, and barges, will be required to comply with the standards

San Joaquin Valley Air Pollution Control District (SJVAPCD)

The SJVAPCD is responsible for enforcing air quality standards in the Project area. To meet state and federal air quality objectives, the SJVAPCD adopted the following thresholds of significance for projects, as shown in Table 3-4.

Pollutant/Precursor	Construction Emissions	Operational Emissions	
		Permitted Equipment and Activities	Non-Permitted Equipment and Activities
	Emissions (tpy)	Emissions (tpy)	Emissions (tpy)
CO	100	100	100
Nox	10	10	10
ROG	10	10	10
SOx	27	27	27
PM10	15	15	15
PM2.5	15	15	15

Table 3-4. SJVAPCD Thresholds of Significance for Criteria Pollutants; Source: SJVAPCD, Recommended Thresholds of Significant Impact

The following SJVAPCD rules and regulations may apply to the proposed project:

- **Rule 3135:** Dust Control Plan Fee. All projects which include construction, demolition, excavation, extraction, and/or other earth-moving activities as defined by Regulation VIII (Described below) are required to submit a Dust Control Plan and required fees to mitigate impacts related to dust.
- **Rule 4101:** Visible Emissions. District Rule 4101 prohibits visible emissions of air contaminants that are dark in color and/or have the potential to obstruct visibility.
- **Rule 9510:** Indirect Source Review (ISR). This rule reduces the impact of PM10 and NOX emissions from growth on the SJVB. This rule places application and emission reduction requirements on applicable development projects to reduce emissions through on-site mitigation, off-site SJVAPCD-administered projects, or a combination of the two. This Project will submit an Air Impact Assessment (AIA) application following Rule 9510's requirements.
- **Regulation VIII:** Fugitive PM10 Prohibitions. Regulation VIII is composed of eight rules which together aim to limit PM10 emissions by reducing fugitive dust. These rules contain required management practices to limit PM10 emissions during construction, demolition, excavation, extraction, and/or other earth-moving activities.

City of Visalia General Plan

The 2030 General Plan includes the policies related to air quality that correlate to the proposed project:

- *AQ-P-2*: Require use of Best Management Practices (BMPs) to reduce particulate emission as a condition of approval for all subdivisions, development plans, and grading permits, in conformance with the San Joaquin Valley Air Pollution Control District Fugitive Dust Rule.
- *AQ-P-3*: Support implementation of the San Joaquin Valley Air Pollution Control District's regulations on the use of wood-burning fireplaces, as well as their regulations for the installation of EPA-certified wood heaters or approved woodburning appliances in new residential development and a "No Burn" policy on days when the air quality is poor.
- *AQ-P-9*: Continue to mitigate short-term construction impacts and long-term stationary source impacts on air quality on a case-by-case basis and continue to assess air quality impacts through environmental review. Require developers to implement Best Management Practices (BMPs) to reduce air pollutant emissions associated with the construction and operation of development projects.

Discussion

a) Would the Project conflict with or obstruct implementation of the applicable air quality plan?

No Impact: The proposed Project is located within the boundaries of the San Joaquin Valley Air Pollution Control District (SJVAPCD) and would result in air pollutant emissions that are regulated by the air district during both its construction and operational phases. The SJVAPCD is responsible for bringing air quality in the Visalia Planning Area into compliance with federal and state air quality standards. The Air District has Particulate Matter (PM) plans, Ozone Plans, and Carbon Monoxide Plans that serve as the clean air plan for the basin.

Together, these plans quantify the required emission reductions to meet federal and state air quality standards and provide strategies to meet these standards. The SJVAPCD adopted the Indirect Source Review (ISR) Rule to fulfill the District's emission reduction commitments in its PM10 and Ozone (NOx) attainment plans and has since determined that implementation and compliance with ISR would reduce the cumulative PM10 and NOx impacts anticipated in the air quality plans to a less than significant level.

Construction Phase: Project construction would generate pollutant emissions from the following construction activities: site preparation, grading, building construction, application of architectural coatings, and paving. The construction-related emissions from these activities were calculated using CalEEMod. The full CalEEMod report can be

found in Appendix A. As shown in Table 3-5 below, Project construction-related emissions do not exceed the thresholds established by the SJVAPCD.

	CO (tpy)	ROG (tpy)	SOx (tpy)*	Nox (tpy)	PM10 (tpy)	PM2.5 (tpy)
Emissions Generated from Project Construction	**2.85**	**3.80**	**.0063**	**2.71**	**0.92**	**0.44**
SJVAPCD Air Quality Thresholds of Significance	**100**	**10**	**27**	**10**	**15**	**15**
*Threshold established by SJVAPCD for SOx, however emissions are reported as SO2 by CalEEMod.						

Table 3-5. Projected Project Emissions Compared to SJVAPCD Thresholds of Significance for Criteria Pollutants related to Construction; Source: SJVAPCD, CalEEMod (v. 2020.4.0) Analysis (Appendix A)

Operational Phase: Implementation of the proposed Project would result in long-term emissions associated with area sources, such as natural gas consumption, landscaping, applications of architectural coatings, and consumer products, as well as mobile vehicle emissions. Operational emissions from these factors were calculated using CalEEMod. The full CalEEMod report can be found in Appendix A. As shown in Table 3-6 below, the project's operational emissions do not exceed the thresholds established by the SJVAPCD.

	CO (tpy)	ROG (tpy)	SOx (tpy)*	Nox (tpy)	PM10 (tpy)	PM2.5 (tpy)
Operational Emissions (Dry Years)	**9.30**	**2.83**	**0.021**	**1.57**	**2.25**	**0.64**
SJVAPCD Air Quality Thresholds of Significance	**100**	**10**	**27**	**10**	**15**	**15**
*Threshold established by SJVAPCD for SOx, however, emissions are reported as SO2 by CalEEMod.						

Table 3-6. Projected Project Emissions Compared to SJVAPCD Thresholds of Significance for Criteria Pollutants related to Operations; Source: SJVAPCD, CalEEMod (v. 2020.4.0) Analysis (Appendix A)

Because the emissions from both the construction and operation of the proposed Project would be below the thresholds of significance established by the SJVAPCD, the

Project would not conflict with or obstruct the implementation of an applicable air quality plan and there is a *less than significant impact.*

b) Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?

Less Than Significant Impact: The SJVAPCD is responsible for bringing air quality in the Visalia Planning Area into compliance with federal and state air quality standards. The significance thresholds and rules developed by the SJVAPCD are designed to prevent projects from violating air quality standards or significantly contributing to existing air quality violations. As discussed above, neither construction-related emissions nor operation-related emissions will exceed thresholds established by the SJVAPCD. The Project will comply with all applicable SJVAPCD rules and regulations, which will further reduce the potential for any significant impacts related to air quality as a result of the Project implementation. Because these thresholds and regulations are designed to achieve and/or maintain federal and state air quality standards, and the Project is compliant with these thresholds and regulations, the Project will not violate an air quality standard or significantly contribute to an existing air quality violation. The impact is *less than significant.*

c) Would the Project expose sensitive receptors to substantial pollutant concentrations?

Less than Significant Impact: The single-family residences located to the south and east are the closest sensitive receptors. The Project does not include any Project components identified by the California Air Resources Board that could potentially impact any sensitive receptors. These include heavily traveled roads, distribution centers, fueling stations, and dry-cleaning operations. The Project would not expose sensitive receptors to substantial pollutant concentrations. The impact would be *less than significant.*

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less Than Significant Impact: The Project will create temporary localized odors during Project construction. The proposed Project will not introduce conflicting land use (surrounding land includes residential neighborhoods) to the area and will not have any component that would typically emit odors. The Project would not create objectionable odors affecting a substantial number of people. Therefore, impacts would be *less than significant.*

IV. BIOLOGICAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish & Game or U.S. fish and Wildlife Service?	☐	☑	☐	☐
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	☐	☐	☑	☐
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through director removal, filling, hydrological interruption, or other means?	☐	☐	☐	☑
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☑	☐
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	☐	☑	☐	☐
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☑

Discussion for this section originates from the Biological Resource Assessment that was prepared for this project by Soar Environmental Consulting to identify biological resources present or potentially present on the project site and assess the significance of project impacts on such resources per provisions of the California Environmental Quality Act (CEQA), the Federal Clean Water Act (CWA), the state and federal endangered species acts (FESA and CESA respectively), California Fish and Game Code, and California Water Code. The research included the California Natural Diversity Database (CNDDB), the United States Fish and Wildlife

Service (USFWS) Information for Planning and Consultation (IPaC), and the California Native Plant Society (CNPS) Online Rare Plant Inventory. The full document can be found in Appendix B.

Environmental Setting

The Project Site is in the western portion of the Visalia Planning Area within the lower San Joaquin Valley, in the Central Valley of California. The Central Valley is bordered to the east by the Sierra Nevada Mountain Range to the east and the Coast Ranges to the west. Like most of California, Visalia is considered a Mediterranean climate.

Warm, dry summers are followed by cool, moist winters. Summer temperatures often reach above 90 degrees Fahrenheit, and the humidity is relatively low. Winter temperatures are often below 60 degrees Fahrenheit during the day and rarely exceed 70 degrees. On average, Visalia receives approximately 11 inches of precipitation in the form of rainfall yearly, most of which occurs between October and March.

Site Description

The topography of the Project Area is relatively flat with a very gradual west facing slope at approximately 305 feet elevation in the eastern property and 301 feet elevation on the western edge of the property. The entire property had been disced and is composed of approximately 49 acres of active agricultural land, 5 acres of regularly maintained valley oak (Quercus lobata) woodland, and 5 acres of grassland. The proposed Project Site is in an urban and agricultural interface environment just outside the western boundary of the City of Visalia. The proposed Project Site is bounded by agricultural fields to the north and east, with single-family homes to the south. A large open grassland field property borders the northern edge, and a large ranch-style residential property with open valley oak woodland occurs along the western edge.

One small, unvegetated open water canal extends north to south at the southeastern edge of the site. Another open water channel is approximately 40 yards outside the northwest corner, west of Shirk Road and drains westward across the wooded ranch property outside the Project Area. These canals are maintained with no vegetation in the channels. The southern canal that occurs within the Project Area is proposed to be turned into an open space park. The canal near the northwest corner is outside of the Project Area. No potentially jurisdictional waters or wetland features occur within the proposed Project Area. There were no signs of pooling water, vernal pool habitat or seasonal wetlands during the focused field survey. The area is active agricultural land or is actively maintained and disced. There are no structures on the property. While no shrub layer occurs on the property, there is a stand of valley oak woodland in the northwest corner that has approximately 31 valley oak trees and other oak saplings. One of these trees is approximately 30" diameter-at-breast height (dbh), however, most of the valley oak trees are between 12" to 24" dbh, respectively. One other large valley oak tree occurs near

the middle of the Project Area along the southern edge. This oak tree would be considered a heritage valley oak, is greater than 36" dbh, and is a multi-trunked tree. The oak trees provide limited nesting and foraging habitat for birds and wildlife; however, the uncultivated grassland and agricultural land represent potential foraging habitat for terrestrial bird and wildlife species.

Prior to performing the Habitat Assessment, Soar Environmental conducted a records search for threatened or endangered species that could potentially occur in the vicinity of the Project Area. The records search included a review of the California Natural Diversity Database (CNDDB), the United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), and California Native Plant Society (CNPS) Online Rare Plant Inventory. A full list of special-status wildlife and vascular plant species with the potential to occur in the Project Area is included below in Table 3-7.

No special-status plant species and one sensitive wildlife species were observed during the site reconnaissance. Nuttall's woodpecker is a species covered by the Migratory Bird Treaty Act (MBTA) and a CDFW bird species of concern. Several other bird species were observed flying and perched on oak trees in the area including red-tail hawk (Buteo jamaicensis). While no other special status species were observed, the Project Area contains potentially suitable habitat for the following species:

Species Name	Species Observed on Project Site?	Potential for Occurrence on Project Site
Amphibians		
Western spadefoot toad (*Spea hammondii*)	No	**Low:** Species is known to occur within 2 miles of the Project Area and there is no breeding habitat and limited upland dispersal habitat for the species in the Project Area.
California tiger salamander (*Ambystoma californiense*)	No	**Low:** Species is not known to occur in the vicinity of the site and there is limited potential estivating habitat for the species in the oak woodland and grassland on the site.
Birds		
Oak titmouse (*Baeolophus inornatus*)	No	**Low.** Limited potential nesting and foraging habitat in the Project Area.
Nuttall's woodpecker (*Dryobates nuttallii*)	Yes	**Present.** Species observed foraging in Project Area during survey. Limited potential nesting and abundant foraging habitat in the Project Area.

Swainson's hawk (*Buteo swainsoni*)	No	**High:** Species known to occur from nine CNDDB records within 5 miles west of Project Area. The closest previous record is one mile west. There is limited nesting and abundant foraging habitat in the Project Area.
Tricolored blackbird (*Agelaius tricolor*)	No	**None:** Species is not known to occur in the vicinity of the site and there is no suitable habitat for the species on the site.
Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*)	No	**Low:** Species is not known to occur in the vicinity of the site and there is limited suitable habitat for the species on the site.
Invertebrates		
Monarch butterfly (*Danaus plexippus*)	No	**None:** Species is not known to occur in the vicinity of the site and there is no suitable habitat or milkweed host plants for the species on the site.
Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*)	No	**None:** Species is not known to occur in the vicinity of the site and there is no suitable habitat for the species in the form of elderberry shrubs on the site.
Vernal pool fairy shrimp (*Branchinecta lynchi*)	No	**None:** Species is not known to occur in the vicinity of the site and there is no suitable habitat for the species on the site.
Vernal pool tadpole shrimp *(Lepidurus packardi)*	No	**None:** Species is not known to occur in the vicinity of the site and there is no suitable habitat for the species on the site.
Mammals		
Fresno kangaroo rat (*Dipodomys nitratoides exilis*)	No	**None:** Species is not known to occur in the vicinity of the site and there is no suitable habitat for the species on the site.
San Joaquin kit fox (*Vulpes macrotis mutica*)	No	**Low:** Species is not known to occur in the vicinity of the site and there is limited potential suitable dispersal and foraging habitat for the species in the Project Area.
Tipton kangaroo rat (*Dipodomys nitratoides nitratoides*)	No	**None:** Species is not known to occur in the vicinity of the site and there is no suitable habitat for the species on the site.
Western mastiff bat (*Eumops perotis californicus*)	No	**Low:** Limited oak woodland roosting and moderate grassland foraging habitat for this species in the Project Area. The area is heavily farmed and maintained. Species is known from one record 2 miles southeast of Project Area.

Reptiles		
Blunt-nosed leopard lizard (*Gambelia sila*)	No	**None:** Species is not known to occur in the vicinity of the site and there is no suitable habitat for the Species in the Project Area.
Western pond turtle (*Actinemys marmorata*)	No	**Low:** Low quality potential habitat in the form of an open water unvegetated canal on the eastern edge and another just offsite to the northwest leave potential for this species to occur nearby. One historic occurrence of the species is known from four miles east of Project Area.
Plant Species Name	**Species Observed in Project Area**	**Potential For Occurrence in Project Area**
California jewelflower (*Caulanthus californicus*)	No	**Low.** The Project Area is active agricultural land and limited maintained grassland and oak woodland that is disced annually.
Ewan's larkspur (*Delphinium hanseni* ssp. *ewanianum*)	No	**Low.** The Project Area is active agricultural land and limited maintained grassland and oak woodland that is disced annually.
Recurved larkspur (*Delphinium recurvatum*)	No	**Low.** The Project Area is active agricultural land and limited maintained grassland and oak woodland that is disced annually.
Heartscale (*Atriplex cordulata* ssp. *cordulata*)	No	**Low.** The Project Area is active agricultural land and limited maintained grassland and oak woodland that is disced annually.
Lesser saltscale (*Atriplex minuscula*)	No	**Low.** The Project Area is active agricultural land and limited maintained grassland and oak woodland that is disced annually.
Subtle orache (*Atriplex subtilis*)	No	**Low.** The Project Area is active agricultural land and limited maintained grassland and oak woodland that is disced annually.

Table 3-7: Special Status Species Potentially on Project Site

Regulatory Setting

Federal Endangered Species Act (FESA): defines an endangered species as "any species or subspecies that is in danger of extinction throughout all or a significant portion of its range." A threatened species is defined as "any species or subspecies that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range."

The Federal Migratory Bird Treaty Act (FMBTA: 16 USC 703-712): FMBTA prohibits killing, possessing, or trading in any bird species covered in one of four international conventions to which the United States is a party, except in accordance with regulations prescribed by the

Secretary of the Interior. The name of the act is misleading, as it actually covers almost all birds native to the United States, even those that are non-migratory. The FMBTA encompasses whole birds, parts of birds, and bird nests and eggs. Although the USFWS and its parent administration, the U.S. Department of the Interior, have traditionally interpreted the FMBTA as prohibiting incidental as well as intentional "take" of birds, a January 2018 legal opinion issued by the Department of the Interior now states that incidental take of migratory birds while engaging in otherwise lawful activities is permissible under the FMBTA. However, California Fish and Game Code makes it unlawful to take or possess any non-game bird covered by the FMBTA (Section 3513), as well as any other native non-game bird (Section 3800), even if incidental to lawful activities.

Birds of Prey (CA Fish and Game Code Section 3503.5): Birds of prey are protected in California under provisions of the Fish and Game Code (Section 3503.5), which states that it is unlawful to take, possess, or destroy any birds in the order Falconiformes (hawks and eagles) or Strigiformes (owls), as well as their nests and eggs. The bald eagle and golden eagle are afforded additional protection under the federal Bald and Golden Eagle Protection Act (16 USC 668), which makes it unlawful to kill birds or their eggs.

Clean Water Act: Section 404 of the Clean Water Act of (1972) is to maintain, restore, and enhance the physical, chemical, and biological integrity of the nation's waters. Under Section 404 of the Clean Water Act, the US Army Corps of Engineers (USACE) regulates discharges of dredged and fill materials into "waters of the United States" (jurisdictional waters). Waters of the US including navigable waters of the United States, interstate waters, tidally influenced waters, and all other waters where the use, degradation, or destruction of the waters could affect interstate or foreign commerce, tributaries to any of these waters, and wetlands that meet any of these criteria or that are adjacent to any of these waters or their tributaries.

California Endangered Species Act (CESA): prohibits the take of any state-listed threatened and endangered species. CESA defines take as "any action or attempt to hunt, pursue, catch, capture, or kill any listed species." If the proposed project results in a take of a listed species, a permit pursuant to Section 2080 of CESA is required from the CDFG.

City of Visalia Oak Tree Ordinance: The City of Visalia has an oak tree ordinance that protects valley oak trees with a diameter at breast height (dbh) of 2 inches or greater. Under this ordinance, removal, or encroachment within the drip-line of or damage to valley oak trees is prohibited. Removal requires a permit from the city manager and mitigation either by replacement in-kind or payment of an in-lieu fee to be used for oak tree planting.

City of Visalia General Plan: The 2030 Visalia General Plan contains the following policies related to the preservation of biological resources that may be considered relevant to the proposed Project's environmental review:

- *OSC-P-8*: Protect, restore, and enhance a continuous corridor of native riparian vegetation along Planning Area waterways, including the St. Johns River; Mill, Packwood, and Cameron Creeks; and segments of other creeks and ditches where feasible, in conformance with the Parks and Open Space diagram of this General Plan.
- *OSC-P-19*: Establish easements or require dedication of land along waterways to protect natural habitat areas, allow maintenance operations and promote trails and bike paths.
- *OSC-P-26*: Establish Best Management Practices (BMPs) for control of invasive plant species where such plants could adversely impact wildlife habitat.
- *OSC-P-27*: Establish a "no net loss" standard for sensitive habitat acreage, including wetlands and vernal pools potentially affected by development.
- *OSC-P-30*: Require assessments of biological resources prior to approval of any discretionary development projects involving riparian habitat, wetlands, or special status species habitat. Early in the development review process, consult with California Department of Fish and Game, U.S. Fish and Wildlife Service, and other agencies.
- *OSC-P-31*: Protect and enhance habitat for special status species, designated under state and federal law. Require protection of sensitive habitat areas and special status species in new development in the following order: 1) avoidance; 2) onsite mitigation, and 3) offsite mitigation.

Discussion

a) Would the Project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish & Game or U.S. fish and Wildlife Service?

Less Than Significant Impact With Mitigation Incorporation: The Biological Resource Assessment (Appendix B) conducted for the proposed Project found that Swainson's hawk has a high potential to occur in the Project Area based on potential oak woodland nesting habitat, abundant foraging field and grassland habitat, and many previous CNDDB occurrences near the Project Area. Nuttall's woodpecker, a MBTA species and CDFW species of concern was observed foraging during the Habitat Assessment in the Project Area. San Joaquin kit fox, western yellow-billed cuckoo, western spadefoot toad, California tiger salamander, western mastiff bat, and western pond turtle have low potential to occur in the Project Area. While most of the Project Area is active agricultural land, the northwest portion of the Project Area includes approximately 5.6 acres of valley oak woodland and 4.4 acres of maintained annual grassland. This portion of the Project Area contains suitable potential habitat for these special-status species. Localized land management techniques including regular agricultural activity and routine land management for fire hazard abatement, such as discing, further reduces the potential for these species to occur in the proposed Project Area.

Based on the findings of the BRA, the proposed development of this property has the potential to impact nesting and foraging habitat for Swainson Hawk and other MBTA bird species, such as Nuttall's woodpecker, if any are found nesting in the trees within the Project Area. With incorporation of the Swainson Hawk and nesting bird mitigation measures below (Mitigation Measures BIO-1, BIO-1a, BIO-1b, BIO-1c), which include pre-construction nesting bird surveys and reporting, the proposed Project impacts to these species would be less than significant.

b) Would the Project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

Less Than Significant Impact: The Visalia General Plan identifies Grasslands, Valley Oak Riparian Woodland, Valley Oak Woodland, Vernal Pools, and Wetlands as natural communities to protect. The northwest portion of the Project Area has approximately 5.6 acres of Valley Oak Woodland. The Valley Oak Woodland has approximately 31 oak trees growing in it and may require an oak tree removal permit per the City of Visalia oak tree ordinance. If the oak trees are to be removed, the Project proponent pays the permit fees and requirements for the oak removal permit from the City for cutting and removing these trees to cover oak tree planting and establishment. The City of Visalia has an oak tree ordinance (Visalia Municipal Code Chapter 12.24) that protects valley oak trees with a

diameter at breast height (dbh) of 2 inches or greater. Under this ordinance, removal, or encroachment within the drip-line of or damage to valley oak trees is prohibited. Removal requires a permit from the city manager and mitigation either by replacement in-kind or payment of an in-lieu fee to be used for oak tree planting. Impacts would be *less than significant.*

c) Would the Project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through director removal, filling, hydrological interruption, or other means?

No Impact: An unvegetated maintained open water canal runs through the eastern portion of the site. However, the project would not affect the canal and leave a buffer surrounding the canal. No potentially jurisdictional wetlands occur in the Project Area. In regard to federally protected wetlands, the Project will have no impact.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less than Significant Impact: The proposed Project Area is primarily composed of cultivated agricultural lands surrounded by residential development and paved roads. Therefore, the proposed Project Area contains limited natural habitat that would be likely to function as a wildlife movement corridor. Due to the level of agricultural activity, residential development of the surrounding area, limited suitable undisturbed oak woodland and grassland habitat in the Project Area, and the occurrence of larger intact stands of valley oak woodland habitat immediately west of the Project Area, proposed Project impacts would be less than significant.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less Than Significant Impact: The proposed Project will result in the removal of approximately 32 valley oak (Quercus lobata) trees that are greater than 2" dbh. At least two of the valley oak trees on the property are greater than 24" dbh trees. One large approximately 36" dbh multi-trunk valley oak occurs in the middle of the property on the southern edge, while the remaining 31 valley oak trees are in the northwestern portion of the property. In the northern oak woodland stand, approximately 20 of the oak trees range from 12" to 24" dbh. One larger valley oak in this stand is approximately 30" dbh. The remaining 10 small oak trees range from 4" to 12" dbh. Removal of these oak trees would require an Oak Tree Permit. The City of Visalia has an oak tree ordinance (Visalia Municipal Code Chapter 12.24) that protects valley oak trees with a diameter at breast height (dbh) of 2 inches or greater. Under this ordinance, removal, or encroachment within the drip-line of or damage to valley oak trees is prohibited. Removal requires a permit from the city manager and mitigation either by replacement in-kind or payment of an in-lieu fee to be

used for oak tree planting. Visalia's ordinance protects valley oaks over 2 inches dbh, requiring a permit for removal and mandating replacement or a fee for tree planting. The impact would be *less than significant.*

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact: There are no known habitat conservation plans or Natural Community Conservation Plans (NCCP) in the proposed Project area. There would be *no impact.*

Mitigation Measures for Impacts to Biological Resources

Mitigation Measure BIO-1: Swainson's Hawk Nesting Habitat

If construction, grading, or Project-related improvements are to commence between March 1 and September 15, a focused survey for Swainson's hawk nests on the site and within ¼ mile of the site shall be conducted by a qualified biologist no later than 30 days prior to the start of construction work (including clearing and grubbing). If active nests are found, the California Fish and Wildlife shall be contacted to determine appropriate protective measures, and these measures shall be implemented prior to the start of any ground-disturbing activities. If no active nests are found during the focused survey, no further mitigation will be required.

Mitigation Measure BIO-1a: Nesting Bird and Roosting Bat Survey

If Project-related activities are scheduled between February 1 to August 31 (the typical nesting season), a focused survey for nests shall be conducted by a Designated Biologist within three (3) calendar days prior to the beginning of Project-related activities. The Designated Biologist shall survey a minimum radius of 500-feet for MBTA birds around the Project Area and for sign of roosting bats. If no active nests or roosts are found, project activities may proceed as scheduled.

Mitigation Measure BIO-1b: Active Nests or Roosts

If an active nest or roost is found, active nests should be avoided, and a no disturbance or destruction buffer shall be determined and established by a Designated Biologist through consultation with CDFW. A report will be prepared documenting any active nest(s) and CDFW will be contacted and consulted in order to approve an adequate buffer size for the species. The buffer shall be kept in place until after the breeding nesting season or the Designated Biologist confirms the young have fledged, are foraging independently, and the nest is no longer active for the season. The extent of these buffers shall be determined by CDFW and established by the Designated Biologist and will depend on the species present, the level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers.

Mitigation Measure BIO-1c: Project Delay

If a lapse in project-related work of fourteen (14) calendar days or longer occurs, the Designated Biologist shall complete another focused survey before Project work can be reinitiated.

V. CULTURAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	☐	☑	☐	☐
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☑	☐	☐
c) Disturb any human remains, including those interred outside of formal cemeteries?	☐	☑	☐	☐

A Phase 1 cultural resources assessment for the Elliott Property Subdivision was conducted by SOAR Environmental Consulting (Appendix C). The Project proposes to construct a 225-unit, low-density single-family development and a 4.15-acre park. The Project is subject to the California Environmental Quality Act (CEQA).

Environmental Setting

Penutian-speaking Yokuts tribal groups occupied the southern San Joaquin Valley region and much of the nearby Sierra Nevada. Yokuts villages apparently extended up to, but not into, the mouths of the canyons on the northern and western fronts of the Tehachapi Mountains, well into the foothills and lower elevations of the Sierra Nevada on the east, and to the crest of the Temblor Range on the west. The Yokuts are Penutian speakers and are linguistically related to northern occupants of the San Joaquin Valley. The Yokuts settlement pattern was largely consistent, regardless of the specific tribe involved. Winter villages were typically located along lakeshores and major stream courses (as these existed circa AD 1800), with dispersal phase family camps located at elevated spots on the valley floor and near gathering areas in the foothills. Throughout Native California, and Yokuts territory in general, the acorn was a primary dietary component, along with a variety of gathered seeds. Valley tribes augmented this resource with lacustrine and riverine foods, especially fish and wildfowl. Although population estimates vary and population size was greatly affected by the introduction of Euro-American diseases and social disruption, the Yokuts were one of the largest, most successful groups in Native California. Cook (1978) estimates that the Yokuts region contained 27 percent of the aboriginal population in the state at the time of contact; other estimates are even higher. Many Yokuts people continue to reside in the southern San Joaquin Valley today.

In California, the historic era is divided into three general periods: the Spanish or Mission Period (1769 to 1821), the Mexican or Rancho Period (1821 to 1848), and the American Period (1848 to present). The mission system, which ultimately established 21 missions between 1796 and 1822,

consisted of missions, presidios, and pueblos, and was designed to convert the indigenous peoples of California to Christianity and assimilate them under Spanish rule (Gudde 1998).
Visalia, then called Four Creeks, was settled in 1852. In this same year Tulare County was officially formed from parts of Mariposa County. In these early years Visalia was used as a supply center for the nearby gold mining operations along the Kern River. During this time Visalia's agricultural economy was based predominantly around livestock. The Southern Pacific Railroad constructed train tracks throughout the San Joaquin Valley, and with this a shift was triggered in Visalia's agricultural economy to one revolving around field crops. By 1874 Visalia was incorporated as a city in Tulare County. The next major economic change was brought about by the increased availability of irrigation water, resulting in the conversion of large grain fields to small farms, where citrus, grapes, olives, and deciduous fruits were raised. These crops are a mainstay of the region's economy today (City of Visalia, 2023).

Cultural Records Search

On October 13, 2023, Soar submitted a records search request to the Southern San Joaquin Valley Information Center (SSJVIC) located at the California State University, Bakersfield (Appendix A of Cultural Resources Assessment). The purpose of this request was to identify any prehistoric or historical resources on or near the Project Site that had been previously recorded within the Project boundary and a 0.5-mile radius of the Project area and identify and review prior cultural resource investigations completed in or near the Project boundary. SSJVIC staff researched historical USGS topographic maps, reports of previous cultural resource investigations, archaeological Site and survey base maps, cultural resource records (DPR forms) as well as listings of the Historic Properties Directory of the Office of Historic Preservation, General Land Office Maps, Archaeological Determinations of Eligibility, and the California Inventory of Historic Resources. The results from the records search indicate two (2) cultural resource studies have been conducted within the Project area. According to the information on file, there is one (1) resource within the Project area. There are two (2) recorded resources within the 0.5-mile record search radius. There were seven (7) reports identified within a 0.5-mile radius of the Project area. There are no recorded cultural resources within the Project area or radius that are listed in the National Register of Historic Places, the California Register of Historical Resources, the California Points of Historical Interest, California Inventory of Historic Resources, or the California State Historic Landmarks.

Native American Consultation

The State requires lead agencies to consider the potential effects of proposed projects and consult with California Native American tribes during the local planning process for the purpose of protecting Traditional Tribal Cultural Resources through the California Environmental Quality Act (CEQA) Guidelines. Pursuant to PRC Section 21080.3.1, the lead agency shall begin consultation with the California Native American tribe that is traditionally and culturally affiliated with the geographical area of the proposed project. Such significant cultural resources are either sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a tribe which is either on or eligible for inclusion in the California Historic Register or local historic register, or, the lead agency, at its discretion, and support by

substantial evidence, choose to treat the resources as a Tribal Cultural Resources (PRC Section 21074(a) (1-2)).

Additional information may also be available from the California Native American Heritage Commission's Sacred Lands File per PRC Section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that PRC Section 21082.3(c) contains provisions specific to confidentiality.

The site contains agricultural uses, vacant land, and an oak grove. If any artifacts are inadvertently discovered during ground-disturbing activities, existing federal, State, and local laws, and regulations as well as the mitigation measures will require construction activities to cease until such artifacts are properly examined and determined not to be of significance by a qualified cultural resource professional.

The California Native American Heritage Commission (NAHC) was contacted by SOAR Environmental Consulting on October 13, 2023, to conduct a Sacred Lands File (SLF) search, and to obtain a list of tribes culturally and geographically affiliated with the Project area (Appendix B of IS/MND Appendix C). On December 1st, 2023, the NAHC indicated there are no Native American traditional cultural places or sacred sites within or near the Project area. The NAHC provided a list of five (5) Tulare County Native American groups and individuals affiliated with the local tribes. On December 4th, 2023, Ms. Froshour sent letters to all individuals describing the location, and the nature of the project. In each letter, Ms. Froshour included a request for information regarding prehistoric, historic, ethnographic land use, as well as contemporary Native American values. Soar Environmental did not receive comments from the Tulare County Native American groups or affiliated individuals regarding the proposed development at the project location.

Following AB 52, Native American Tribes that could potentially be impacted by the Project were contacted. The Tribes that were formally noticed of this Project were:

- Big Sandy Rancheria of Western Mono Indians
- Dunlap Band of Mono Indians
- Kern Valley Indian Community
- Santa Rosa Rancheria Tachi Yokut Tribe
- Tubatulabals of Kern Valley
- Tule River Indian Tribe
- Wuksache Indian Tribe/Eshom Valley Band

The City did not receive any comments for this project.

Regulatory Setting

In this report "cultural resources" are defined as prehistoric or historical archaeological sites as well as historical objects, buildings, or structures. In accordance with 30 Code of Federal Regulations (CFR) §60.4, "historical" in this report applies to cultural resources which are at least 50 years old. The significance or importance of a cultural resource is dependent upon whether the resource qualifies for inclusion at the local or state level in the California Register of Historical Resources (CRHR), or at the federal level in the National Register of Historic Places (NRHP). Cultural resources that are determined to be eligible for inclusion in the CRHR are called "historical resources" (California Code of Regulations [CCR] 15064.5[a]). Under this statue the determination of eligibility is partially based on the consideration of the criteria of significance as defined in 14 CCR 15064.5(a)(3). Cultural resources eligible for inclusion in the NRHP are deemed "historic properties."

National Historic Preservation Act

The National Historic Preservation Act was adopted in 1966 to preserve historic and archeological sites in the United States. The Act created the National Register of Historic Places, the list of National Historic Landmarks, and the State Historic Preservation offices.

California Historic Register

The California Historic Register was developed as a program to identify, evaluate, register, and protect Historical Resources in California. Historical resources may include, but are not limited to, "any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically or archaeologically significant" (PRC §5020.1[j]). In addition, a resource included in a local register of historical resources or identified as significant in a local survey conducted in accordance with the state guidelines are also considered historic resources under California Public Resources Code (PRC) Section 5020.1.

According to CEQA guidelines §15064.5 (a)(3), criteria for listing on the California Register of Historical Resources includes the following:

- Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Is associated with the lives of persons important in our past.
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
- Has yielded, or may be likely to yield, information important in prehistory or history.

Protection of cultural resources within California is additionally regulated by PRC §5097.5, which prohibits destruction, defacing, or removal of any historic or prehistoric cultural features on land under the jurisdiction of State or local authorities.

City of Visalia General Plan

The 2030 General Plan includes the policies related to cultural resources that correlate to the proposed project:

- *LU-P-48*: Preserve established and distinctive neighborhoods throughout the City by maintaining appropriate zoning and development standards to achieve land use compatibility in terms of height, massing, and other characteristics; providing design guidelines for high-quality new development; supporting housing rehabilitation programs; and other means.
- *OSC-P-42*: Establish requirements to avoid potential impacts to sites suspected of being archeologically, paleontologically, or historically significant or of concern, by:
    - Requiring a records review for development proposed in areas that are considered archaeologically or paleontologically sensitive;
    - Determining the potential effects of development and construction on archaeological or paleontological resources (as required by CEQA);
    - Requiring pre-construction surveys and monitoring during any ground disturbance for all development in areas of historical and archaeological sensitivity (defined as areas identified according to the National Historic Preservation Act as part of the Section 106 process); and
    - Implementing appropriate measures to avoid the identified impacts, as conditions of Project approval.

Discussion

a) Would the Project cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?

Less Than Significant Impact with Mitigation: A records search was conducted on behalf of the Applicant from the SSJVIC of the CHRIS at California State University in Bakersfield, California, to determine if historical or archaeological sites had previously been recorded within the study area, if the Project area had been systematically surveyed by archaeologists prior to the initial study, and/or whether the region of the field Project was known to contain archaeological sites and to thereby be archaeologically sensitive.

According to the SSJVIC records search, there has been two previous cultural resource investigations within the Project area (TU-00041, TU-01190). From these two investigations, one historical resource has been identified in the Project area (P-54-002177). There has been seven reports conducted within a 0.5-mile radius of the Project area, and two recorded resources have been found within the 0.5-mile record search radius (P-54-003667, P-54-003670). The historical resource identified within the project area is the South Fork Persian Ditch, which is a nineteenth century earthenware irrigation ditch, which was constructed between the years 1854 and 1856 by farmers and other water users in the area.

After an analysis of the significance of the structure, SOAR determined that the South Fork Persian Ditch lacks significance and is not eligible for the National Register of Historic Places (NRHP).

Although cultural resources were identified on the site, the South Fork Ditch is not NRHP eligible, so no historic places will be affected. The Project is not located within any known historic districts or landscapes, and the construction would be limited to the 59.13-acre property and the 4.15-acre park, so no historically significant resources would be affected. However, the presence of remains or unanticipated cultural resources under the ground surface is possible. Implementation of Mitigation Measures CUL-1, CUL-2, CUL-3, and CUL-4 will ensure that impacts to this checklist item will be *less than significant with mitigation* incorporation.

b) Would the Project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?

Less Than Significant Impact with Mitigation: There are no known archaeological resources located within the Project area. Implementation of Mitigation Measures CUL-1 and CUL-2 will ensure that potential impact to unknown archeological resources will be *less than significant with mitigation* incorporation.

c) Would the Project disturb any human remains, including those interred outside of formal cemeteries?

Less Than Significant Impact with Mitigation: There are no known human remains buried in the Project vicinity. If human remains are unearthed during Project construction, there is a potential for a significant impact. As such, implementation of Mitigation Measure CUL-2 will ensure that impacts remain *less than significant with mitigation incorporation.*

Mitigation Measures for Impacts to Cultural Resources

Mitigation Measure CUL-1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City's Historic Preservation Ordinance.

If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA Guidelines, measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could

include avoidance or capping, incorporation of the Site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any historical artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.

Mitigation Measure CUL-2: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains. Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.

Mitigation Measure CUL-3: Prior to the start of construction, an archaeological firm shall be hired to conduct a pre-construction survey and submit a comprehensive report to the lead agency for review and approval prior to the start of construction. This report should document the findings of the pre-construction survey and include an assessment of the potential impacts of the proposed Project on any identified archaeological resources. The plan should outline specific measures that will be implemented, such as construction phasing, Site buffering, and artifact preservation, to protect the cultural resources, if any are discovered. To ensure compliance, the Project approval should require that the archaeological survey report and the associated plan be prepared by a qualified archaeologist and that the survey and monitoring activities be conducted in accordance with relevant state and federal regulations and best practices. By requiring a comprehensive archaeological survey report and a detailed mitigation plan, the lead agency can ensure that any impacts to archaeological resources are avoided or minimized to the fullest extent possible.

Mitigation Measure CUL-4: During any ground disturbing activities, an archaeological firm shall be hired to monitor the Project Site. The monitoring should be conducted by a qualified archaeologist with experience in the region and in compliance with relevant state and federal regulations and best practices. The monitoring should include regular Site

inspections to identify any archaeological resources that may have been uncovered during ground-disturbing activities. If any resources are identified, the monitoring should also include documentation, mapping, and analysis of the resources, as well as the development of a mitigation plan to address any potential impacts to the resources.

VI. ENERGY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?	☐	☐	☑	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☑

Environmental Setting

Southern California Edison (SCE) provides electricity services to the City of Visalia. SCE serves approximately 15 million people in a 50,000 square-mile area of Central, Coastal, and Southern California. SCE supplies electricity to its customers through a variety of renewable and nonrenewable sources. Table 3-8 below shows the proportion of each energy resource sold to California consumers by SCE in 2021 as compared to the statewide average.

Fuel Type		SCE Power Mix	California Power Mix
Coal		0%	3.0%
Large Hydroelectric		2.3%	9.2%
Natural Gas		22.3%	37.9%
Nuclear		9.2%	9.3%
Other (Oil/Petroleum Coke/Waste Heat)		0.2%	0.2%
Unspecified Sources of Power[1]		34.6%	6.8%
Eligible Renewables	Biomass	0.1%	2.3%
	Geothermal	5.7%	4.8%
	Small Hydro	0.5%	1.0%
	Solar	14.9%	14.2%
	Wind	10.2%	11.4%
	Total Eligible Renewable	**31.4%**	**33.6%**
1. "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources.			

Table 3-8. 2021 SCE and State power resources; Source: SCE; California Energy Commission

SCE also offers Green Rate Options, which allow consumers to indirectly purchase up to 100% of their energy from renewable sources. To accomplish this, SCE purchases the renewable energy necessary to meet the needs of Green Rate participants from solar renewable developers.

Southern California Gas Company (SoCalGas) provides natural gas services to the Project area. Natural gas is an energy source developed from fossil fuels composed primarily of methane (CH4). Approximately 45% of the natural gas burned in California is used for electricity generation, while 21% is consumed by the residential sector, 25% is consumed by the industrial sector, and 9% is consumed by the commercial sector.

Regulatory Setting

California Code of Regulations, Title 20

Title 20 of the California Code of Regulations establishes standards and requirements for appliance energy efficiency. The standards apply to a broad range of appliances sold in California.

California Code of Regulations, Title 24

Title 24 of the California Code of Regulations is a broad set of standards designed to address the energy efficiency of new and altered homes and commercial buildings. These standards regulate energy consumed for heating, cooling, ventilation, water heating, and lighting. Title 24 requirements are enforced locally by the City of Selma Building Department.

California Green Building Standards Code (CALGreen)

CalGreen is a mandatory green building code that sets minimum environmental standards for new buildings. It includes standards for volatile organic compound (VOC) emitting materials, water conservation, and construction waste recycling.

SB 100

SB 100, passed in 2018, set a deadline in 2045 for 100% of energy to be renewable. Additionally, by 2030, 60% of all energy must be renewable. California is targeting this goal through solar and other renewable sources.

AB 178

For California to meet its renewable goals, AB 178 was passed in 2018. AB 178 states that starting in 2020 all new low-rise residential buildings must be built with solar power.

City of Visalia General Plan

The 2030 General Plan includes the policies related to energy use that correlate to the proposed project:

- *T-P-41*: Integrate the bicycle transportation system into new development and infill redevelopment. Development shall provide short-term bicycle parking and long-term bicycle storage facilities, such as bicycle racks, stocks, and rental bicycle lockers. Development also shall provide safe and convenient bicycle and pedestrian access to high-activity land uses such as schools, parks, shopping, employment, and entertainment centers.
- *T-P-53*: Develop flexible parking requirements in the zoning ordinance for development proposals based on "best practices" and the proven potential to reduce parking demand.

Discussion

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?

Less Than Significant Impact: The proposed Project includes the construction and operation of single-family housing. During Project construction, there would be an increase in energy consumption related to worker trips and operation of construction equipment. This increase in energy use would be temporary and limited to the greatest extent possible through compliance with local, state, and federal regulations. Vehicle fuel consumption during Project construction was estimated based on the assumed construction schedule, vehicle trip lengths, and the number of workers per construction phase as provided by CalEEMod, and Year 2023 gasoline/diesel MPG factors provided by the EMFAC2017. To simplify the estimation process, it was assumed that all worker vehicles used gasoline as a fuel source and all vendor vehicles used diesel as a fuel source. Table 3-9, below, provides gasoline and diesel fuel used by construction and on-road sources during each phase of Project construction.

Construction Phase	# of Days	Daily Worker Trips[1]	Daily Vendor Trips[1]	Daily Hauling Trips[1]	Total Gasoline Fuel Use (gallons)[2]	Total Diesel Fuel Use (gallons)[2]
Site Preparation	40	18	0	0	7,799	0
Grading	110	20	0	0	33,871	0
Building Construction	1110	81	24	0	177,549	23,069
Paving	75	15	0	0	8,836	0
Architectural Coating	75	16	0	0	1,410	0
Total	**1410**	**N/A**	**N/A**	**N/A**	**229,465**	**23,069**

1. Data provided by CalEEMod (Appendix A)

Table 3-9. On-Road Mobile Fuel Use Generated by Construction Activities. Source: CalEEMod(v. 2020.4.0); EMFAC2014

While construction of the proposed Project will result in additional energy consumption, this energy use is not unnecessary or inefficient. This energy use is justified by the energy-efficient nature of the proposed Project and would be limited to the greatest extent possible through compliance with local, state, and federal regulations. Once construction is complete, the Project is expected to achieve net zero energy consumption. The proposed Project is subject to the California New Residential Zero Net Energy Action Plan 2015-2020. This plan establishes a goal for all residential buildings built after January 1, 2020, to be zero net energy. The California Energy Commission is responsible for the development and enforcement of specific strategies to achieve this goal. These strategies are implemented through Title 24, Part 6 of the California Building Code, which requires developers to include certain measures (including solar panels on all new residential buildings) to achieve required building efficiency standards.

Total Annual Operational VMT[1]	Annual Fuel Use (Gasoline)	Annual Fuel Use (Diesel)	Average MPG
5,889,125 Miles	**225,635 Gallons**	**25,324 Gallons**	**23.5**

1. Data Provided by CalEEMod

Table 3-10. On-Road Mobile Fuel Use Generated by Operational Activities. Source CalEEMod (v. 2020.4.0); EMFAC2014

During Project operations, the proposed Project is not anticipated to result in wasteful fuel consumption. This is due to the distance of the Project Site to the commercial, recreational, and other residential uses, resulting in less of a reliance on personal vehicles. Because construction-related energy use would be temporary and limited to

the greatest extent feasible through consistency with Federal, State, and local policies related to energy conservation, and operation of the Project will comply with all energy efficiency standards required under Title 24, Section 6, and these standards were specifically developed to achieve net zero energy for residential projects, it can be presumed that the Project will achieve net zero energy. The Project would not result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources. The impact is *less than significant.*

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

No Impact: The proposed Project will not conflict with or obstruct any state or local plans for renewable energy or energy efficiency. The proposed Project will comply with all state and local policies related to energy efficiency and there is *no impact*.

VII. GEOLOGY AND SOILS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:	☐	☐	☐	☑
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☐	☑
ii) Strong seismic ground shaking?	☐	☐	☐	☑
iii) Seismic-related ground failure, including liquefaction?	☐	☐	☐	☑
iv) Landslides?	☐	☐	☐	☑
b) Result in substantial soil erosion or the loss of topsoil?	☐	☐	☑	☐
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-Site landslide, lateral spreading, subsidence, liquefaction or collapse?	☐	☐	☐	☑
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct and indirect risks to life or property?	☐	☐	☐	☑
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☑
f) Directly or indirectly destroy a unique paleontological resource or Site or unique geologic feature?	☐	☑	☐	☐

Environmental Setting

Geologic Stability and Seismic Activity

- **Seismicity**

The Visalia Planning Area has no known major fault systems within its boundaries. There are small faults in the Southern San Joaquin Valley, approximately 30 miles away, though none of them are known to be active. The greatest potential for seismic activity in Visalia Planning Area is posed by the San Andreas Fault, approximately 75 miles away from the site, or the Owens Valley Fault Group, which is located approximately 125 miles away from the Project site.

- **Liquefaction**
  Liquefaction is a phenomenon whereby unconsolidated and/or near saturated soils lose cohesion and are converted to a fluid state as a result of severe vibratory motion. The relatively rapid loss of soil shear strength during strong earthquake shaking results in temporary, fluid-like behavior of the soil, which can result in landslides and lateral spreading. Soil liquefaction causes ground failure that can damage roads, pipelines, underground cables, and buildings with shallow foundations. Liquefaction hazards may exist in and around wetland areas and creeks, though soil types are generally too coarse or too high in clay content, and not likely to be subject to sufficient acceleration to cause liquefaction.

- **Landslides**
  Landslides refer to a wide variety of processes that result in the downward and outward movement of soil, rock, and vegetation under gravitational influence. Landslides are caused by both natural and human-induced changes in slope stability and often accompany other natural hazard events, such as floods, wildfire, or earthquake. Due to little elevation changes throughout the planning area, including the proposed Project site, it is considered a low landslide hazard area.

- **Subsidence**
  Land Subsidence refers to the vertical sinking of land because of either manmade or natural underground voids. Subsidence has occurred throughout the Central Valley because of groundwater, oil, and gas withdrawal. The Kaweah Subbasin that underlies the Planning Area is in an overdraft condition on an average long-term basis. According to the most recent Urban Water Management Plan (UWMP), groundwater elevations have declined up to 50 feet between 1990 and 2010. While groundwater recharge efforts are in progress, groundwater levels will continue to decline unless recharge is increased.

Soils Involved in Project

The proposed Project involves construction on two soil types. The properties of the soil are described briefly below:

- **Nord Fine Sandy Loam:** The Nord series consists of very deep, well drained soils that formed in mixed alluvium dominantly from granitic and sedimentary rocks and has

slopes of 0 to 2 percent. It is well drained; has negligible to low runoff; and has moderate permeability but is moderately slow in saline-sodic phases.

- **Akers, Saline Sodic:** The Akers series consists of very deep, well drained soils formed in alluvium derived from granitic rock. Akers soils are on terraces and has slopes of 0 to 2 percent. It is well drained; has negligible to low runoff; and has moderate permeability. Saline-sodic phases have moderately slow permeability.

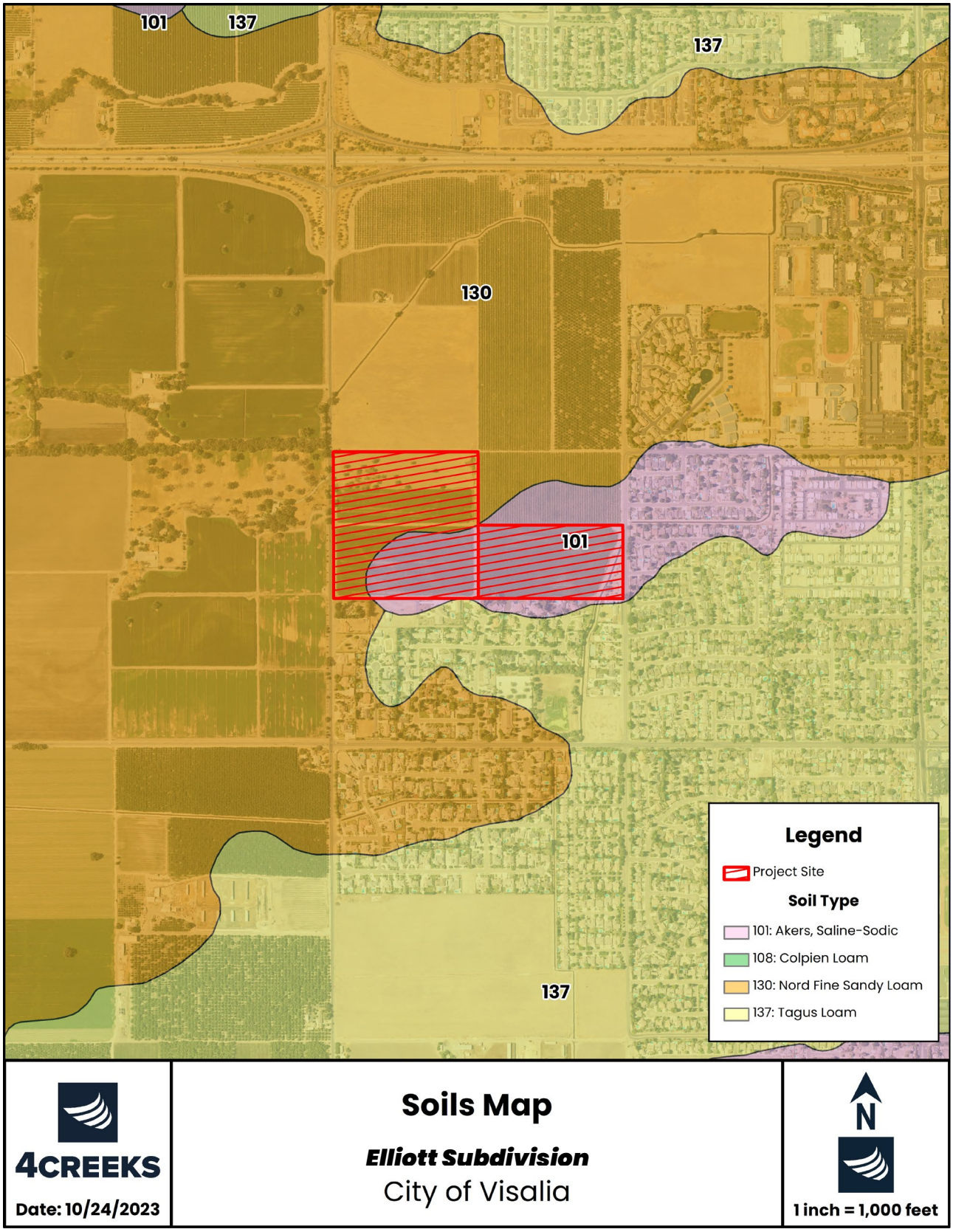


Figure 3-4: Soils Map

Regulatory Setting

California Building Code
The California Building Code (CBC) contains general building design and construction requirements relating to fire and life safety, structural safety, and access compliance. CBC provisions provide minimum standards to safeguard life or limb, health, property, and public welfare by regulating and controlling the design, construction, quality of materials, use and occupancy, location and maintenance of all buildings and structures, and certain equipment.

City of Visalia Municipal Code (California Building Code)
The City of Visalia Municipal Code has incorporated and adopted the CBC, 2013 Edition, as promulgated by the California Building Standards Commission, which incorporates the adoption of the 2012 edition of the International Building Code, as amended with necessary California amendments and the 2012 International Building Code of the International Code Council.

City of Visalia General Plan
The 2030 General Plan includes the policies related to geology and soils that correlate to the proposed project:

- *OSC-P-28*: Require new development to implement measures, as appropriate, to minimize soil erosion related to grading, Site preparation, landscaping, and construction.

Discussion

a) Would the Project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

No Impact: Although the Project is located in an area of relatively low seismic activity, the Project Site has a low chance of being affected by ground shaking from distant faults. The potential for strong seismic ground shaking on the Project Site is not a significant environmental concern due to the infrequent seismic activity of the area and the distance to the faults. The Project does not propose any components which could cause substantial adverse effects in the event of an earthquake. Additionally, the Project has no potential to indirectly or directly cause the rupture of an earthquake fault. Therefore, there is *no impact* related to the risk of loss, injury, or death involving a rupture of a known earthquake fault.

ii. Strong seismic ground shaking?

No Impact: The Project Site is in an area of low seismic activity. The proposed Project does not include any activities or components that could feasibly cause strong seismic ground shaking, either directly or indirectly. There is *no impact.*

iii. Seismic-related ground failure, including liquefaction?

No Impact: The risk of liquefaction within the planning area outside of wetland areas is low because the soil types are generally unsuitable for liquefaction. The area's low potential for seismic activity would further reduce the likelihood of liquefaction occurrence. Because the Project Site is within an area of low seismic activity, and the soils associated with the Project area are not suitable for liquefaction, there are *no impacts.*

iv. Landslides?

No Impact: The Planning Area of Visalia is considered at insignificant risk of small landslides. Additionally, the Project Site is generally flat and there are no hill slopes in the area. No geologic landforms exist on or near the Site that would result in a landslide event. As a result, there is a very low potential for landslides. There would be *no impact.*

b) Would the Project result in substantial soil erosion or the loss of topsoil?

Less Than Significant Impact: Because the Project Site is relatively flat, the potential for erosion is low. However, construction-related activities and increased impermeable surfaces can increase the probability of erosion to occur. Construction-related impacts related to erosion will be temporary and subject to best management practices (BMPs) required by SWPPP, which are developed to prevent significant impacts related to erosion from construction. Because impacts related to erosion would be temporary and limited to construction, and because required best management practices would prevent significant impacts related to erosion, the impact will remain *less than significant.*

c) Would the Project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-Site landslide, lateral spreading, subsidence, liquefaction or collapse?

No Impact: The soils associated with the Project Site are considered stable and have a low capacity for landslides, lateral spreading, subsidence, liquefaction, or collapse. Because the Project area is stable, and this Project would not result in a substantial grade change to the topography to the point that it would increase the risk of landslides, lateral spreading, subsidence, liquefaction, or collapse, there is *no impact.*

d) Would the Project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

No Impact: The proposed Project Site is not in an area with expansive soils. Because the soils associated with the Project do not exhibit shrink-swell behavior, implementation of the Project will pose no risk to life or property caused by expansive soils and there is *no impact.*

e) Would the Project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of waste water?

No Impact: The proposed Project would not include the use of septic tanks or any other alternative wastewater disposal systems. The proposed buildings will tie into Visalia's existing sewer services. Therefore, there would be *no impact.*

f) Would the Project directly or indirectly destroy a unique paleontological resource or Site or unique geologic feature?

Less Than Significant Impact with Mitigation: There are no unique geologic features and no known paleontological resources located within the Project area. However, there is always the possibility that paleontological resources may exist below the ground surface. Implementation of Mitigation Measures CUL-1 and CUL-2 will ensure that any impacts resulting from Project implementation remain less than significant with mitigation incorporation.

Mitigation Measures for Impacts to Geological Resources

Mitigation Measure CUL-1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City's Historic Preservation Ordinance.

If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA Guidelines, measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the Site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any historical artifacts recovered as a result of mitigation shall be provided to a City-

approved institution or person who is capable of providing long-term preservation to allow future scientific study.

Mitigation Measure CUL-2: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains. Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.

VIII. GREENHOUSE GAS EMISSIONS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☑	☐
a) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☐	☑

Environmental Setting

Natural processes and human activities emit greenhouse gases. The presence of GHGs in the atmosphere affects the earth's temperature. Without the natural heat-trapping effect of GHGs, the earth's surface would be about 34°C cooler. However, it is believed that emissions from human activities, such as electricity production and vehicle use, have elevated the concentration of these gases in the atmosphere beyond the level of naturally occurring concentrations.

The effect of greenhouse gases on the earth's temperature is equivalent to the way a greenhouse retains heat. Common GHGs include water vapor, carbon dioxide, methane, nitrous oxide, ozone, chlorofluorocarbons, hydrochlorofluorocarbons, hydro fluorocarbons, per fluorocarbons, sulfur, and hexafluoride. Some gases are more effective than others. The Global Warming Potential (GWP) has been calculated for each greenhouse gas to reflect how long it remains in the atmosphere, on average, and how strongly it absorbs energy. Gases with a higher GWP absorb more energy, per pound, than gases with a lower GWP, and thus contribute more to global warming. For example, one pound of methane is equivalent to twenty-one pounds of carbon dioxide.

GHGs as defined by AB 32 include the following gases: carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. GHGs as defined by AB 32 are summarized in Table 3-11. Each gas's effect on climate change depends on three main factors. The first is the quantity of these gases in the atmosphere, followed by how long they stay in the atmosphere, and finally how strongly they impact global temperatures.

Greenhouse Gas	Description and Physical Properties	Lifetime	GWP	Sources
Methane (CH4)	Is a flammable gas and is the main component of natural gas	12 years	21	Emitted during the production and transport of coal, natural gas, and oil. Methane emissions also result from livestock and other agricultural practices and by the decay of organic waste in municipal solid waste landfills.
Carbon dioxide (CO2)	An odorless, colorless, natural greenhouse gas.	30-95 years	1	Enters the atmosphere through burning fossil fuels (coal, natural gas, and oil), solid waste, trees and wood products, and also as a result of certain chemical reactions (e.g., manufacture of cement). Carbon dioxide is removed from the atmosphere (or "sequestered") when it is absorbed by plants as part of the biological carbon cycle.
Chloro-fluorocarbons	Gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. They are non-toxic nonflammable, insoluble and chemically unreactive in the troposphere (the level of air at the earth's surface).	55-140 years	3,800 to 8,100	Were synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. They destroy stratospheric ozone.
Hydro-fluorocarbons	A man-made greenhouse gas. It was developed to replace ozone-depleting gases found in a variety of appliances. Composed of a group of greenhouse gases containing carbon, chlorine an at least one hydrogen atom.	14 years	140 to 11,700	Powerful greenhouse gases that are emitted from a variety of industrial processes. Fluorinated gases are sometimes used as substitutes for stratospheric ozone-depleting substances. These gases are typically emitted in smaller quantities, but because they are potent greenhouse gases.

Greenhouse Gas	Description and Physical Properties	Lifetime	GWP	Sources
Nitrous oxide (N2O)	Commonly known as laughing gas, is a chemical compound with the formula N2O. It is an oxide of nitrogen. At room temperature, it is a colorless, non-flammable gas, with a slightly sweet odor and taste. It is used in surgery and dentistry for its anesthetic and analgesic effects.	120 years	310	Emitted during agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste.
Pre-fluorocarbons	Has a stable molecular structure and only breaks down by ultraviolet rays about 60 kilometers above Earth's surface.	50,000 years	6,500 to 9,200	Two main sources of pre-fluorocarbons are primary aluminum production and semiconductor manufacturing.
Sulfur hexafluoride	An inorganic, odorless, colorless, and nontoxic nonflammable gas.	3,200 years	23,900	This gas is manmade and used for insulation in electric power transmission equipment, in the magnesium industry, in semiconductor manufacturing and as a tracer gas.

Table 3-11. Greenhouse Gasses; Source: EPA, Intergovernmental Panel on Climate Change

Regarding the quantity of these gases in the atmosphere, we first must establish the amount of the particular gas in the air, known as Concentration, or abundance, which is measured in parts per million, parts per billion, and even parts per trillion**.** To put these measurements in more relatable terms, one part per million is equivalent to one drop of water diluted into about 13 gallons of water, roughly a full tank of gas in a compact car. Therefore, it can be assumed larger emissions of greenhouse gases lead to a higher concentration in the atmosphere.

Each of the designated gases described above can reside in the atmosphere for different amounts of time, ranging from a few years to thousands of years. All these gases remain in the atmosphere long enough to become well mixed, meaning that the amount that is measured in the atmosphere is roughly the same all over the world regardless of the source of the emission.

Regulatory Setting

AB 32

AB 32 set the 2020 greenhouse gas emissions reduction goal into law. It directed the California Air Resources Board to begin developing discrete early actions to reduce greenhouse gases while also preparing a scoping plan to identify how best to reach the 2020 limit. The reduction measures to meet the 2020 target are to be adopted by the start of 2011.

SB 1078, SB 107, and Executive Order S-14-08
SB 1078, SB 107, and Executive Order S-14-08 require California to generate 20% of its electricity from renewable energy by 2017. SB 107 then changed the 2017 deadline to 2020. Executive Order S-14-08 required that all retail sellers of electricity serve 33 percent of their load with renewable energy by 2020.

San Joaquin Valley Air Pollution Control District
SJVAPCD adopted a Climate Change Action Plan (CCAP) in August 2008. While the plan does not have regulatory powers, it directs SJVAPCD to develop guidance to assist District staff, valley businesses, land-use agencies, and other permitting agencies in addressing GHG emissions as part of the CEQA process.

City of Visalia Climate Action Plan (CAP)
Visalia's draft 2013 CAP includes a baseline GHG emissions inventory of municipal and community emissions, identification, and analysis of existing and proposed GHG reduction measures, and reduction targets to help Visalia work toward the State's goal of an 80 percent reduction below baseline emissions by 2050. The plan sets 2020 and 2030 reduction targets and includes reduction actions for energy, transportation, and waste and resource conservation.

City of Visalia Climate Change Initiatives
In January 2007, Visalia's mayor signed the "Cool Cities" pledge, part of the U.S. Mayors Climate Protection Agreement. By entering into this agreement, the City has adopted the goal of reducing citywide GHG emissions to 7% below 1990 levels by 2012. As detailed in the CAP, this goal was subsequently expanded in response to ARB's recommended reduction target of 15% below the 2005 baseline, and the City added a 2030 mitigation target to correlate with the 2030 General Plan Update and the goal of achieving an 80% reduction by 2050.

Discussion

a) Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less Than Significant Impact: The SJVAPCD does not provide numeric thresholds to assess the significance of greenhouse gas emissions. Instead, the SJVAPCD "Guidance for Valley Land Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA" states that projects that achieve a 29% GHG emission reduction compared to Business as Usual (BAU) would be determined to have a less than significant individual and cumulative impact for GHG. "Business as usual" (BAU) conditions are defined based on the year 2005 building energy efficiency, average vehicle emissions, and electricity energy conditions. The BAU conditions assume no improvements in energy efficiency, fuel efficiency, or

renewable energy generation beyond that existing today. The 2005 BAU conditions were estimated using CalEEMod.

Implementation of the proposed Project would result in long-term greenhouse gas emissions associated with area sources, such as natural gas consumption, landscaping, applications of architectural coatings, and consumer products, as well as mobile emissions. The GHG emissions were estimated using CalEEMod (Appendix A).

	C02 (MT/Year)	CH4 (MT/Year)	N20 (MT/Year)	CO2e (MT/Year)
2005 BAU	3,687	3.72	0.364	3,889
Operational Emissions	2,477	3.37	0.110	2,594
% Reduction From BAU				**33%**

Table 3-12: Projected Project Operational GHG Emissions Compared to 2005 BAU; Source: (CalEEMod, V.2020.4.0)

The project's operational GHG is estimated to be 1,295 CO2e MT lower than the 2005 BAU. This is a reduction of 33%, more than the 29% threshold. Therefore, the impact is considered *less than significant.*

b) Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

No Impact: The SJVAPCD states that individual and cumulative GHG emissions are considered less than significant if a Project complies with an approved GHG emission reduction plan or GHG mitigation program within the geographic area in which the Project is located. The City of Visalia Climate Action Plan meets the requirements for a Qualified Greenhouse Gas Reduction Strategy. Therefore, the proposed project's GHG emissions would not be considered a significant impact if the proposed Project were consistent with the City's GHG Reduction Strategy. Table 3-13, below, evaluates the proposed project's consistency with the applicable measures, both existing and proposed, in the GHG reduction plan.

Climate Action Plan Measures	Project Consistency with Strategy
2. Increase in Solar Photovoltaic (PV) Installations	**Consistent.** The proposed Project would involve solar panels on the new homes.
7. Urban Forestry: Requirement for all new development to have street trees, require shade over at least 25% of area in city pocket parks.	**Consistent.** The proposed Project plans to provide trees on all local roads and include them in the improvements on existing roads.

10. Bicycle Path Plan	**Consistent.** The proposed Project includes improvements with bike paths and parkways on Roeben St., Tulare Ave., and Shirk Rd.
11. Infill and High-Density Development	**Consistent.** The proposed Project has residential housing consistent with the 2030 General Plan.

Table 3-13. Project Consistency with Climate Action Plan Strategies.

As discussed above, the proposed Project is consistent with the City of Visalia Climate Action Plan. The proposed Project will comply with all Federal, State, and Local rules pertaining to the regulation of greenhouse gas emissions and the Project will implement Best Performance Standards developed by the SJVAPCD. The Project will not conflict with any plan, policy, or regulation developed to reduce GHG emissions. There is *no impact.*

IX. HAZARDS AND HAZARDOUS MATERIALS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	☐	☐	☑	☐
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☑	☐
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	☐	☐	☑	☐
d) Be located on a Site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard or excessive noise to the public or the environment?	☐	☐	☐	☑
e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard for people residing or working in the Project area?	☐	☐	☑	☐
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☑
g) Expose people or structures, either directly or indirectly, to significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☑

Environmental Setting

The proposed Project Site is located approximately .2 miles West of the nearest school (Central Valley Christian Schools) and approximately 0.95 miles northeast of the nearest public airport (Visalia Municipal Airport). The terminal of the Airport is approximately 1.37 miles away; however, the nearest runway is 0.95 miles from the Project Site (Figure 3-4).

The Department of Toxic Substances Control's (DTSC's) Envirostor was used to identify any sites known to be associated with releases of hazardous materials or wastes within the Project area. This research confirmed that the Project would not be located on or nearby a Site that is included on a list of hazardous materials sites compiled under Government Code Section 65962.5.

Regulatory Setting

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U.S. Code [U.S.C.] §9601 et seq.).
The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, or the Superfund Act) authorizes the President to respond to releases or threatened releases of hazardous substances into the environment.

Occupational Safety and Health Administration
The Occupational Safety and Health Administration (OSHA) sets and enforces Occupational Safety and Health Standards to ensure safe working conditions. OSHA provides training, outreach, education, and compliance assistance to promote safe workplaces. The proposed Project would be subject to OSHA requirements during construction, operation, and maintenance.

Toxic Substances Control Act of 1976 (15 U.S.C. §2601 et seq.).
The Toxic Substance Control Act was enacted by Congress in 1976 and authorizes the EPA to regulate any chemical substances determined to cause an unreasonable risk to public health or the environment.

Hazardous Waste Control Law, Title 26.
The Hazardous Waste Control Law creates hazardous waste management program requirements. The law is implemented by regulations contained in Title 26 of the California Code of Regulations (CCR), which contains requirements for the following aspects of hazardous waste management:

- Identification and classification;
- Generation and transportation;
- Design and permitting of recycling, treatment, storage, and disposal facilities;
- Treatment standards;
- Operation of facilities and staff training; and
- Closure of facilities and liability requirements.

California Code of Regulations, Title 22, Chapter 11.
Title 22 of the California Code of Regulations contains regulations for the identification and classification of hazardous wastes. The CCR defines waste as hazardous if it has any of the following characteristics: ignitability, corrosivity, reactivity, and/or toxicity.

California Emergency Services Act

The California Emergency Services Act created a multi-agency emergency response plan for the state of California. The Act coordinates various agencies, including CalEPA, Caltrans, the California Highway Patrol, regional water quality control boards, air quality management districts, and county disaster response offices.

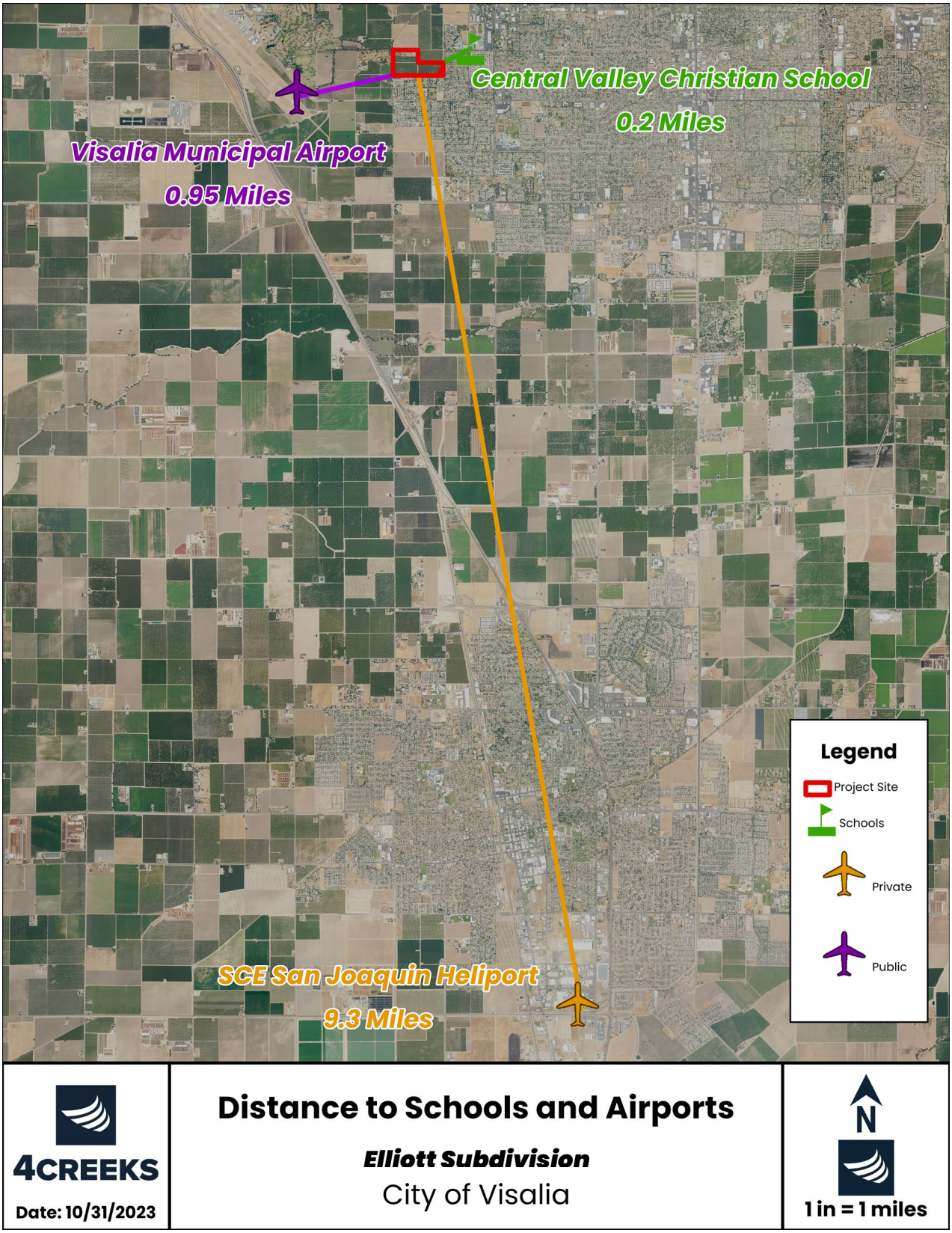


Figure 3-5: Distance to Schools and Airports

Discussion

a) Would the Project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less than Significant Impact: Project construction activities may involve the use, storage, and transport of hazardous materials. During construction, the contractor will use fuel trucks to refuel onsite equipment and may use paints and solvents to a limited degree. The storage, transport, and use of these materials will comply with Local, State, and Federal regulatory requirements. There is the potential for small leaks due to refueling of construction equipment, however standard construction Best Management Practices (BMPs) included in the SWPPP will reduce the potential for the release of construction related fuels and other hazardous materials by controlling runoff from the Site and requiring proper disposal or recycling of hazardous materials. The impact is *less than significant.*

b) Would the Project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less than Significant Impact: There is no reasonably foreseeable condition or incident involving the Project that could result in release of hazardous materials into the environment, other than any potential accidental releases of standard fuels, solvents, or chemicals encountered during typical construction of a residential subdivision. Should an accidental hazardous release occur or should the Project encounter hazardous soils, existing regulations for handling hazardous materials require coordination with the California Department of Toxic Substances Control for an appropriate plan of action, which can include studies or testing to determine the nature and extent of contamination, as well as handling and proper disposal. Therefore, potential impacts are *less than significant*.

c) Would the Project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less than Significant Impact: The Project is located approximately .2 miles from an existing school. During construction, the contractor will use fuel trucks to refuel onsite equipment and may use paints and solvents to a limited degree. The storage, transport, and use of these materials will comply with Local, State, and Federal regulatory requirements. There is the potential for small leaks due to refueling of construction equipment, however standard construction Best Management Practices (BMPs) included in the SWPPP will reduce the potential for the release of construction related fuels and other hazardous materials by controlling runoff from the Site and requiring proper disposal or recycling of hazardous materials. The operational aspect of the Project does not involve the use or storage of

hazardous substances other than insignificant amounts of pesticides, fertilizers, and cleaning agents required for normal maintenance of structures and landscaping. The Project would not emit hazardous emissions or involve the handling of acutely hazardous materials or waste. Therefore, there would be *a less than significant impact.*

d) Would the Project be located on a Site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact: The Project Site is not listed as a hazardous materials Site pursuant to Government Code Section 65962.5 and is not included on a list compiled by the Department of Toxic Substances Control. There would be *no impact.*

e) For a Project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project result in a safety hazard or excessive noise for people residing or working in the Project area?

Less Than Significant Impact: The proposed Project is located approximately .95 miles northeast of the nearest public airport (Visalia Municipal Airport). However, according to the Airport Master plan, the Project Site would not be impacted by the airport. Noise contours developed for 2019 show that the airport would produce less than 65 dB on the Project Site. All land uses located outside of the 65 dB contours are considered to have a less than significant noise impact from the airport. Implementation of the proposed Project would not result in a safety hazard for people residing or working in the Project area. There is *a less than significant impact.*

f) Would the Project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

No Impact: The City's design and environmental review procedures shall ensure compliance with emergency response and evacuation plans. In addition, the Site plan will be reviewed by the Fire Department per standard City procedure to ensure consistency with emergency response and evacuation needs. Therefore, the proposed Project would have *no impact* on emergency evacuation.

g) Would the Project expose people or structures, either directly or indirectly, to significant risk of loss, injury or death involving wildland fires?

No Impact: The land surrounding the Project Site is developed with urban uses and farmlands which are not considered to be wildlands. Additionally, the City of Visalia General Plan finds that fire hazards within the Planning Area, including the proposed Project site, have low frequency, limited extent, limited magnitude, and low significance. The proposed

Project would not expose people or structures to significant risk of loss, injury or death involving wildland fires and there is *no impact.*

X. HYDROLOGY AND WATER QUALITY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise sustainably degrade surface or ground water quality?	☐	☑	☐	☐
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?	☐	☐	☑	☐
c) Substantially alter the existing drainage pattern of the Site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner, which would:				
(i) result in substantial erosion or siltation on- or off-site?	☐	☑	☐	☐
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?	☐	☑	☐	☐
(iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	☐	☑	☐	☐
(iv) impede or redirect flood flows?	☐	☑	☐	☐
d) In flood hazard, tsunami, or seiche zones risk the release of pollutants due to Project inundation?	☐	☐	☐	☑
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater movement plan?	☐	☐	☐	☑

Environmental Setting

Surface Water

Visalia is in the center of the Kaweah River Delta System, resulting in many rivers and creeks flowing through the city. The St. Johns River is the City's primary surface water feature. Other significant surface water features include Modoc Ditch, Mill Creek Ditch, Mill Creek, Tulare Irrigation District (TID) Canal, Packwood Creek, Cameron Creek, Deep Creek, Evans Creek,

Persian Ditch, and several other local ditches. These receive a significant amount of water during the rainy season and help drain stormwater.

Groundwater

Groundwater in Tulare County is present in valley deposits of alluvium that are several thousand feet thick and occurs in both confined and unconfined conditions. The creeks in Visalia are tied to the groundwater system. The creeks lose water in the winter while they feed the groundwater, and gain water in the summer when the groundwater feeds the creeks. The depth to groundwater varies significantly throughout the valley floor area of Tulare County. In the area around Visalia, depth to groundwater varies from about 120 feet below ground surface along the western portion of the city to approximately 100 feet below ground surface to the east, as measured in spring 2010. Groundwater levels measured in the city have declined since the 1940s, from approximately 30 feet below ground surface in 1940 to 120 feet below ground surface in 2010. The water quality of the groundwater that underlies the Planning Area is excellent for domestic and agricultural uses. This is mostly due to the abundant snowmelt that originates in the Sierra Nevada. Groundwater is the primary source of drinking water for the planning area residents.

Stormwater Drainage

The City, in conjunction with Kaweah Delta Water Conservation District and Tulare Irrigation District, operates and maintains a vast municipal storm drainage system that consists of drainage channels, 23 detention and retention basins, 33 pump stations and 250 miles of pipe. Stormwater from the Project Site will be collected and conveyed to an on-site stormwater basin.

Regulatory Setting

Clean Water Act

The Clean Water Act (CWA) is enforced by the U.S. EPA and was developed in 1972 to regulate discharges of pollutants into the waters of the United States. The Act made it unlawful to discharge any pollutant from a point source into navigable waters unless a National Pollution Discharge Elimination System (NPDES) Permit is obtained.

National Flood Insurance Act

The Federal Emergency Management Agency (FEMA) is tasked with responding to, planning for, recovering from, and mitigating against disasters. The Federal Insurance and Mitigation Administration within FEMA is responsible for administering the National Flood Insurance Program (NFIP) and administering programs that aid with mitigating future damages from natural hazards.

California Water Quality Porter-Cologne Act

California's primary statute leading water quality and water pollution concerns with respect to both surface waters and groundwater is the Porter-Cologne Water Quality Control Act of 1970

(Porter-Cologne Act). The Porter-Cologne Act grants the State Water Resource Control Board (SWRCB) and each of the nine Regional Water Quality Boards (RWQCB) power to protect water quality and further develop the Clean Water Act within California. The applicable RWQCB for the proposed Project is the Central Valley RWQCB.

Central Valley RWQCB

The proposed Project Site is within the jurisdiction of the Central Valley Regional Water Quality Control Board (RWQCB). The Central Valley RWQCB requires a National Pollution Discharge Elimination System (NPDES) Permit and Stormwater Pollution Prevention Plan (SWPPP) for projects disturbing more than one acre of total land area. Because the Project is greater than one acre, a NPDES Permit and SWPPP will be required.

City of Visalia General Plan

The 2030 General Plan includes the policies related to hydrology and water quality that correlate to the proposed project:

- *PSCU-P-59*: Require new developments to incorporate floodwater detention basins into Project designs where consistent with the Stormwater Master Plan and the Groundwater Recharge Plan.
- *PSCU-P-60*: Control urban and stormwater runoff and point and non-point discharge of pollutants. As part of the City's Stormwater Management Program, adopt and implement a Stormwater Management Ordinance to minimize stormwater runoff rates and volumes, control water pollution, and maximize groundwater recharge. New development will be required to include Low Impact Development features that reduce impermeable surface areas and increase infiltration. Such features may include, but are not limited to:
    - Canopy trees or shrubs to absorb rainwater;
    - Grading that lengthens flow paths over permeable surfaces and increases runoff travel time to reduce the peak hour flow rate;
    - Partially removing curbs and gutters from parking areas where appropriate to allow stormwater sheet flow into vegetated areas;
    - Use of permeable paving in parking lots and other areas characterized by significant impervious surfaces;
    - On-Site stormwater detention, use of bioswales and bioretention basins to facilitate infiltration; and
    - Integrated or subsurface water retention facilities to capture rainwater for use in landscape irrigation and other non-potable uses.
- *PSCU-P-46*: Adopt and implement a Water Efficient Landscaping Ordinance for new and/or refurbished development that exceeds mandated sizes, and ensure that all new City parks, streetscapes, and landscaped areas conform to the Ordinance's requirements. The Ordinance should include provisions to optimize outdoor water use by:
    - Promoting appropriate use of plants and landscaping;

- Establishing limitations on use of turf including size of turf areas and use of cool-season turf such as Fescue grasses, with exceptions for specified uses (e.g., recreation playing fields, golf courses, and parks);
- Establishing water budgets and penalties for exceeding them;
- Requiring automatic irrigation systems and schedules, including controllers that incorporate weather-based or other self-adjusting technology;
- Promoting the use of recycled water; and
- Minimizing overspray and runoff.

Discussion

a) Would the Project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less than Significant with Mitigation: The Project will result in less than significant impacts to water quality due to potentially polluted runoff generated during construction activities. Construction may include excavation, grading, and other earthwork across most of the 59.13-acre Project site. During storm events, exposed construction areas across the Project Site may cause runoff to carry pollutants, such a chemicals, oils, sediment, and debris. Implementation of a Stormwater Pollution Prevention Plan (SWPPP) will be required for the project. A SWPPP identifies all potential sources of pollution that could affect stormwater discharges from the Project Site and identifies best management practices (BMPs) related to stormwater runoff. As such, implementation of Mitigation Measures HYD- 1 and HYD-2 will ensure impacts remain *less than significant with mitigation.*

b) **Would the Project substantially decrease groundwater supplies or interfere with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?**

Less than Significant Impact: Water services will be provided by Cal Water, Visalia District, upon development. The District currently produces about 27 million gallons of local groundwater per day from 75 active wells and delivers it to customers through more than 519 miles of pipeline. The District delivers water to residential, commercial, industrial, and governmental customers. Residential customers account for most of the District's service connections and 69 percent of its water uses. Non-residential water uses account for 28 percent of total demand, while distribution system losses account for 3 percent. The system produced 30,152 acre-feet (AF) of groundwater in 2020. The available water supply is expected to supply the projected population based on the General Plan land uses. The system has a capacity to pump 100,829 acre-feet per year (AFY), all from groundwater. The projected demand is expected to 35,276 AF in 2030, 38,310 AF in 2035, and 41,258 AF in 2040.

Using average per-person water use in Visalia (183 gallons; 2020 Urban Water Management Plan) and the average household size in Visalia (2.99 persons; US Census

Bureau), water demand for the proposed 225-unit residential development is estimated to be approximately 122,566 gallons of water daily, or about 137-acre feet per year. With an expected increase of 5,124 AF from 2020 to 2030, there will be enough water supply for the proposed project. The most water-intensive aspect of the Project (Low-Density Residential homes) is consistent with the City's General Plan land use designation. As such, the Project would not affect groundwater supplies beyond what has already been analyzed in the most current General Plan EIR or Urban Water Management Plan.

The Project would result in nearly full development of the site, which would convert approximately 59.13 acres from pervious surfaces to impervious surfaces. However, this would not significantly interfere with groundwater recharge because all stormwaters would be collected and diverted to a new stormwater basin located on the southwest area of the Site for groundwater recharge. Because the addition of impervious surfaces would not interfere substantially with groundwater recharge and the Project would not utilize groundwater resources beyond what has been previously analyzed in the Visalia Planning Area General Plan EIR or the Urban Water Management Plan, the impact would be *less than significant.*

c) Would the Project substantially alter the existing drainage pattern of the Site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner, which would:

i. Result in substantial erosion or siltation on- or off-site?

Less than Significant with Mitigation: The proposed Project would result in the addition of impervious surfaces and alter existing drainage patterns on the 59.13-acre Project Site which would have the potential to result in erosion or siltation on- or off-site. The disturbance of soils during construction could cause erosion, resulting in temporary construction impacts. However, this impact would be appropriately mitigated through implementation of a Stormwater Pollution Prevention Plan (SWPPP) which include mandated erosion control measures, which are developed to prevent significant impacts related to erosion caused by runoff during construction (Mitigation Measure HYD-1). The Project proponent will also be required to prepare drainage plans (Mitigation Measure HYD-2) and a Development Maintenance Manual (Mitigation Measure HYD-3) to ensure that existing drainage patterns are maintained during Project operations and that the Project would not result in substantial erosion or siltation on- or off-site. The impact is *less than significant with implementation of these mitigation measures.*

ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?

Less than Significant with Mitigation: The Project would result in the addition of impervious surfaces on the 59.13-acre Project Site which would have the potential to increase surface

runoff resulting in flooding on- or off-site. This impact would be appropriately mitigated through implementation of Mitigation Measure HYD-2, which requires the Project to submit drainage plans to the City Engineer prior to the issuance of grading permits. The drainage plans will include BMPs to ensure runoff from the Project will not result in flooding on- or off-site. Therefore, impacts are *less than significant with mitigation.*

iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less than Significant with Mitigation: The proposed Project would result in the addition of impervious surfaces and alter existing drainage patterns on the 59.13-acre Project Site which would have the potential to impact existing stormwater drainage systems or provide additional sources of polluted runoff. The Project would contain a storm drainage basin to collect all runoff from the site. The disturbance of soils during construction could cause erosion, resulting in temporary construction impacts. However, this impact would be appropriately mitigated through implementation of a Stormwater Pollution Prevention Plan (SWPPP) which include mandated erosion control measures, which are developed to prevent significant impacts related to erosion caused by runoff during construction (Mitigation Measure HYD-1). During Project operations, the proposed impervious surfaces, including roads, building pads, and parking areas, would collect automobile derived pollutants such as oils, greases, rubber, and heavy metals. This could contribute to point source and non-point source pollution if these pollutants were transported into waterways during storm events. The Project proponent will be required to prepare drainage plans (Mitigation Measure HYD-2) and a Development Maintenance Manual (Mitigation Measure HYD-3) to ensure that the Project would not overwhelm the planned stormwater drainage basin or result in discharges of polluted runoff into local waterways. The impact is *less than significant with implementation of these mitigation measures.*

iv. Impede or redirect flood flows?

Less than Significant with Mitigation: The Project Site is generally flat and no significant grading or leveling will be required. The proposed Project Site is not in proximity to a stream or river and will not alter the course of a stream or river. According to National Flood Hazard mapping by the Federal Emergency Management Agency, the proposed Project is within the "AE" and "X" flood zones. Approximately 15.25 acres, or 62 of the residential units, of the Site are within the AE flood zone. The AE flood zone has a 1% chance of flooding every year. The remainder of the site is within the X flood zone, which has a 0.2% chance of flooding every year.

Following regulations set by the American Society of Civil Engineers, all homes within the AE flood zone will be built following these regulations:

1. The elevation of the lowest floor in a structure must be at or above the zone's base flood elevation (BFE).
2. Enclosed areas below the BFE or lowest floor cannot be used as living spaces.
3. All electrical, plumbing and HVAC equipment must be elevated to or above the area's BFE.

The Project would result in the addition of impervious surfaces on the 59.13-acre Site which could affect drainage and flood patterns. This impact would be appropriately mitigated through implementation of Mitigation Measure HYD-2, which requires the Project to submit drainage plans to the City Engineer prior to the issuance of grading permits. The drainage plans will include BMPs to ensure the Project will not impede or redirect flood flows. Therefore, impacts are *less than significant with mitigation.*

d) Would the project, in flood hazard, tsunami, or seiche zones, risk the release of pollutants due to Project inundation?

No Impact: The proposed Project is located inland and not near an ocean or large body of water, therefore, would not be affected by a tsunami. The proposed Project is in a relatively flat area and would not be impacted by inundation related to mudflow. Since the Project is in an area that is not susceptible to inundation, the Project would not risk the release of pollutants due to Project inundation. As such, there is *no impact.*

e) Would the Project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Impact: The Project would not conflict with or obstruct the implementation of a water quality control plan or sustainable groundwater management plan. The proposed Project is consistent with the Central Valley RWQCB. The Project will comply with all applicable rules and regulations regarding water quality and groundwater management and there is *no impact.*

Mitigation Measures for Hydrology and Water Quality

Mitigation Measure HYD-1: Prior to the issuance of any construction/grading permit and/or the commencement of any clearing, grading, or excavation, the Applicant shall submit a Notice of Intent (NOI) for discharge from the Project Site to the California SWRCB Storm Water Permit Unit.

• Prior to issuance of grading permits for Phase 1 the Applicant shall submit a copy of the NOI to the City.

• The City shall review noticing documentation prior to approval of the grading permit. City monitoring staff will inspect the Site during construction for compliance.

Mitigation Measure HYD-2: The Applicant shall require the building contractor to prepare and submit a Storm Water Pollution Prevention Plan (SWPPP) to the City 45 days prior to the start of work for approval. The contractor is responsible for understanding the State General Permit and instituting the SWPPP during construction. A SWPPP for Site construction shall be developed prior to the initiation of grading and implemented for all construction activity on the Project Site in excess of one (1) acre, or where the area of disturbance is less than one acre but is part of the Project's plan of development that in total disturbs one or more acres. The SWPPP shall identify potential pollutant sources that may affect the quality of discharges to storm water and shall include specific BMPs to control the discharge of material from the site. The following BMP methods shall include, but would not be limited to:

- Dust control measures will be implemented to ensure success of all onsite activities to control fugitive dust;
- A routine monitoring plan will be implemented to ensure success of all onsite erosion and sedimentation control measures;
- Provisional detention basins, straw bales, erosion control blankets, mulching, silt fencing, sand bagging, and soil stabilizers will be used;
- Soil stockpiles and graded slopes will be covered after two weeks of inactivity and 24 hours prior to and during extreme weather conditions; and,
- BMPs will be strictly followed to prevent spills and discharges of pollutants onsite, such as material storage, trash disposal, construction entrances, etc.

Mitigation Measure HYD-3: A Development Maintenance Manual for the Project shall include comprehensive procedures for maintenance and operations of any stormwater facilities to ensure long-term operation and maintenance of post-construction stormwater controls. The maintenance manual shall require that stormwater BMP devices be inspected, cleaned, and maintained in accordance with the manufacturer's maintenance conditions. The manual shall require that devices be cleaned prior to the onset of the rainy season (i.e., mid-October) and immediately after the end of the rainy season (i.e., mid-May). The manual shall also require that all devices be checked after major storm events. The Development Maintenance Manual shall include the following:

- Runoff shall be directed away from trash and loading dock areas;
- Bins shall be lined or otherwise constructed to reduce leaking of liquid wastes;
- Trash and loading dock areas shall be screened or walled to minimize offsite transport of trash; and,
- Impervious berms, trench catch basin, drop inlets, or overflow containment structures nearby docks and trash areas shall be installed to minimize the potential for leaks, spills, or wash down water to enter the drainage system.

XI. LAND USE AND PLANNING

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Physically divide an established community?	☐	☐	☐	☑
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☐	☑

Environmental Setting

The proposed Project Site is in the Visalia Planning Area, just outside of the city limits. The Site is approximately 3.5 miles southwest of the Visalia downtown. The Site is currently zoned as AE-20 by the County of Tulare but is prezoned for R-1-5 zoning by the City of Visalia after annexation (Figure 3-6). The Site is designated as Low Density Residential by the Visalia General Plan (Figure 3-5). It is located within the Tier 2 UDB. The Project does not need rezoning or General Plan Amendments.

The Site currently contains agriculture uses. The Site is topographically flat and is bounded by agricultural uses to the north and west, and single-family residential to the south and east. The agricultural land to the north and west is designated as Low Density Residential, Medium Density Residential, Neighborhood Commercial, and Parks/Recreation by the Visalia General Plan.

Regulatory Setting

Visalia General Plan

The proposed Project Site is designated as Low Density Residential.

- The Low-Density Residential designation provides single family detached housing. Residential densities are typical of single-family subdivisions. The typical residential density for this designation ranges from two to 10 housing units per gross acre. Buildout is assumed at four units per gross acre.

The 2030 General Plan includes the policies related to land use that correlate to the proposed project:

- *LU-P-19*: Ensure that growth occurs in a compact and concentric fashion by implementing the General Plan's phased growth strategy.

- *LU-P-21*: Allow annexation and development of residential, commercial, and industrial land to occur within the Tier II UDB and the Tier III Urban Growth Boundary consistent with the City's Land Use Diagram, according to the following phasing thresholds:
    - Tier II: The expansion criteria for land in Tier II to become available for annexation and development is that such annexation and development shall only occur if it does not result in excess of a 10-year supply of undeveloped residential land within the new Tier I. This is intended to be consistent with LAFCO policies discouraging residential annexations exceeding a 10-year housing inventory. Thus, the "inner" tier is distinguished from the GPURC-recommended Tier I in that it is not based on projected capacity and need, but rather on a requirement to be able to demonstrate that less than a ten year inventory of residential land exists.
- *LU-P-25*: Provide planning and technical support for the relocation of agricultural operations currently located in the city to compatible locations in the Planning Area or the County.
- *LU-P-28*: Continue to use natural and man-made edges, such as major roadways and waterways within the city's Urban Area Boundary, as urban development limit and growth phasing lines.
- LU-P-47: Establish criteria and standards for pedestrian, bicycle, and vehicle circulation networks within new subdivisions and non-residential development.
- *LU-P-71*: Ensure that noise, traffic, and other potential conflicts that may arise in a mix of commercial and residential uses are mitigated through good site planning, building design, and/or appropriate operational measures.

City of Visalia Zoning Ordinance

The proposed Project Site is prezoned for R-1-5 zoning. The Project will comply with the R-1-5 zoning. The R-1-5 zone has a minimum site area of 5,000 square feet, with a minimum width of 50 feet. The Project has 225 lots with a minimum of 6,480 square feet per lot.

R-1 zoning is intended to provide living area within the city where development is limited to low density concentrations of one-family dwellings where regulations are designed to accomplish the following:

- to promote and encourage a suitable environment for family life;
- to provide space for community facilities needed to compliment urban residential areas and for institutions that require a residential environment;
- to minimize traffic congestion and to avoid an overload of utilities designed to service only low-density residential use.

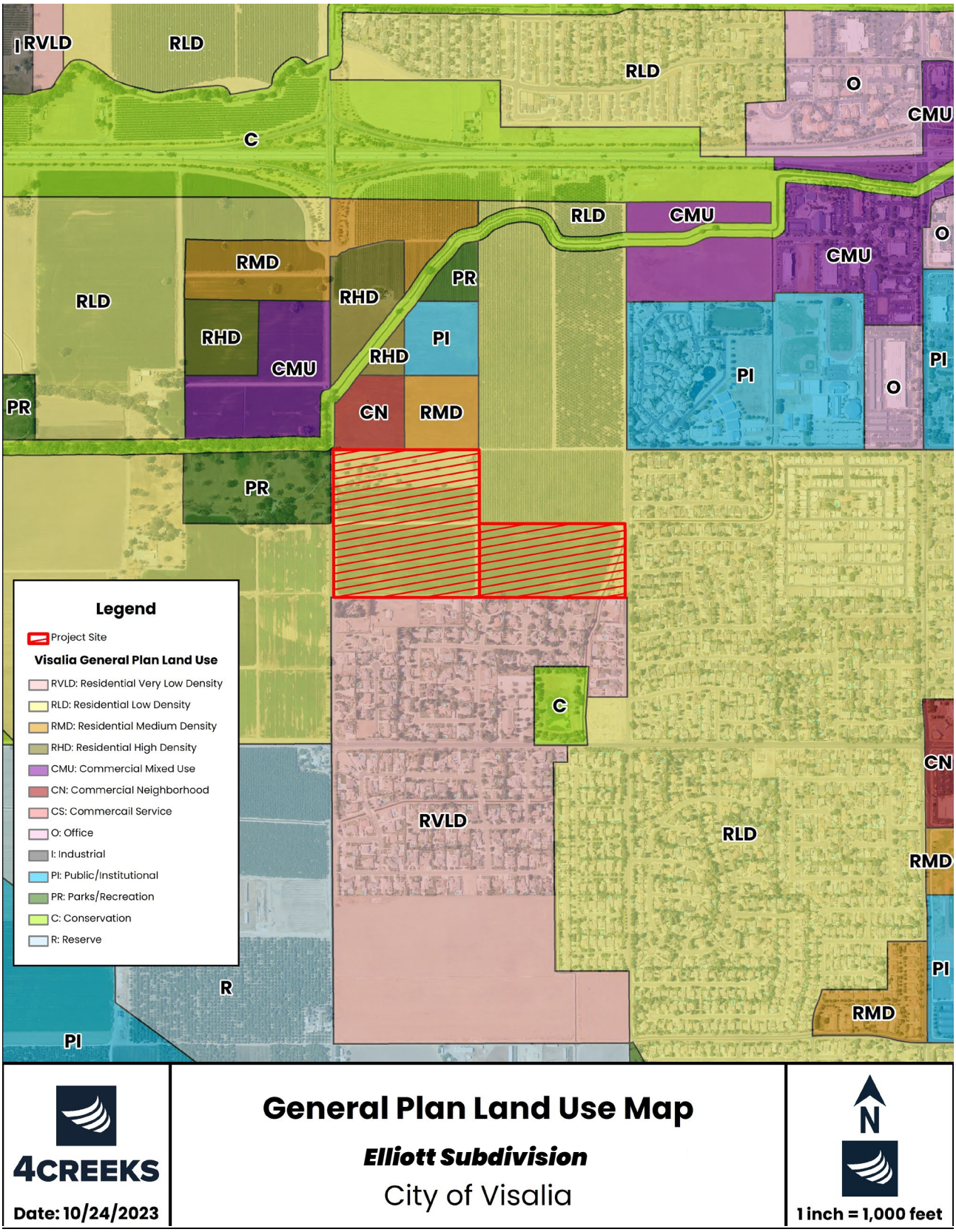


Figure 3-6: General Plan Land Use Designation

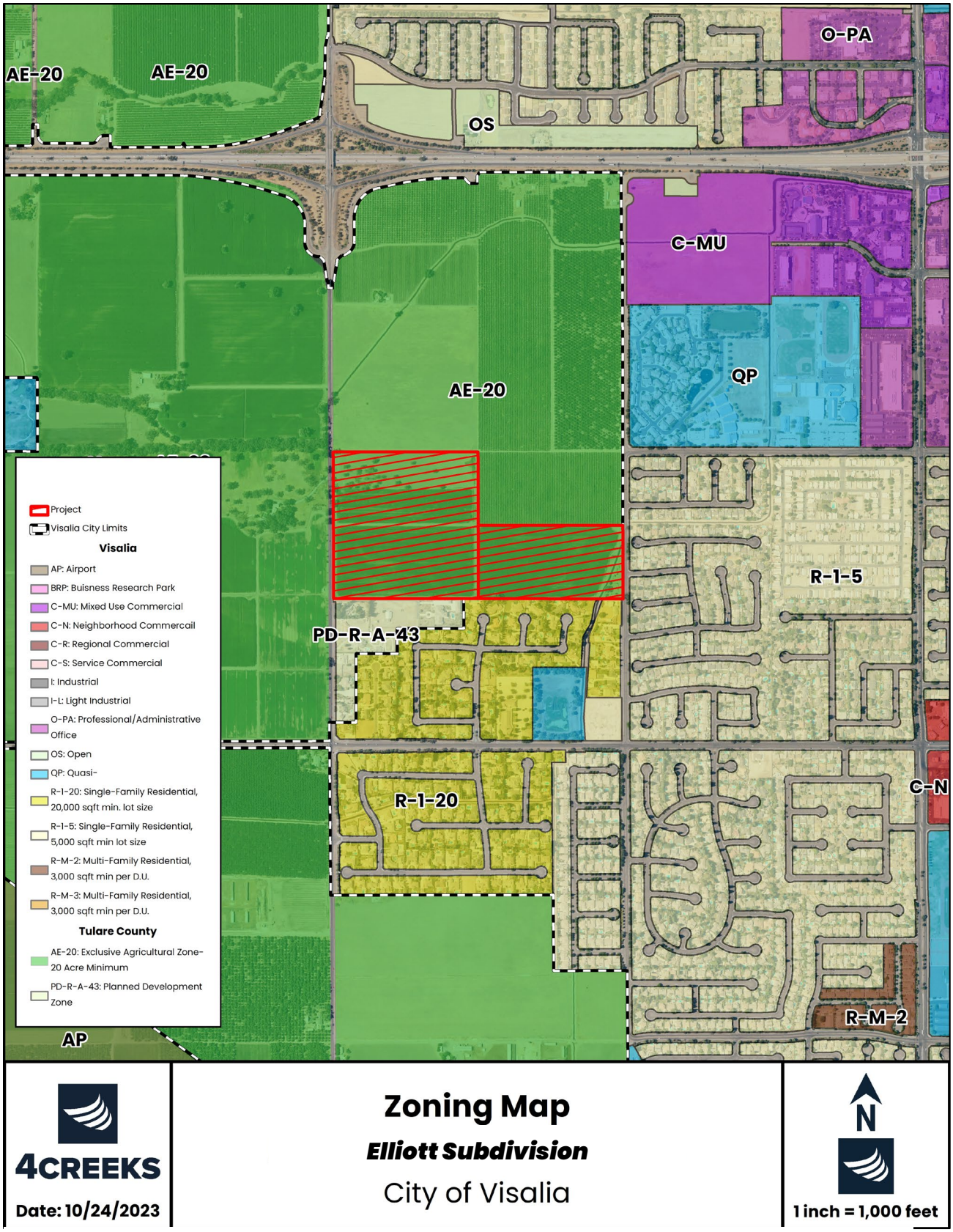


Figure 3-7: Zoning Map

Discussion

a) Would the Project physically divide an established community?

No Impact: The proposed Project will not physically divide an established community. The proposed Project Site is designated for Low Density Residential by the Visalia General Plan and the Project is consistent with this land use designation. The Project would continue to operate as the same designation following Project implementation. There is *no impact.*

b) Would the Project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact: The Project Site is located on land designated for residential use. The proposed Project does not conflict with this land use, or any other policy or regulation adopted for the purpose of avoiding or mitigating an environmental effect. There is *no impact.*

XII. MINERAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☑
b) Result in the loss of availability of a locally - important mineral resource recovery Site delineated on a local general plan, specific plan, or other lands use plan?	☐	☐	☐	☑

Environmental Setting

Tulare County contains mineral resources of sand, gravel, and crushed stone, found in alluvial deposits and hard rock quarries. Most of this mining takes place along rivers and at the base of the Sierra foothills. However, the Visalia Planning Area currently contains three former sand and gravel mines, but no currently operating mines and no designated Mineral Resource Zones.

Regulatory Setting

California State Surface Mining and Reclamation Act

The California State Surface Mining and Reclamation Act was adopted in 1975 to regulate surface mining to prevent adverse environmental impacts and to preserve the state's mineral resources. The Act is enforced by the California Department of Conservation's Division of Mine Reclamation.

Discussion

a) Would the Project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

No Impact: The Project Site has no known mineral resources that would be of a value to the region and the residents of the state, therefore the proposed Project would not result in the loss of impede the mining of regionally or locally important mineral resources. There is *no impact.*

b) Would the Project result in the loss of availability of a locally - important mineral resource recovery Site delineated on a local general plan, specific plan, or other lands use plan?

No Impact: There are no known mineral resources of importance to the region and the Project Site is not designated under the City's or County's General Plan as an important mineral resource recovery site. For that reason, the proposed Project would not result in the loss of availability of known regionally or locally important mineral resources. There is *no impact.*

XIII. NOISE

Would the Project result in:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Generation of a substantial temporary or permeant increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☑	☐
b) Generation of excessive ground-borne vibration or groundborne noise levels?	☐	☐	☑	☐
c) For a Project located within the vicinity of a private airstrip or, an airport land use plan or, where such a plan has not been adopted, within two miles of public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?	☐	☐	☑	☐

Environmental Setting

Noise is often described as unwanted sound. Sound is the variation in air pressure that the human ear can detect. If the pressure variations occur at least 20 times per second, they can be detected by the human ear. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second, called Hertz (Hz).

Ambient noise is the "background" noise of an environment. Ambient noise levels on the proposed Project Site are primarily due to agricultural activities and traffic. Construction activities usually result in an increase in sound above ambient noise levels.

Vibration is seismic waves that radiate along the surface of the earth and downward into the earth. The operation of heavy construction equipment, particularly pile driving and other impacts devices such as pavement breakers create this vibration.

Sensitive Receptors

Noise level allowances for various types of land uses reflect the varying noise sensitivities associated with those uses. Residences, hotels/motels, hospitals, schools, and libraries are some of the most sensitive land uses to noise intrusion and therefore have more stringent noise level allowances than most commercial or agricultural uses that are not subject to impacts

such as sleep disturbance. The nearest sensitive receptors are the homes to the south and east of the Site.

Regulatory Setting

City of Visalia Noise Ordinance

The City of Visalia Noise Ordinance provides noise level standards for land use compatibility. Exterior and interior noise levels may not exceed any of the categorical noise level standards shown in Table 3-14. The standards are shown in A-weighted decibels (dBA). For Single Family Residential, the exterior noise during the daytime is to be below 70 dBA, and the indoor noise during the daytime is to be below 55 dBA.

Category	*Cumulative number of minutes in any one hour time period*	*Evening and daytime (6:00 a.m. to 7:00 p.m.)*	*Nighttime (7:00 p.m. to 6:00 a.m.)*
Exterior Levels			
1	30	50	45
2	15	55	50
3	5	60	55
4	1	65	60
5	0	70	65
Interior Levels			
1	5	45	35
2	1	50	40
3	0	55	45

Table 3-14: City of Visalia Noise Standards. Source: City of Visalia Noise Ordinance

City of Visalia General Plan

The current noise element of the City's General Plan establishes goals and policies intended to limit community exposure to excessive noise levels. Visalia's current General Plan identifies noise sources such as roadways, rails, and airports within the city and includes land use compatibility guidelines.

- *N-P-3*: Establish performance standards for noise reduction for new housing that may be exposed to community noise levels above 65 dB DNL/CNEL, as shown on the Noise Contour Maps, based on the target acceptable noise levels for outdoor activity levels and interior spaces in Tables 8-2 and 8-3. Noise mitigation measures that may be considered to achieve these noise level targets include but are not limited to the following:
    - Construct façades with substantial weight and insulation;
    - Use sound-rated windows for primary sleeping and activity areas;
    - Use sound-rated doors for all exterior entries at primary sleeping and activity areas;

- Use minimum setbacks and exterior barriers;
- Use acoustic baffling of vents for chimneys, attics, and gable ends;
- Install a mechanical ventilation system that provides fresh air under closed window conditions.

Discussion

a) Would the Project result in generation of a substantial temporary or permeant increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less than Significant Impact: Project construction is anticipated to last approximately 66 months and will involve temporary noise sources in the vicinity of the project. The average noise levels generated by construction equipment that will likely be used in the proposed Project are provided in Table 3-15.

The nearest residence and sensitive receptor are the single-family homes to the south and east. The City requires that mitigation measures be implemented if noise levels exceed 70 dB in sensitive outdoor areas or if interior noise levels exceed 55 dB. As shown in Figure 3-7, it was found that a residence must be at least 250 feet from construction in the exterior and 100 feet from construction in the interior to avoid noise levels exceeding these thresholds.

With the Project bordering another residential community, a noise disturbance is unavoidable. However, the construction would comply with Visalia Municipal Code Chapter 8.36 to ensure that the construction noise impacts would be less than significant. Measures such as maintaining minimum setback distances between construction equipment and receptors, only having construction during weekday daytime hours, and noise barriers would be implemented to avoid significant construction noise impacts.

Long term noise levels resulting from the Project would be produced by single family residential homes, which are not normally associated with high operational noise levels. Because noise generated during Project construction would be intermittent, short term, and would not exceed the thresholds established by the Visalia Noise Ordinance for sensitive receptors and the Project does not propose uses that would typically generate high noise levels, the impact is *less than significant*.

Type of Equipment	Exterior Lmax at 50 feet (dBA)
Tractors	84
Loaders	80
Backhoes	80
Excavators	85
Generator Sets	82
Air Compressors	80
Rubber Tired Dozers	85
Forklifts	75
Welders	73
Graders	85
Scrapers	85
Cranes	85
Paving Equipment	85
Rollers	85

Table 3-15. Noise levels of noise-generating construction equipment at various distances. Source: FHA Construction Noise Handbook (dBA at 50 feet). Noise levels beyond 50 feet were estimated using the inverse square law based on given values for dBA at 50 feet

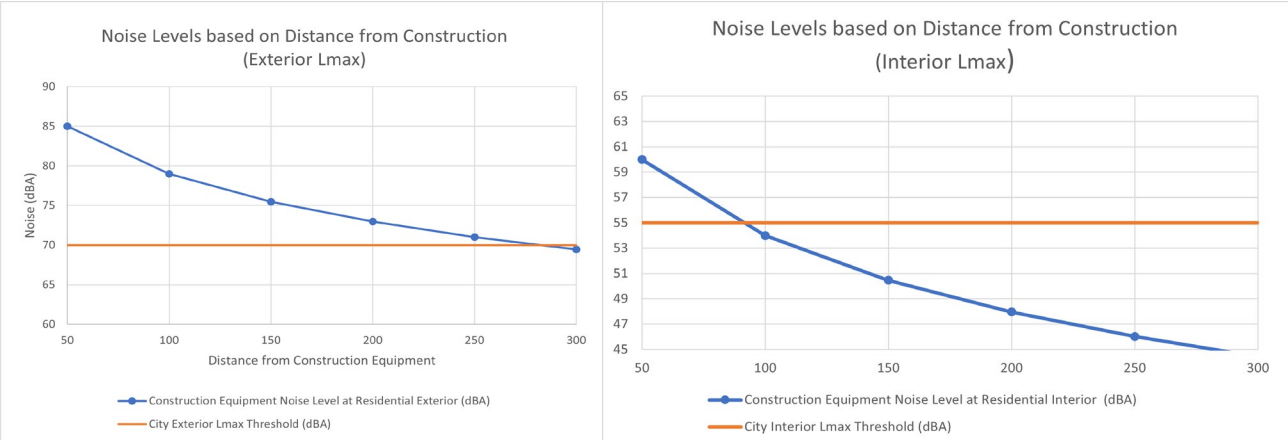


Figure 3-8: Construction Related Noise Levels Based on Distance from Construction Equipment. Interior Noise=Assume 25 dB Exterior to Interior Noise Reduction

b) Would the Project result in generation of excessive ground-borne vibration or groundborne noise levels?

Less than Significant Impact: Although Project operations would not include uses or activities that typically generate excessive groundborne vibration or groundborne noise levels, Project construction could introduce temporary groundborne vibration to the Project Site and the surrounding area. Sources that may produce perceptible vibrations are provided in Table 3-16.

Equipment	Peak Particle Velocity (inches/second) at 25 feet	Approximate Vibration Level (LV) at 25 feet
Pile driver (impact)	1.518 (upper range)/0.644 (typical)	112/104
Pile driver (sonic)	0.734 (upper range)/0.170 (typical)	105/93
Clam shovel drop (slurry wall)	0.202	94
Hydromill (slurry wall)	0.008 in soil/0.017 in rock	66/75
Vibratory Roller	0.210	94
Hoe Ram	0.089	87
Large bulldozer	0.089	87
Caisson drill	0.089	87
Loaded trucks	0.076	86
Jackhammer	0.035	79
Small bulldozer	0.003	58

Table 3-16. Vibration Levels Generated by Construction Equipment. Source: Transit Noise and Vibration Impact Assessment, Federal Transit Administration, September 2018.

The primary source of vibration during Project construction would likely be from a bulldozer (tractor), which would generate 0.089 inch per second PPV at 25 feet with an approximate vibration level of 87 VdB. Vibration from the bulldozer would be intermittent and not a source of continual vibration. There are no adopted City standards or thresholds of significance for vibration. The evaluation of potential impacts related to construction vibration levels is based on the published data in the 2018 FTA Guidelines. At 25 feet, the buildings most susceptible to vibration could be impacted at .12 inch/second. Because vibrations generated by Project construction would not exceed 0.12 inch/second, the impact is *less than significant.*

c) For a Project located within the vicinity of a private airstrip or, an airport land use plan or, where such a plan has not been adopted, within two miles of public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels?

Less than Significant Impact: The proposed Project is located approximately .95 miles northeast of the nearest public airport (Visalia Municipal Airport). However, according to the Airport Master plan, the Project Site would not be impacted by the airport. Noise contours developed for 2019 show that the airport would produce less than 65 dB. All land uses located outside of the 65 dB contours are considered less than significant. Implementation of the proposed Project would not result in a safety hazard for people residing or working in the Project area. There is a *less than significant impact.*

XIV. POPULATION AND HOUSING

Would the project:	Potentially Significant Impact	Less than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☑
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☑

Environmental Setting

The United States Census Bureau estimated the population in the City of Visalia to be 143,966 as of July 2022. This is an increase from the 2010 Census, which counted the population in the City of Visalia to be 124,442. Factors that influence population growth in Visalia include job availability, housing availability, and the capacity of proposed and existing infrastructure.

Regulatory Setting

The City of Visalia population size is controlled by the development code and Housing Element of the General Plan. These documents regulate the number of dwelling units per acre allowed on various land uses and establish minimum and maximum lot sizes, which has a direct impact on the City's population size.

City of Visalia 2030 General Plan Housing Element

The 2030 General Plan includes the policies related to population and housing that correlate to the proposed project:

- *LU-P-50*: Provide development standards to ensure residential development is not negatively affected by adjacent non-residential land uses.
- *LU-P-71*: Ensure that noise, traffic, and other potential conflicts that may arise in a mix of commercial and residential uses are mitigated through good Site planning, building design, and/or appropriate operational measures.

Discussion

a) Would the Project induce substantial unplanned population growth in an area, either directly (for example, by new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

No Impact: The United States Census Bureau stated the population in the City of Visalia to be 143,966 as of July 2022. The Project proposes to construct 225 new single family residential units. The US Census Bureau states that the Visalia's average household size is 3.05 persons. Based on this average household size, the anticipated population increase because of the proposed Project is 683 persons. The construction of housing at this location would not be unplanned, as the Visalia General Plan designated the proposed Project Site for Low Density Residential. Additionally, the City is planning for more businesses, services, and infrastructure to accommodate the new population. Overall, the Project will not constitute an unplanned increase in growth and population. There is *no impact.*

b) Would the Project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact: There Project would not displace any existing housing. Overall, this will increase the amount of available housing in the community. There is *No Impact*.

XV. PUBLIC SERVICES

Would the Project:	Potentially Significant Impact	Less than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable serve ratios, response times of other performance objectives for any of the public services:				
a. Fire protection?	☐	☐	☑	☐
b. Police protection?	☐	☐	☑	☐
c. Schools?	☐	☐	☑	☐
d. Parks?	☐	☐	☑	☐
e. Other public facilities?	☐	☐	☑	☐

Environmental Setting

Fire

Visalia and Project Site is served by The Visalia Fire Department (VFD), which operates 5 fire stations within the City of Visalia. The VFD will continue to provide fire protection services to the proposed Project Site following Project implementation. VFD Fire Station #53 is the nearest fire station to the site, approximately .7 miles to the southeast.

Police

Law enforcement services are provided to the Project Site via The Visalia Police Department (VPD). The VPD will continue to provide police protection services to the proposed Project Site following Project implementation. The VPD headquarters are located approximately 3.4 miles northeast of the proposed Project site. VPD Substation District 2 is located approximately 2.6 miles southeast of the Project Site.

Schools

The proposed Project Site is located within the Visalia Unified School District (VUSD) from Kindergarten through 12th Grade. The District includes 25 elementary schools, four middle schools, four traditional high schools, and alternative education programs. The nearest schools are located approximately .2 miles northeast (Central Valley Christian Schools) and .65 miles southeast (El Diamonte High School).

Regulatory Setting

California Fire Code

The California Fire Code (Title 24, Part 9 of the California Code of Regulations) establishes regulations to safeguard against hazards of fire, explosion, or dangerous conditions in new and existing buildings, structures, and premises. The provisions of the Fire Code apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal, and demolition of every building or structure throughout the State of California. The Fire Code includes regulations regarding fire-resistance-rated construction, fire protection systems such as alarm and sprinkler systems, fire services features such as fire apparatus access roads, means of egress, fire safety during construction and demolition, and wildland-urban interface areas.

City of Visalia Fire Department Plan Check and Hydrant Ordinance

Visalia's requirements for new construction include provisions for the Fire Department to review building and Site plans prior to the issuance of any permit. The Fire Department ensures that proposed projects will be adequately served by water, and accessible to emergency vehicles. The Department also enforces the City's Hydrant Ordinance, which states that subdividers are responsible for the installation of water mains and hydrants and determines the minimum spacing for fire hydrants. Street dimensions are scrutinized to ensure that space will be preserved for ladder trucks to be stabilized, and for emergency vehicles to turn around. Basic requirements in the City's subdivision ordinance include 52-foot minimum right-of-way widths and a 53-foot turning radius for cul-de-sacs.

Discussion

a) Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable serve ratios, response times of other performance objectives for any of the public services:

a. Fire protection?

Less than Significant Impact: The VFD will provide fire protection services to the proposed development. The closest fire station is Station #53, located .7 miles southeast of the Project Site at 5025 W Walnut Ave. The Fire Department uses the National Fire Protection Association (NFPA) standard for fire protection services, which requires 1 responder per 1,000 residents. The addition of 225 residential units will increase the demand for fire protection services. The City currently has .48 responders per 1,000 residents. By 2030, the city expects growth up to a total of 210,000 residents. This would result in .32 responders per 1,000 residents. This will require an additional 85

on-duty responders by 2030 to meet 1 responder per 1,000 residents, or 41 new responders to meet the current ratio. The existing fire stations are placed to provide optimum service, however new stations will be needed to support the expanding city. To support the expansion of fire services, a development impact fee will be paid for fire services.

The timing of when new fire service facilities would be required or details about size and location cannot be known until such facilities are planned and proposed, and any attempt to analyze impacts to a potential future facility would be speculative. As new or expanded fire service facilities become necessary, construction or expansion projects would be subject to their own separate CEQA review in order to identify and mitigate any potential environmental impacts. Therefore, the impact is *less than significant.*

b. Police protection?

Less than Significant Impact: The VPD will provide services to the proposed development. The VPD headquarters are located approximately 3.4 miles northeast of the proposed Project Site. VPD Substation District 2 is located approximately 2.6 miles southeast of the Project Site. The development would increase the demand for police service with the addition of 225 residential units. The VPD does not establish service standards either in terms of officers per thousand residents or in incident response time but plans to maintain the current ratio of 1.7 officers per 1,000 residents. The Department has 143 sworn officers working out of two districts, as well as seven reserve sworn officers, 64 civilian officers, and 65 volunteers. The demand for additional officers and equipment will be compensated for by the development impact fee.

The timing of when new police service facilities would be required or details about size and location cannot be known until such facilities are planned and proposed, and any attempt to analyze impacts to a potential future facility would be speculative. As new or expanded police service facilities become necessary, construction or expansion projects would be subject to their own separate CEQA review in order to identify and mitigate any potential environmental impacts. Therefore, the impact is *less than significant*.

c. Schools?

Less than Significant Impact: The proposed Project is within the (VUSD) from Kindergarten through 12th Grade. The District includes 25 elementary schools, four middle schools, four traditional high schools, and alternative education programs. The City of Visalia predicts the generation rates shown below in Table 3-17.

School Type	Single Family Generation Rate	Students
Elementary School	0.448	101
Middle School	.092	21
High School	.156	35

Table 3-17: Student Generation Rates, City of Visalia General Plan

Since the proposed Project includes the addition of 225 single family homes, the number of students will increase by approximately 157. The proposed Project Site is located within the Visalia Planning Area and therefore, growth associated with the Project has been planned and expected. In addition to the goals and policies of the City's General Plan, future development is required to pay development impact fees to the school districts at the time of building permit issuance. These impact fees are used by the school districts to maintain existing and develop new facilities, as needed. Therefore, the impact is *less than significant.*

d. Parks?

Less than Significant Impact: The addition of 225 new residential units would result in additional usage of existing parks. Parks within a one-mile radius that would service the proposed development include Sunset Park and Constitution Park, as well as Plaza Park slightly over a mile away. The Project plans to include a 4.15-acre park in the southeast corner of the Site. Since the proposed Project would contribute its fair share to parks facilities as well as any development fees, the impact is *less than significant.*

e. Other public facilities?

Less than Significant Impact: The proposed Project would be required to pay a development impact fee for Public Facilities, including for the civic center, corporation yard, and libraries. Additional development fees will be paid to offset the increased demand for public services related to transportation, water, wastewater, groundwater recharge, storm drainage, and general governmental services. Fees for transportation, water, wastewater, and general government are based on building square footage and will be calculated prior to the issuance of building permits. Fees for groundwater recharge and storm drainage are based on site acreage. While the payment of development fees could result in the construction of new or altered public service facilities, no specific projects have been identified at this time. As new or expanded public service facilities become necessary, construction or expansion projects would be subject to their own separate CEQA review in order to identify and mitigate any potential environmental impacts. Therefore, the impact is *less than significant*.

XVI. PARKS AND RECREATION

Would the project:	Potentially Significant Impact	Less than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☑	☐
b) Does the Project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☐	☐	☑

Environmental Setting

There are 40 park facilities totaling 678 acres within the Visalia Planning Area. The City of Visalia provides diverse types of parks and open space facilities, or park types, to meet park and open space recreation needs of the community. Park types include:

- Pocket Parks: A park typically between one-half and two acres in size intended to serve the needs of a specific neighborhood within a half-mile radius. There are currently 17 pocket parks in Visalia.
- Neighborhood Parks: A park typically 2 to 5 acres in size that provides basic recreation activities for one or more neighborhoods. There are currently 19 neighborhood parks in Visalia.
- Community Parks: A park typically ranging from 5 to 12 acres in size or larger, which are intended to serve the recreational needs of a larger area of the city. There are currently 4 community parks in Visalia.
- Large City Parks: A park generally larger than 40 acres in size intended to serve the recreational needs of all city residents and to create opportunities for contact with the natural environment. These parks may include a concentration of sports fields, golf courses, and areas for picnicking and passive enjoyment of open space. There are currently 2 large city parks in Visalia.
- Natural Corridors and Greenways: A network of greenways of varying size intended to serve the recreational needs of city residents. These parks may include facilities such

as bikeways, walkways, and riding trails, and are primarily developed along the city's waterways. There is a total of 196 acres of natural corridors and greenways.

The Visalia Planning Area additionally contains two county parks and a public golf course. The golf course is not counted to the total amount of parkland. The Visalia General Plan states a total parkland standard of five acres of city parkland per 1,000 residents.

Regulatory Setting

Quimby Act

The 1975 Quimby Act (California Government Code section 66477) authorized cities and counties to pass ordinances requiring that developers set aside land, donate conservation easements, or pay fees for park improvements. The Act states that the dedication requirement of parkland can be a minimum of three acres per thousand residents or more and up to five acres per thousand residents if the existing ratio is greater than the minimum standard. Revenues generated through in-lieu fees collected and the Quimby Act cannot be used for the operation and maintenance of park facilities. In 1982, the Act was substantially amended. The amendments further defined acceptable uses of or restrictions on Quimby funds, provided acreage/population standards and formulas for determining the exaction, and indicated that the exactions must be closely tied (nexus) to a project's impacts as identified through studies required by the California Environmental Quality Act (CEQA).

City of Visalia General Plan

The 2030 General Plan includes the policies related to parks and recreation that correlate to the proposed project:

- *PSCU-P-2*: Strive to achieve and maintain a citywide standard of at least five acres of neighborhood and community parks per 1,000 residents.
- *PSCU-P-7*: Promote development of small pocket parks or play lots dispersed throughout new neighborhoods and in existing neighborhoods, where needed, on a voluntary basis in coordination with new infill development, consistent with the following planning guidelines:
    - Size: 0.5 to 2 acres; and
    - Facilities: the specific features of pocket parks should address the anticipated needs of nearby residents and/or workers. In a residential environment, the needs of small children and seniors should be emphasized. In mixed-use or commercial areas, lunchtime use by office workers and shoppers should be facilitated.

- *PSCU-P-10*: Adopt and implement parkland dedication requirements for all subdivisions, consistent with the Quimby Act and Policy PSCU-P-2. This requirement will be integrated with the City's Park Acquisition Development Fee Program.

Discussion

a) Would the Project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Less than Significant Impact: The proposed Project is anticipated to increase the Visalia population by approximately 683 residents. Based on the desired parkland ratio of five acres per 1000 residents identified in the Visalia General Plan, the Project would need to provide approximately 3.42 acres of parkland/open space. The Project has 4.15 acres of parkland, more than the required amount. The impact is *less than significant.*

b) Does the Project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

No Impact: The proposed Project does not include any recreational facilities or require the construction or expansion of any recreational facilities that would have an adverse physical effect on the environment. There is *no impact.*

XVII. TRANSPORTATION

Would the project:	Potentially Significant Impact	Less than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?	☐	☑	☐	☐
b) Conflict or be inconsistent with the CEQA guidelines Section 15064.3, Subdivision (b)?	☐	☐	☑	☐
d) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☑
e) Result in inadequate emergency access?	☐	☐	☐	☑

Environmental Setting

Vehicular Access

Vehicular access to the Project is available via South Roeben Street on the East side of the site, and South Shirk Road (Road 92) on the West side of the site. The Project includes a network of local streets that provide full access to the Project site.

Parking

Each Single-Family home will contain at least a two-car garage, as well as room for two more cars in the driveway. Street parking will be limited due to reduced street widths. During construction, workers will utilize existing parking areas and/or temporary construction staging areas for parking vehicles and equipment.

Regulatory Setting

CEQA Guidelines Section 15064.3, Subdivision (b): Criteria for Analyzing Transportation Impacts

(1) Land Use Projects. Vehicle miles traveled exceeding an applicable threshold of significance may indicate a significant impact. Generally, projects within one-half mile of either an existing major transit stop or a stop along an existing high-quality transit corridor should be presumed to cause a less than significant transportation impact.

Projects that decrease vehicle miles traveled in the Project area compared to existing conditions should be considered to have a less than significant transportation impact.

(2) Transportation Projects. Transportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. To the extent that such impacts have already been adequately addressed at a programmatic level, a lead agency may tier from that analysis as provided in Section 15152.

(3) Qualitative Analysis. If existing models or methods are not available to estimate the vehicle miles traveled for the particular Project being considered, a lead agency may analyze the project's vehicle miles traveled qualitatively. Such a qualitative analysis would evaluate factors such as the availability of transit, proximity to other destinations, etc. For many projects, a qualitative analysis of construction traffic may be appropriate.

(4) Methodology. A lead agency has discretion to choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revisions to model outputs should be documented and explained in the environmental document prepared for the project. The standard of adequacy in Section 15151 shall apply to the analysis described in this section.

City of Visalia Standard Specifications

The City of Visalia Standard Specifications are developed and enforced by the City of Visalia Public Works Department to guide the development and maintenance of streets within the City. The cross-section drawings contained in the City's Standard Specifications dictate the development of roads within the City.

City of Visalia General Plan:

The 2030 General Plan includes the policies related to transportation that correlate to the proposed project:

- *T-P-3*: Design and build future roadways that complement and enhance the existing network, as shown on the General Plan Circulation Diagram, to ensure that each new and existing roadway continues to function as intended.
- *T-P-5*: Take advantage of opportunities to consolidate driveways, access points, and curb cuts along existing arterials when a change in development or a change in intensity occurs or when traffic operation or safety warrants.
- *T-P-10*: Manage local residential streets to limit average daily vehicle volumes to 1,500 or less and maintain average vehicle speeds between 15 and 25 miles per hour.

- *T-P-22*: Require all residential subdivisions to be designed to discourage use of local streets as a bypass to congested arterials, and when feasible, require access to residential development to be from collector streets.
- *T-P-23*: Require that all new developments provide right-of-way, which may be dedicated or purchased, and improvements (including necessary grading, installation of curbs, gutters, sidewalks, parkway/landscape strips, bike, and parking lanes) other city street design standards. Design standards will be updated following General Plan adoption.
- *T-P-24*: Require that proposed developments make necessary off-Site improvements if the location and traffic generation of a proposed development will result in congestion on major streets or failure to meet LOS D during peak periods or if it creates safety hazards.
- *T-P-26*: Require that future commercial developments or modifications to existing developments be designed with limited points of automobile ingress and egress, including shared access, onto major streets.
- *T-P-40*: Develop a community-wide trail system along selected planning area waterways, consistent with the Waterways and Trails Master Plan and General Plan diagrams.

Discussion

a) Would the Project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

Less than Significant Impact with Mitigation Incorporated: The existing General Plan established LOS "D" as the minimum acceptable LOS standard on city facilities. A traffic study prepared for the Project (Appendix D) concluded that the Project would not result in a significant increase in vehicle or truck trips.

Table 3-18 shows the estimated vehicle trips generated for the proposed project. The proposed Project is expected to generate approximately 2,119 daily trips, including 155 AM peak hour trips (39 inbound, 116 outbound) and 212 PM peak hour trips (134 inbound, 78 outbound).

	Total Units	Daily*	AM Peak Hour*				PM Peak Hour*			
		Trips	% In: Out	In	Out	Total	% In: Out	In	Out	Total
Single-Family Detached Housing (ITE Code 210)	224	2119	25:75	39	116	155	63:37	134	78	212

Table 3-18: Proposed Project Trip Generation

Based on the number of peak hour trips calculated (between 200-499 residential trips in the peak hour), the study falls into Category II traffic impact analysis. Category II requires all signalized and major intersections be studied within a 1/2-mile radius of the Project.

Following are the intersections included in the study:

- Road 92/Shirk Street & State Route 198 Eastbound Ramps
- Road 92/Shirk Street & State Route 198 Westbound Ramps
- Road 92/Shirk Street & Tulare Avenue
- Road 92/Shirk Street & Walnut Avenue
- Roeben Street & Tulare Avenue
- Roeben Street & Walnut Avenue
- Street 3 and Tulare Avenue
- Street 6 and Tulare Avenue
- Avenue 4 and Shirk Street
- Avenue 6 and Roeben Street

In accordance with Category II requirements, analysis will be provided for the following scenarios:

- Existing: The current traffic conditions without any modifications or the proposed project.
- 2028 Cumulative (Opening Year): Projected traffic conditions for the year 2028 without the proposed project.
- 2028 Cumulative + Project: Projected traffic conditions for the year 2028 including the traffic generated by the proposed project.
- 2028 Cumulative + Project with Mitigation: Projected traffic conditions for the year 2028 including the traffic generated by the proposed project and any mitigation measures applied.
- 2033 Cumulative: Projected traffic conditions for the year 2033 without the proposed project.
- 2033 Cumulative + Project: Projected traffic conditions for the year 2033 including the traffic generated by the proposed project
- 2033 Cumulative + Project with Mitigation: Projected traffic conditions for the year 2033 including the traffic generated by the proposed project and any mitigation measures applied.

Based on the results of the Level of Service (LOS) analysis and the eight-hour vehicular volume warrants, and the City of Visalia thresholds for mitigation, it is recommended that signals be constructed at three intersections in order to operate at an acceptable level of service by the year 2033.

- Shirk Street and SR 198 WB Ramps
- Shirk Street and SR 138 EB Ramps
- Shirk Street and Walnut Avenue

The Project will pay its fair share of traffic impact fees to support payment of the signals. The Project will incorporate mitigation measure TRAN-1, which is constructing signals at Shirk Street and SR 198 WB Ramps, Shirk Street and SR 138 EB Ramps, and Shirk Street and Walnut Avenue by the year 2028 to operate at an acceptable level of service by the year 2033, with the Project contributing its fair share of traffic impact fees. There is *a less than significant impact with mitigation incorporated.*

b) Would the Project conflict or be inconsistent with CEQA Guidelines Section 15064.3, Subdivision (b)?

Less than Significant Impact: The City of Visalia's *VMT Thresholds and Implementation Guidelines* (Guidelines) document, prepared by LSA and adopted on March 15, 2021, provides guidance for determining a project's transportation impacts based on vehicle miles traveled (VMT). The Guidelines acknowledge that certain activities and projects may result in a reduction in VMT and GHG emissions and, therefore, a less than significant impact to transportation and circulation. A variety of projects may be screened out of a complicated VMT analysis due to the presumption described in the TA regarding the occurrence of less than significant impacts.

The Guidelines state: *"Residential, office, or mixed-use projects that are consistent with the City's General Plan and located within green-colored VMT zones, as shown in Figures 6, 7, and 8, respectively, are presumed to have similar low VMT profiles and could be screened out from further VMT analysis."*

The State of California Governor's Office of Planning and Research document entitled Technical Advisory on Evaluating Transportation Impacts in CEQA dated December 2018 (OPR Guidelines) provides the reasoning for the screen out. The OPR Guidelines state:

"Residential and office projects that are located in areas with low VMT, and that incorporate similar features (i.e., density, mix of uses, transit accessibility), will tend to exhibit similarly low VMT. Maps created with VMT data, for example from a travel survey or a travel demand model, can illustrate areas that are currently below the threshold VMT. Because new development in such locations would likely result in a similar level of VMT, such maps may be used to screen out residential and office projects from needing to prepare a detailed VMT analysis."

A Traffic Study for the proposed Project was prepared by Ruettgers & Schuler, and an evaluation of project vehicle miles traveled (VMT) was conducted based on VMT analysis guidelines adopted by the City of Visalia. The guidelines provide "screening thresholds" for identifying whether a land use project should be expected to result in a less than significant transportation impact under CEQA. Projects meeting one or more of these criteria would not be required to undergo a detailed VMT analysis. One of the screening criteria is "Project Location Screening". Development projects that are located in a low VMT zone would be expected to generate similar low vehicle miles travelled. Using the City of Visalia online VMT screening application, the project was determined to be located in TAZ 1358. Utilizing the "VMT Per Capita" metric due to residential project, the average VMT was determined to be 8.61 miles per capita. The average VMT per service population for Tulare County is 11.9. Therefore, the project is determined to be in a low VMT zone and the project would be expected to result in a *less than significant* transportation impact under CEQA. (See Figures 3-8 and 3-9).

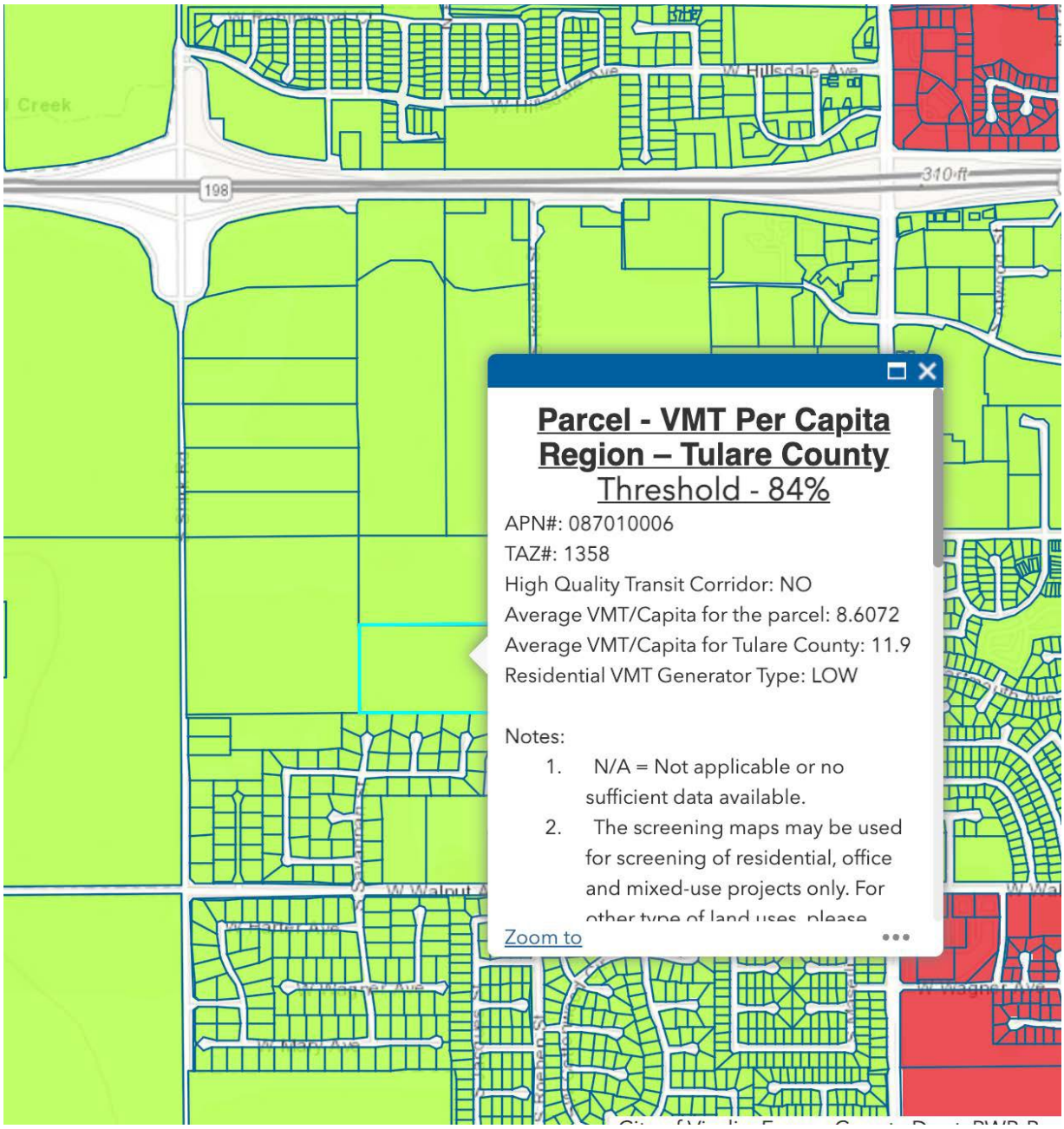


Figure 3-9: Visalia Existing VMT per Capita – First Parcel

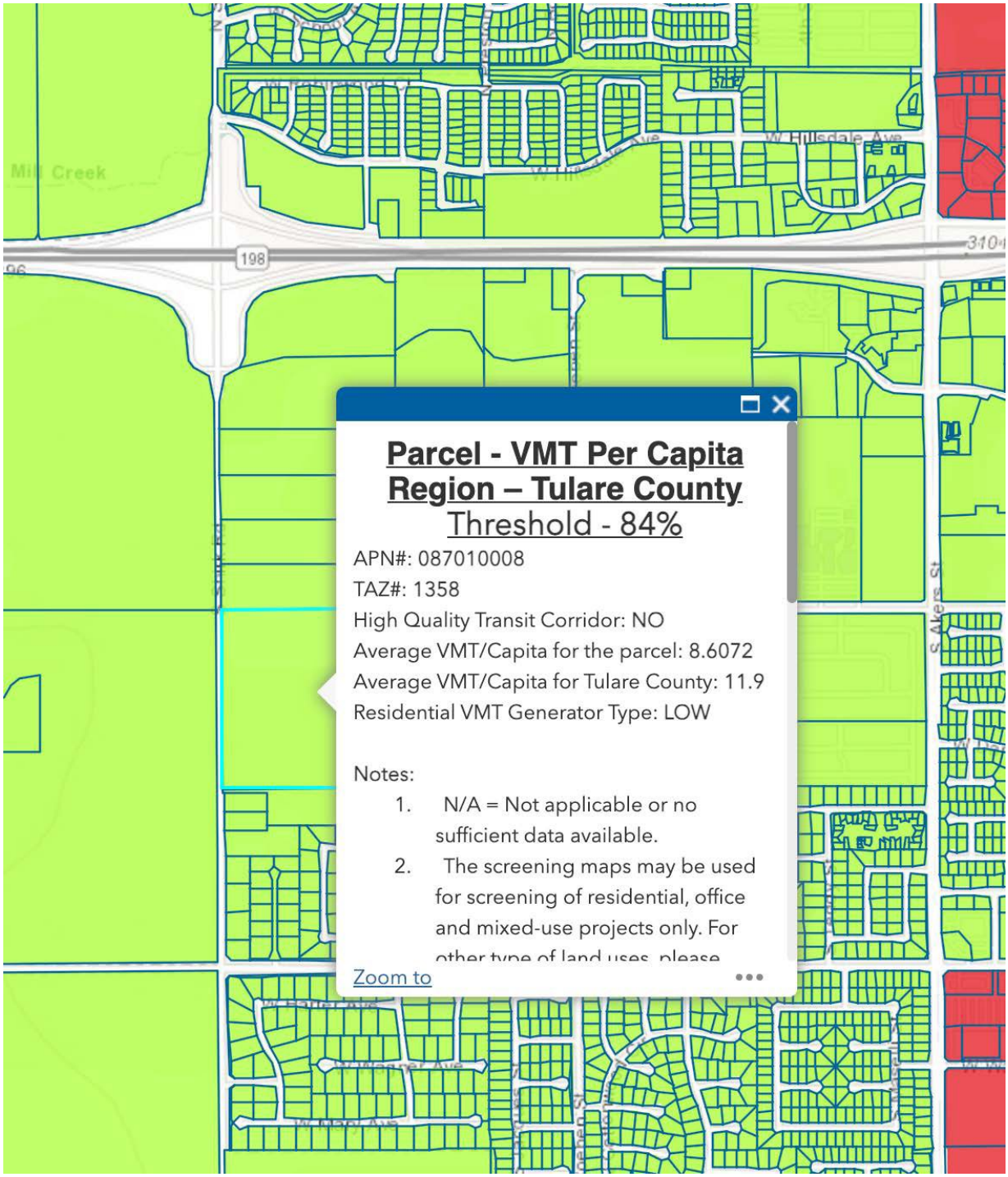


Figure 3-10: Visalia Existing VMT per Capita - Second Parcel

c) Would the Project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

No Impact: The Project does not propose any incompatible uses or include any design features that could increase traffic hazards. The Project does include three new vehicle access points on S Roeben Street, W Tulare Avenue, and S Shirk Road. This improvement will be subject to review by the City's engineer to ensure the new access point does not pose any safety risks due to the Project design. The proposed Project would not substantially increase hazards in or around the Project area there is *no impact.*

d) Would the Project result in inadequate emergency access?

No Impact: This Project would not result in inadequate emergency access. Emergency access to the Site would be via S Roeben Street, W Tulare Avenue, and S Shirk Road. During the first phase of construction, the access on S Shirk Road would not be built yet. A network of local roads within the proposed Project property provides full access to all buildings within the development. The Project would have no impact on emergency access.

Mitigation Measures for Impacts to Transportation:

Mitigation Measure TRAN-1: Based on the results of the Level of Service (LOS) analysis and the eight-hour vehicular volume warrants, and the City of Visalia thresholds for mitigation, signals shall be constructed at the following three intersections by 2028 in order to operate at an acceptable level of service by the year 2033:

- Shirk Street and SR 198 WB Ramps
- Shirk Street and SR 138 EB Ramps
- Shirk Street and Walnut Avenue

The Project applicant will pay its fair share of traffic impact fees to support payment of the signals.

XVIII. TRIBAL CULTURAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:				
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	☐	☑	☐	☐
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	☐	☑	☐	☐

Environmental Setting

Penutian-speaking Yokuts tribal groups occupied the southern San Joaquin Valley region and much of the nearby Sierra Nevada. Yokuts villages apparently extended up to, but not into, the mouths of the canyons on the northern and western fronts of the Tehachapi Mountains, well into the foothills and lower elevations of the Sierra Nevada on the east, and to the crest of the Temblor Range on the west. The Yokuts are Penutian speakers and are linguistically related to northern occupants of the San Joaquin Valley. The Yokuts settlement pattern was largely consistent, regardless of the specific tribe involved. Winter villages were typically located along lakeshores and major stream courses (as these existed circa AD 1800), with dispersal phase family camps located at elevated spots on the valley floor and near gathering areas in the foothills. Throughout Native California, and Yokuts territory in general, the acorn was a primary dietary component, along with a variety of gathered seeds. Valley tribes augmented this

resource with lacustrine and riverine foods, especially fish and wildfowl. Although population estimates vary and population size was greatly affected by the introduction of Euro-American diseases and social disruption, the Yokuts were one of the largest, most successful groups in Native California. Cook (1978) estimates that the Yokuts region contained 27 percent of the aboriginal population in the state at the time of contact; other estimates are even higher. Many Yokuts people continue to reside in the southern San Joaquin Valley today.

Cultural Resources Record Search

On October 13, 2023, Soar submitted a records search request to the Southern San Joaquin Valley Information Center (SSJVIC) located at the California State University, Bakersfield (Appendix A of the Cultural Resources Assessment). The purpose of this request was to identify any prehistoric or historical resources on or near the Project Site that had been previously recorded within the Project boundary and a 0.5-mile radius of the Project area and identify and review prior cultural resource investigations completed in or near the Project boundary. SSJVIC staff researched historical USGS topographic maps, reports of previous cultural resource investigations, archaeological Site and survey base maps, cultural resource records (DPR forms) as well as listings of the Historic Properties Directory of the Office of Historic Preservation, General Land Office Maps, Archaeological Determinations of Eligibility, and the California Inventory of Historic Resources. The results from the records search indicate two (2) cultural resource studies have been conducted within the Project area. According to the information on file, there is one (1) resource within the Project area. There are two (2) recorded resources within the 0.5-mile record search radius. There were seven (7) reports identified within a 0.5-mile radius of the Project area. There are no recorded tribal cultural resources within the Project area or radius that are listed in the National Register of Historic Places, the California Register of Historical Resources, the California Points of Historical Interest, California Inventory of Historic Resources, or the California State Historic Landmarks.

Native American Consultation

The State requires lead agencies to consider the potential effects of proposed projects and consult with California Native American tribes during the local planning process for the purpose of protecting Traditional Tribal Cultural Resources through the California Environmental Quality Act (CEQA) Guidelines. Pursuant to PRC Section 21080.3.1, the lead agency shall begin consultation with the California Native American tribe that is traditionally and culturally affiliated with the geographical area of the proposed project. Such significant cultural resources are either sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a tribe which is either on or eligible for inclusion in the California Historic Register or local historic register, or, the lead agency, at its discretion, and support by substantial evidence, choose to treat the resources as a Tribal Cultural Resources (PRC Section 21074(a) (1-2)).

Additional information may also be available from the California Native American Heritage Commission's Sacred Lands File per PRC Section 5097.96 and the California Historical

Resources Information System administered by the California Office of Historic Preservation. Please also note that PRC Section 21082.3(c) contains provisions specific to confidentiality.

The site contains agricultural uses, vacant land, and an oak grove. If any artifacts are inadvertently discovered during ground-disturbing activities, existing federal, State, and local laws, and regulations as well as the mitigation measures will require construction activities to cease until such artifacts are properly examined and determined not to be of significance by a qualified cultural resource professional.

The California Native American Heritage Commission (NAHC) was contacted by SOAR Environmental Consulting on October 13, 2023, to conduct a Sacred Lands File (SLF) search, and to obtain a list of tribes culturally and geographically affiliated with the Project area. On December 1st, 2023, the NAHC indicated there are no Native American traditional cultural places or sacred sites within or near the Project area. The NAHC provided a list of five (5) Tulare County Native American groups and individuals affiliated with the local tribes. On December 4th, 2023, Ms. Froshour sent letters to all individuals describing the location, and the nature of the project. In each letter, Ms. Froshour included a request for information regarding prehistoric, historic, ethnographic land use, as well as contemporary Native American values. Soar Environmental did not receive comments from the Tulare County Native American groups or affiliated individuals regarding the proposed development at the project location.

Following AB 52, Native American Tribes that could potentially be impacted by the Project were contacted. The Tribes that were formally noticed of this Project were:

- Big Sandy Rancheria of Western Mono Indians
- Dunlap Band of Mono Indians
- Kern Valley Indian Community
- Santa Rosa Rancheria Tachi Yokut Tribe
- Tubatulabals of Kern Valley
- Tule River Indian Tribe
- Wuksache Indian Tribe/Eshom Valley Band

The City did not receive any comments for this project.

Regulatory Setting

Historical Resources

Historical resources are defined by CEQA as resources that are listed in or eligible for the California Register of Historical Resources, resources that are listed in a local historical resource register, or resources that are otherwise determined to be historical under California Public Resources Code Section 21084.1 or California Code of Regulations Section 15064.5. Under these definitions Historical Resources can include archaeological resources, Tribal cultural resources, and Paleontological Resources.

Archaeological Resources
As stated above, archaeological resources may be considered historical resources. If they do not meet the qualifications under the California Public Resources Code 21084.1 or California Code of Regulations Section 15064.5, they are instead determined to be "unique" as defined by the CEQA Statute Section 21083.2. A unique archaeological resource is an artifact, object, or Site that: (1) contains information (for which there is a demonstrable public interest) needed to answer important scientific research questions; (2) has a special and particular quality, such as being the oldest of its type or the best available example of its type; or (3) is directly associated with a scientifically recognized important prehistoric or historic event or person.

Tribal Cultural Resource (TCR)
Tribal Cultural Resources can include Site features, places, cultural landscapes, sacred places, or objects, which are of cultural value to a Tribe. It is either listed on or eligible for the CA Historic Register or a local historic register or determined by the lead agency to be treated as TCR.

Paleontological Resources
For the purposes of this section, "paleontological resources" refers to the fossilized plant and animal remains of prehistoric species. Paleontological Resources are a limited scientific and educational resource and are valued for the information they yield about the history of the earth and its ecology. Fossilized remains, such as bones, teeth, shells, and leaves, are found in geologic deposits (i.e., rock formations). Paleontological resources generally include the geologic formations and localities in which the fossils are collected.

Native American Reserve (NAR)
This designation recognizes tribal trust and reservation lands managed by a Native American Tribe under the United States Department of the Interior's Bureau of Indian Affairs over which the County has no land use jurisdiction. The County encourages adoption of tribal management plans for these areas that consider compatibility and impacts upon adjacent area facilities and plans.

National Historic Preservation Act
The National Historic Preservation Act was adopted in 1966 to preserve historic and archeological sites in the United States. The Act created the National Register of Historic Places, the list of National Historic Landmarks, and the State Historic Preservation offices.

California Historic Register
The California Historic Register was developed as a program to identify, evaluate, register, and protect Historical Resources in California. Historical resources may include, but are not limited to, "any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically or archaeologically significant" (PRC §5020.1[j]). In addition, a resource included in a local register of historical resources or identified as significant in a local

survey conducted in accordance with the state guidelines are also considered historic resources under California Public Resources Code (PRC) Section 5020.1.
According to CEQA guidelines §15064.5 (a)(3), criteria for listing on the California Register of Historical Resources includes the following:

- Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- Is associated with the lives of persons important in our past.
- Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
- Has yielded, or may be likely to yield, information important in prehistory or history.

According to CEQA guidelines §21074 (a)(1), criteria for tribal cultural resources includes the following:

- Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
    - Included or determined to be eligible for inclusion in the California Register of Historical Resources.
    - Included in a local register of historical resources as defined in subdivision (k) of Section 5020.1.

Protection of cultural resources within California is additionally regulated by PRC §5097.5, which prohibits destruction, defacing, or removal of any historic or prehistoric cultural features on land under the jurisdiction of State or local authorities.

City of Visalia General Plan

The 2030 General Plan includes the policies related to tribal resources that correlate to the proposed project:

- *OSC-P-42*: Establish requirements to avoid potential impacts to sites suspected of being archeologically, paleontologically, or historically significant or of concern, by:
- Requiring a records review for development proposed in areas that are considered archaeologically or paleontologically sensitive;
- Determining the potential effects of development and construction on archaeological or paleontological resources (as required by CEQA);
- Requiring pre-construction surveys and monitoring during any ground disturbance for all development in areas of historical and archaeological sensitivity (defined as areas identified according to the National Historic Preservation Act as part of the Section 106 process); and

- Implementing appropriate measures to avoid the identified impacts, as conditions of Project approval.

Discussion

a) Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or

Less Than Significant Impact with Mitigation: The Project would not cause a substantial adverse change in the significance of a tribal cultural resource that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources. Based on the results of the records search, no previously recorded tribal cultural resources are located within the Project site. Although no tribal cultural resources were identified, the presence of remains or unanticipated cultural resources under the ground surface is possible. Therefore, Tribes that can potentially be impacted were consulted. The City did not receive any comments for this project. Implementation of Mitigation Measures CUL-1, CUL-2, CUL-3, and CUL-4 will ensure that impacts to this checklist item will be *less than significant with mitigation* incorporation.

ii. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Less Than Significant Impact with Mitigation: The lead agency has not determined there to be any known tribal cultural resources located within the Project area. Additionally, there are not believed to be any paleontological resources or human remains buried within the Project area's vicinity. However, if resources were found to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resources to a California Native American Tribe. Implementation of Mitigation Measures CUL-1 and CUL-2 will ensure that any impacts resulting from Project implementation remain *less than significant with mitigation* incorporation.

Mitigation Measures for Impacts to Cultural Resources:

Mitigation Measure CUL-1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City's Historic Preservation Ordinance.

If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA Guidelines, measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the Site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any historical artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.

Mitigation Measure CUL-2: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the consultant on how to proceed with the remains. Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.

Mitigation Measure CUL-3: Prior to the start of construction, an archaeological firm shall be hired to conduct a pre-construction survey and submit a comprehensive report to the lead agency for review and approval prior to the start of construction. This report should document the findings of the pre-construction survey and include an assessment of the potential impacts of the proposed Project on any identified archaeological resources. The

plan should outline specific measures that will be implemented, such as construction phasing, Site buffering, and artifact preservation, to protect the cultural resources, if any are discovered. To ensure compliance, the Project approval should require that the archaeological survey report and the associated plan be prepared by a qualified archaeologist and that the survey and monitoring activities be conducted in accordance with relevant state and federal regulations and best practices. By requiring a comprehensive archaeological survey report and a detailed mitigation plan, the lead agency can ensure that any impacts to archaeological resources are avoided or minimized to the fullest extent possible.

Mitigation Measure CUL-4: During any ground disturbing activities, an archaeological firm shall be hired to monitor the Project Site. The monitoring should be conducted by a qualified archaeologist with experience in the region and in compliance with relevant state and federal regulations and best practices. The monitoring should include regular Site inspections to identify any archaeological resources that may have been uncovered during ground-disturbing activities. If any resources are identified, the monitoring should also include documentation, mapping, and analysis of the resources, as well as the development of a mitigation plan to address any potential impacts to the resources.

XIX. UTILITIES AND SERVICE SYSTEMS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relation of which could cause significant environmental effects?	☐	☐	☑	☐
b) Have sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☑	☐
c) Result in a determination by the wastewater treatment provider which serves or may serve the Project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☑	☐
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☐	☑
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☐	☑

Environmental Setting

Wastewater

Sewer services will be provided to the Site by the City of Visalia. The City owns a Water Conservation Plant (WCP) to treat wastewater. Presently, the WCP's permitted capacity as established by the Regional Water Quality Control Board (RWQCB) is 20 million gallons per day (mgd). A planned upgrade will increase the capacity to 26 mgd. The WCP currently has a daily flow of 13 mgd. The City of Visalia operates a sewer system divided into eight service areas. The system currently has over 468 miles of sewer pipe.

A Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) Calculation memo was prepared for this project to calculate the assumed volume of effluent (Appendix F). The result showed the Project would have an expected flow of 48,000 Gallons per day and produce a total BOD of 1,009.21 lbs/day and 889.60 lbs/day of TSS.

Solid Waste

The City of Visalia provides residential waste pickup but has contracts with companies for other aspects. Sunset Waste Systems provides waste collection for commercial uses and processes recyclable material. Tulare County Compost and Biomass processes green waste.

The Tulare County Resource Management Agency manages solid waste disposal. Programs include household hazardous waste disposal, electronics recycling, tire recovery, yard waste recycling, metal recycling and appliance recovery programs. The county landfills approximately 300,000 tons of waste per year, which is equivalent to about 5 pounds per person per day or one ton per county resident per year. The County operates two disposal sites: the Visalia Disposal Site, northwest of Visalia; and the Woodville Disposal Site, southeast of Tulare. These sites have a remaining capacity of 23,115,774 cubic yards, with a total capacity of 30,555,116 cubic yards.

Water

The California Water Service Company (Cal Water) distributes groundwater supply. Cal Water's Visalia District supply wells extract groundwater from the Kaweah Groundwater Subbasin. The Cal Water system includes 75 operational groundwater wells, about one third of which have auxiliary power for backup. There are 519 miles of main pipeline in the system. The system includes two elevated 300,000-gallon storage tanks, an ion exchange treatment plant, four granular activated carbon filter plants and one nitrate blending facility.

The system currently has the capacity to pump 100,829 acre-feet per year (AFY), all from groundwater. This will be able to supply a growing population, as in 2010, 31,762 AF was needed. By 2030, the City is expected to use 43,002 AFY.

Regulatory Setting

CalRecycle

California Code of Regulations, Title 14, Natural Resources – Division 7 contains all current CalRecycle regulations regarding nonhazardous waste management in the state. These regulations include standards for the handling of solid waste, standards for the handling of compostable materials, design standards for disposal facilities, and disposal standards for specific types of waste.

Central Valley RWQCB

The Central Valley RWQCB requires a Stormwater Pollution Prevention Plan (SWPPP) for projects disturbing more than one acre of total land area. Because the Project is greater than one acre, a SWPPP to manage stormwater generated during Project construction will be required.

The Central Valley RWQCB regulates Wastewater Discharges to Land by establishing thresholds for discharged pollutants and implementing monitoring programs to evaluate program compliance. This program regulates approximately 1500 dischargers in the region.

The Central Valley RWQCB is also responsible for implementing the federal program, the National Pollutant Discharge Elimination System (NPDES). The NPDES Program is the federal permitting program that regulates discharges of pollutants to surface waters of the U.S. Under this program, a NPDES permit is required to discharge pollutants into Waters of the U.S. There are 350 permitted facilities within the Central Valley Region.

Cal Water Urban Water Management Plan (UWMP) – Visalia District

The UWMP describes the Visalia District service area, system demand and usage, available water resources, reliability of the water supply, and contingency planning for water shortage. It also contains a conservation section in compliance with SB X7-7 describing water usage reduction targets and implementation measures. The UWMP identifies five core programs for water conservation in the District that involve promotion of high-efficiency fixtures in residential settings, promotion of high-efficiency irrigation systems, and public information and education.

City of Visalia General Plan

The 2030 General Plan includes the objectives and policies related to utilities and service systems that correlate to the proposed project:

- *PSCU-O-14*: Provide for long-range community water needs by adopting best management practices for water use, conservation, groundwater recharge and wastewater and stormwater management.
- *PSCU-P-46*: Adopt and implement a Water Efficient Landscaping Ordinance for new and/or refurbished development that exceeds mandated sizes, and ensure that all new City parks, streetscapes, and landscaped areas conform to the Ordinance's requirements. The Ordinance should include provisions to optimize outdoor water use by:
    - Promoting appropriate use of plants and landscaping;
    - Establishing limitations on use of turf including size of turf areas and use of cool-season turf such as Fescue grasses, with exceptions for specified uses (e.g., recreation playing fields, golf courses, and parks);
    - Establishing water budgets and penalties for exceeding them;
    - Requiring automatic irrigation systems and schedules, including controllers that incorporate weather-based or other self-adjusting technology;
    - Promoting the use of recycled water; and
    - Minimizing overspray and runoff.
- *PSCU-P-59*: Require new developments to incorporate floodwater detention basins into Project designs where consistent with the Stormwater Master Plan and the Groundwater Recharge Plan.

- *PSCU-P-60*: Control urban and stormwater runoff and point and non-point discharge of pollutants. As part of the City's Stormwater Management Program, adopt and implement a Stormwater Management Ordinance to minimize stormwater runoff rates and volumes, control water pollution, and maximize groundwater recharge. New development will be required to include Low Impact Development features that reduce impermeable surface areas and increase infiltration. Such features may include, but are not limited to:
    - Canopy trees or shrubs to absorb rainwater;
    - Grading that lengthens flow paths over permeable surfaces and increases runoff travel time to reduce the peak hour flow rate;
    - Partially removing curbs and gutters from parking areas where appropriate to allow stormwater sheet flow into vegetated areas;
    - Use of permeable paving in parking lots and other areas characterized by significant impervious surfaces;
    - On-Site stormwater detention, use of bioswales and bioretention basins to facilitate infiltration; and
    - Integrated or subsurface water retention facilities to capture rainwater for use in landscape irrigation and other non-potable uses.

Discussion

a) Would the Project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relation of which could cause significant environmental effects?

Less than Significant Impact: The proposed Project would result in new water services. However, the proposed Site has no change of use proposal. Visalia's current system for water and wastewater has the capacity to manage the projected growth expected from the land uses in the General Plan. To compensate for these services, new development will be required to pay impact fees. It is not anticipated that implementation of the proposed Project would result in increased demand for any utility services beyond the planned conditions. There is *a less than significant impact.*

b) Would the Project have sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less than Significant Impact: Cal Water will provide water services. The City's water supply source is comprised of 75 operational groundwater wells. The system currently has the capacity to pump 100,829 acre-feet per year (AFY), all from groundwater. This system can

support an expanding population, evidenced by the requirement for 31,762 acre-feet (AF) of resources in 2010. By 2030, the city is expected to use 43,002 AFY. Using average per-person water use in Visalia (183 gallons; 2020 Urban Water Management Plan) and the average household size in Visalia (3.05 persons; US Census Bureau), water demand for the proposed 225-unit residential development is estimated to be approximately 125,584 gallons of water daily, or about 141-acre feet per year. With the system capacity of 100,829 AFY, there will be enough water supply for the proposed project. The Project does not propose any new or expanded uses against the Visalia General Plan. The available water supply is expected to be enough to supply the projected population. In 2030, the projected demand is expected to 35,276 AF of groundwater, in 2035, there is expected to be 38,310 AF of groundwater, and in 2040 there is expected to be 41,258 AF of groundwater. To compensate for these services, new development will be required to pay impact fees for new water services, along with the reduced water use implementations from the polices set forth in the Visalia General Plan. Therefore, the impact is *less than significant.*

c) Would the Project result in a determination by the wastewater treatment provider which serves or may serve the Project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Less than Significant Impact: The Project does not propose any new or expanded uses and is therefore not anticipated to result in increased demand for wastewater treatment services beyond existing conditions in the Visalia General Plan. Additionally, the City's General Plan EIR has evaluated the site's current and future wastewater service demand. The current capacity of the wastewater system is approximately 20 mgd. It currently receives 13 mgd, leaving an available 7 mgd. In addition, a future upgrade plans to increase the capacity to 26 mgd. From the calculations in Appendix F, the project is expected to produce a total flow of 48,000 GPD.

Because the City's sewer system has the capacity to meet the Project site's expected demand for wastewater treatment, and it is not anticipated that the Project will increase the site's demand for wastewater treatment, it can be inferred that the existing wastewater treatment system has adequate capacity to serve the proposed project. There is a *less than significant impact.*

d) Would the Project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

No Impact: The Project does not propose any new or expanded uses and is therefore not anticipated to result in increased generation of solid waste beyond existing conditions. Additionally, the disposal sites are at less than half capacity. Because the City's existing infrastructure has the capacity to accommodate the solid waste currently planned in the General Plan for expanded population, it can be inferred that the existing solid waste

infrastructure has adequate capacity to serve the proposed project. The Project would not generate solid waste more than State or Local Standards and there is *no impact.*

e) Would the Project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

No Impact: This proposed Project conforms to all applicable statutes and regulations related to solid waste disposal. The proposed Project will comply with the adopted policies related to solid waste, and will comply with all applicable federal, state, and local statutes and regulations pertaining to disposal of solid waste, including recycling. Therefore, the proposed Project would have *no impact* on solid waste regulations.

XX. WILDFIRE

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☑
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose Project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☑
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☑	☐
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☑

Environmental Setting

There are no State Responsibility Areas (SRAs) within the vicinity of the Project site, and the Project Site is not categorized as a "Very High" Fire Hazard Severity Zone (FHSZ) by CalFire. This CEQA topic only applies to areas within an SRA or a Very High FHSZ.

Regulatory Setting

Fire Hazard Severity Zones: geographical areas designated pursuant to California Public Resources Codes Sections 4201 through 4204 and classified as Very High, High, or Moderate in State Responsibility Areas or as Local Agency Very High Fire Hazard Severity Zones designated pursuant to California Government Code, Sections 51175 through 51189.

Discussion

a) Would the Project substantially impair an adopted emergency response plan or emergency evacuation plan?

No Impact: The Project would not substantially impair an adopted emergency response plan or emergency evacuation plan. The Visalia Fire Department will review the Project to ensure the Project does not impair emergency response or emergency evacuation. Additionally, the proposed Project Site is not located within an SRA or a Very High FHSZ. There is *no impact.*

b) Due to slope, prevailing winds, and other factors, would the Project exacerbate wildfire risks, and thereby expose Project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

No Impact: The Project is located on a flat area of agricultural and urban land which is at little risk of fire. Additionally, the proposed Project Site is not located within an SRA or a Very High FHSZ. There is *no impact.*

c) Would the Project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Less than Significant Impact: The construction of the Project involves adding new local residential streets, and new and relocated utilities. Utilities such as emergency water sources and power lines would be included as part of the proposed development, however all improvements would be subject to City standards and Fire Chief approval. The proposed Project would not exacerbate fire risk and the impact would be *less than significant.*

d) Would the Project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire instability, or drainage changes?

No Impact: The Project Site is not located in an area designated as a Fire Hazard Severity Zone and lands associated with the Project Site are relatively flat. Therefore, the Project would not be susceptible to downslope or downstream flooding or landslides as a result of post-fire instability or drainage changes. There is *no impact.*

XXI. MANDATORY FINDINGS OF SIGNIFICANCE

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporation	Less than Significant Impact	No Impact
a) Does the Project have the potential substantially to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	☐	☑	☐	☐
b) Does the Project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a Project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☐	☑	☐
c) Does the Project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☐	☑	☐

Discussion

a) Does the Project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less than Significant Impact with Mitigation: This initial study/mitigated negative declaration found the Project could have significant impacts on traffic, biological resources, hydrology and water quality, historical, and Tribal cultural resources. However, implementation of the identified mitigation measures for each respective section would ensure that impacts are *less than significant with mitigation incorporation.*

b) Does the Project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a Project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Less than Significant Impact: CEQA Guidelines Section 15064(h) states that a Lead Agency shall consider whether the cumulative impact of a Project is significant and whether the effects of the Project are cumulatively considerable. The assessment of the significance of the cumulative effects of a Project must, therefore, be conducted in connection with the effects of past projects, other current projects, and probable future projects. Due to the nature of the Project and consistency with environmental policies, incremental contributions to impacts are considered less than cumulatively considerable. The proposed Project would not contribute substantially to adverse cumulative conditions, or create any substantial indirect impacts (i.e., increase in population could lead to an increased need for housing, increase in traffic, air pollutants, etc). Impacts would be *less than significant*.

c) Does the Project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?

Less Than Significant Impact: The analyses of environmental issues contained in this Initial Study indicate that the Project is not expected to have substantial impact on human beings, either directly or indirectly. Mitigation measures have been incorporated in the Project design to reduce all potentially significant impacts to less than significant, which results in a *less than significant* impact to this checklist item.

3.6 MITIGATION MONITORING AND REPORTING PROGRAM

As required by Public Resources Code Section 21081.6, subd. (a)(1), a Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Project in order to monitor the implementation of the mitigation measures that have been adopted for the project. This Mitigation Monitoring and Reporting Program (MMRP) has been created based upon the findings of the Initial Study/Mitigated Negative Declaration (IS/MND) for the Elliott Property Subdivision Project in the City of Visalia.

The first column of the table identifies the mitigation measure. The second column names the party responsible for carrying out the required action. The third column, "Timing of Mitigation Measure" identifies the time the mitigation measure should be initiated. The fourth column, "Responsible Party for Monitoring," names the party ensuring that the mitigation measure is implemented. The last column will be used by the City to ensure that the individual mitigation measures have been monitored.

Plan checking and verification of mitigation compliance shall be the responsibility of the City of Visalia.

Mitigation Measure	Responsible Party for Implementation	Implementation Timing	Responsible Party for Monitoring	Verification
Mitigation Measure BIO-1: Swainson's Hawk Nesting Habitat: If construction, grading, or Project-related improvements are to commence between March 1 and September 15, a focused survey for Swainson's hawk nests on the site and within ¼ mile of the site shall be conducted by a qualified biologist no later than 30 days prior to the start of construction work (including clearing and grubbing). If active nests are found, the California Fish and Wildlife shall be contacted to determine appropriate protective measures, and these measures shall be implemented prior to the start of any ground-disturbing activities. If no active nests are found during the focused survey, no further mitigation will be required.	Project Applicant	Prior to the Start of Construction	Contractor/ Lead Agency	
Mitigation Measure BIO-1a: Nesting Bird and Roosting Bat Survey: If Project-related activities are scheduled between February 1 to August 31 (the typical nesting season), a focused survey for nests shall be conducted by a Designated Biologist within three (3) calendar days prior to the beginning of Project-related activities. The Designated Biologist shall survey a minimum radius of 500-feet for MBTA birds around the Project Area and for sign of roosting bats. If no active nests or roosts are found, project activities may proceed as scheduled.	Project Applicant	Prior to the Start of Construction	Contractor/ Lead Agency	
Mitigation Measure BIO-1b: Active Nests or Roosts: If an active nest or roost is found, active nests should be avoided, and a no disturbance or destruction buffer shall be determined and established by a Designated Biologist through consultation with CDFW. A report will be prepared documenting any active nest(s) and CDFW will be contacted and consulted in order to approve an adequate buffer size for the species. The buffer shall be kept in place until after the breeding nesting season or the Designated Biologist confirms the young have fledged, are foraging independently, and the nest is no longer active for the season. The extent of these buffers shall be determined by CDFW and established by the Designated Biologist and will depend on the species present, the level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers.	Project Applicant	Prior to the Start of Construction		

Mitigation Measure	Responsible Party for Implementation	Implementation Timing	Responsible Party for Monitoring	Verification
Mitigation Measure BIO-1c: Project Delay: If a lapse in project-related work of fourteen (14) calendar days or longer occurs, the Designated Biologist shall complete another focused survey before Project work can be reinitiated.	Project Applicant	Ongoing During Construction	Contractor/ Lead Agency	
Mitigation Measure CUL-1: If previously unknown resources are encountered before or during grading activities, construction shall stop in the immediate vicinity of the find and a qualified historical resources specialist shall be consulted to determine whether the resource requires further study. The qualified historical resources specialist shall make recommendations to the City on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation of the finds and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines and the City's Historic Preservation Ordinance. If the resources are determined to be unique historical resources as defined under Section 15064.5 of the CEQA Guidelines, measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate measures for significant resources could include avoidance or capping, incorporation of the Site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any historical artifacts recovered as a result of mitigation shall be provided to a City-approved institution or person who is capable of providing long-term preservation to allow future scientific study.	Project Applicant	Ongoing during construction	Contractor/ Lead Agency	
Mitigation Measure CUL-2: In the event that human remains are unearthed during excavation and grading activities of any future development project, all activity shall cease immediately. Pursuant to Health and Safety Code (HSC) Section 7050.5, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to PRC Section 5097.98(a). If the remains are determined to be of Native American descent, the coroner shall within 24 hours notify the Native American Heritage Commission (NAHC). The NAHC shall then contact the most likely descendent of the deceased Native American, who shall then serve as the	Project Applicant	Ongoing during construction	Contractor/ Lead Agency	

Mitigation Measure	Responsible Party for Implementation	Implementation Timing	Responsible Party for Monitoring	Verification
consultant on how to proceed with the remains. Pursuant to PRC Section 5097.98(b), upon the discovery of Native American remains, the landowner shall ensure that the immediate vicinity, according to generally accepted cultural or archaeological standards or practices, where the Native American human remains are located is not damaged or disturbed by further development activity until the landowner has discussed and conferred with the most likely descendants regarding their recommendations, if applicable, taking into account the possibility of multiple human remains. The landowner shall discuss and confer with the descendants all reasonable options regarding the descendants' preferences for treatment.				
Mitigation Measure CUL-3: Prior to the start of construction, an archaeological firm shall be hired to conduct a pre-construction survey and submit a comprehensive report to the lead agency for review and approval prior to the start of construction. This report should document the findings of the pre-construction survey and include an assessment of the potential impacts of the proposed Project on any identified archaeological resources. The plan should outline specific measures that will be implemented, such as construction phasing, Site buffering, and artifact preservation, to protect the cultural resources, if any are discovered. To ensure compliance, the Project approval should require that the archaeological survey report and the associated plan be prepared by a qualified archaeologist and that the survey and monitoring activities be conducted in accordance with relevant state and federal regulations and best practices. By requiring a comprehensive archaeological survey report and a detailed mitigation plan, the lead agency can ensure that any impacts to archaeological resources are avoided or minimized to the fullest extent possible.	Project Applicant	Prior to the Start of Construction	Contractor/ Lead Agency	
Mitigation Measure CUL-4: During any ground disturbing activities, an archaeological firm shall be hired to monitor the Project Site. The monitoring should be conducted by a qualified archaeologist with experience in the region and in compliance with relevant state and federal regulations and best practices. The monitoring should include regular Site inspections to identify any archaeological resources that may have been uncovered during ground-disturbing	Project Applicant	Ongoing during construction	Contractor/ Lead Agency	

Mitigation Measure	Responsible Party for Implementation	Implementation Timing	Responsible Party for Monitoring	Verification
activities. If any resources are identified, the monitoring should also include documentation, mapping, and analysis of the resources, as well as the development of a mitigation plan to address any potential impacts to the resources.				
Mitigation Measure HYD-1: Prior to the issuance of any construction/grading permit and/or the commencement of any clearing, grading, or excavation, the Applicant shall submit a Notice of Intent (NOI) for discharge from the Project Site to the California SWRCB Storm Water Permit Unit. • Prior to issuance of grading permits for Phase 1 the Applicant shall submit a copy of the NOI to the City. • The City shall review noticing documentation prior to approval of the grading permit. City monitoring staff will inspect the Site during construction for compliance.	Project Applicant	Prior to the Start of Construction	Contractor/ Lead Agency	
Mitigation Measure HYD-2: The Applicant shall require the building contractor to prepare and submit a Storm Water Pollution Prevention Plan (SWPPP) to the City 45 days prior to the start of work for approval. The contractor is responsible for understanding the State General Permit and instituting the SWPPP during construction. A SWPPP for Site construction shall be developed prior to the initiation of grading and implemented for all construction activity on the Project Site in excess of one (1) acre, or where the area of disturbance is less than one acre but is part of the Project's plan of development that in total disturbs one or more acres. The SWPPP shall identify potential pollutant sources that may affect the quality of discharges to storm water and shall include specific BMPs to control the discharge of material from the site. The following BMP methods shall include, but would not be limited to: • Dust control measures will be implemented to ensure success of all onsite activities to control fugitive dust; • A routine monitoring plan will be implemented to ensure success of all onsite erosion and sedimentation control measures; • Provisional detention basins, straw bales, erosion control blankets, mulching, silt fencing, sand bagging, and soil stabilizers will be used; • Soil stockpiles and graded slopes will be covered after two weeks of inactivity and 24		45 Days Prior to the Start of Construction	Contractor/ Lead Agency	

Mitigation Measure	Responsible Party for Implementation	Implementation Timing	Responsible Party for Monitoring	Verification
hours prior to and during extreme weather conditions; and, • BMPs will be strictly followed to prevent spills and discharges of pollutants onsite, such as material storage, trash disposal, construction entrances, etc.				
Mitigation Measure HYD-3: A Development Maintenance Manual for the Project shall include comprehensive procedures for maintenance and operations of any stormwater facilities to ensure long-term operation and maintenance of post-construction stormwater controls. The maintenance manual shall require that stormwater BMP devices be inspected, cleaned, and maintained in accordance with the manufacturer's maintenance conditions. The manual shall require that devices be cleaned prior to the onset of the rainy season (i.e., mid-October) and immediately after the end of the rainy season (i.e., mid-May). The manual shall also require that all devices be checked after major storm events. The Development Maintenance Manual shall include the following: • Runoff shall be directed away from trash and loading dock areas; • Bins shall be lined or otherwise constructed to reduce leaking of liquid wastes; • Trash and loading dock areas shall be screened or walled to minimize offsite transport of trash; and • Impervious berms, trench catch basin, drop inlets, or overflow containment structures nearby docks and trash areas shall be installed to minimize the potential for leaks, spills or wash down water to enter the drainage system.	Project Applicant	Prior to the Start of Construction	Contractor/ Lead Agency	
Mitigation Measure TRAN-1: Based on the results of the Level of Service (LOS) analysis and the eight-hour vehicular volume warrants, and the City of Visalia thresholds for mitigation, signals shall be constructed at the following three intersections by 2028 in order to operate at an acceptable level of service by the year 2033: • Shirk Street and SR 198 WB Ramps • Shirk Street and SR 138 EB Ramps • Shirk Street and Walnut Avenue The Project applicant will pay its fair share of traffic impact fees to support payment of the signals.	Project Applicant	Prior to the Start of Construction	Contractor/ Lead Agency	

3.7 Supporting Information and Sources

1. AB 3098 List
2. EMFAC2014
3. Tulare County General Plan
4. City of Visalia General Plan
5. City of Visalia General Plan MEIR
6. City of Visalia Greenhouse Gas Reduction Plan
7. City of Visalia Zoning Ordinance
8. Engineering Standards, City of Visalia
9. SJVAPCD Regulations and Guidelines, Ambient Air Quality Standards & Attainment Status
10. FEMA Flood Maps
11. California Air Resources Board's (CARB's) Air Quality and Land Use Handbook
12. 2019 California Environmental Quality Act CEQA Guidelines
13. California Building Code
14. California Stormwater Pollution Prevention Program (SWPPP)
15. "Construction Noise Handbook." U.S. Department of Transportation/Federal Highway Administration.
16. Government Code Section 65962.5
17. California Environmental Protection Agency (CEPA) San Joaquin Valley Air Pollution Control District Mitigation Measures (http://www.valleyair.org/transportation/Mitigation-Measures.pdf
18. Southern California Edison 2019 Power Content Label
19. Transit Noise and Vibration Impact Assessment, Federal Transit Administration, September 2018.
20. 2020 U.S. Census
21. California Department of Transportation Scenic Roadways
22. EPA, Intergovernmental Panel on Climate Change
23. 2020 Cal Water Urban Water Management Plan (UWMP) – Visalia District
24. State of California Governor's Office of Planning and Research
25. Phase I Cultural Resource Assessment – SOAR Environmental Consulting
26. Biological Resource Assessment – SOAR Environmental Consulting
27. Traffic Study/VMT Assessment - Ruettgers & Schuler Civil Engineers

Section 4

List of Preparers

City of Visalia
315 E Acequia Ave
Visalia, CA 93291

SECTION 4
List of Preparers

Project Title: Elliott Property Subdivision

List of Preparers

4-Creeks Inc.

- David Duda, AICP, GISP
- Molly Baumeister, Planner/Project Manager
- Nate Antepenko, Associate Planner
- Lisa M. Wallis-Dutra, Sr. Traffic Engineer

Persons and Agencies Consulted

The following individuals and agencies contributed to this Initial Study/Mitigated Negative Declaration:

City of Visalia

- Cristobal Carrillo, Planning Division
- Brandon Smith, Planning Division
- Leslie Blair, Senior Civil Engineer
- Adrian Rubalcaba, Associate Engineer

SOAR Environmental Consulting

- Heather Froshour, M.A., R.P.A., Senior Archaeologist

Ruettgers & Schuler Civil Engineers

- Ian Parks, PE

California Historic Resources Information System

- Celeste Thomson, Coordinator

Appendix A

CalEEMod Report

Part 1

Projected Emissions from CalEEMod

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Elliot Subdivision

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	224.00	Dwelling Unit	59.13	403,200.00	641

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	7			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot Acreage Established

Construction Phase -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	72.73	59.13
tblWoodstoves	NumberCatalytic	59.13	0.00
tblWoodstoves	NumberNoncatalytic	59.13	0.00

2.0 Emissions Summary

Elliot Subdivision - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0231	0.2313	0.1597	3.3000e-004	0.1866	0.0105	0.1971	0.0882	9.6200e-003	0.0978	0.0000	29.3733	29.3733	9.2300e-003	3.0000e-005	29.6126
2025	0.2963	2.7064	2.8528	6.3000e-003	0.8076	0.1091	0.9168	0.3353	0.1011	0.4364	0.0000	553.8911	553.8911	0.1456	5.4600e-003	559.1575
2026	0.2107	1.7848	2.3655	4.7800e-003	0.1049	0.0701	0.1750	0.0284	0.0660	0.0943	0.0000	420.7664	420.7664	0.0731	0.0104	425.6828
2027	0.2085	1.7819	2.3499	4.7500e-003	0.1049	0.0701	0.1750	0.0284	0.0659	0.0943	0.0000	417.8063	417.8063	0.0729	0.0101	422.6322
2028	0.2058	1.7728	2.3281	4.7000e-003	0.1045	0.0698	0.1743	0.0283	0.0657	0.0939	0.0000	413.4940	413.4940	0.0725	9.7800e-003	418.2194
2029	0.1859	1.6243	2.2350	4.3200e-003	0.0840	0.0664	0.1505	0.0227	0.0622	0.0850	0.0000	379.5904	379.5904	0.0755	7.3900e-003	383.6802
2030	3.8004	0.0828	0.1903	3.5000e-004	5.6200e-003	3.0900e-003	8.7100e-003	1.4900e-003	3.0900e-003	4.5900e-003	0.0000	30.0568	30.0568	1.2600e-003	9.0000e-005	30.1157
Maximum	**3.8004**	**2.7064**	**2.8528**	**6.3000e-003**	**0.8076**	**0.1091**	**0.9168**	**0.3353**	**0.1011**	**0.4364**	**0.0000**	**553.8911**	**553.8911**	**0.1456**	**0.0104**	**559.1575**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0231	0.2313	0.1597	3.3000e-004	0.1866	0.0105	0.1971	0.0882	9.6200e-003	0.0978	0.0000	29.3733	29.3733	9.2300e-003	3.0000e-005	29.6126
2025	0.2963	2.7064	2.8528	6.3000e-003	0.8076	0.1091	0.9168	0.3353	0.1011	0.4364	0.0000	553.8906	553.8906	0.1456	5.4600e-003	559.1569
2026	0.2107	1.7848	2.3655	4.7800e-003	0.1049	0.0701	0.1750	0.0284	0.0660	0.0943	0.0000	420.7661	420.7661	0.0731	0.0104	425.6824
2027	0.2085	1.7819	2.3499	4.7500e-003	0.1049	0.0701	0.1750	0.0284	0.0659	0.0943	0.0000	417.8059	417.8059	0.0729	0.0101	422.6318
2028	0.2058	1.7728	2.3281	4.7000e-003	0.1045	0.0698	0.1743	0.0283	0.0657	0.0939	0.0000	413.4936	413.4936	0.0725	9.7800e-003	418.2191
2029	0.1859	1.6243	2.2350	4.3200e-003	0.0840	0.0664	0.1505	0.0227	0.0622	0.0850	0.0000	379.5900	379.5900	0.0755	7.3900e-003	383.6799
2030	3.8004	0.0828	0.1903	3.5000e-004	5.6200e-003	3.0900e-003	8.7100e-003	1.4900e-003	3.0900e-003	4.5900e-003	0.0000	30.0568	30.0568	1.2600e-003	9.0000e-005	30.1157
Maximum	**3.8004**	**2.7064**	**2.8528**	**6.3000e-003**	**0.8076**	**0.1091**	**0.9168**	**0.3353**	**0.1011**	**0.4364**	**0.0000**	**553.8906**	**553.8906**	**0.1456**	**0.0104**	**559.1569**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	**12-1-2024**	**2-28-2025**	0.8845	0.8845
3	**3-1-2025**	**5-31-2025**	1.0169	1.0169
4	**6-1-2025**	**8-31-2025**	0.6930	0.6930
5	**9-1-2025**	**11-30-2025**	0.4991	0.4991

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6	**12-1-2025**	**2-28-2026**	0.4934	0.4934
7	**3-1-2026**	**5-31-2026**	0.5025	0.5025
8	**6-1-2026**	**8-31-2026**	0.5018	0.5018
9	**9-1-2026**	**11-30-2026**	0.4977	0.4977
10	**12-1-2026**	**2-28-2027**	0.4921	0.4921
11	**3-1-2027**	**5-31-2027**	0.5012	0.5012
12	**6-1-2027**	**8-31-2027**	0.5005	0.5005
13	**9-1-2027**	**11-30-2027**	0.4964	0.4964
14	**12-1-2027**	**2-29-2028**	0.4964	0.4964
15	**3-1-2028**	**5-31-2028**	0.5001	0.5001
16	**6-1-2028**	**8-31-2028**	0.4994	0.4994
17	**9-1-2028**	**11-30-2028**	0.4953	0.4953
18	**12-1-2028**	**2-28-2029**	0.4899	0.4899
19	**3-1-2029**	**5-31-2029**	0.4990	0.4990
20	**6-1-2029**	**8-31-2029**	0.4983	0.4983
21	**9-1-2029**	**11-30-2029**	0.3807	0.3807
22	**12-1-2029**	**2-28-2030**	1.6537	1.6537
23	**3-1-2030**	**5-31-2030**	2.3305	2.3305
		Highest	2.3305	2.3305

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0126	0.1029	1.6945	6.2000e-004		0.0160	0.0160		0.0160	0.0160	0.0000	99.7553	99.7553	4.4500e-003	1.7800e-003	100.3967
Energy	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	599.4291	599.4291	0.0321	8.4300e-003	602.7440
Mobile	0.7910	1.2261	7.5014	0.0185	2.1955	0.0142	2.2097	0.5871	0.0133	0.6004	0.0000	1,706.5533	1,706.5533	0.0840	0.0880	1,734.8701
Waste						0.0000	0.0000		0.0000	0.0000	46.8422	0.0000	46.8422	2.7683	0.0000	116.0496
Water						0.0000	0.0000		0.0000	0.0000	4.6302	19.7162	24.3464	0.4772	0.0114	39.6834
Total	**2.8322**	**1.5743**	**9.3003**	**0.0207**	**2.1955**	**0.0500**	**2.2455**	**0.5871**	**0.0492**	**0.6362**	**51.4724**	**2,425.4539**	**2,476.9262**	**3.3660**	**0.1096**	**2,593.7437**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0126	0.1029	1.6945	6.2000e-004		0.0160	0.0160		0.0160	0.0160	0.0000	99.7553	99.7553	4.4500e-003	1.7800e-003	100.3967
Energy	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	599.4291	599.4291	0.0321	8.4300e-003	602.7440
Mobile	0.7910	1.2261	7.5014	0.0185	2.1955	0.0142	2.2097	0.5871	0.0133	0.6004	0.0000	1,706.5533	1,706.5533	0.0840	0.0880	1,734.8701
Waste						0.0000	0.0000		0.0000	0.0000	46.8422	0.0000	46.8422	2.7683	0.0000	116.0496
Water						0.0000	0.0000		0.0000	0.0000	4.6302	19.7162	24.3464	0.4772	0.0114	39.6834
Total	**2.8322**	**1.5743**	**9.3003**	**0.0207**	**2.1955**	**0.0500**	**2.2455**	**0.5871**	**0.0492**	**0.6362**	**51.4724**	**2,425.4539**	**2,476.9262**	**3.3660**	**0.1096**	**2,593.7437**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	12/7/2024	1/31/2025	5	40	
2	Grading	Grading	2/1/2025	7/4/2025	5	110	
3	Building Construction	Building Construction	7/5/2025	10/5/2029	5	1110	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Paving	Paving	10/6/2029	1/18/2030	5	75	
5	Architectural Coating	Architectural Coating	1/19/2030	5/3/2030	5	75	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 330

Acres of Paving: 0

Residential Indoor: 816,480; Residential Outdoor: 272,160; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	81.00	24.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1854	0.0000	0.1854	0.0879	0.0000	0.0879	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.2310	0.1559	3.2000e-004		0.0105	0.0105		9.6100e-003	9.6100e-003	0.0000	28.4385	28.4385	9.2000e-003	0.0000	28.6684
Total	**0.0226**	**0.2310**	**0.1559**	**3.2000e-004**	**0.1854**	**0.0105**	**0.1958**	**0.0879**	**9.6100e-003**	**0.0975**	**0.0000**	**28.4385**	**28.4385**	**9.2000e-003**	**0.0000**	**28.6684**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.3000e-004	3.8200e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9348	0.9348	3.0000e-005	3.0000e-005	0.9441
Total	**4.9000e-004**	**3.3000e-004**	**3.8200e-003**	**1.0000e-005**	**1.2200e-003**	**1.0000e-005**	**1.2200e-003**	**3.2000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**0.9348**	**0.9348**	**3.0000e-005**	**3.0000e-005**	**0.9441**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1854	0.0000	0.1854	0.0879	0.0000	0.0879	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0226	0.2310	0.1559	3.2000e-004		0.0105	0.0105		9.6100e-003	9.6100e-003	0.0000	28.4385	28.4385	9.2000e-003	0.0000	28.6684
Total	**0.0226**	**0.2310**	**0.1559**	**3.2000e-004**	**0.1854**	**0.0105**	**0.1958**	**0.0879**	**9.6100e-003**	**0.0975**	**0.0000**	**28.4385**	**28.4385**	**9.2000e-003**	**0.0000**	**28.6684**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.3000e-004	3.8200e-003	1.0000e-005	1.2200e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9348	0.9348	3.0000e-005	3.0000e-005	0.9441
Total	**4.9000e-004**	**3.3000e-004**	**3.8200e-003**	**1.0000e-005**	**1.2200e-003**	**1.0000e-005**	**1.2200e-003**	**3.2000e-004**	**1.0000e-005**	**3.3000e-004**	**0.0000**	**0.9348**	**0.9348**	**3.0000e-005**	**3.0000e-005**	**0.9441**

3.2 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2396	0.0000	0.2396	0.1176	0.0000	0.1176	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0284	0.2902	0.2060	4.4000e-004		0.0125	0.0125		0.0115	0.0115	0.0000	38.4870	38.4870	0.0125	0.0000	38.7982
Total	**0.0284**	**0.2902**	**0.2060**	**4.4000e-004**	**0.2396**	**0.0125**	**0.2521**	**0.1176**	**0.0115**	**0.1291**	**0.0000**	**38.4870**	**38.4870**	**0.0125**	**0.0000**	**38.7982**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	3.9000e-004	4.7600e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2219	1.2219	4.0000e-005	4.0000e-005	1.2335
Total	**6.1000e-004**	**3.9000e-004**	**4.7600e-003**	**1.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.2219**	**1.2219**	**4.0000e-005**	**4.0000e-005**	**1.2335**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2396	0.0000	0.2396	0.1176	0.0000	0.1176	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0284	0.2902	0.2060	4.4000e-004		0.0125	0.0125		0.0115	0.0115	0.0000	38.4870	38.4870	0.0125	0.0000	38.7982
Total	**0.0284**	**0.2902**	**0.2060**	**4.4000e-004**	**0.2396**	**0.0125**	**0.2521**	**0.1176**	**0.0115**	**0.1291**	**0.0000**	**38.4870**	**38.4870**	**0.0125**	**0.0000**	**38.7982**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	3.9000e-004	4.7600e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2219	1.2219	4.0000e-005	4.0000e-005	1.2335
Total	**6.1000e-004**	**3.9000e-004**	**4.7600e-003**	**1.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**0.0000**	**1.2219**	**1.2219**	**4.0000e-005**	**4.0000e-005**	**1.2335**

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5062	0.0000	0.5062	0.2010	0.0000	0.2010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1596	1.5369	1.4482	3.4100e-003		0.0622	0.0622		0.0572	0.0572	0.0000	299.7842	299.7842	0.0970	0.0000	302.2081
Total	**0.1596**	**1.5369**	**1.4482**	**3.4100e-003**	**0.5062**	**0.0622**	**0.5684**	**0.2010**	**0.0572**	**0.2582**	**0.0000**	**299.7842**	**299.7842**	**0.0970**	**0.0000**	**302.2081**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2500e-003	2.0900e-003	0.0253	7.0000e-005	8.7600e-003	4.0000e-005	8.8000e-003	2.3300e-003	4.0000e-005	2.3700e-003	0.0000	6.4929	6.4929	1.9000e-004	1.9000e-004	6.5548
Total	**3.2500e-003**	**2.0900e-003**	**0.0253**	**7.0000e-005**	**8.7600e-003**	**4.0000e-005**	**8.8000e-003**	**2.3300e-003**	**4.0000e-005**	**2.3700e-003**	**0.0000**	**6.4929**	**6.4929**	**1.9000e-004**	**1.9000e-004**	**6.5548**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5062	0.0000	0.5062	0.2010	0.0000	0.2010	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1596	1.5369	1.4482	3.4100e-003		0.0622	0.0622		0.0572	0.0572	0.0000	299.7838	299.7838	0.0970	0.0000	302.2077
Total	**0.1596**	**1.5369**	**1.4482**	**3.4100e-003**	**0.5062**	**0.0622**	**0.5684**	**0.2010**	**0.0572**	**0.2582**	**0.0000**	**299.7838**	**299.7838**	**0.0970**	**0.0000**	**302.2077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2500e-003	2.0900e-003	0.0253	7.0000e-005	8.7600e-003	4.0000e-005	8.8000e-003	2.3300e-003	4.0000e-005	2.3700e-003	0.0000	6.4929	6.4929	1.9000e-004	1.9000e-004	6.5548
Total	**3.2500e-003**	**2.0900e-003**	**0.0253**	**7.0000e-005**	**8.7600e-003**	**4.0000e-005**	**8.8000e-003**	**2.3300e-003**	**4.0000e-005**	**2.3700e-003**	**0.0000**	**6.4929**	**6.4929**	**1.9000e-004**	**1.9000e-004**	**6.5548**

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0875	0.7981	1.0294	1.7300e-003		0.0338	0.0338		0.0318	0.0318	0.0000	148.4285	148.4285	0.0349	0.0000	149.3007
Total	**0.0875**	**0.7981**	**1.0294**	**1.7300e-003**		**0.0338**	**0.0338**		**0.0318**	**0.0318**	**0.0000**	**148.4285**	**148.4285**	**0.0349**	**0.0000**	**149.3007**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6500e-003	0.0689	0.0200	3.0000e-004	0.0102	4.4000e-004	0.0106	2.9400e-003	4.3000e-004	3.3600e-003	0.0000	28.8773	28.8773	1.3000e-004	4.3300e-003	30.1714
Worker	0.0153	9.8700e-003	0.1191	3.3000e-004	0.0413	1.9000e-004	0.0415	0.0110	1.8000e-004	0.0112	0.0000	30.5994	30.5994	9.1000e-004	9.0000e-004	30.8908
Total	**0.0170**	**0.0788**	**0.1391**	**6.3000e-004**	**0.0515**	**6.3000e-004**	**0.0521**	**0.0139**	**6.1000e-004**	**0.0145**	**0.0000**	**59.4767**	**59.4767**	**1.0400e-003**	**5.2300e-003**	**61.0622**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0875	0.7981	1.0294	1.7300e-003		0.0338	0.0338		0.0318	0.0318	0.0000	148.4283	148.4283	0.0349	0.0000	149.3006
Total	**0.0875**	**0.7981**	**1.0294**	**1.7300e-003**		**0.0338**	**0.0338**		**0.0318**	**0.0318**	**0.0000**	**148.4283**	**148.4283**	**0.0349**	**0.0000**	**149.3006**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6500e-003	0.0689	0.0200	3.0000e-004	0.0102	4.4000e-004	0.0106	2.9400e-003	4.3000e-004	3.3600e-003	0.0000	28.8773	28.8773	1.3000e-004	4.3300e-003	30.1714
Worker	0.0153	9.8700e-003	0.1191	3.3000e-004	0.0413	1.9000e-004	0.0415	0.0110	1.8000e-004	0.0112	0.0000	30.5994	30.5994	9.1000e-004	9.0000e-004	30.8908
Total	**0.0170**	**0.0788**	**0.1391**	**6.3000e-004**	**0.0515**	**6.3000e-004**	**0.0521**	**0.0139**	**6.1000e-004**	**0.0145**	**0.0000**	**59.4767**	**59.4767**	**1.0400e-003**	**5.2300e-003**	**61.0622**

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.1396	0.0402	6.0000e-004	0.0207	9.0000e-004	0.0216	5.9900e-003	8.6000e-004	6.8500e-003	0.0000	57.7971	57.7971	2.5000e-004	8.6600e-003	60.3832
Worker	0.0289	0.0179	0.2263	6.6000e-004	0.0842	3.7000e-004	0.0846	0.0224	3.4000e-004	0.0227	0.0000	60.3144	60.3144	1.6700e-003	1.7100e-003	60.8661
Total	**0.0322**	**0.1575**	**0.2664**	**1.2600e-003**	**0.1049**	**1.2700e-003**	**0.1062**	**0.0284**	**1.2000e-003**	**0.0296**	**0.0000**	**118.1115**	**118.1115**	**1.9200e-003**	**0.0104**	**121.2493**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2800e-003	0.1396	0.0402	6.0000e-004	0.0207	9.0000e-004	0.0216	5.9900e-003	8.6000e-004	6.8500e-003	0.0000	57.7971	57.7971	2.5000e-004	8.6600e-003	60.3832
Worker	0.0289	0.0179	0.2263	6.6000e-004	0.0842	3.7000e-004	0.0846	0.0224	3.4000e-004	0.0227	0.0000	60.3144	60.3144	1.6700e-003	1.7100e-003	60.8661
Total	**0.0322**	**0.1575**	**0.2664**	**1.2600e-003**	**0.1049**	**1.2700e-003**	**0.1062**	**0.0284**	**1.2000e-003**	**0.0296**	**0.0000**	**118.1115**	**118.1115**	**1.9200e-003**	**0.0104**	**121.2493**

3.4 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	**0.1785**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6549**	**302.6549**	**0.0711**	**0.0000**	**304.4335**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2027

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2200e-003	0.1385	0.0396	5.9000e-004	0.0207	9.0000e-004	0.0216	5.9900e-003	8.6000e-004	6.8400e-003	0.0000	56.6317	56.6317	2.5000e-004	8.4700e-003	59.1622
Worker	0.0269	0.0161	0.2113	6.4000e-004	0.0842	3.4000e-004	0.0845	0.0224	3.2000e-004	0.0227	0.0000	58.5197	58.5197	1.5100e-003	1.6100e-003	59.0365
Total	**0.0301**	**0.1546**	**0.2509**	**1.2300e-003**	**0.1049**	**1.2400e-003**	**0.1061**	**0.0284**	**1.1800e-003**	**0.0295**	**0.0000**	**115.1514**	**115.1514**	**1.7600e-003**	**0.0101**	**118.1987**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	**0.1784**	**1.6273**	**2.0991**	**3.5200e-003**		**0.0689**	**0.0689**		**0.0648**	**0.0648**	**0.0000**	**302.6545**	**302.6545**	**0.0711**	**0.0000**	**304.4331**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.2200e-003	0.1385	0.0396	5.9000e-004	0.0207	9.0000e-004	0.0216	5.9900e-003	8.6000e-004	6.8400e-003	0.0000	56.6317	56.6317	2.5000e-004	8.4700e-003	59.1622
Worker	0.0269	0.0161	0.2113	6.4000e-004	0.0842	3.4000e-004	0.0845	0.0224	3.2000e-004	0.0227	0.0000	58.5197	58.5197	1.5100e-003	1.6100e-003	59.0365
Total	**0.0301**	**0.1546**	**0.2509**	**1.2300e-003**	**0.1049**	**1.2400e-003**	**0.1061**	**0.0284**	**1.1800e-003**	**0.0295**	**0.0000**	**115.1514**	**115.1514**	**1.7600e-003**	**0.0101**	**118.1987**

3.4 Building Construction - 2028

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	**0.1778**	**1.6211**	**2.0910**	**3.5000e-003**		**0.0686**	**0.0686**		**0.0645**	**0.0645**	**0.0000**	**301.4953**	**301.4953**	**0.0709**	**0.0000**	**303.2671**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2028

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1600e-003	0.1372	0.0390	5.8000e-004	0.0206	8.9000e-004	0.0215	5.9600e-003	8.5000e-004	6.8100e-003	0.0000	55.3090	55.3090	2.4000e-004	8.2600e-003	57.7770
Worker	0.0249	0.0145	0.1981	6.2000e-004	0.0839	3.2000e-004	0.0842	0.0223	2.9000e-004	0.0226	0.0000	56.6896	56.6896	1.3800e-003	1.5100e-003	57.1754
Total	**0.0281**	**0.1517**	**0.2371**	**1.2000e-003**	**0.1045**	**1.2100e-003**	**0.1057**	**0.0283**	**1.1400e-003**	**0.0294**	**0.0000**	**111.9987**	**111.9987**	**1.6200e-003**	**9.7700e-003**	**114.9523**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	**0.1778**	**1.6211**	**2.0910**	**3.5000e-003**		**0.0686**	**0.0686**		**0.0645**	**0.0645**	**0.0000**	**301.4949**	**301.4949**	**0.0709**	**0.0000**	**303.2667**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2028

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1600e-003	0.1372	0.0390	5.8000e-004	0.0206	8.9000e-004	0.0215	5.9600e-003	8.5000e-004	6.8100e-003	0.0000	55.3090	55.3090	2.4000e-004	8.2600e-003	57.7770
Worker	0.0249	0.0145	0.1981	6.2000e-004	0.0839	3.2000e-004	0.0842	0.0223	2.9000e-004	0.0226	0.0000	56.6896	56.6896	1.3800e-003	1.5100e-003	57.1754
Total	**0.0281**	**0.1517**	**0.2371**	**1.2000e-003**	**0.1045**	**1.2100e-003**	**0.1057**	**0.0283**	**1.1400e-003**	**0.0294**	**0.0000**	**111.9987**	**111.9987**	**1.6200e-003**	**9.7700e-003**	**114.9523**

3.4 Building Construction - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9195	231.9195	0.0545	0.0000	233.2824
Total	**0.1367**	**1.2470**	**1.6085**	**2.7000e-003**		**0.0528**	**0.0528**		**0.0496**	**0.0496**	**0.0000**	**231.9195**	**231.9195**	**0.0545**	**0.0000**	**233.2824**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.1048	0.0297	4.3000e-004	0.0159	6.8000e-004	0.0166	4.5900e-003	6.5000e-004	5.2300e-003	0.0000	41.7145	41.7145	1.8000e-004	6.2200e-003	43.5732
Worker	0.0178	0.0102	0.1440	4.6000e-004	0.0645	2.3000e-004	0.0648	0.0172	2.1000e-004	0.0174	0.0000	42.4974	42.4974	9.7000e-004	1.1100e-003	42.8519
Total	**0.0202**	**0.1150**	**0.1738**	**8.9000e-004**	**0.0804**	**9.1000e-004**	**0.0813**	**0.0217**	**8.6000e-004**	**0.0226**	**0.0000**	**84.2119**	**84.2119**	**1.1500e-003**	**7.3300e-003**	**86.4251**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1367	1.2470	1.6085	2.7000e-003		0.0528	0.0528		0.0496	0.0496	0.0000	231.9192	231.9192	0.0545	0.0000	233.2821
Total	**0.1367**	**1.2470**	**1.6085**	**2.7000e-003**		**0.0528**	**0.0528**		**0.0496**	**0.0496**	**0.0000**	**231.9192**	**231.9192**	**0.0545**	**0.0000**	**233.2821**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.1048	0.0297	4.3000e-004	0.0159	6.8000e-004	0.0166	4.5900e-003	6.5000e-004	5.2300e-003	0.0000	41.7145	41.7145	1.8000e-004	6.2200e-003	43.5732
Worker	0.0178	0.0102	0.1440	4.6000e-004	0.0645	2.3000e-004	0.0648	0.0172	2.1000e-004	0.0174	0.0000	42.4974	42.4974	9.7000e-004	1.1100e-003	42.8519
Total	**0.0202**	**0.1150**	**0.1738**	**8.9000e-004**	**0.0804**	**9.1000e-004**	**0.0813**	**0.0217**	**8.6000e-004**	**0.0226**	**0.0000**	**84.2119**	**84.2119**	**1.1500e-003**	**7.3300e-003**	**86.4251**

3.5 Paving - 2029

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0279	0.2617	0.4446	7.0000e-004		0.0128	0.0128		0.0117	0.0117	0.0000	61.0587	61.0587	0.0198	0.0000	61.5524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0279**	**0.2617**	**0.4446**	**7.0000e-004**		**0.0128**	**0.0128**		**0.0117**	**0.0117**	**0.0000**	**61.0587**	**61.0587**	**0.0198**	**0.0000**	**61.5524**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	5.8000e-004	8.1400e-003	3.0000e-005	3.6400e-003	1.0000e-005	3.6600e-003	9.7000e-004	1.0000e-005	9.8000e-004	0.0000	2.4003	2.4003	5.0000e-005	6.0000e-005	2.4203
Total	**1.0100e-003**	**5.8000e-004**	**8.1400e-003**	**3.0000e-005**	**3.6400e-003**	**1.0000e-005**	**3.6600e-003**	**9.7000e-004**	**1.0000e-005**	**9.8000e-004**	**0.0000**	**2.4003**	**2.4003**	**5.0000e-005**	**6.0000e-005**	**2.4203**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0279	0.2617	0.4446	7.0000e-004		0.0128	0.0128		0.0117	0.0117	0.0000	61.0587	61.0587	0.0198	0.0000	61.5524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0279**	**0.2617**	**0.4446**	**7.0000e-004**		**0.0128**	**0.0128**		**0.0117**	**0.0117**	**0.0000**	**61.0587**	**61.0587**	**0.0198**	**0.0000**	**61.5524**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0100e-003	5.8000e-004	8.1400e-003	3.0000e-005	3.6400e-003	1.0000e-005	3.6600e-003	9.7000e-004	1.0000e-005	9.8000e-004	0.0000	2.4003	2.4003	5.0000e-005	6.0000e-005	2.4203
Total	**1.0100e-003**	**5.8000e-004**	**8.1400e-003**	**3.0000e-005**	**3.6400e-003**	**1.0000e-005**	**3.6600e-003**	**9.7000e-004**	**1.0000e-005**	**9.8000e-004**	**0.0000**	**2.4003**	**2.4003**	**5.0000e-005**	**6.0000e-005**	**2.4203**

3.5 Paving - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6900e-003	0.0498	0.1110	2.0000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	16.8697	16.8697	7.9000e-004	0.0000	16.8894
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.6900e-003**	**0.0498**	**0.1110**	**2.0000e-004**		**2.3100e-003**	**2.3100e-003**		**2.3100e-003**	**2.3100e-003**	**0.0000**	**16.8697**	**16.8697**	**7.9000e-004**	**0.0000**	**16.8894**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.7800e-003	1.0000e-005	8.4000e-004	0.0000	8.4000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5380	0.5380	1.0000e-005	1.0000e-005	0.5424
Total	**2.1000e-004**	**1.2000e-004**	**1.7800e-003**	**1.0000e-005**	**8.4000e-004**	**0.0000**	**8.4000e-004**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.5380**	**0.5380**	**1.0000e-005**	**1.0000e-005**	**0.5424**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.6900e-003	0.0498	0.1110	2.0000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	16.8696	16.8696	7.9000e-004	0.0000	16.8894
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.6900e-003**	**0.0498**	**0.1110**	**2.0000e-004**		**2.3100e-003**	**2.3100e-003**		**2.3100e-003**	**2.3100e-003**	**0.0000**	**16.8696**	**16.8696**	**7.9000e-004**	**0.0000**	**16.8894**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.7800e-003	1.0000e-005	8.4000e-004	0.0000	8.4000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.5380	0.5380	1.0000e-005	1.0000e-005	0.5424
Total	**2.1000e-004**	**1.2000e-004**	**1.7800e-003**	**1.0000e-005**	**8.4000e-004**	**0.0000**	**8.4000e-004**	**2.2000e-004**	**0.0000**	**2.2000e-004**	**0.0000**	**0.5380**	**0.5380**	**1.0000e-005**	**1.0000e-005**	**0.5424**

3.6 Architectural Coating - 2030

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.7844					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-003	0.0321	0.0674	1.1000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	9.5747	9.5747	3.9000e-004	0.0000	9.5844
Total	**3.7893**	**0.0321**	**0.0674**	**1.1000e-004**		**7.6000e-004**	**7.6000e-004**		**7.6000e-004**	**7.6000e-004**	**0.0000**	**9.5747**	**9.5747**	**3.9000e-004**	**0.0000**	**9.5844**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2300e-003	6.9000e-004	0.0102	3.0000e-005	4.7800e-003	2.0000e-005	4.8000e-003	1.2700e-003	1.0000e-005	1.2900e-003	0.0000	3.0744	3.0744	7.0000e-005	8.0000e-005	3.0995
Total	**1.2300e-003**	**6.9000e-004**	**0.0102**	**3.0000e-005**	**4.7800e-003**	**2.0000e-005**	**4.8000e-003**	**1.2700e-003**	**1.0000e-005**	**1.2900e-003**	**0.0000**	**3.0744**	**3.0744**	**7.0000e-005**	**8.0000e-005**	**3.0995**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.7844					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9000e-003	0.0321	0.0674	1.1000e-004		7.6000e-004	7.6000e-004		7.6000e-004	7.6000e-004	0.0000	9.5747	9.5747	3.9000e-004	0.0000	9.5844
Total	**3.7893**	**0.0321**	**0.0674**	**1.1000e-004**		**7.6000e-004**	**7.6000e-004**		**7.6000e-004**	**7.6000e-004**	**0.0000**	**9.5747**	**9.5747**	**3.9000e-004**	**0.0000**	**9.5844**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2300e-003	6.9000e-004	0.0102	3.0000e-005	4.7800e-003	2.0000e-005	4.8000e-003	1.2700e-003	1.0000e-005	1.2900e-003	0.0000	3.0744	3.0744	7.0000e-005	8.0000e-005	3.0995
Total	**1.2300e-003**	**6.9000e-004**	**0.0102**	**3.0000e-005**	**4.7800e-003**	**2.0000e-005**	**4.8000e-003**	**1.2700e-003**	**1.0000e-005**	**1.2900e-003**	**0.0000**	**3.0744**	**3.0744**	**7.0000e-005**	**8.0000e-005**	**3.0995**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7910	1.2261	7.5014	0.0185	2.1955	0.0142	2.2097	0.5871	0.0133	0.6004	0.0000	1,706.5533	1,706.5533	0.0840	0.0880	1,734.8701
Unmitigated	0.7910	1.2261	7.5014	0.0185	2.1955	0.0142	2.2097	0.5871	0.0133	0.6004	0.0000	1,706.5533	1,706.5533	0.0840	0.0880	1,734.8701

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,114.56	2,136.96	1915.20	5,889,125	5,889,125
Total	2,114.56	2,136.96	1,915.20	5,889,125	5,889,125

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	38.40	22.60	39.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.548891	0.052350	0.169889	0.142795	0.024546	0.006610	0.012173	0.015857	0.000617	0.000465	0.021714	0.001278	0.002815

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	315.3780	315.3780	0.0266	3.2300e-003	317.0050
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	315.3780	315.3780	0.0266	3.2300e-003	317.0050
NaturalGas Mitigated	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	284.0511	284.0511	5.4400e-003	5.2100e-003	285.7391
NaturalGas Unmitigated	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	284.0511	284.0511	5.4400e-003	5.2100e-003	285.7391

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.32292e+006	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	284.0511	284.0511	5.4400e-003	5.2100e-003	285.7391
Total		**0.0287**	**0.2453**	**0.1044**	**1.5700e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**	**0.0000**	**284.0511**	**284.0511**	**5.4400e-003**	**5.2100e-003**	**285.7391**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.32292e+006	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	284.0511	284.0511	5.4400e-003	5.2100e-003	285.7391
Total		**0.0287**	**0.2453**	**0.1044**	**1.5700e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**	**0.0000**	**284.0511**	**284.0511**	**5.4400e-003**	**5.2100e-003**	**285.7391**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.77832e+006	315.3780	0.0266	3.2300e-003	317.0050
Total		**315.3780**	**0.0266**	**3.2300e-003**	**317.0050**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.77832e+006	315.3780	0.0266	3.2300e-003	317.0050
Total		**315.3780**	**0.0266**	**3.2300e-003**	**317.0050**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0126	0.1029	1.6945	6.2000e-004		0.0160	0.0160		0.0160	0.0160	0.0000	99.7553	99.7553	4.4500e-003	1.7800e-003	100.3967
Unmitigated	2.0126	0.1029	1.6945	6.2000e-004		0.0160	0.0160		0.0160	0.0160	0.0000	99.7553	99.7553	4.4500e-003	1.7800e-003	100.3967

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3784					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5747					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.8100e-003	0.0838	0.0357	5.3000e-004		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	97.0385	97.0385	1.8600e-003	1.7800e-003	97.6151
Landscaping	0.0496	0.0191	1.6588	9.0000e-005		9.2200e-003	9.2200e-003		9.2200e-003	9.2200e-003	0.0000	2.7169	2.7169	2.5900e-003	0.0000	2.7816
Total	**2.0126**	**0.1029**	**1.6945**	**6.2000e-004**		**0.0160**	**0.0160**		**0.0160**	**0.0160**	**0.0000**	**99.7553**	**99.7553**	**4.4500e-003**	**1.7800e-003**	**100.3967**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3784					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5747					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.8100e-003	0.0838	0.0357	5.3000e-004		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	97.0385	97.0385	1.8600e-003	1.7800e-003	97.6151
Landscaping	0.0496	0.0191	1.6588	9.0000e-005		9.2200e-003	9.2200e-003		9.2200e-003	9.2200e-003	0.0000	2.7169	2.7169	2.5900e-003	0.0000	2.7816
Total	**2.0126**	**0.1029**	**1.6945**	**6.2000e-004**		**0.0160**	**0.0160**		**0.0160**	**0.0160**	**0.0000**	**99.7553**	**99.7553**	**4.4500e-003**	**1.7800e-003**	**100.3967**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	24.3464	0.4772	0.0114	39.6834
Unmitigated	24.3464	0.4772	0.0114	39.6834

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	14.5945 / 9.20088	24.3464	0.4772	0.0114	39.6834
Total		**24.3464**	**0.4772**	**0.0114**	**39.6834**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	14.5945 / 9.20088	24.3464	0.4772	0.0114	39.6834
Total		**24.3464**	**0.4772**	**0.0114**	**39.6834**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	46.8422	2.7683	0.0000	116.0496
Unmitigated	46.8422	2.7683	0.0000	116.0496

300

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	230.76	46.8422	2.7683	0.0000	116.0496
Total		**46.8422**	**2.7683**	**0.0000**	**116.0496**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	230.76	46.8422	2.7683	0.0000	116.0496
Total		**46.8422**	**2.7683**	**0.0000**	**116.0496**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Part 2

2005 BAU from CalEEMod

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Elliot Subdivision

Tulare County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	224.00	Dwelling Unit	59.13	403,200.00	641

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	51
Climate Zone	7			**Operational Year**	2005
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot Acreage Established

Construction Phase -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	72.73	59.13
tblWoodstoves	NumberCatalytic	59.13	0.00
tblWoodstoves	NumberNoncatalytic	59.13	0.00

2.0 Emissions Summary

Elliot Subdivision - Tulare County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
1999	0.8591	6.6281	3.4041	0.3369	0.7184	0.4782	1.1967	0.3018	0.4782	0.7800	0.0000	237.0562	237.0562	0.0702	0.0000	238.8119
2000	1.6357	9.5558	6.6982	0.0577	0.4462	0.6058	1.0519	0.1443	0.6043	0.7487	0.0000	603.0968	603.0968	0.1294	0.0222	612.9590
2001	1.5174	7.5935	6.1112	0.0479	0.1049	0.5358	0.6407	0.0284	0.5340	0.5623	0.0000	519.9681	519.9681	0.1188	0.0280	531.2921
2002	1.5174	7.5935	6.1112	0.0479	0.1049	0.5358	0.6407	0.0284	0.5340	0.5623	0.0000	519.9681	519.9681	0.1188	0.0280	531.2921
2003	1.5174	7.5935	6.1112	0.0479	0.1049	0.5358	0.6407	0.0284	0.5340	0.5623	0.0000	519.9681	519.9681	0.1188	0.0280	531.2921
2004	5.9296	5.7271	4.0681	0.0348	0.0600	0.3862	0.4462	0.0162	0.3852	0.4014	0.0000	364.3529	364.3529	0.0832	0.0155	371.0393
2005	1.4384	0.0394	0.0420	2.7000e-004	1.0800e-003	3.2900e-003	4.3700e-003	2.9000e-004	3.2900e-003	3.5800e-003	0.0000	3.3795	3.3795	7.1000e-004	1.5000e-004	3.4424
Maximum	**5.9296**	**9.5558**	**6.6982**	**0.3369**	**0.7184**	**0.6058**	**1.1967**	**0.3018**	**0.6043**	**0.7800**	**0.0000**	**603.0968**	**603.0968**	**0.1294**	**0.0280**	**612.9590**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
1999	0.8591	6.6281	3.4041	0.3369	0.7184	0.4782	1.1967	0.3018	0.4782	0.7800	0.0000	237.0559	237.0559	0.0702	0.0000	238.8116
2000	1.6357	9.5558	6.6982	0.0577	0.4462	0.6058	1.0519	0.1443	0.6043	0.7487	0.0000	603.0963	603.0963	0.1294	0.0222	612.9585
2001	1.5174	7.5935	6.1112	0.0479	0.1049	0.5358	0.6407	0.0284	0.5339	0.5623	0.0000	519.9677	519.9677	0.1188	0.0280	531.2917
2002	1.5174	7.5935	6.1112	0.0479	0.1049	0.5358	0.6407	0.0284	0.5339	0.5623	0.0000	519.9677	519.9677	0.1188	0.0280	531.2917
2003	1.5174	7.5935	6.1112	0.0479	0.1049	0.5358	0.6407	0.0284	0.5339	0.5623	0.0000	519.9677	519.9677	0.1188	0.0280	531.2917
2004	5.9296	5.7271	4.0681	0.0348	0.0600	0.3862	0.4462	0.0162	0.3852	0.4014	0.0000	364.3526	364.3526	0.0832	0.0155	371.0390
2005	1.4384	0.0394	0.0420	2.7000e-004	1.0800e-003	3.2900e-003	4.3700e-003	2.9000e-004	3.2900e-003	3.5800e-003	0.0000	3.3795	3.3795	7.1000e-004	1.5000e-004	3.4424
Maximum	**5.9296**	**9.5558**	**6.6982**	**0.3369**	**0.7184**	**0.6058**	**1.1967**	**0.3018**	**0.6043**	**0.7800**	**0.0000**	**603.0963**	**603.0963**	**0.1294**	**0.0280**	**612.9585**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-1-1999**	**11-30-1999**	5.1523	5.1523
2	**12-1-1999**	**2-29-2000**	5.2082	5.2082
3	**3-1-2000**	**5-31-2000**	2.9705	2.9705
4	**6-1-2000**	**8-31-2000**	2.2829	2.2829

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	**9-1-2000**	**11-30-2000**	2.2764	2.2764
6	**12-1-2000**	**2-28-2001**	2.2603	2.2603
7	**3-1-2001**	**5-31-2001**	2.2922	2.2922
8	**6-1-2001**	**8-31-2001**	2.2829	2.2829
9	**9-1-2001**	**11-30-2001**	2.2764	2.2764
10	**12-1-2001**	**2-28-2002**	2.2603	2.2603
11	**3-1-2002**	**5-31-2002**	2.2922	2.2922
12	**6-1-2002**	**8-31-2002**	2.2829	2.2829
13	**9-1-2002**	**11-30-2002**	2.2764	2.2764
14	**12-1-2002**	**2-28-2003**	2.2603	2.2603
15	**3-1-2003**	**5-31-2003**	2.2922	2.2922
16	**6-1-2003**	**8-31-2003**	2.2829	2.2829
17	**9-1-2003**	**11-30-2003**	2.2764	2.2764
18	**12-1-2003**	**2-29-2004**	2.2854	2.2854
19	**3-1-2004**	**5-31-2004**	2.2922	2.2922
20	**6-1-2004**	**8-31-2004**	1.9650	1.9650
21	**9-1-2004**	**11-30-2004**	3.8961	3.8961
22	**12-1-2004**	**2-28-2005**	3.4923	3.4923
		Highest	5.2082	5.2082

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2987	0.1100	1.9646	6.2000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	99.7553	99.7553	6.2100e-003	1.7800e-003	100.4407
Energy	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	599.4291	599.4291	0.0321	8.4300e-003	602.7440
Mobile	4.1217	9.8893	48.2416	0.0624	2.2055	0.1809	2.3864	0.5914	0.1716	0.7630	0.0000	2,916.9180	2,916.9180	0.4342	0.3427	3,029.8993
Waste						0.0000	0.0000		0.0000	0.0000	46.8422	0.0000	46.8422	2.7683	0.0000	116.0496
Water						0.0000	0.0000		0.0000	0.0000	4.6302	19.7162	24.3464	0.4772	0.0114	39.6834
Total	**6.4491**	**10.2446**	**50.3105**	**0.0646**	**2.2055**	**0.2156**	**2.4211**	**0.5914**	**0.2064**	**0.7978**	**51.4724**	**3,635.8186**	**3,687.2909**	**3.7180**	**0.3644**	**3,888.8170**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.2987	0.1100	1.9646	6.2000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	99.7553	99.7553	6.2100e-003	1.7800e-003	100.4407
Energy	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	599.4291	599.4291	0.0321	8.4300e-003	602.7440
Mobile	4.1217	9.8893	48.2416	0.0624	2.2055	0.1809	2.3864	0.5914	0.1716	0.7630	0.0000	2,916.9180	2,916.9180	0.4342	0.3427	3,029.8993
Waste						0.0000	0.0000		0.0000	0.0000	46.8422	0.0000	46.8422	2.7683	0.0000	116.0496
Water						0.0000	0.0000		0.0000	0.0000	4.6302	19.7162	24.3464	0.4772	0.0114	39.6834
Total	**6.4491**	**10.2446**	**50.3105**	**0.0646**	**2.2055**	**0.2156**	**2.4211**	**0.5914**	**0.2064**	**0.7978**	**51.4724**	**3,635.8186**	**3,687.2909**	**3.7180**	**0.3644**	**3,888.8170**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/1/1999	10/26/1999	5	40	
2	Grading	Grading	10/27/1999	3/28/2000	5	110	
3	Building Construction	Building Construction	3/29/2000	6/29/2004	5	1110	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Paving	Paving	6/30/2004	10/12/2004	5	75	
5	Architectural Coating	Architectural Coating	10/13/2004	1/25/2005	5	75	

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 330

Acres of Paving: 0

Residential Indoor: 816,480; Residential Outdoor: 272,160; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	81.00	24.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	16.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 1999

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3931	0.0000	0.3931	0.2021	0.0000	0.2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3153	2.2990	0.8397	0.1193		0.1779	0.1779		0.1779	0.1779	0.0000	80.0092	80.0092	0.0258	0.0000	80.6535
Total	**0.3153**	**2.2990**	**0.8397**	**0.1193**	**0.3931**	**0.1779**	**0.5711**	**0.2021**	**0.1779**	**0.3800**	**0.0000**	**80.0092**	**80.0092**	**0.0258**	**0.0000**	**80.6535**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 1999

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					2.4800e-003	0.0000	2.4800e-003	6.1000e-004	0.0000	6.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**2.4800e-003**	**0.0000**	**2.4800e-003**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3931	0.0000	0.3931	0.2021	0.0000	0.2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3153	2.2990	0.8397	0.1193		0.1779	0.1779		0.1779	0.1779	0.0000	80.0091	80.0091	0.0258	0.0000	80.6534
Total	**0.3153**	**2.2990**	**0.8397**	**0.1193**	**0.3931**	**0.1779**	**0.5711**	**0.2021**	**0.1779**	**0.3800**	**0.0000**	**80.0091**	**80.0091**	**0.0258**	**0.0000**	**80.6534**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 1999

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					2.4800e-003	0.0000	2.4800e-003	6.1000e-004	0.0000	6.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**2.4800e-003**	**0.0000**	**2.4800e-003**	**6.1000e-004**	**0.0000**	**6.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Grading - 1999

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3195	0.0000	0.3195	0.0983	0.0000	0.0983	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5438	4.3291	2.5644	0.2176		0.3003	0.3003		0.3003	0.3003	0.0000	157.0469	157.0469	0.0445	0.0000	158.1584
Total	**0.5438**	**4.3291**	**2.5644**	**0.2176**	**0.3195**	**0.3003**	**0.6198**	**0.0983**	**0.3003**	**0.3987**	**0.0000**	**157.0469**	**157.0469**	**0.0445**	**0.0000**	**158.1584**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 1999

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					3.3100e-003	0.0000	3.3100e-003	8.1000e-004	0.0000	8.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**3.3100e-003**	**0.0000**	**3.3100e-003**	**8.1000e-004**	**0.0000**	**8.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3195	0.0000	0.3195	0.0983	0.0000	0.0983	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5438	4.3291	2.5644	0.2176		0.3003	0.3003		0.3003	0.3003	0.0000	157.0467	157.0467	0.0445	0.0000	158.1582
Total	**0.5438**	**4.3291**	**2.5644**	**0.2176**	**0.3195**	**0.3003**	**0.6198**	**0.0983**	**0.3003**	**0.3987**	**0.0000**	**157.0467**	**157.0467**	**0.0445**	**0.0000**	**158.1582**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 1999

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker					3.3100e-003	0.0000	3.3100e-003	8.1000e-004	0.0000	8.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					**3.3100e-003**	**0.0000**	**3.3100e-003**	**8.1000e-004**	**0.0000**	**8.1000e-004**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.3 Grading - 2000

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3617	0.0000	0.3617	0.1215	0.0000	0.1215	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4688	3.7744	1.9082	0.0212		0.1991	0.1991		0.1991	0.1991	0.0000	202.8523	202.8523	0.0381	0.0000	203.8051
Total	**0.4688**	**3.7744**	**1.9082**	**0.0212**	**0.3617**	**0.1991**	**0.5607**	**0.1215**	**0.1991**	**0.3206**	**0.0000**	**202.8523**	**202.8523**	**0.0381**	**0.0000**	**203.8051**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0158	0.0209	0.1540	9.0000e-005	4.9400e-003	2.2000e-004	5.1600e-003	1.3100e-003	2.1000e-004	1.5200e-003	0.0000	5.7860	5.7860	1.2200e-003	9.7000e-004	6.1047
Total	**0.0158**	**0.0209**	**0.1540**	**9.0000e-005**	**4.9400e-003**	**2.2000e-004**	**5.1600e-003**	**1.3100e-003**	**2.1000e-004**	**1.5200e-003**	**0.0000**	**5.7860**	**5.7860**	**1.2200e-003**	**9.7000e-004**	**6.1047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3617	0.0000	0.3617	0.1215	0.0000	0.1215	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4688	3.7744	1.9082	0.0212		0.1991	0.1991		0.1991	0.1991	0.0000	202.8520	202.8520	0.0381	0.0000	203.8049
Total	**0.4688**	**3.7744**	**1.9082**	**0.0212**	**0.3617**	**0.1991**	**0.5607**	**0.1215**	**0.1991**	**0.3206**	**0.0000**	**202.8520**	**202.8520**	**0.0381**	**0.0000**	**203.8049**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0158	0.0209	0.1540	9.0000e-005	4.9400e-003	2.2000e-004	5.1600e-003	1.3100e-003	2.1000e-004	1.5200e-003	0.0000	5.7860	5.7860	1.2200e-003	9.7000e-004	6.1047
Total	**0.0158**	**0.0209**	**0.1540**	**9.0000e-005**	**4.9400e-003**	**2.2000e-004**	**5.1600e-003**	**1.3100e-003**	**2.1000e-004**	**1.5200e-003**	**0.0000**	**5.7860**	**5.7860**	**1.2200e-003**	**9.7000e-004**	**6.1047**

3.4 Building Construction - 2000

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.8638	4.7779	2.2135	0.0301		0.3756	0.3756		0.3756	0.3756	0.0000	260.2324	260.2324	0.0704	0.0000	261.9911
Total	**0.8638**	**4.7779**	**2.2135**	**0.0301**		**0.3756**	**0.3756**		**0.3756**	**0.3756**	**0.0000**	**260.2324**	**260.2324**	**0.0704**	**0.0000**	**261.9911**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0831	0.7127	0.4306	5.0800e-003	0.0157	0.0280	0.0437	4.5400e-003	0.0268	0.0313	0.0000	59.3909	59.3909	3.9700e-003	8.7600e-003	62.1006
Worker	0.2043	0.2699	1.9919	1.1800e-003	0.0639	2.9000e-003	0.0668	0.0170	2.6900e-003	0.0197	0.0000	74.8353	74.8353	0.0158	0.0125	78.9576
Total	**0.2874**	**0.9826**	**2.4225**	**6.2600e-003**	**0.0796**	**0.0309**	**0.1105**	**0.0215**	**0.0294**	**0.0510**	**0.0000**	**134.2262**	**134.2262**	**0.0198**	**0.0213**	**141.0581**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.8638	4.7779	2.2135	0.0301		0.3756	0.3756		0.3756	0.3756	0.0000	260.2321	260.2321	0.0704	0.0000	261.9907
Total	**0.8638**	**4.7779**	**2.2135**	**0.0301**		**0.3756**	**0.3756**		**0.3756**	**0.3756**	**0.0000**	**260.2321**	**260.2321**	**0.0704**	**0.0000**	**261.9907**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0831	0.7127	0.4306	5.0800e-003	0.0157	0.0280	0.0437	4.5400e-003	0.0268	0.0313	0.0000	59.3909	59.3909	3.9700e-003	8.7600e-003	62.1006
Worker	0.2043	0.2699	1.9919	1.1800e-003	0.0639	2.9000e-003	0.0668	0.0170	2.6900e-003	0.0197	0.0000	74.8353	74.8353	0.0158	0.0125	78.9576
Total	**0.2874**	**0.9826**	**2.4225**	**6.2600e-003**	**0.0796**	**0.0309**	**0.1105**	**0.0215**	**0.0294**	**0.0510**	**0.0000**	**134.2262**	**134.2262**	**0.0198**	**0.0213**	**141.0581**

3.4 Building Construction - 2001

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1386	6.2982	2.9179	0.0397		0.4951	0.4951		0.4951	0.4951	0.0000	343.0336	343.0336	0.0927	0.0000	345.3518
Total	**1.1386**	**6.2982**	**2.9179**	**0.0397**		**0.4951**	**0.4951**		**0.4951**	**0.4951**	**0.0000**	**343.0336**	**343.0336**	**0.0927**	**0.0000**	**345.3518**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2001

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1095	0.9395	0.5676	6.7000e-003	0.0207	0.0369	0.0576	5.9800e-003	0.0353	0.0413	0.0000	78.2880	78.2880	5.2300e-003	0.0116	81.8599
Worker	0.2693	0.3558	2.6257	1.5600e-003	0.0842	3.8300e-003	0.0880	0.0224	3.5500e-003	0.0259	0.0000	98.6465	98.6465	0.0208	0.0165	104.0804
Total	**0.3788**	**1.2953**	**3.1933**	**8.2600e-003**	**0.1049**	**0.0407**	**0.1456**	**0.0284**	**0.0388**	**0.0672**	**0.0000**	**176.9345**	**176.9345**	**0.0260**	**0.0280**	**185.9403**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1386	6.2982	2.9178	0.0397		0.4951	0.4951		0.4951	0.4951	0.0000	343.0332	343.0332	0.0927	0.0000	345.3514
Total	**1.1386**	**6.2982**	**2.9178**	**0.0397**		**0.4951**	**0.4951**		**0.4951**	**0.4951**	**0.0000**	**343.0332**	**343.0332**	**0.0927**	**0.0000**	**345.3514**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2001

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1095	0.9395	0.5676	6.7000e-003	0.0207	0.0369	0.0576	5.9800e-003	0.0353	0.0413	0.0000	78.2880	78.2880	5.2300e-003	0.0116	81.8599
Worker	0.2693	0.3558	2.6257	1.5600e-003	0.0842	3.8300e-003	0.0880	0.0224	3.5500e-003	0.0259	0.0000	98.6465	98.6465	0.0208	0.0165	104.0804
Total	**0.3788**	**1.2953**	**3.1933**	**8.2600e-003**	**0.1049**	**0.0407**	**0.1456**	**0.0284**	**0.0388**	**0.0672**	**0.0000**	**176.9345**	**176.9345**	**0.0260**	**0.0280**	**185.9403**

3.4 Building Construction - 2002

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1386	6.2982	2.9179	0.0397		0.4951	0.4951		0.4951	0.4951	0.0000	343.0336	343.0336	0.0927	0.0000	345.3518
Total	**1.1386**	**6.2982**	**2.9179**	**0.0397**		**0.4951**	**0.4951**		**0.4951**	**0.4951**	**0.0000**	**343.0336**	**343.0336**	**0.0927**	**0.0000**	**345.3518**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2002

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1095	0.9395	0.5676	6.7000e-003	0.0207	0.0369	0.0576	5.9800e-003	0.0353	0.0413	0.0000	78.2880	78.2880	5.2300e-003	0.0116	81.8599
Worker	0.2693	0.3558	2.6257	1.5600e-003	0.0842	3.8300e-003	0.0880	0.0224	3.5500e-003	0.0259	0.0000	98.6465	98.6465	0.0208	0.0165	104.0804
Total	**0.3788**	**1.2953**	**3.1933**	**8.2600e-003**	**0.1049**	**0.0407**	**0.1456**	**0.0284**	**0.0388**	**0.0672**	**0.0000**	**176.9345**	**176.9345**	**0.0260**	**0.0280**	**185.9403**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1386	6.2982	2.9178	0.0397		0.4951	0.4951		0.4951	0.4951	0.0000	343.0332	343.0332	0.0927	0.0000	345.3514
Total	**1.1386**	**6.2982**	**2.9178**	**0.0397**		**0.4951**	**0.4951**		**0.4951**	**0.4951**	**0.0000**	**343.0332**	**343.0332**	**0.0927**	**0.0000**	**345.3514**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2002

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1095	0.9395	0.5676	6.7000e-003	0.0207	0.0369	0.0576	5.9800e-003	0.0353	0.0413	0.0000	78.2880	78.2880	5.2300e-003	0.0116	81.8599
Worker	0.2693	0.3558	2.6257	1.5600e-003	0.0842	3.8300e-003	0.0880	0.0224	3.5500e-003	0.0259	0.0000	98.6465	98.6465	0.0208	0.0165	104.0804
Total	**0.3788**	**1.2953**	**3.1933**	**8.2600e-003**	**0.1049**	**0.0407**	**0.1456**	**0.0284**	**0.0388**	**0.0672**	**0.0000**	**176.9345**	**176.9345**	**0.0260**	**0.0280**	**185.9403**

3.4 Building Construction - 2003

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1386	6.2982	2.9179	0.0397		0.4951	0.4951		0.4951	0.4951	0.0000	343.0336	343.0336	0.0927	0.0000	345.3518
Total	**1.1386**	**6.2982**	**2.9179**	**0.0397**		**0.4951**	**0.4951**		**0.4951**	**0.4951**	**0.0000**	**343.0336**	**343.0336**	**0.0927**	**0.0000**	**345.3518**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2003

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1095	0.9395	0.5676	6.7000e-003	0.0207	0.0369	0.0576	5.9800e-003	0.0353	0.0413	0.0000	78.2880	78.2880	5.2300e-003	0.0116	81.8599
Worker	0.2693	0.3558	2.6257	1.5600e-003	0.0842	3.8300e-003	0.0880	0.0224	3.5500e-003	0.0259	0.0000	98.6465	98.6465	0.0208	0.0165	104.0804
Total	**0.3788**	**1.2953**	**3.1933**	**8.2600e-003**	**0.1049**	**0.0407**	**0.1456**	**0.0284**	**0.0388**	**0.0672**	**0.0000**	**176.9345**	**176.9345**	**0.0260**	**0.0280**	**185.9403**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1386	6.2982	2.9178	0.0397		0.4951	0.4951		0.4951	0.4951	0.0000	343.0332	343.0332	0.0927	0.0000	345.3514
Total	**1.1386**	**6.2982**	**2.9178**	**0.0397**		**0.4951**	**0.4951**		**0.4951**	**0.4951**	**0.0000**	**343.0332**	**343.0332**	**0.0927**	**0.0000**	**345.3514**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2003

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.1095	0.9395	0.5676	6.7000e-003	0.0207	0.0369	0.0576	5.9800e-003	0.0353	0.0413	0.0000	78.2880	78.2880	5.2300e-003	0.0116	81.8599
Worker	0.2693	0.3558	2.6257	1.5600e-003	0.0842	3.8300e-003	0.0880	0.0224	3.5500e-003	0.0259	0.0000	98.6465	98.6465	0.0208	0.0165	104.0804
Total	**0.3788**	**1.2953**	**3.1933**	**8.2600e-003**	**0.1049**	**0.0407**	**0.1456**	**0.0284**	**0.0388**	**0.0672**	**0.0000**	**176.9345**	**176.9345**	**0.0260**	**0.0280**	**185.9403**

3.4 Building Construction - 2004

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5628	3.1129	1.4422	0.0196		0.2447	0.2447		0.2447	0.2447	0.0000	169.5454	169.5454	0.0458	0.0000	170.6911
Total	**0.5628**	**3.1129**	**1.4422**	**0.0196**		**0.2447**	**0.2447**		**0.2447**	**0.2447**	**0.0000**	**169.5454**	**169.5454**	**0.0458**	**0.0000**	**170.6911**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2004

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0541	0.4643	0.2805	3.3100e-003	0.0102	0.0182	0.0285	2.9600e-003	0.0174	0.0204	0.0000	38.6941	38.6941	2.5800e-003	5.7100e-003	40.4595
Worker	0.1331	0.1759	1.2978	7.7000e-004	0.0416	1.8900e-003	0.0435	0.0111	1.7500e-003	0.0128	0.0000	48.7563	48.7563	0.0103	8.1500e-003	51.4421
Total	**0.1872**	**0.6402**	**1.5783**	**4.0800e-003**	**0.0519**	**0.0201**	**0.0720**	**0.0140**	**0.0192**	**0.0332**	**0.0000**	**87.4504**	**87.4504**	**0.0129**	**0.0139**	**91.9015**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5628	3.1129	1.4422	0.0196		0.2447	0.2447		0.2447	0.2447	0.0000	169.5452	169.5452	0.0458	0.0000	170.6909
Total	**0.5628**	**3.1129**	**1.4422**	**0.0196**		**0.2447**	**0.2447**		**0.2447**	**0.2447**	**0.0000**	**169.5452**	**169.5452**	**0.0458**	**0.0000**	**170.6909**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2004

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0541	0.4643	0.2805	3.3100e-003	0.0102	0.0182	0.0285	2.9600e-003	0.0174	0.0204	0.0000	38.6941	38.6941	2.5800e-003	5.7100e-003	40.4595
Worker	0.1331	0.1759	1.2978	7.7000e-004	0.0416	1.8900e-003	0.0435	0.0111	1.7500e-003	0.0128	0.0000	48.7563	48.7563	0.0103	8.1500e-003	51.4421
Total	**0.1872**	**0.6402**	**1.5783**	**4.0800e-003**	**0.0519**	**0.0201**	**0.0720**	**0.0140**	**0.0192**	**0.0332**	**0.0000**	**87.4504**	**87.4504**	**0.0129**	**0.0139**	**91.9015**

3.5 Paving - 2004

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2505	1.7919	0.7274	0.0101		0.1090	0.1090		0.1090	0.1090	0.0000	90.3732	90.3732	0.0204	0.0000	90.8832
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2505**	**1.7919**	**0.7274**	**0.0101**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**90.3732**	**90.3732**	**0.0204**	**0.0000**	**90.8832**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2004

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0143	0.0189	0.1397	8.0000e-005	4.4800e-003	2.0000e-004	4.6800e-003	1.1900e-003	1.9000e-004	1.3800e-003	0.0000	5.2494	5.2494	1.1100e-003	8.8000e-004	5.5386
Total	**0.0143**	**0.0189**	**0.1397**	**8.0000e-005**	**4.4800e-003**	**2.0000e-004**	**4.6800e-003**	**1.1900e-003**	**1.9000e-004**	**1.3800e-003**	**0.0000**	**5.2494**	**5.2494**	**1.1100e-003**	**8.8000e-004**	**5.5386**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2505	1.7919	0.7274	0.0101		0.1090	0.1090		0.1090	0.1090	0.0000	90.3731	90.3731	0.0204	0.0000	90.8831
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.2505**	**1.7919**	**0.7274**	**0.0101**		**0.1090**	**0.1090**		**0.1090**	**0.1090**	**0.0000**	**90.3731**	**90.3731**	**0.0204**	**0.0000**	**90.8831**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2004

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0143	0.0189	0.1397	8.0000e-005	4.4800e-003	2.0000e-004	4.6800e-003	1.1900e-003	1.9000e-004	1.3800e-003	0.0000	5.2494	5.2494	1.1100e-003	8.8000e-004	5.5386
Total	**0.0143**	**0.0189**	**0.1397**	**8.0000e-005**	**4.4800e-003**	**2.0000e-004**	**4.6800e-003**	**1.1900e-003**	**1.9000e-004**	**1.3800e-003**	**0.0000**	**5.2494**	**5.2494**	**1.1100e-003**	**8.8000e-004**	**5.5386**

3.6 Architectural Coating - 2004

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.8777					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.1476	0.0653	8.6000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	7.4045	7.4045	2.0700e-003	0.0000	7.4562
Total	**4.9031**	**0.1476**	**0.0653**	**8.6000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**	**0.0000**	**7.4045**	**7.4045**	**2.0700e-003**	**0.0000**	**7.4562**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2004

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0118	0.0156	0.1153	7.0000e-005	3.7000e-003	1.7000e-004	3.8600e-003	9.8000e-004	1.6000e-004	1.1400e-003	0.0000	4.3302	4.3302	9.1000e-004	7.2000e-004	4.5687
Total	**0.0118**	**0.0156**	**0.1153**	**7.0000e-005**	**3.7000e-003**	**1.7000e-004**	**3.8600e-003**	**9.8000e-004**	**1.6000e-004**	**1.1400e-003**	**0.0000**	**4.3302**	**4.3302**	**9.1000e-004**	**7.2000e-004**	**4.5687**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.8777					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.1476	0.0653	8.6000e-004		0.0120	0.0120		0.0120	0.0120	0.0000	7.4044	7.4044	2.0700e-003	0.0000	7.4562
Total	**4.9031**	**0.1476**	**0.0653**	**8.6000e-004**		**0.0120**	**0.0120**		**0.0120**	**0.0120**	**0.0000**	**7.4044**	**7.4044**	**2.0700e-003**	**0.0000**	**7.4562**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2004

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0118	0.0156	0.1153	7.0000e-005	3.7000e-003	1.7000e-004	3.8600e-003	9.8000e-004	1.6000e-004	1.1400e-003	0.0000	4.3302	4.3302	9.1000e-004	7.2000e-004	4.5687
Total	**0.0118**	**0.0156**	**0.1153**	**7.0000e-005**	**3.7000e-003**	**1.7000e-004**	**3.8600e-003**	**9.8000e-004**	**1.6000e-004**	**1.1400e-003**	**0.0000**	**4.3302**	**4.3302**	**9.1000e-004**	**7.2000e-004**	**4.5687**

3.6 Architectural Coating - 2005

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4297					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3900e-003	0.0364	0.0177	2.5000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	2.1703	2.1703	5.2000e-004	0.0000	2.1834
Total	**1.4361**	**0.0364**	**0.0177**	**2.5000e-004**		**3.2600e-003**	**3.2600e-003**		**3.2600e-003**	**3.2600e-003**	**0.0000**	**2.1703**	**2.1703**	**5.2000e-004**	**0.0000**	**2.1834**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2005

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3900e-003	3.0500e-003	0.0243	1.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	2.9000e-004	3.0000e-005	3.1000e-004	0.0000	1.2092	1.2092	1.9000e-004	1.5000e-004	1.2591
Total	**2.3900e-003**	**3.0500e-003**	**0.0243**	**1.0000e-005**	**1.0800e-003**	**3.0000e-005**	**1.1100e-003**	**2.9000e-004**	**3.0000e-005**	**3.1000e-004**	**0.0000**	**1.2092**	**1.2092**	**1.9000e-004**	**1.5000e-004**	**1.2591**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.4297					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.3900e-003	0.0364	0.0177	2.5000e-004		3.2600e-003	3.2600e-003		3.2600e-003	3.2600e-003	0.0000	2.1703	2.1703	5.2000e-004	0.0000	2.1833
Total	**1.4361**	**0.0364**	**0.0177**	**2.5000e-004**		**3.2600e-003**	**3.2600e-003**		**3.2600e-003**	**3.2600e-003**	**0.0000**	**2.1703**	**2.1703**	**5.2000e-004**	**0.0000**	**2.1833**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2005

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3900e-003	3.0500e-003	0.0243	1.0000e-005	1.0800e-003	3.0000e-005	1.1100e-003	2.9000e-004	3.0000e-005	3.1000e-004	0.0000	1.2092	1.2092	1.9000e-004	1.5000e-004	1.2591
Total	**2.3900e-003**	**3.0500e-003**	**0.0243**	**1.0000e-005**	**1.0800e-003**	**3.0000e-005**	**1.1100e-003**	**2.9000e-004**	**3.0000e-005**	**3.1000e-004**	**0.0000**	**1.2092**	**1.2092**	**1.9000e-004**	**1.5000e-004**	**1.2591**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.1217	9.8893	48.2416	0.0624	2.2055	0.1809	2.3864	0.5914	0.1716	0.7630	0.0000	2,916.9180	2,916.9180	0.4342	0.3427	3,029.8993
Unmitigated	4.1217	9.8893	48.2416	0.0624	2.2055	0.1809	2.3864	0.5914	0.1716	0.7630	0.0000	2,916.9180	2,916.9180	0.4342	0.3427	3,029.8993

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	2,114.56	2,136.96	1915.20	5,889,125	5,889,125
Total	2,114.56	2,136.96	1,915.20	5,889,125	5,889,125

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.80	7.30	7.50	38.40	22.60	39.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.445143	0.090887	0.165130	0.187970	0.045320	0.007055	0.014780	0.012618	0.000711	0.000220	0.019746	0.001150	0.009270

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	315.3780	315.3780	0.0266	3.2300e-003	317.0050
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	315.3780	315.3780	0.0266	3.2300e-003	317.0050
NaturalGas Mitigated	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	284.0511	284.0511	5.4400e-003	5.2100e-003	285.7391
NaturalGas Unmitigated	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	284.0511	284.0511	5.4400e-003	5.2100e-003	285.7391

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.32292e+006	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	284.0511	284.0511	5.4400e-003	5.2100e-003	285.7391
Total		**0.0287**	**0.2453**	**0.1044**	**1.5700e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**	**0.0000**	**284.0511**	**284.0511**	**5.4400e-003**	**5.2100e-003**	**285.7391**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	5.32292e+006	0.0287	0.2453	0.1044	1.5700e-003		0.0198	0.0198		0.0198	0.0198	0.0000	284.0511	284.0511	5.4400e-003	5.2100e-003	285.7391
Total		**0.0287**	**0.2453**	**0.1044**	**1.5700e-003**		**0.0198**	**0.0198**		**0.0198**	**0.0198**	**0.0000**	**284.0511**	**284.0511**	**5.4400e-003**	**5.2100e-003**	**285.7391**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.77832e+006	315.3780	0.0266	3.2300e-003	317.0050
Total		**315.3780**	**0.0266**	**3.2300e-003**	**317.0050**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	1.77832e+006	315.3780	0.0266	3.2300e-003	317.0050
Total		**315.3780**	**0.0266**	**3.2300e-003**	**317.0050**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.2987	0.1100	1.9646	6.2000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	99.7553	99.7553	6.2100e-003	1.7800e-003	100.4407
Unmitigated	2.2987	0.1100	1.9646	6.2000e-004		0.0149	0.0149		0.0149	0.0149	0.0000	99.7553	99.7553	6.2100e-003	1.7800e-003	100.4407

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5747					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.8100e-003	0.0838	0.0357	5.3000e-004		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	97.0385	97.0385	1.8600e-003	1.7800e-003	97.6151
Landscaping	0.0835	0.0262	1.9290	9.0000e-005		8.1500e-003	8.1500e-003		8.1500e-003	8.1500e-003	0.0000	2.7169	2.7169	4.3500e-003	0.0000	2.8256
Total	**2.2987**	**0.1100**	**1.9646**	**6.2000e-004**		**0.0149**	**0.0149**		**0.0149**	**0.0149**	**0.0000**	**99.7553**	**99.7553**	**6.2100e-003**	**1.7800e-003**	**100.4407**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5747					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.8100e-003	0.0838	0.0357	5.3000e-004		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	97.0385	97.0385	1.8600e-003	1.7800e-003	97.6151
Landscaping	0.0835	0.0262	1.9290	9.0000e-005		8.1500e-003	8.1500e-003		8.1500e-003	8.1500e-003	0.0000	2.7169	2.7169	4.3500e-003	0.0000	2.8256
Total	**2.2987**	**0.1100**	**1.9646**	**6.2000e-004**		**0.0149**	**0.0149**		**0.0149**	**0.0149**	**0.0000**	**99.7553**	**99.7553**	**6.2100e-003**	**1.7800e-003**	**100.4407**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	24.3464	0.4772	0.0114	39.6834
Unmitigated	24.3464	0.4772	0.0114	39.6834

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	14.5945 / 9.20088	24.3464	0.4772	0.0114	39.6834
Total		**24.3464**	**0.4772**	**0.0114**	**39.6834**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	14.5945 / 9.20088	24.3464	0.4772	0.0114	39.6834
Total		**24.3464**	**0.4772**	**0.0114**	**39.6834**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	46.8422	2.7683	0.0000	116.0496
Unmitigated	46.8422	2.7683	0.0000	116.0496

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	230.76	46.8422	2.7683	0.0000	116.0496
Total		**46.8422**	**2.7683**	**0.0000**	**116.0496**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	230.76	46.8422	2.7683	0.0000	116.0496
Total		**46.8422**	**2.7683**	**0.0000**	**116.0496**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Appendix B

Biological Evaluation

Biological Resources Assessment

Elliot Housing Subdivision Project
Assessor Parcel Numbers 087-010-006 and 087-010-008
Visalia, CA

Prepared for

4CREEKS
324 South Santa Fe Street, Suite A
Visalia, CA 93292

Prepared by

1322 E Shaw, Suite 400
Fresno, CA 93710

November 3, 2023

Executive Summary

4Creeks, Inc. (4Creeks) has tasked Soar Environmental Consulting Inc. (Soar Environmental) to provide a Biological Resource Assessment (BRA) as part of an Initial Study, for a Housing Subdivision Development Project (Project) in the City of Visalia, (City) in accordance with the California Environmental Quality Act (CEQA) prior to implementation of the proposed Project. The proposed Project is to construct 224 housing units on 59.13 acres of land on Assessor Parcel Numbers (APN) 087-010-006, and 087-010-008. These parcels are comprised of fallow agricultural fields on the outskirts of the city.

The objectives of this assessment are to: 1) provide a general characterization of biological resources on the property; 2) inventory plant and wildlife species; 3) evaluate the potential for special-status plant and animal species to occur or be impacted by project activities; and 4) describe the property's sensitive biological resources.

This BRA provides information concerning the biological resources within the Project Area. Prior to conducting a Habitat Assessment site survey, Soar Environmental researched the California Natural Diversity Database (CNDDB) and the United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), and the California Native Plant Society's (CNPS) Inventory of Rare and Endangered Plants of California, to compile a list of special-status species that could potentially be present in the vicinity of the Project Area. Suitable habitat requirements for the species identified in the records search were reviewed by a Soar Environmental biologist, including species listing status, and proximal observations of special-status plant and wildlife species identified in this report.

No special-status plant or wildlife species were observed in the Project Area during the Habitat Assessment survey. However, based on suitable habitat present, and proximity of documented occurrences of special-status species from the data records search and Literature Review section of this report, it was determined that there is potential for Swainson's hawk (*Buteo swainsoni*) to occur within the vicinity of the Project Area. Based on the findings of this assessment, the proposed development of this property may affect but is unlikely to adversely affect Swainson's hawk, or any other listed species identified in this report . Mitigation measures are listed in Section 6 of this report to further minimize the potential for adverse effects to listed species, and their habitats.

Contents

Executive Summary 2
1. Introduction 5
1.1 Project Location 6
1.2 Project Description 8
1.3 Environmental Setting 9
2. Methods 13
2.1 Literature Review 13
2.2 Field Reconnaissance Methodology 13
3. Biological Assessment Results 14
4. Special-Status Species 18
Species with High Potential for Occurrence: 18
4.1 Special-Status Species Descriptions 27
California tiger salamander (*Amystoma californiense*) 27
Western spadefoot (*Spea hammondii*) 27
Swainson's hawk (*Buteo swainsoni*) 28
Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) 28
San Joaquin kit fox (*Vulpes macrotis mutica*) 29
Western mastiff bat (*Eumops perotis californicus*) and Pallid bat (*Antrozous pallidus*) 29
Western pond turtle (*Actinemys marmorata*) 30
Special-Status Plant Species 30
California Jewelflower 30
Ewan's Larkspur 31
Heartscale 31
Lesser Saltscale 31
Subtle Orache 31
Recurved Larkspur 31
4. Findings 32
Critical Habitats 32
Project Impacts 32

Conclusion 32
5. Recommended Mitigation Measures 33
MIitigation Measure 1: Swainson's Hawk Nesting Habitat 33
MIitigation Measure 1a: Nesting Bird Survey 33
MIitigation Measure 1b: Active Nests or Roosts 33
MIitigation Measure 1c: Project Delay 33
6. Study Limitations 33
Works Cited 34

Figures and Diagram

Figure 1. Project Location 7
Diagram A. Site Plan 8
Figure 2. Project Area Boundary 10
Figure 3. Soil Types Occurring in The Project Area 11
Figure 4. USFWS National Wetlands Inventory (NWI) Map 12
Figure 5 – Current and Historical Special-Status Species Locations 17

Tables

Table 1– Wildlife Species Observed on the Project Area 15
Table 2 – Plant Species Observed on the Project Area 15
Table 3 – Regionally Occurring Special-Status Wildlife Species 19
Table 4 – Regionally Occurring Special-Status Plant Species 24

Appendices

APPENDIX A: Project Area Photographs 35
APPENDIX B: U.S. Fish & Wildlife Service IPaC Resource List 43
APPENDIX C: California Department of Fish and Wildlife RareFind 44
APPENDIX D: California Native Plant Society Rare Plant Inventory 45
APPENDIX E: USDA-NRCS Soil Survey ..... Error! Bookmark not defined.
APPENDIX F: Site Plan 47

1. Introduction

The proposed Project is the construction of a housing development on 59.13 acres within the City of Visalia, California. Soar Environmental Consulting Inc. (Soar Environmental) is tasked with providing this Biological Resource Assessment (BRA) in accordance with CEQA requirements.

This Biological Resource Assessment presents the findings of our literature review (including scientific literature and previous reports detailing studies conducted in the area) and the California Department of Fish and Wildlife's (CDFW) Natural Diversity Data Base (CNDDB), the California Native Plant Society (CNPS) online electronic inventory of rare and endangered plants of California, and the U.S. Fish and Wildlife Service (USFWS) IPaC for reported occurrences of special status vegetation communities, plants and animals. Based on a review of these resources it was determined that a Biological Assessment was necessary to search for the potential suitable habitat or presence for the following special-status species:

Special-Status Wildlife Species

- California tiger salamander (*Ambystoma californiense*)
- Western Spadefoot toad (*Spea hammondii*)
- Loggerhead Shrike (*Lanius ludovicianus*)
- Swainson's hawk (*Buteo swainsoni*)
- Western Yellow-billed Cuckoo (*Coccyzus americanus occidentalis*)
- San Joaquin Kit Fox (*Vulpes macrotis mutica*)
- Western Mastiff Bat (*Eumops perotis californicus*)
- Western Pond Turtle (*Actinemys marmorata*)

Special-Status Plant Species

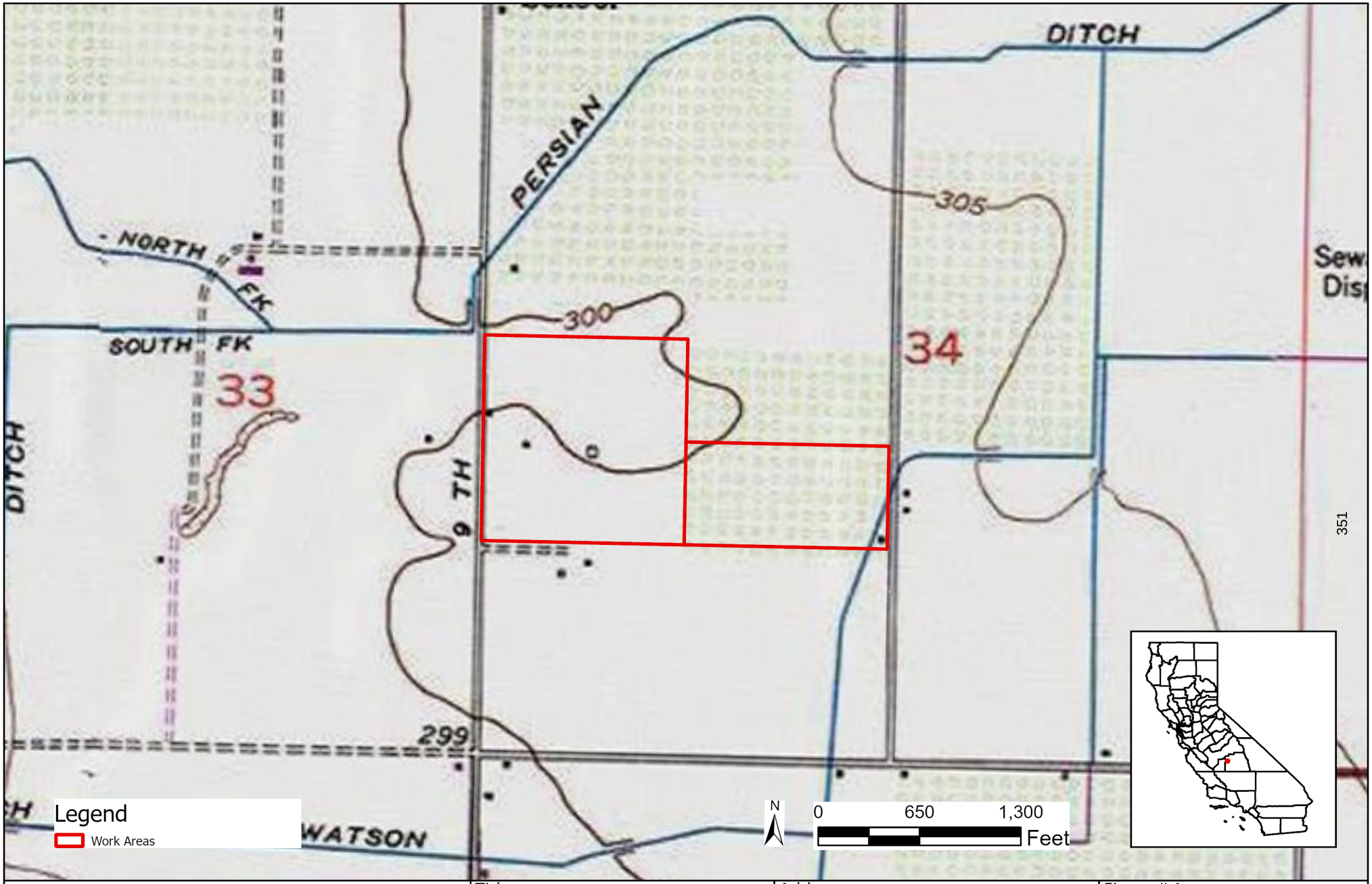
- California Jewelflower (*Caulanthus californicus*)
- Ewan's Larkspur (*Delphinium hansen*ii ssp. *ewanianum*)
- Heartscale (*Atriplex cordulata* var. *cordulata*)
- Lesser Saltscale (*Atriplex minuscula*)
- Recurved Larkspur (*Delphinium recurvatum*)
- Subtle Orache (*Atriplex subtilis*)

A Habitat Assessment was conducted in the Project Area on October 13, 2023, by a Soar Environmental qualified biologist. The purpose of the Biological Assessment survey was to search for the suitable habitat conditions, or presence of special-status species that have historically been observed within, or surrounding, the Project Area, as well as any other biological or environmentally sensitive resources. The Project Area is mostly fallow agricultural fields, with approximately 5.6 acres of valley oak woodland and 4.4 acres of maintained annual grassland habitat in the northwestern section of the property. No special-status species were observed during the site visit, and no wetlands, seasonal wetlands, alkali grassland or shrubland occur in the Project Area.

1.1 Project Location

The Project Area is located in the Central Valley of California on the east side of Road 92 (Shirk Road), approximately 0.5 mile south of State Route (SR) 198 in the City of Visalia, California, Tulare County and is comprised of Assessor Parcel Numbers (APN) 087-010-006 and 807-010-008. The Project Area is in the southwestern quadrant of the city limits, approximately 2.5 miles east of SR-99 and a mile south of SR-198, between Road 92 (Shirk Road) and Roeben St.

Located in the USGS 7.5-minute quadrangle of *Visalia* in Township 18 South, Range 24 East, in the western half of Section 34. The Saint Johns River is approximately 4.5 miles northeast of the Project Area, and the Valley Oaks Golf Course is approximately 1.3 miles west. The Project Area is surrounded by residential houses and agricultural land.



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Four Creeks Elliot Housing Subdivision Project, Visalia, CA

Client
4Creeks

Address
Subdivision Bounded by Shirk and Tulare roads and Roeben Street. APNs 087-010-006, 087-010-008.

Figure # 1
Project Location

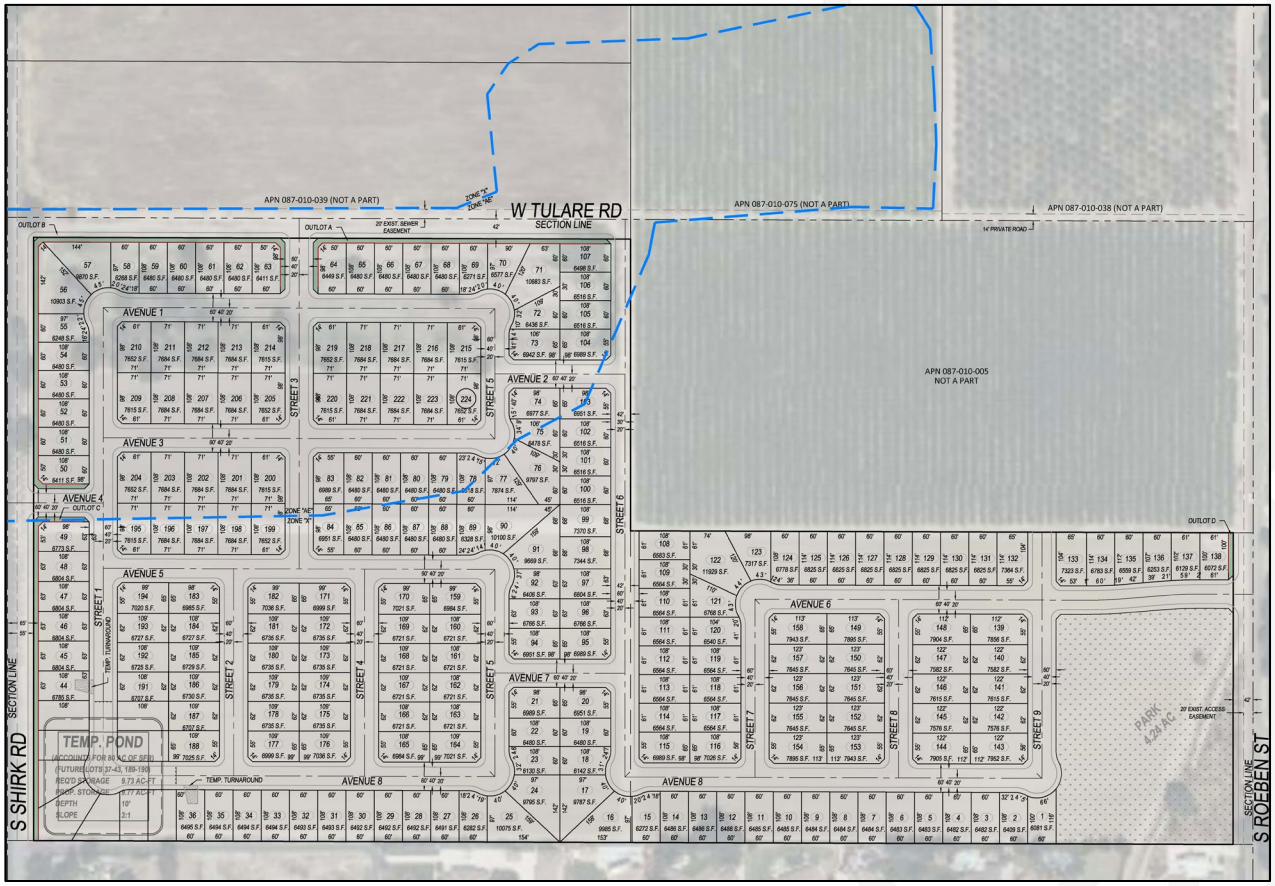
Revision Date
10/23/2023

1.2 Project Description

The proposed Project is the construction of a 224 unit housing subdivision at the southeast corner of Tulare Avenue and Shirk Road, in the City of Visalia. The Project Area is limited to a 59.13-acre property, with 2.24 acres allocated to the development of a park dedicated to the City. Grading will be accomplished using a backhoe and grader.

The project will require the development of roads and sidewalks around and throughout the property. A stormwater retention basin will be maintained in the southwest corner of the Project Area for all on site drainage. On the east side of the property bounded by Roeben Street, three existing overhead powerlines will be undergrounded, and five powerline poles on the Shirk Road boundary will be relocated. Since the entire property will be graded for the housing project during construction activities, the trees in the northwest section of the property would be removed. The majority of the property has been used for agricultural production and the entire lot has been cleared and maintained aside from the trees. (**Diagram A– Site Plan**)

Diagram A Site Plan



A detailed development plan is shown in Appendix F

1.3 Environmental Setting

The Project Area is surrounded by mostly grassy fields to the north and west, and residential complexes to the east and south. This area is on the southeastern side of Visalia in the Central Valley near the Sierra Nevada foothills. The property was being used for growing corn earlier in the year and significant portions of the property were disced prior to the biological survey.

The Project Area is a 59.13-acre disturbed vacant field, composed primarily of non-native annual herbs and grasses. A well- established canal exists along the southeastern boundary. The topography is relatively flat, ranging from 305 feet above sea level to the east, sloping down to 301 feet above sea level to the west (0 to 2% slopes). According to the USDA-NRCS Soil Survey (**Appendix E**) the active agricultural field portion of the Project Area is 101 Akers-Akers saline-sodic complex, and the northwestern portion of the property is mapped as 130 Nord fine sandy loam.

On the northwestern portion of the property there are some tree groves covering 5.6 acres, comprised of approximately 30 valley oaks *(Quercus lobata).* The largest valley oak tree in this stand is approximately 30 inches in diameter at breast height (dbh), the rest are approximately 12 to 24 inch dbh. No bird nests were observed in any of the trees in the Project Area. Another large valley oak that is a multi-trunked tree that is greater than 36” dbh occurs in the middle of the property on the southern edge.

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Figure #2
Project Boundary

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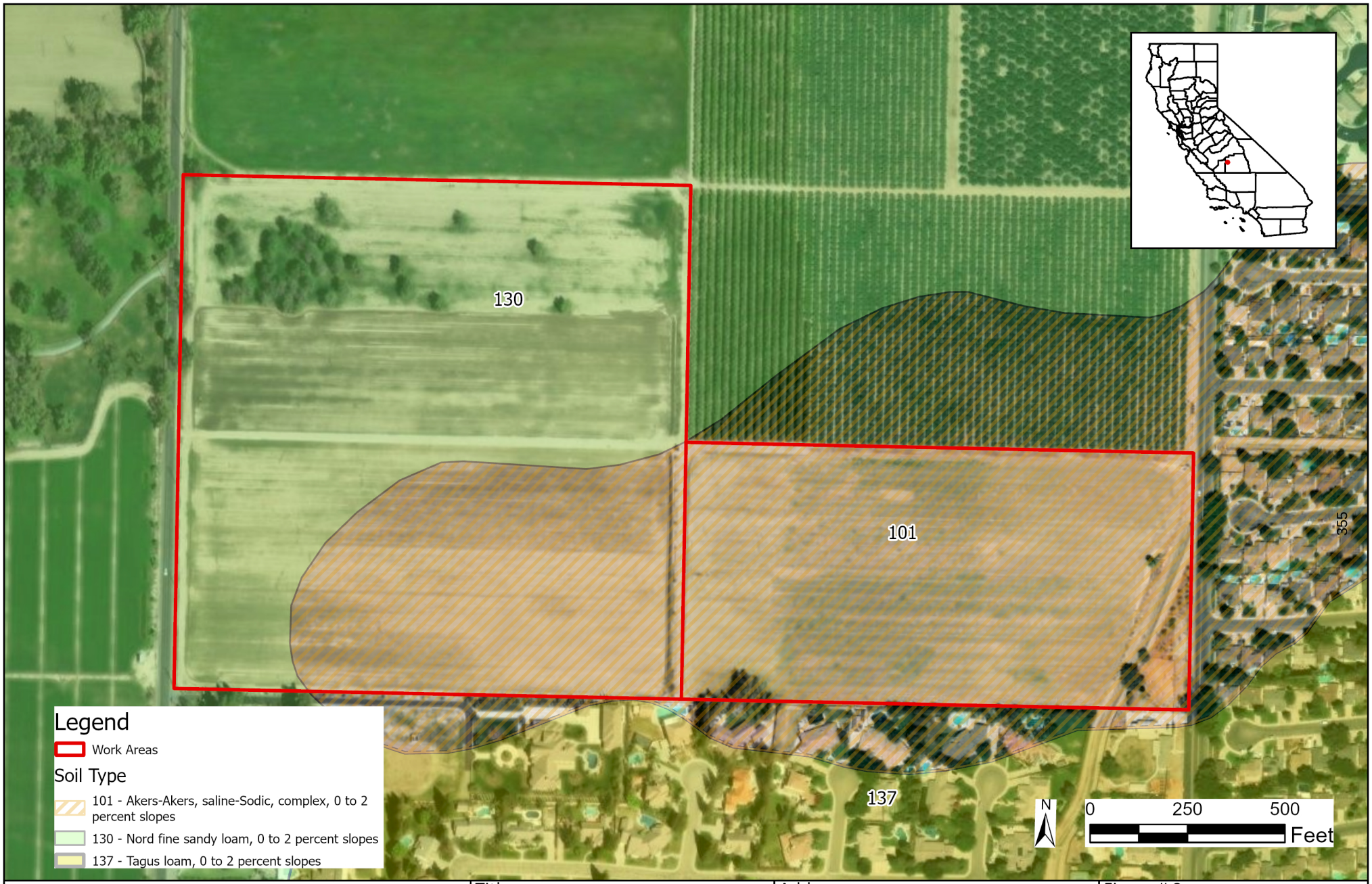

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Figure # 3
Soil Types Occurring in the Project Area

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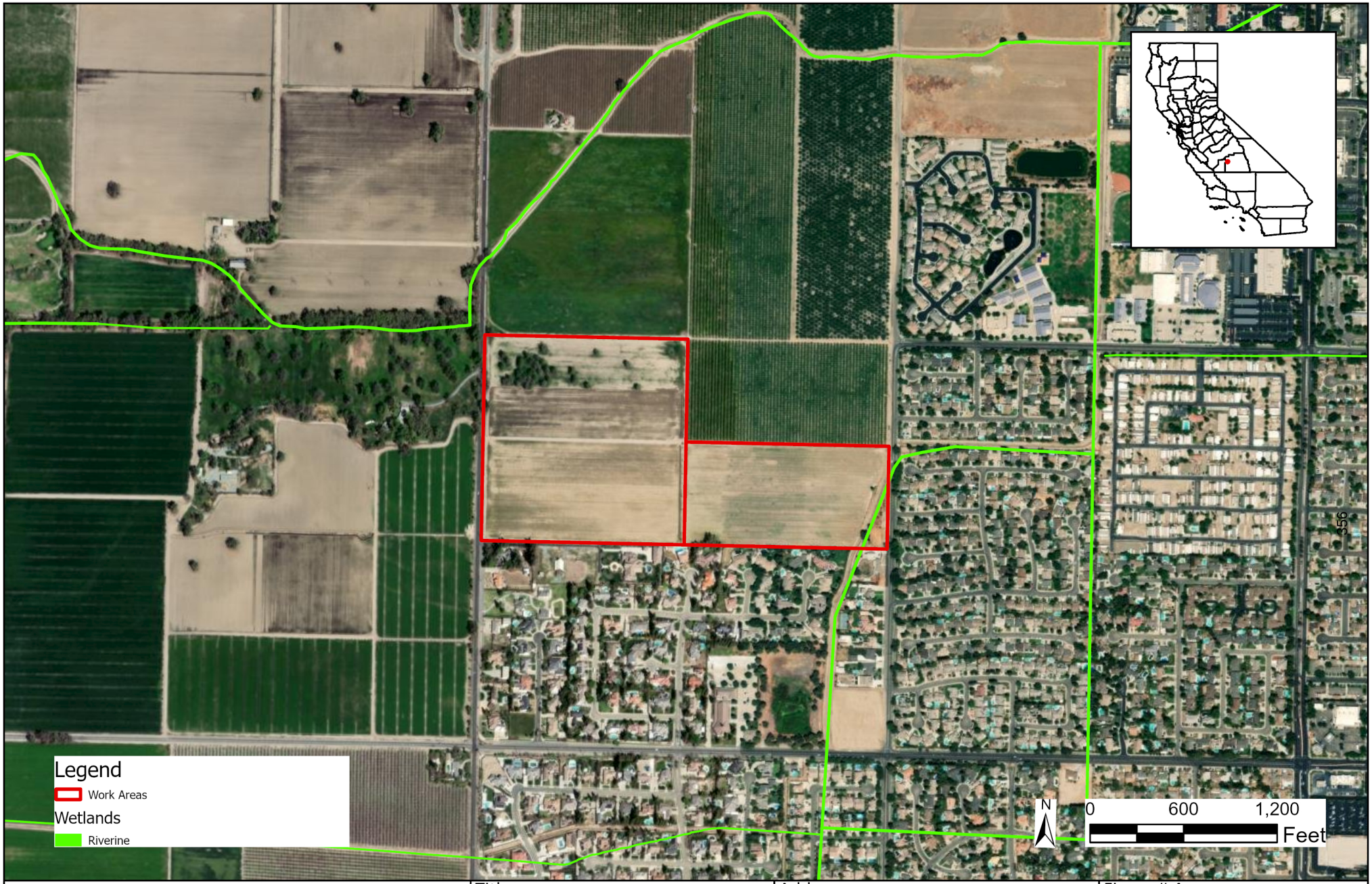

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Figure # 4
USFWS NWI Map

Revision Date
10/23/2023

2. Methods

2.1 Literature Review

Prior to performing the Biological Assessment, Soar Environmental conducted soil survey analysis (**Appendix E**) a survey of the USFWS National Wetlands Inventory (**Figure 4**) and a CNDDB records search (**Figure 5**) for threatened or endangered species that could potentially occur in the vicinity of the Project Area. The records search included a review of the California Natural Diversity Database (CNDDB), the United States Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC), and the California Native Plant Society (CNPS) Online Rare Plant Inventory. The area covered by the data records search included the USGS 7.5-minute quadrangles of *Visalia, Exeter, Goshen, Ivanhoe, Monson, Cairns Corner, Paige, Traver* and *Tulare*. From these sources a list of special-status plant and animal species was generated. Proximal locations of known special-status plant and animal species located within 5 miles of the Project Area are shown in **Figure 5**.

A records search of the CNDDB and IPaC databases indicated 10 special-status wildlife species most likely to occur within or near the Project Area would include:

1) California tiger salamander (*Ambystoma californiense*)
2) Western Spadefoot toad (*Spea hammondii*)
3) Loggerhead Shrike (*Lanius ludovicianus*)
4) Swainson's hawk (*Buteo swainsoni*)
5) Western Yellow-billed Cuckoo (*Coccyzus americanus occidentalis*)
6) San Joaquin Kit Fox (*Vulpes macrotis mutica*)
7) Western Mastiff Bat (*Eumops perotis californicus*)
8) Western Pond Turtle (*Actinemys marmorata*)

A search of the CNPS Online Rare Plant Inventory identified 21 regionally occurring special-status plant species with potential to occur within or near the Project Area. Of these, 6 plant species were determined to have a low potential to occur within portions of the Project Area. The 15 other species determined to have no potential to occur in the Project Area were excluded from further analysis.

1) California Jewelflower (*Caulanthus californicus*)
2) Ewan's Larkspur (*Delphinium hansen*ii ssp. ewanianum)
3) Heartscale (*Atriplex cordulata* var. cordulata)
4) Lesser Saltscale (*Atriplex miniscula*)
5) Recurved Larkspur (*Delphinium recurvatum*)
6) Subtle Orache (*Atriplex subtilis*)

2.2 Field Reconnaissance Methodology

The Habitat Assessment is a diurnal, non-protocol survey. The purpose of the Habitat Assessment Survey was to search for the presence of special-status species or suitable habitat for special-status

species identified in the data records search. The site visit for the Habitat Assessment includes observation and noting the plant and wildlife species occurring on and around the Project Area, habitat suitability for the species named in the **Literature Review**, present environmental conditions, and habitat, including microhabitat (only observable from the ground level).

The Habitat Assessment was conducted on October 13, 2023, by Soar Biologist Ben Arax to assess habitat quality for species listed in Section 2.1. Survey efforts emphasized the search for suitable habitats, or presence of special-status species that had documented occurrences in the data records search of the CNDDB, IPaC, and CNPS databases. The site visit consists of walking the perimeter of the property and meandering transects throughout the Project Area. During the site visit, the surveyor identified vegetation, searched for bird nests, possible small mammal dens, vernal pools and other signs of wildlife occupancy or associated suitable habitats. Plants were surveyed during the late blooming period or surveyed outside the blooming period. The biologist also surveyed the surrounding area by vehicle in accessible areas within 0.5 miles of the Project Area to look for biological resources and features that may be conducive for suitable habitat of the identified special-status species. During the survey, the biologist collected photos of the Project boundaries and other points of interest depicting the habitat and potential biological resources (**Appendix A**).

3. Biological Assessment Results

During the site visit, there were no observations of special-status plant or wildlife species. Plant and wildlife species that were observed on the property are listed in **Tables 1 & 2**. Approximately 49 acres of the Project Area is a bare dirt active agricultural field dominated in places by non-native annual grasses or ruderal weeds. Corn was grown on the property this year. Approximately five acres of low-mowed grassland adjoined by 5.6 acres of oak woodland with approximately 22 trees are on the northwestern edge. No bird nests were observed in the trees, grass thickets or powerline poles in the surrounding area. Herbaceous cover in the understory of the oak trees is dominated by absent to dense grass cover and few small mammal burrows were observed. The ground is relatively flat and cleared to the surface.

The survey was conducted by a qualified biologist outside of the blooming period for most of the sensitive plant species listed in the Literature Review. However, no special-status plant species were observed within or in the vicinity of the Project Area, and conditions for these species do not appear to be conducive, due to active agriculture uses and fire abatement activities including annual disking activities on the property, and in the surrounding urbanized environment.

No special-status plant or wildlife species were observed during the site visit. However, the Soar Biologist observed some common bird species flying around the area, listed in Table 1 below, along with plant species observed onsite. No other wildlife species were observed during the Biological Assessment.

Table 1– Wildlife Species Observed on the Project Area

Wildlife Species	Listing Status
American crow (*Corvus Brachyrynchos*)	None
Black Phoebe (*Sayornis nigricans*)	None
European Starling (*Sturnus vulgaris*)	None
House Finch (*Carpodacus mexicanus*)	MBTA
House Sparrow (*Passer domesticus*)	MBTA
Killdeer (*Charadrius montanus*)	MBTA
Lesser Goldfinch (*Carduelis psaltria*)	MBTA
Mourning dove (*Zenaida macroura*)	MBTA
Northern Flicker (*Colaptes auratus*)	None

Wildlife Species	Listing Status
Northern Mockingbird (*Mimus polyglottos*)	MBTA
Nuttall's Woodpecker (*Picoides nuttallii*)	None
Orange-crowned Warbler (*Vermivora celata*)	MBTA
Red-breasted Nuthatch (*Sitta canadensis*)	MBTA
Red-Tail Hawk (*Buteo jamaicensis*)	MBTA
Western Scrub Jay (*Aphelocoma californica*)	None
White-crowned Sparrow (*Zonotrichia leucophrys*)	MBTA
Yellow-rumped Warbler (*Dendroica coronata*)	MBTA

Table 2 – Plant Species Observed on the Project Area

Plant Species	Listing Status
Tree of Heaven (*Ailanthus altissima*)	Non-native
Tumbleweed (*Amaranthus albus*)	Non-native
Prostrate Pigweed (*Amaranthus blitoides*)	Non-native
Wild Oats (*Avena barbata*)	Non-native
Ripgut Brome (*Bromus diandrus*)	Non-native
Shepherd's Purse (*Capsella bursa-pastoris*)	Non-native
Lambsquarters (*Chenopodium album*)	Non-native

Plant Species	Listing Status
Mexican Sprangletop (*Leptochloa fusca* ssp. *uninervia*)	Native
Common knotgrass (*Polygonum aviculare*)	None
Cheeseweed (*Malva neglecta*)	Non-native
Bur clover (*Medicago polymorpha*)	Non-native
Forget me Not (*Myosotis discolor*)	Non-native
Wild Rice (*Zizania palustris*)	
Dallis Grass (*Paspalum dilatatum*)	Non-native

Bindweed (*Convolvulus arvensis*)	Non-native
Willowherb (*Epilobium brachycarpum*)	Native
Fireweed (*Epilobium ciliatum*)	Native
Fig tree (*Ficus* sp.)	Ornamental
Flax-leaved Horseweed (*Erigeron bonariensis*)	Non-native
Canadian horseweed (*Erigeron canadensis*)	Non-native
English Ivy (*Hedera helix*)	Invasive non-native
Prickly Lettuce (*Lactuca serriola*)	Non-native

Common plantain (*Plantago major*)	Non-native
knotweed (*Polygonum aviculare*)	None
Valley Oak (*Quercus lobata*)	Native
Sow Thistle (*Sonchus oleraceus*)	Non-native
Johnson Grass (*Sorghum halapense*)	None
Puncture Vine (*Tribulus terrestris*)	Non-native
Creeping clover (*Trifolium repens*)	Non-native
Corn (*Zea mays*)	Cultivated

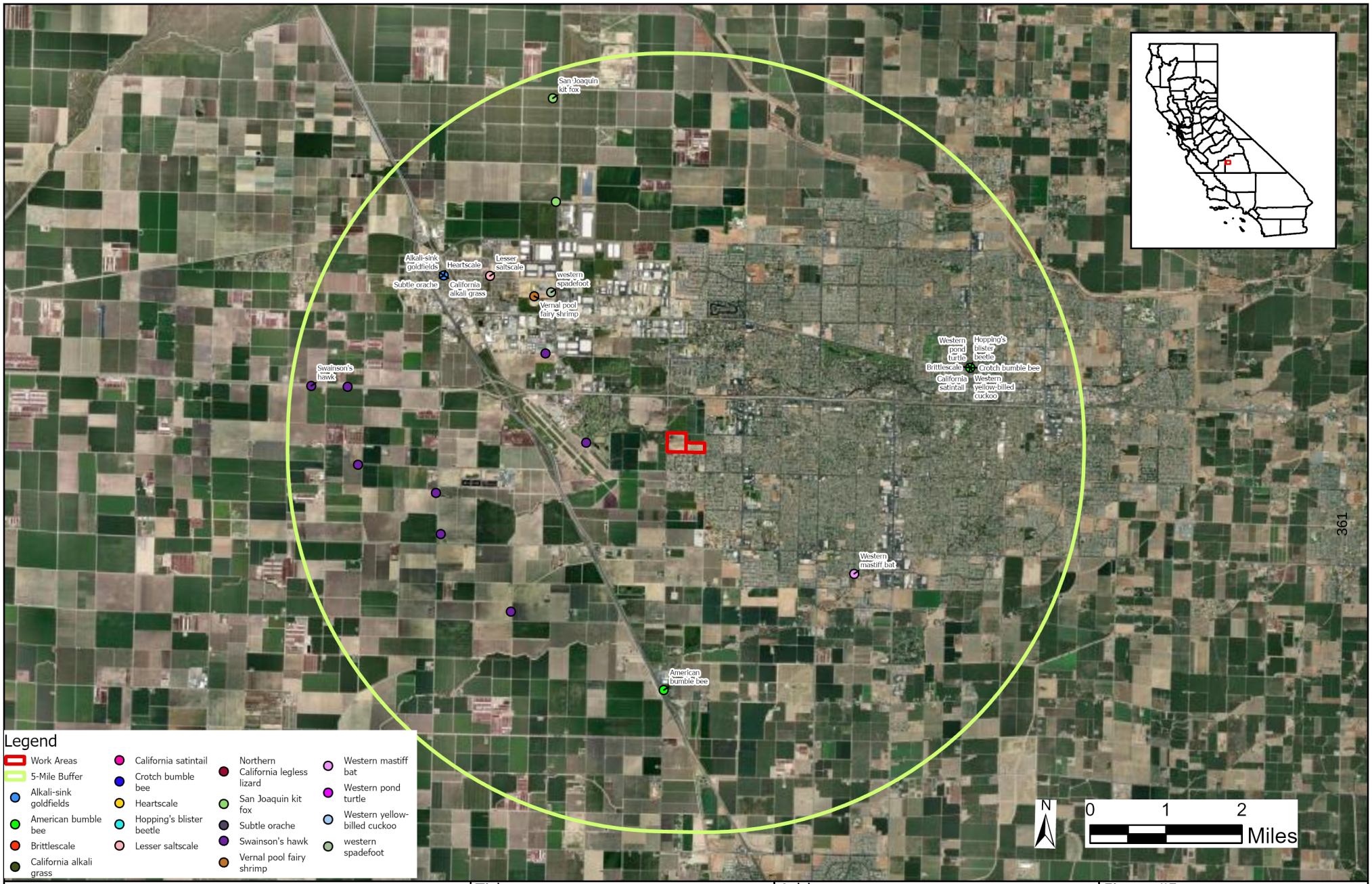

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Figure #5
CNDDB Map

Revision Date
10/23/2023

4. Special-Status Species

Special-status plants and animals that have a reasonable possibility to occur in the Project Area based on habitat suitability and requirements, elevation and geographic range, soils, topography, surrounding land uses, and/or proximity of known occurrences in the CNDDB, IPaC, and CNPS databases to the Project Area are listed in Tables 3 & 4. The likelihood for occurrence of special-status species was assessed using information from the various sources listed in Section 2.1, as well as the Habitat Assessment field survey. Narratives are supplied for species for which there are land use planning and regulatory implications.

Results from the data records search identified 46 special-status species: 25 wildlife and 21 plant species. However, an analysis of recent occurrences, habitat suitability and proximity within 5-miles to the Project Area indicated one special-status wildlife species with high potential to occur and 18 special-status species (12 wildlife species and 6 plant species) with low potential for occurrence. Special-status species for which there are no regulatory implications (i.e., lack of suitable habitat, or no record of historical occurrences within 5 miles) are excluded from further analysis.

Species with High Potential for Occurrence:

- Swainson's Hawk (*Buteo swainsonii*)

Special-status species and sensitive habitats include plant and wildlife taxa, or other unique biological features afforded special protection by local land use policies, and/or state and federal regulations. Special-status plant and animal species are those listed as rare, threatened, or endangered under the state or federal Endangered Species Acts or those who are rare enough to become listed in the foreseeable future (Cal. Code Regs. tit. 14 § 15380). Vegetation communities may warrant special status if they are of limited distribution, have high wildlife value, or are particularly vulnerable to disturbance. Listed and special-status species are defined as:

- Listed or proposed for listing under the state or Federal Endangered Species acts.
- Protected under other regulations (e.g., Migratory Bird Treaty Act).
- California Department of Fish & Wildlife (CDFW) Species of Special Concern.
- Listed as species of concern by CNPS or USFWS; and/or
- Receive consideration during environmental review under CEQA.

All species from the Section 2.1 search results are listed below including common and non-listed species. The analysis and following determination are based on Habitat Assessment results and the most recent occurrence and proximity to the Project Area per Section 2.1 (Table 1, Table 2).

- **Present:** Species known to occur on the site, based on CNDDB records, and/or was observed on the site during the field survey.

- **High:** Species known to occur on or near the site (based on CNDDB record within 5 miles), and there is suitable habitat on the site.

- **Low:** Species known to occur on or near the site (based on CNDDB record within 5 miles), but there is no suitable habitat onsite.

- **None:** Species is not known to occur on within 5 miles of the site and there is no suitable habitat on the site. -OR- Species was surveyed for during the appropriate season with negative results.

Table 3 – Regionally Occurring Special-Status Wildlife Species

Common/ Scientific Name	*Listing Status	Habitat Requirements	Potential for Occurrence
Amphibians			
California tiger salamander (*Ambystoma californiense*) Central California DPS	FT/ST/CWL	Grasslands, oak savannah riparian woodlands and lower elevations of coniferous forests, ditches, vernal pools, and wetlands.	**Low:** Limited potential upland dispersal or estivating habitat occurs in the northwest 10 acres of the Project Area and the species has not been reported previously within five miles of the Project Area.
Western Spadefoot toad (*Spea hammondii*)	-/-/SSC	Occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying.	**Low:** The spadefoot toad has low potential to occur in the Project Area. Though the species occurs within 2 miles of the Project Area, no breeding habitat occurs on the property and limited unfarmed upland dispersal habitat.
Birds			
Belding's Savannah Sparrow (*Passerculus sandwichensis beldingi*)	-/-/BCC/MBTA	Inhabits coastal salt marshes, from Santa Barbara south through San Diego County. Nests in Salicornia on and about margins of tidal flats.	**None**. No salt marsh or pickleweed nesting habitat occur in the Project Area. No tidal flats.
Bullock's Oriole (*Icterus bullockii*)	-/-/BCC/MBTA	Found in open broadleaf woods, foraging among leaves in trees.	**None**. Species is not known to occur on within 5 miles of the site and there is no suitable habitat on the site.
Burrowing Owl (*Athene cunicularia*)	-/-/ SSC/BCC/MBTA	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation. Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	**None**. Species is not known to occur on within 5 miles of the site and there is no suitable habitat on the site.

California Gull (*Larus californicus*)	-/-/CWL/BCC/MBTA	Littoral waters, sandy beaches, waters and shorelines of bays, tidal mudflats, marshes, lakes, etc. Colonial nester on islets in large interior lakes, either fresh or strongly alkaline.	**None:** No habitat occurs for this aquatic bird species.
Clark's Grebe (*Aechmopohrus clarkii*)	-/-/CWL/MBTA	Ponds, seasonal pools, open water	**None:** No habitat occurs for this aquatic bird species.
Loggerhead Shrike (*Lanius ludovicianus*)	-/-/SSC/MBTA	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub and washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	**None**. Species is not known to occur on within 5 miles of the site and there is no suitable habitat on the site.
Nuttall's Woodpecker (*Dryobates nuttallii*)	-/-/BCC/MBTA	Forages for acorns and insects and nests in oak woods.	**Low:** Only limited oak trees occur in the northwest Project Area.
Oak titmouse (*Baeolophus inornatus*)	-/-/BCC/MBTA	Oak forests of the Pacific slope between southern Oregon and Baja California, especially around the Central Valley of California. Strongly associated with oaks.	**Low:** Only limited oak trees occur in the northwest Project Area.
Short-billed Dowitcher (*Limnodromus griseus*)	-/-/BCC/MBTA	Forages on mudflats and shallow ponds. Vernal pools.	**None:** No aquatic, wetland or mudflat pond habitat occurs in the Project Area.
Swainson's hawk (*Buteo swainsoni*)	-/ST/SSC BCC/MBTA	Breeds in grasslands with scattered trees, juniper-sage flats, riparian areas, savannahs, and agricultural or ranch lands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	**High**: Species known from 9 historic occurrences within 5 miles of site to the west, northwest and southwest. Closest occurrence is within one mile of the site, and there is limited suitable nesting and abundant foraging habitat on the site.

Tricolored blackbird (*Agelaius tricolor*)	-/ST/SSC BCC/MBTA	Highly colonial species, most numerous in Central Valley and vicinity. Largely endemic to California. Requires open water, protected nesting substrate, and foraging area with insect prey within a few km of the colony	**None:** No pond or wetland habitat occurs with broadleaf cattail or tule stands for nesting colony.
Western Grebe (*Aechmophorus occidentalis*)	-/-/BCC/MBTS	Ponds, seasonal pools, mudflats	**None:** No aquatic seasonal pool or ponds occur in the Project Area.
Western Yellow-billed Cuckoo (*Coccyzus americanus occidentalis*)	FT/SE/MBTA	Riparian forest nester, along the broad, lower flood-bottoms of larger river systems. Nests in riparian jungles of willow, often mixed with cottonwoods, with lower story of blackberry, nettles, or wild grape.	**Low:** No nesting habitat occurs in Project Area. Limited oak woodland foraging habitat.
Invertebrates			
Crotch Bumble Bee (*Bombus crotchii*)	-/SSC/-	Coastal California east to the Sierra-Cascade crest and south into Mexico. Food plant genera include *Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia*, and *Eriogonum*.	**None:** The Project Area lacks the native wildflower field nectar habitat needed to support this species.
Hopping's Blister Beetle (*Lytta hoppingi*)	-/SSC	Inhabits the foothills at the southern end of the Central Valley. Found on flowers and plants.	**None:** Limited plant cover is available on the property in the northwest portion of the Project Area. Area is cleared and maintained.
Monarch Butterfly (*Danaus plexippus*)	FC/-/-	Winter roost sites extend along the coast from northern Mendocino to Baja California, Mexico. Roosts located in wind-protected tree groves (eucalyptus, Monterey pine, cypress), with nectar and water sources nearby.	**None:** No roosting, foraging (nectar-flowers) or reproductive host plant habitat (Milkweed, (Asclepias sp.) is present in the Project Area.

Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*)	FT/-/-	Only occurs in the Central Valley of California, in association with blue elderberry (*Sambucus mexicana*), in riparian scrub. Prefers to lay eggs in elderberries 2-8 inches in diameter; some preference shown for "stressed" elderberries.	**None:** No elderberry shrub host plant potential habitat occurs in the Project Area.
Vernal pool fairy shrimp (*Branchinecta lynchi*)	FT/-/-	Endemic to the vernal pools in grasslands of the Central Valley, Central Coast mountains, and South Coast mountains, in astatic rain-filled pools. Inhabit small, clear-water sandstone-depression pools and grassed swale, earth slump, or basalt-flow depression pools.	**None:** No seasonal aquatic habitat for this species, such as vernal pools, occurs in the Project Area.
Vernal pool tadpole shrimp (*Lepidurus packardi*)	FE/-/-	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools commonly found in grass-bottomed swales of unplowed grasslands. Some pools are mud-bottomed and highly turbid.	**None:** No seasonal aquatic habitat for this species, such as vernal pools, occurs in the Project Area.
Mammals			
American Badger (*Taxidea taxus*)	-/-/SSC	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs sufficient food and open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	**None:** The site lacks potential undisturbed grassland habitat. The site is maintained and disced regularly with active agriculture use.
Pallid bat (*Antrozous pallidus*)	-/-/SSC	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting. Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	**None**. Species is not known to occur on within 5 miles of the site and there is no suitable habitat on the site.

San Joaquin Kit Fox (*Vulpes macrotis mutica*)	FE/ST	Annual grasslands or grassy open stages with scattered shrubby vegetation. Need loose-textured sandy soils for burrowing, and suitable prey base.	**Low:** Site has dispersal habitat, but has limited foraging or denning habitat and two previous records occur 3 and 4.7 miles northwest of the Project Area.
Tipton Kangaroo Rat (*Dipodomys nitratoides nitratoides*)	FE/SE	Saltbrush scrub and sink scrub communities in the Tulare Lake Basin of the southern San Joaquin Valley. Needs soft friable soils which escape seasonal flooding. Digs burrows in elevated soil mounds at bases of shrubs.	**None:** No alkali scrub or sink scrub habitat occurs in the Project Area. No seed forage habitat occurs in the Project Area. The Project Area is an active agricultural field.
Western Mastiff Bat (*Eumops perotis californicus*)	-/-/SSC	Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, etc. Roosts in crevices in cliff faces, high buildings, trees and tunnels.	**Low:** Limited oak woodland roosting and moderate grassland foraging habitat for this species in the Project Area. The area is heavily farmed and maintained. Species is known from one record 2 miles southeast of Project Area.
Reptiles			
Blunt-nosed Leopard Lizard (*Gambelia sila*)	FE/SE/FP	Resident of sparsely vegetated alkali and desert scrub habitats, in areas of low topographic relief. Seeks cover in mammal burrows, under shrubs or structures such as fence posts; they do not excavate their own burrows.	**None:** No alkali scrub or desert scrub habitat occurs in the Project Area. The Project Area is an active agricultural field.
Northern California Legless Lizard (*Anniela pulchra*)	-/-/SSC	Sandy or loose loamy soils under sparse vegetation. Soil moisture is essential. They prefer soils with a high moisture content.	**None:** No sand outcrops or sandy habitat occurs in the Project Area. The Project Area is an agricultural field.
Western Pond Turtle (*Actinemys marmorata*)	-/-/SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches, usually with aquatic vegetation, below 6000 ft elevation. Needs basking sites and suitable (sandy banks or grassy open fields) upland	**Low:** Low quality potential habitat in the form of an open water unvegetated canal on the eastern edge and another just offsite to the northwest leave potential for this species to occur nearby. One historic occurrence of the

		habitat up to 0.5 km from water for egg-laying.	species is known from four miles east of Project Area.

*Listing Status Notes:

Federal:
FE – Federally listed Endangered
FT – Federally listed Threatened
FC – Federal Candidate Species
FWL – USFWS Watch list
BCC – USFWS Bird of Conservation Concern
MTBA – Migratory Bird Treaty Act

State:
SE – State listed Endangered
ST – State listed Threatened
SC – State Candidate Species
SR – State Rare Species
SA – State Special Animal
FP – CDFW Fully Protected Species
SSC – CDFW Species of Special Concern
CWL – CDFW Watch List

Table 4 – Regionally Occurring Special-Status Plant Species

Common/ Scientific Name	*Status Fed/CA/CNPS/ Bloom Period	Habitat Description	Potential to Occur
Alkali-sink Goldfields (*Lasthenia chrysantha*)	-/-/1B.1 Feb-Apr	Vernal pools, alkaline microhabitat. Found at elevations between 0 and 655 ft.	**None:** No vernal pool habitat occurs in the Project Area.
Brittlescale (*Atriplex depressa*)	-/-/1B.2 Apr-Oct	Chenopod scrub, meadows and seeps, playas, valley and foothill grassland, and vernal pools. Alkaline and clay microhabitat. Found at elevations between 5 and 1050 ft.	**None:** No native habitat or vernal pool habitat occurs in the Project Area.
California Alkali Grass (*Pucinellia simplex*)	-/-/1B.2 Mar-May	Chenopod scrub, meadows and seeps, valley and foothill grassland and vernal pools. Sinks, alkaline, flats, lake margins, and vernally mesic microhabitats. Found at elevations between 5 and 3050 ft.	**None:** No vernal pool habitat or chenopod scrub occurs in the Project Area.
California Jewelflower (*Caulanthus californicus*)	FE/CE/1B.1 Feb-May	Chenopod scrub, pinyon and juniper woodland, valley and foothill grassland. Found at elevations between 200 and 3280 feet.	**Low:** Limited grassland potential habitat occurs in the Project Area.
California Satintail (*Imperata brevifolia*)	-/-/2B.1 Sep-May	Chaparral, coastal scrub, Mojavean desert scrub, meadows and seeps (often alkali), and riparian scrub. Mesic microhabitat. Found at	**None:** No wetland habitat or shrub-dominated habitat occurs in the Project Area.

		elevations between 0 and 3985 ft.	
Coulter's Goldfields (*Lasthenia glaberata ssp. coulteri*)	-/-/1B.1 Feb-Jun	Marshes and swamps (coastal salt), playas and vernal pools. Found at elevations between 5 and 4005 ft.	**None:** No vernal pools, marshes or swamps occur in the Project Area.
Earlimart Orache (*Atriplex cordulata var. erecticaulis*)	-/-/1B.2 Aug-Sep (Nov)	Valley and foothill grassland. Vernally mesic microhabitat. Found at elevations between 130 and 330 ft.	**None:** Though some grassland occurs in the Project Area it is not within vernal pool or vernal swale habitat. Species not observed during current survey effort.
Ewan's Larkspur (*Delphinium hansenii ssp. ewanianum*)	-/-/4.2 Mar-May	Cismontane woodland, valley and foothill grassland. Found at elevations between 195 and 1970 ft.	**Low:** Limited heavily maintained oak woodland and grassland occur in the Project Area.
Heartscale (*Atriplex cordulata var. cordulata*)	-/-/1B.2 Apr-Oct	Chenopod scrub, meadows and seeps, valley and foothill grassland. Microhabitats sometimes saline, sometime alkaline. Found at elevations between 0-1835 ft.	**Low:** Limited maintained grassland in the northern Project Area. Species not observed during current survey effort.
Hoover's Spurge (*Euphorbia hooveri*)	FT/-/1B.2 Jul-Sep (Oct)	Vernal pools. Found at elevations between 80 and 820 feet.	**None:** No vernal pool habitat occurs in the Project Area.
Lesser Saltscale (*Atriplex miniscula*)	-/-/1B.1 May-Oct	Chenopod scrub, playas, valley and foothill grassland. Microhabitats are alkaline or sandy. Found at elevations between 50 and 655 ft.	**Low:** Limited maintained grassland in the northern Project Area. Species not observed during current survey effort.
Recurved Larkspur (*Delphinium recurvatum*)	-/-/1B.2 Mar-Jun	Chenopod scrub, cismontane woodland, valley and foothill grassland. Alkaline microhabitat. Found at elevations between 10 and 2590 ft.	**Low:** Limited maintained grassland and woodland in the northern Project Area. Species not observed during current survey effort.
Sanford's Arrowhead (*Sagittaria sanfordii*)	-/-/1B.2 May-Oct (Nov)	Marshes and swamps (shallow freshwater). Found at elevations between 0 and 2135 ft.	**None:** No marsh or swamp habitat occurs in the Project Area.
San Joaquin Adobe Sunburst (*Pseudobahia peirsonii*)	FT/CE/1B.1 Feb-Apr	Cismontane woodland, valley and foothill grassland. Adobe or clay microhabitat. Found	**None:** Disturbed and regularly maintained oak woodland and grassland occur in

		at elevations between 295 and 2625 ft.	northwestern portion of Project Area. Species not known to occur within 5 miles of site.
San Joaquin Valley Orcutt Grass (*Orcuttia inaequalis*)	FT/CE/1B.1 Apr-Sep	Vernal pools. Found at elevations between 35 and 2475 ft.	**None:** No vernal pool habitat occurs in the Project Area.
Spiny-sepaled Button-celery (*Eryngium spinosepalum*)	-/-/1B.2 Apr-Jun	Vernal pools, valley and foothill grassland. Found at elevations between 260 and 3200 feet.	**None:** No vernal pool habitat occurs in the Project Area.
Subtle Orache (*Atriplex subtilis*)	-/-/2B.2 (Apr) Jun-Sep (Oct)	Valley and foothill grassland. Found at elevations between 130 and 330 feet.	**Low:** Limited maintained grassland habitat. Species not observed during current survey.
Vernal Barley (*Hordeum intercedens*)	-/-/3B.2 Mar-Jun	Coastal dunes, coastal scrub, valley and foothill grassland (depressions, saline flats) and vernal pools. Found at elevations between 15 and 3280 ft.	**None:** No dunes, scrub or vernal pool habitat occurs in the Project Area.
Vernal Pool Smallscale (*Atriplex persistens*)	-/-/1B.2 Jun-Oct	Vernal pools (alkaline). Found at elevations between 35 and 375 ft.	**None:** No alkaline vernal pool habitat occurs in the Project Area.
Watson's Amaranth (*Amaranthus watsonii*)	-/-/4.3 Apr-Sep	Mojavean Desert scrub and Sonoran Desert scrub. Found at elevations between 65 and 5580 ft.	**None:** No desert scrub occurs in the Project Area.
Winter's Sunflower (*Helianthus winteri*)	-/-/1B.2 Jan-Dec	Cismontane woodland, valley and foothill grassland. Microhabitat includes relatively steep, south-facing slopes, granitic, openings, roadsides (often), and rocky (often). Found at elevations between 410 and 1510 ft.	**None:** The Project Area is outside the known elevation range for the species and no rocky woodland or grassland sites occur in the Project Area.

*Listing Status Notes:

Federal: FE – Federally listed Endangered
FT – Federally listed Threatened
FC – Federal Candidate Species

State: CE – State Listed as Endangered
SE – State listed Endangered
ST – State listed Threatened
SC – State Candidate Species
SR – State Rare Species

CRPR: California Native Plant Society Rare Plant Rank
1A – Considered extirpated in CA
1B – Rare, threatened, or endangered in CA and elsewhere
2 – Rare, threatened, or endangered in CA but common elsewhere
4 – Limited distribution (Watch-list)

CRPR Extensions 0.1 – Seriously endangered in California
0.2 – Fairly endangered in California
0.3 – Not very endangered in California

4.1 Special-Status Species Descriptions

This section describes identifiable physical characteristics and habitat requirements for special-status species identified in the CNDDB records search that were within 5 miles of the Project Area. It also discusses their potential to occur following the findings of the survey.

Special-Status Wildlife Species

California tiger salamander (*Amystoma californiense*)

California tiger salamander is listed as Threatened on the Federal and State level. Adults range in size from 15-22 centimeters (6 to 9 inches) long and have a dark background color with distinctive yellow spots. Juveniles look much like adults but lack the yellow spots. Larval California tiger salamander are grayish green in color and have the appearance of tadpoles with obvious, external gills. The eggs are clear and typically laid singly or in groups of three or four in shallow ponds.

Endemic to California, this species is found in grasslands, oak savannah woodlands, edges of mixed woodland, lower elevations of coniferous forests, and in heavily grazed fields along the Central California Coast and within the Central San Joaquin Valley. They may breed in ditches where water is present for a long enough duration for eggs and larvae to metamorphose into adults. During the non-breeding season (approximately late May through early November), California tiger salamander live in small mammal burrows, typically those of ground squirrels and pocket gophers. They spend most of each year on land, emerging from refugia only occasionally, usually on rainy nights, and have been observed on land within 1.24 miles (2 kilometers) from potential breeding pools.

A search of CNDDB records indicate the nearest occurrence of this species is more than five miles away from the Project Area. No potential aquatic breeding habitat occurs in the Project Area. The majority of the Project Area is active agricultural land that is unsuitable for this species. The northern oak woodland and grassland represent limited suitable dispersal or potential estivating habitat, though small mammal burrows were not observed to be abundant. California tiger salamanders are concluded to have a low potential to occur in the Project Area.

Western spadefoot (*Spea hammondii*)

Western spadefoot toad is a State species of special concern. Their range spans throughout the Central Valley and adjacent foothills. They can be common where they occur. In the Coast Ranges they are found from Point Conception in Santa Barbara County, south to the Mexican border. Elevations of occurrence extend from near sea level to 1,363 meters (4,460 feet) in the southern Sierra foothills (Jennings and Hayes 1994). This species occurs primarily in grasslands but occasionally appears in the valley-foothill hardwood woodlands or persists in orchard and vineyard habitats for a few years.

Western spadefoot toads spend most of the year underground in burrows up to 0.9 meters (36 inches) deep (Stebbins 1972). They construct their own burrows but have been seen infrequently using mammal burrows.

Adult western spadefoot toads feed on insects, worms, and other invertebrates (Stebbins 1972). Tadpoles consume planktonic organisms and algae but are also carnivorous—preying and consuming dead aquatic larvae of other amphibians as well as other western spadefoot tadpoles (Bragg 1964).

Rainfall is important in the formation and maintenance of breeding ponds. Most surface movements

by adults are associated with rain or high humidities at night. Breeding and egg laying happens exclusively in shallow temporary pools formed by heavy winter rains. Egg masses are attached to plant material or the upper surfaces of small, submerged rocks (Stebbins 1951). During dry periods, the moist soil inside the burrows provides water for absorption through the skin (Ruibal et al. 1969, Shoemaker et al. 1969). Dispersal of post metamorphic juveniles from breeding ponds can occur without rainfall.

No breeding pond potential habitat for this species occurs in the Project Area. Limited upland dispersal habitat occurs in the northern ten acres of the Project Area. Most of the Project Area is active agricultural land and is unsuitable for the species. Understory vegetation is annually maintained in the northern Project Area, which involves discing. These practices do not improve the spadefoot toad's potential to occur. One previous known occurrence from the CNDDB is 2.1 miles northwest of Project Area.

Swainson's hawk (*Buteo swainsoni*)

Swainson's hawk is listed as Threatened on the State level and is a listed species under the Migratory Bird Treaty Act. However, due to its common distribution throughout the country, it is not listed at the Federal level. This species favors open habitat for foraging such as agricultural fields, pastures, and row crops. They nest in scattered stands of eucalyptus, willow, oak, cottonwood, and conifers. On occasion, Swainson's hawk will nest on a power pole or transmission tower. The location of Swainson's hawk nests is typically on the tallest point in or near an open field, giving this species a full view of its foraging area while nesting.

Due to their late return to California for the breeding season, Swainson's hawk often uses the same nests for serval breeding seasons and even generations. If a nest is constructed, it is often constructed with loose bundles of sticks and debris quickly stacked together. They are also territorial of their nests and will dive bomb any other species attempting to use their nest. Red-tailed hawk and great horned owls, which overlap in habitat, are species known to use Swainson's hawk nests. The incubation period for Swainson's hawk is approximately 35 days, and the nesting period is 17 to 22 days. The breeding season for this species begins in March and ends in September.

The Project Area is primarily active agricultural land with some potential nesting and foraging habitat in the oak and grasslands in the northwest portion of the properties. The active agricultural land also may have potential use as foraging habitat, especially when fallow. Eight known occurrences of Swainson Hawk are within 5 miles of the Project Area and the closest is one mile west. A Swainson hawk and nesting bird survey should be conducted in all of the oak trees in the northern property prior to removal of the trees.

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*)

Yellow-billed cuckoos have uniform grayish-brown plumage on their head and back, and dull white underparts. Their tails are long with two rows of four to six large white circles on the underside. The bill of yellow-billed cuckoos is short to medium in length and curved downward with a black upper mandible and a yellow or orange lower mandible. Yellow-billed cuckoos have zygodactylous feet, meaning that of the four toes, the middle two point forward and the outer two point backward.

Yellow-billed cuckoos prefer open woodlands with clearings and a dense shrub layer. They are often found in woodlands near streams, rivers or lakes. In North America, their preferred habitats include abandoned farmland, old fruit orchards, successional shrubland and dense thickets. In winter, yellow-billed cuckoos can be found in tropical habitats with similar structure, such as scrub forest and mangroves.

The Project Area has approximately 10 acres of oak woodland and unfarmed grassland that could represent foraging habitat for this species. However, no riparian forest or habitat occurs in the Project Area.

San Joaquin kit fox (*Vulpes macrotis mutica*)

The San Joaquin kit fox is listed as Threatened at the Federal level and Endangered at the State level. They are petite, light-colored canids, approximately 50 centimeters (20 inches) in length, with bushy, black-tipped tails, large ears, and pointed snouts.

San Joaquin kit fox is a desert-adapted species which occurs mainly in arid, flat grasslands, scrublands, and alkali meadows where the vegetation structure is relatively short. This species uses dens year-round and needs loose-textured soils suitable for burrowing. They primarily prey on kangaroo rats and other small rodents, as well as large insects and occasionally rabbits. A typical kit fox den is anywhere from four to 10 inches (25 cm) in diameter, and is taller than it is wide, often with a keyhole shape. Dens usually have dirt berms and matted vegetation adjacent to the entrances, and tracks and prey remains will normally be detected nearby. They may also utilize man-made structures such as pipes and culverts as dens.

There were no signs of San Joaquin kit fox den sites or activity at the time of the Habitat Assessment. Suitable habitat for this species is poor within the Project Area. A search of CNDDB records indicate the nearest occurrences of kit fox are 3 and 4.7 miles away north and northwest from the Project Area. No other observations of San Joaquin kit fox have been recorded within 5 miles (8 kilometers) of the Project Area. Due to urbanization of the surrounding area, lack of suitable habitat in the form of natural grassland habitat, and distance of other known occurrences from the site, occurrence of San Joaquin kit fox within the vicinity of the Project Area is unlikely, and the proposed Project is unlikely to adversely affect any population of this species.

Western mastiff bat (*Eumops perotis californicus*) and Pallid bat (*Antrozous pallidus*)

Western mastiff bat and pallid bat are State listed Species of Special Concern. The mastiff bat species has a brown fur body length of 14 to 19 centimeters (5.5 to 7.5 inches), a wingspan of over 56 centimeters (22 inches), and body mass range from 60 to 70 grams (2.1 to 2.5 ounces). Western mastiff bat is the largest native bat in the United States. Thus, such morphology allows for rapid, sustained flight but limits maneuverability. This manner of flight is adaptive to flying in open habitats.

Western mastiff bats and pallid bats catch and feed on insects while in flight. The insects consumed are typically relatively small, low-flying and weak-flying forms. Over rugged terrain western mastiff bats naturally forage at much greater heights of 60 meters (195 feet) above the ground. Crevices in cliff faces, high buildings, trees, and tunnels are required for roosting. When roosting in rock crevices, this species needs vertical faces to drop off to take flight.

Western mastiff bats and pallid bats have yearlong nocturnal activity. They generally go into daily torpor from December through February but usually resume activity each night to feed, except when temperatures drop below 5°C (41°F). Nocturnal foraging range may exceed 24 kilometers (15 miles) from roost sites. Western mastiff bat rarely uses night roost and has an exceptionally long foraging period, up to 6-7 hours per night. Their echolocation can be heard from up to 300 meters (980 feet) away. They are non-migratory with no known home range and no known territory. They are known to roost along or in

small colonies with fewer than 100 bats, and commonly share roosts with other large bats such as *Eptesicus fuscus*, *Antrozous pallidus*, and *Tadarida brasiliensis*.

Western mastiff bats and pallid bats can be found in many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, annual and perennial grasslands, palm oases, chaparral, desert scrub, and urban. Roosts are often found in crevices in cliff faces, buildings, trees and tunnels. Their range includes the southeastern San Joaquin Valley and Coastal Ranges, from Monterey County southward through southern California, and from the coast eastward to the Colorado Desert. Suitable habitat for western mastiff bat and pallid bat consists of extensive open areas for foraging with abundant roost locations provided by crevices in rock outcrops and buildings. They need at least 3 meters (9.8 feet) of open space under roosting spot for takeoff.

Nursery roosts are tight rock crevices, caves, mines or tree hollows at least 90 centimeters (35 inches) deep and 5 centimeters (2 inches) wide, or crevices in buildings. The duration of pregnancy is between 80 to 90 days with mating beginning in early spring (March). The gestation period is unknown. Parturition occurs from early April through August or September and varies more than any other bat species in the United States. One young is produced per female bat per year.

No bat roosting habitat occurs in the Project Area in the form of rock outcrops or crevices or buildings. Potential foraging habitat does occur in the air space over the Project Area. The potential for these bat species to occur is considered low.

Western pond turtle (*Actinemys marmorata*)

The western pond turtle is listed as a Species of Special Concern on the State level. It is found throughout California west of the Pacific Crest, and along the Mojave River watershed, ranging from sea level to 4,500 feet (1,372 meters). The western pond turtle's diet consists of both plant material and invertebrates, any life forms found near water sources. Mating typically occurs between April and May, but this species has been observed relocating to find new food sources or breeding locations between March and June. This species requires basking sites and suitable upland habitat for egg-laying. Though an open water channel occurs along the eastern border of the Project and another open water ditch occurs near the northwest corner, neither aquatic feature has any vegetation associated with it growing in the water or along the canal channels.

This species prefers vegetation associated with aquatic habitat. Neither canal occurs in the Project Area and no basking sites are present, however both canals are near the site. The closest historic occurrence of western pond turtle is recorded approximately four miles east-northeast of the Project Area.

Special-Status Plant Species

California Jewelflower

This annual wildflower species is extremely rare and is both a State and federally listed member of the mustard family. It is found in grasslands, chenopod scrub and juniper woodland. The current survey occurred outside of it's known bloom period when it is identifiable. The species has low potential to occur in the Project Area given the disturbed and maintained nature of the Project Area.

Ewan's Larkspur

Limited oak woodland and uncultivated grassland potential habitat occur in the Project Area for this rare larkspur species. The current survey occurred outside of the bloom period for this species. The species has low potential to occur.

Heartscale

This small annual member of the goosefoot family (Chenopodiaceae) has limited and marginal potential grassland habitat in the Project Area. One previous historic occurrence of this species that was within five miles of the Project Area but has since been extirpated. Low potential for this species occurs in the Project Area.

Lesser Saltscale

This small annual member of the goosefoot family (Chenopodiaceae) has limited and marginal potential grassland habitat in the Project Area. One previous historic occurrence of this species was within five miles of the Project Area but has since been extirpated. Low potential for this species occurs in the Project Area.

Subtle Orache

This small annual member of the goosefoot family (Chenopodiaceae) has limited and marginal potential grassland habitat in the Project Area. One previous historic occurrence of this species from the CNDDB was within five miles of the Project Area but has since been extirpated. Low potential for this species occurs in the Project Area.

Recurved Larkspur

Limited oak woodland and uncultivated grassland potential habitat occur in the Project Area for this rare larkspur species. The current survey occurred outside of the bloom period for this species. The species has low potential to occur.

The Project Area is comprised from approximately 49 acres of active agricultural land, approximately 5.6 acres of valley oak woodland that has a disked and maintained understory and another 4.5 acres of regularly disked grassland. It is bounded by an open residential property with denser valley oak woodland on the northwestern boundary of the property.

There is a riverine, non-wetland canal just northwest of the northwest corner of the Project Area and a linear paved non-wetland water canal along one portion of the southeastern boundary which was inundated and without vegetation at the time of the Biological Assessment. The Saint Johns River is more than five miles north of the Project Area. There are no structures on the property, and a little more than twenty valley oak trees compose the woodland in the northwestern corner. Though the majority of the

property was used to grow corn this year, the property had been cleared, maintained and recently disked, likely for fire safety. No nests or roosting bats were observed in the oak tree grove in the northwest corner, nor were any ground nests observed. Powerline poles exist along Road 92, but not on the property itself, and did not appear to harbor any raptor nests. No wetlands, vernal pools or jurisdictional waters were located in the Project Area.

4. Findings

During the Biological Assessment, Soar Environmental did not observe any of the referenced special-status species within the Project Area or environmental footprint. However, grading of the Project Area will result in removing some grassland and oak woodland habitat. The findings for this report are summarized below.

Critical Habitats

No critical habitats occur within the vicinity of the Project's environmental affect area, Project Area or project footprint.

Project Impacts

The project will cause permanent impacts to predominantly active agricultural land and heavily maintained (e.g. regularly mowed and disked) annual grassland and valley oak woodland in the northern Project Area. No fish, or habitat that could support aquatic species occurs on the property. Potential wildlife resources the Project could impact would be tree-nesting bird species such as Swainson Hawk, due to required tree removals and loss of foraging habitat.

The Project Area contains a section of valley oak woodland in the northwest corner. The project will require the removal of approximately twenty-one valley oak trees.

Conclusion

From the information gathered in the data records search and analysis of the habitat on site during the survey there is limited potential native plant and wildlife habitat available in the Project Area given that the majority of the property is active agricultural land. However, of the regionally occurring species, Swainson hawk has the highest potential to occur or be impacted by development of the project.

5. Recommendations

The following mitigation measures are intended to reduce and minimize impacts under CEQA, the California Endangered Species Act, and the federal Endangered Species Act for effects on species and habitats. Implementation of the following mitigation measures would reduce project-related affects to covered species and other biological resources to less than significant.

6. Recommended Mitigation Measures

Mlitigation Measure 1: Swainson's Hawk Nesting Habitat

If construction, grading, or project-related improvements are to commence between March 1 and September 15, a focused survey for Swainson's hawk nests on the site and within ¼ mile of the site shall be conducted by a qualified biologist no later than 30 days prior to the start of construction work (including clearing and grubbing). If active nests are found, the California Fish and Wildlife shall be contacted to determine appropriate protective measures, and these measures shall be implemented prior to the start of any ground-disturbing activities. If no active nests are found during the focused survey, no further mitigation will be required.

Mlitigation Measure 1a: Nesting Bird Survey

If project-related activities are scheduled between February 1 to August 31 (the typical nesting season), a focused survey for nests shall be conducted by a Designated Biologist within three (3) calendar days prior to the beginning of Project-related activities. The Designated Biologist shall survey a minimum radius of 500-feet for migratory birds around the Project Area and for sign of roosting bats. If no active nests or roosts are found, project activities may proceed as scheduled.

Mlitigation Measure 1b: Active Nests or Roosts

If an active nest or roost is found, active nests should be avoided, and a no disturbance or destruction buffer shall be determined and established by a Designated Biologist. The buffer shall be kept in place until after the breeding nesting season or the Designated Biologist confirms the young have fledged, are foraging independently, and the nest is no longer active for the season. The extent of these buffers shall be determined by the Designated Biologist and will depend on the species present, the level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers.

Mlitigation Measure 1c: Project Delay

If a lapse in project-related work of fourteen (14) calendar days or longer occurs, the Designated Biologist shall complete another focused survey before Project work can be reinitiated.

7. Study Limitations

This Report has been prepared in accordance with generally accepted environmental methodologies and contains all the limitations inherent in these methodologies. The Report documents site conditions that were observed during field reconnaissance and do not apply to future conditions. No other warranties, expressed or implied, are made as to the professional services provided under the terms of our contract and included in this Report.

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APPENDIX A:
Project Area Photographs

Photo 1 – 5.6 acre valley oak woodland on northwest edge

Photo 2 – Overview of Main Active Agricultural Property Site (View East)

Photo 3 – Southeastern Edge with Canal

Photo 4 – West Side of Project Area (View North)

Photo 5 – Small mammal burrows (ground squirrel)

Photo 6 – Eastern edge of Project Area, Mexican sprangletop grass (*Leptochloa fusca* ssp. *uninervia*) along canal edge

Photo 7 – Valley Oak Woodland at northwestern corner

Photo 8 – Center of Project Area (View South)

Photo 9 – Center of property from Inner corner edge near (offsite) orchards (View North)

Photo 10 – Valley oak (Quercus lobata) leaf, northern property

Photo 11– Ornamental Fan palm in southern property

APPENDIX B:

U.S. Fish & Wildlife Service IPaC Resource List

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

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Location

Tulare County, California

Local office

Sacramento Fish And Wildlife Office

(916) 414-6600
(916) 414-6713

Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
San Joaquin Kit Fox Vulpes macrotis mutica Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/2873	Endangered
Tipton Kangaroo Rat Dipodomys nitratoides nitratoides Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/7247	Endangered

Reptiles

NAME	STATUS
Blunt-nosed Leopard Lizard Gambelia silus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/625	Endangered

Amphibians

NAME	STATUS
California Tiger Salamander Ambystoma californiense There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/2076	Threatened

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp Branchinecta lynchi Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/498	Threatened

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Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

There are no documented cases of eagles being present at this location. However, if you believe eagles may be using your site, please reach out to the local Fish and Wildlife Service office.

Additional information can be found using the following links:

- Eagle Managment https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/ documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

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NAME	BREEDING SEASON
Belding's Savannah Sparrow Passerculus sandwichensis beldingi This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8	Breeds Apr 1 to Aug 15
Bullock's Oriole Icterus bullockii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 21 to Jul 25
California Gull Larus californicus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31
Clark's Grebe Aechmophorus clarkii This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31
Nuttall's Woodpecker Picoides nuttallii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9410	Breeds Apr 1 to Jul 20
Oak Titmouse Baeolophus inornatus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9656	Breeds Mar 15 to Jul 15
Short-billed Dowitcher Limnodromus griseus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Tricolored Blackbird Agelaius tricolor This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3910	Breeds Mar 15 to Aug 10

Western Grebe aechmophorus occidentalis Breeds Jun 1 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/6743

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

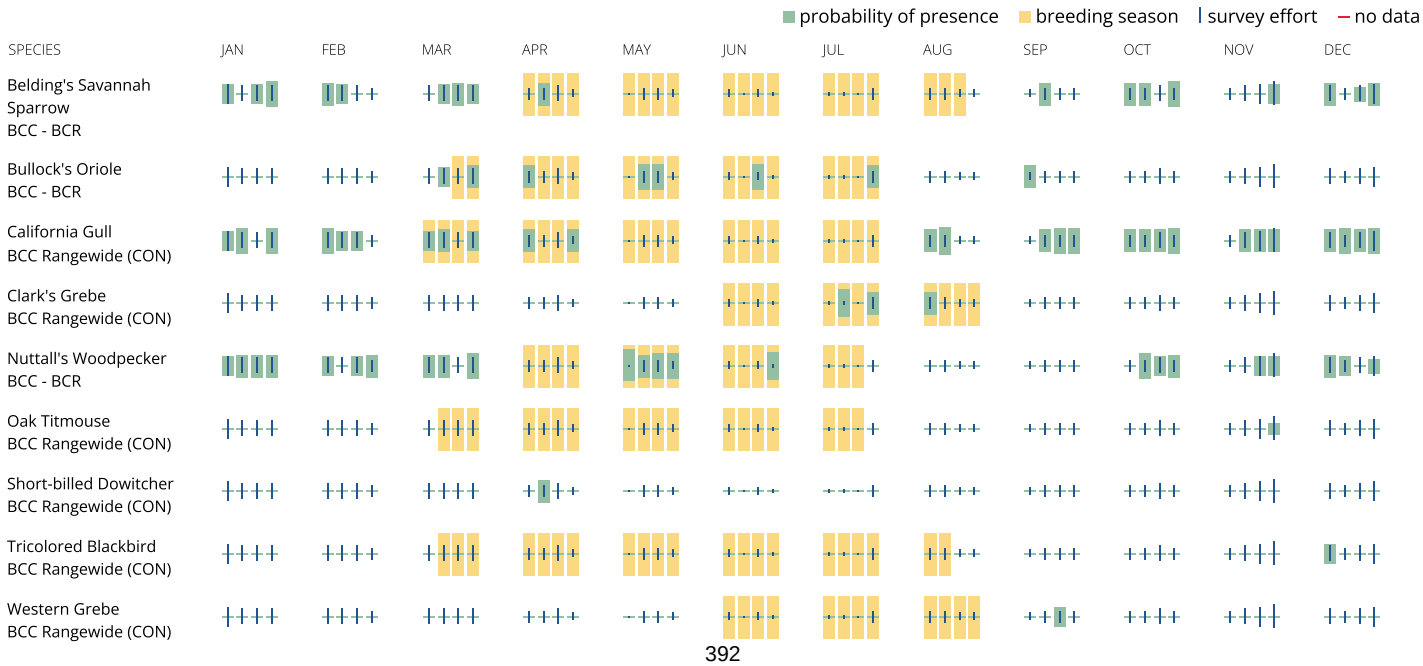
Breeding Season (■)
Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



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Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in

NOT FOR CONSULTATION

knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

NOT FOR CONSULTATION

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

RIVERINE

R4SBCx

A full description for each wetland code can be found at the National Wetlands Inventory website

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or

adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

APPENDIX C:

California Department of Fish and Wildlife RareFind

Selected Elements by Common Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Traver (3611944) OR Goshen (3611934) OR Tulare (3611923) OR Visalia (3611933) OR Cairns Corner (3611922) OR Monson (3611943) OR Paige (3611924) OR Exeter (3611932) OR Ivanhoe (3611942))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
alkali-sink goldfields *Lasthenia chrysantha*	PDAST5L030	None	None	G2	S2	1B.1
American badger *Taxidea taxus*	AMAJF04010	None	None	G5	S3	SSC
American bumble bee *Bombus pensylvanicus*	IIHYM24260	None	None	G3G4	S2	
An andrenid bee *Andrena macswaini*	IIHYM35130	None	None	G2	S2	
brittlescale *Atriplex depressa*	PDCHE042L0	None	None	G2	S2	1B.2
burrowing owl *Athene cunicularia*	ABNSB10010	None	None	G4	S2	SSC
California alkali grass *Puccinellia simplex*	PMPOA53110	None	None	G2	S2	1B.2
California jewelflower *Caulanthus californicus*	PDBRA31010	Endangered	Endangered	G1	S1	1B.1
California linderiella *Linderiella occidentalis*	ICBRA06010	None	None	G2G3	S2S3	
California satintail *Imperata brevifolia*	PMPOA3D020	None	None	G3	S3	2B.1
California tiger salamander - central California DPS *Ambystoma californiense pop. 1*	AAAAA01181	Threatened	Threatened	G2G3T3	S3	WL
Coulter's goldfields *Lasthenia glabrata ssp. coulteri*	PDAST5L0A1	None	None	G4T2	S2	1B.1
Crotch bumble bee *Bombus crotchii*	IIHYM24480	None	Candidate Endangered	G2	S2	
Earlimart orache *Atriplex cordulata var. erecticaulis*	PDCHE042V0	None	None	G3T1	S1	1B.2
Great Valley Valley Oak Riparian Forest *Great Valley Valley Oak Riparian Forest*	CTT61430CA	None	None	G1	S1.1	
heartscale *Atriplex cordulata var. cordulata*	PDCHE040B0	None	None	G3T2	S2	1B.2
Hoover's spurge *Euphorbia hooveri*	PDEUP0D150	Threatened	None	G1	S1	1B.2
Hopping's blister beetle *Lytta hoppingi*	IICOL4C010	None	None	G1G2	S2	
lesser saltscale *Atriplex minuscula*	PDCHE042M0	None	None	G2	S2	1B.1

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
loggerhead shrike *Lanius ludovicianus*	ABPBR01030	None	None	G4	S4	SSC
Moody's gnaphosid spider *Talanites moodyae*	ILARA98020	None	None	G2G3	S2S3	
Northern California legless lizard *Anniella pulchra*	ARACC01020	None	None	G3	S2S3	SSC
Northern Claypan Vernal Pool *Northern Claypan Vernal Pool*	CTT44120CA	None	None	G1	S1.1	
Northern Hardpan Vernal Pool *Northern Hardpan Vernal Pool*	CTT44110CA	None	None	G3	S3.1	
northern leopard frog *Lithobates pipiens*	AAABH01170	None	None	G5	S2	SSC
pallid bat *Antrozous pallidus*	AMACC10010	None	None	G4	S3	SSC
recurved larkspur *Delphinium recurvatum*	PDRAN0B1J0	None	None	G2?	S2?	1B.2
San Joaquin adobe sunburst *Pseudobahia peirsonii*	PDAST7P030	Threatened	Endangered	G1	S1	1B.1
San Joaquin kit fox *Vulpes macrotis mutica*	AMAJA03041	Endangered	Threatened	G4T2	S3	
San Joaquin Valley Orcutt grass *Orcuttia inaequalis*	PMPOA4G060	Threatened	Endangered	G1	S1	1B.1
Sanford's arrowhead *Sagittaria sanfordii*	PMALI040Q0	None	None	G3	S3	1B.2
spiny-sepaled button-celery *Eryngium spinosepalum*	PDAPI0Z0Y0	None	None	G2	S2	1B.2
subtle orache *Atriplex subtilis*	PDCHE042T0	None	None	G1	S1	1B.2
Swainson's hawk *Buteo swainsoni*	ABNKC19070	None	Threatened	G5	S4	
Tipton kangaroo rat *Dipodomys nitratoides nitratoides*	AMAFD03152	Endangered	Endangered	G3T1T2	S2	
tricolored blackbird *Agelaius tricolor*	ABPBXB0020	None	Threatened	G1G2	S2	SSC
valley elderberry longhorn beetle *Desmocerus californicus dimorphus*	IICOL48011	Threatened	None	G3T3	S3	
Valley Sacaton Grassland *Valley Sacaton Grassland*	CTT42120CA	None	None	G1	S1.1	
vernal pool fairy shrimp *Branchinecta lynchi*	ICBRA03030	Threatened	None	G3	S3	
vernal pool smallscale *Atriplex persistens*	PDCHE042P0	None	None	G2	S2	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
vernal pool tadpole shrimp *Lepidurus packardi*	ICBRA10010	Endangered	None	G3	S3	
western mastiff bat *Eumops perotis californicus*	AMACD02011	None	None	G4G5T4	S3S4	SSC
western pond turtle *Emys marmorata*	ARAAD02030	None	None	G3G4	S3	SSC
western spadefoot *Spea hammondii*	AAABF02020	None	None	G2G3	S3S4	SSC
western yellow-billed cuckoo *Coccyzus americanus occidentalis*	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Winter's sunflower *Helianthus winteri*	PDAST4N260	None	None	G2?	S2?	1B.2

Record Count: 46

APPENDIX D:

California Native Plant Society Rare Plant Inventory

CNPS Rare Plant Inventory

Search Results

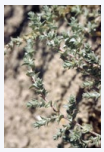
Back | Export Results | Copy Link

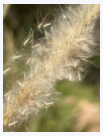
21 matches found. Click on scientific name for details

Search Criteria: CRPR is one of [1A:1B:2A:2B:3:4] , 9-Quad include [3611922:3611933:3611923:3611932:3611943:3611942:3611924:3611934:3611944]

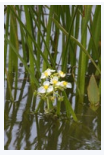
Filter Results:

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	GLOBAL RANK	STATE RANK	CA RARE PLANT RANK	CA ENDEMIC	DATE ADDED	PHOTO
Amaranthus watsonii	Watson's amaranth	Amaranthaceae	annual herb	Apr-Sep	None	None	G5?	S3	4.3		2001-01-01	© 2003 Debra Valov
Atriplex cordulata var. *cordulata*	heartscale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G3T2	S2	1B.2	Yes	1988-01-01	© 1994 Robert E. Preston, Ph.D.
Atriplex cordulata var. *erecticaulis*	Earlimart orache	Chenopodiaceae	annual herb	Aug-Sep(Nov)	None	None	G3T1	S1	1B.2	Yes	2001-01-01	© 2009 Robert E. Preston, Ph.D.

Atriplex depressa	brittlescale	Chenopodiaceae	annual herb	Apr-Oct	None	None	G2	S2	1B.2	Yes	1994-01-01	© 2009 Zoya Akulova
Atriplex minuscula	lesser saltscale	Chenopodiaceae	annual herb	May-Oct	None	None	G2	S2	1B.1	Yes	1994-01-01	 © 2000 Robert E. Preston, Ph.D.
Atriplex persistens	vernal pool smallscale	Chenopodiaceae	annual herb	Jun-Oct	None	None	G2	S2	1B.2	Yes	2001-01-01	No Photo Available
Atriplex subtilis	subtle orache	Chenopodiaceae	annual herb	(Apr)Jun-Sep(Oct)	None	None	G1	S1	1B.2	Yes	1994-01-01	© 2000 Robert E. Preston, Ph.D.
Caulanthus californicus	California jewelflower	Brassicaceae	annual herb	Feb-May	FE	CE	G1	S1	1B.1	Yes	1984-01-01	No Photo Available
Delphinium hansenii ssp. *ewanianum*	Ewan's larkspur	Ranunculaceae	perennial herb	Mar-May	None	None	G4T3	S3	4.2	Yes	1994-01-01	No Photo Available
Delphinium recurvatum	recurved larkspur	Ranunculaceae	perennial herb	Mar-Jun	None	None	G2?	S2?	1B.2	Yes	1988-01-01	No Photo Available
Eryngium spinosepalum	spiny-sepaled button-celery	Apiaceae	annual/perennial herb	Apr-Jun	None	None	G2	S2	1B.2	Yes	1980-01-01	No Photo Available
Euphorbia hooveri	Hoover's spurge	Euphorbiaceae	annual herb	Jul-Sep(Oct)	FT	None	G1	S1	1B.2	Yes	1974-01-01	No Photo Available

Helianthus winteri	Winter's sunflower	Asteraceae	perennial shrub	Jan-Dec	None	None	G2?	S2?	1B.2	Yes	2014-10-15	© 2014 Chris Winchell
Hordeum intercedens	vernal barley	Poaceae	annual herb	Mar-Jun	None	None	G3G4	S3S4	3.2		1994-01-01	No Photo Available
Imperata brevifolia	California satintail	Poaceae	perennial rhizomatous herb	Sep-May	None	None	G3	S3	2B.1		2006-12-26	 © 2020 Matt C. Berger
Lasthenia chrysantha	alkali-sink goldfields	Asteraceae	annual herb	Feb-Apr	None	None	G2	S2	1B.1	Yes	2019-09-30	© 2009 California State University, Stanislaus
Lasthenia glabrata ssp. *coulteri*	Coulter's goldfields	Asteraceae	annual herb	Feb-Jun	None	None	G4T2	S2	1B.1		1994-01-01	© 2013 Keir Morse
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	Poaceae	annual herb	Apr-Sep	FT	CE	G1	S1	1B.1	Yes	1974-01-01	No Photo Available
Pseudobahia peirsonii	San Joaquin adobe sunburst	Asteraceae	annual herb	Feb-Apr	FT	CE	G1	S1	1B.1	Yes	1974-01-01	No Photo Available
Puccinellia simplex	California alkali grass	Poaceae	annual herb	Mar-May	None	None	G2	S2	1B.2		2015-10-15	No Photo Available
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous	May-Oct(Nov)	None	None	G3	S3	1B.2	Yes	1984-01-01	

herb (emergent)



©2013 Debra L. Cook

Showing 1 to 21 of 21 entries

Suggested Citation:
California Native Plant Society, Rare Plant Program. 2023. Rare Plant Inventory (online edition, v9.5). Website https://www.rareplants.cnps.org [accessed 9 October 2023].

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APPENDIX E:

USDA-NRCS Soil Survey

Soil Map—Tulare County, Western Part, California

406

Map Scale: 1:4,340 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 50 100 200 300

Feet: 0 200 400 800 1200

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Tulare County, Western Part, California
Survey Area Data: Version 17, Aug 31, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 16, 2022—May 30, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
101	Akers-Akers, saline-Sodic, complex, 0 to 2 percent slopes	30.3	55.0%
130	Nord fine sandy loam, 0 to 2 percent slopes	24.8	45.0%
Totals for Area of Interest		**55.2**	**100.0%**

APPENDIX F:

Site Plan

September 6, 2023

ELLIOT PROPERTY

TENTATIVE SUBDIVISION MAP

PREPARED FOR: SAN JOAQUIN VALLEY HOMES
5607 AVENIDA DE LOS ROBLES
VISALIA, CA 93291

PREPARED BY: 4CREEKS, INC.
324 S. SANTA FE ST., STE. A
VISALIA ,CA 93292

ACREAGE

59.13 AC 224 UNITS

LEGEND

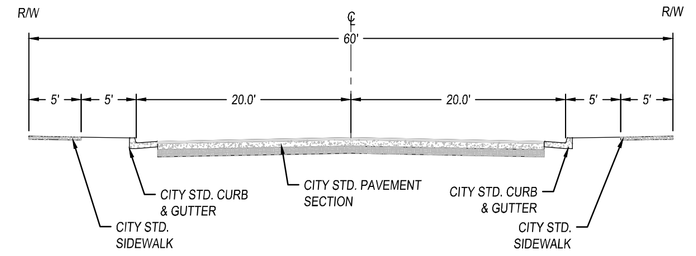
APN:	087-010-006, 087-010-008
ZONING:	AGRICULTURE
GENERAL PLAN:	LOW DENSITY RESIDENTIAL
FLOOD ZONE:	AE & X
ELECTRICITY:	SOUTHEN CALIFORNIA EDISON COMPANY
WATER:	CALWATER
TELEPHONE:	AT&T
NATURAL GAS:	SOUTHERN CALIFORNIA GAS COMPANY
EXISTING USE:	VACANT
PROP. USE:	LOW DENSITY RESIDENTIAL
PROP. MAINTENANCE:	CITY OF VISALIA
	LANDSCAPE SETBACK LOT
	BLOCK WALL

TYPICAL LOT SIZES:

6480 SF MIN. LOTS± (60' X 108' TYP.) (221 UNITS)
6000 SF MIN. LOTS± (60' X 100') (3 UNITS)
**OUTLOTS A-D AND PARKS (4.24 AC) TO BE DEDICATED TO THE CITY OF VISALIA*

UTILITIES:

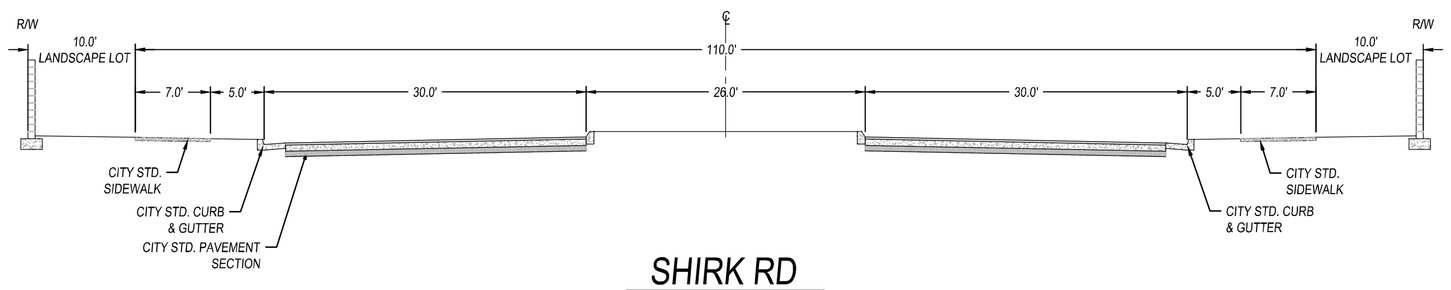
SEWER:	SHIRK RD - EXIST. 6"
	ROEBEN ST - EXIST. 8"
STORM DRAIN:	TEMP. RETENTION BASIN TO MAINTAIN ALL ON-SITE DRAINAGE
OVERHEAD POWER:	ROEBEN ST (3 DISTRIBUTION, TO BE UNDERGROUNDED)
	SHIRK (5 TRANSMISSION, TO BE RELOCATED)



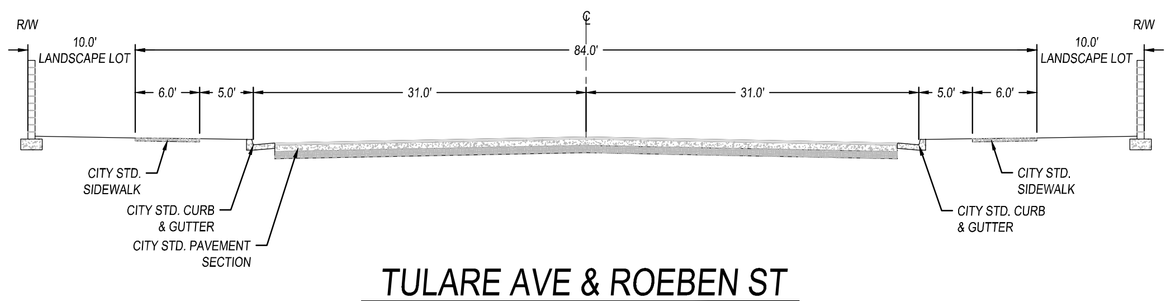
TYPICAL INTERNAL

VICINITY MAP

SCALE: 1"=½ MILE



SHIRK RD



TULARE AVE & ROEBEN ST

NORTH

100' 0' 100'

PREPARED BY:
4CREEKS
324 S. SANTA FE, STE. A
VISALIA, CA 93292
TEL: 559.802.3052
FAX: 559.802.3215
www.4-creeks.com

Appendix C

Cultural Records Search Results

Corporate Headquarters
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710
www.soarhere.com • 559.547.8884

Phase I Cultural Resources Assessment
Elliot Housing Subdivision Project, Visalia, CA 93277
Assessor Parcel Numbers
087-010-006, and 087-010-008
Tulare, County, California

Prepared for

4CREEKS
324 South Santa Fe Street, Suite A
Visalia, CA 93292

Prepared by

1322 E Shaw Ave.
Fresno, CA 93710

Heather Froshour, M.A., R.P.A., Senior Archaeologist

December 4, 2023

EXECUTIVE SUMMARY

Soar Environmental Consulting, Inc. (Soar Environmental) has been retained by 4Creeks, Inc. (4Creeks) to prepare a Phase 1 Cultural Resources Assessment (Phase 1 CRA) as part of an Initial Study, for a Housing Subdivision Development Project (Project) in the city of Visalia (City), in accordance with the California Environmental Quality Act (CEQA) prior to implementation of the proposed Project. The proposed project is to construct 224 housing units on 59.13-acres on Accessor Parcel Numbers (APNs) 087-010-006 and 087-010-008. The purpose of the CRA is to provide an inventory of the known and potentially significant cultural resources within the Project area through a California Historical Records Information search (CHRIS) using the Southern San Joaquin Valley Information Center (SSJVIC), as well as a Sacred Lands File & Native American Contacts List Request through the Native American Heritage Commission (NAHC).

The results of the records search indicate two (2) cultural resource(s) recorded within 0.50-mile of the Project area. The records searches indicate one (1) recorded resource within the Project area. The pedestrian survey identified one (1) existing resource within the Project area. No site testing or mitigation measures are required, unless previously undiscovered cultural resources are detected during construction.

Corporate Headquarters
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710
www.soarhere.com • 559.547.8884

Contents

EXECUTIVE SUMMARY…… ii
1.0 INTRODUCTION……... 3
1.1 Project Description……... 4
1.2 Existing Conditions…….. 4
2.0 REGULATORY SETTING……. 4
2.1 Federal…….. 5
2.2 State of California…… 5
2.3 Local……. 8
3.0 SETTING……. 10
3.1 Environmental Setting…….. 10
3.2 Cultural Setting…… 11
3.2.1 Prehistoric Setting……. 11
3.2.2 Ethnographic Setting……. 12
3.2.3 Historic Setting……. 14
4.0 ARCHIVAL RECORDS SEARCH……. 15
4.1 Southern San Joaquin Valley Information Center Records Search……. 15
4.2 Sacred Lands File & Native American Contacts List Request…… 17
4.3 National Register of Historic Places (NRHP) Eligibility Evaluation ……. 17
5.0 PREVIOUS DISTURBANCES IN THE PROJECT AREA……... 19
6.0 FIELD SURVEY METHODS AND RESULTS……. 19
7.0 RECOMMENDED ACTIONS AND MITIGATION MEASSURES……. 21
8.0 REFERENCES CITED…… 24

FIGURES

Figure 1— Project Location, adapted from USGA 7.5’ series Visalia, California, 1949……..... 30
Figure 2— Project Boundary Map…… 31
Figure 3— Soil Types Occurring in the Project area…….. 32
Figure 4— Elliot Property Tentative Subdivision Map…… 33
Figure 5— Overview from north edge of Project area, facing south…… 34
Figure 6— Overview from northeast corner of Project area, facing southwest…… 35
Figure 7— Overview from center of Project area, facing north……..…… 36
Figure 8— Overview from center of Project area, facing east……..…… 37
Figure 9— Overview from center of Project area, facing south……..…..…… 38
Figure 10— Overview from center of Project area, facing west…….. 39
Figure 11— Overview from southeast corner of Project area, facing northwest…….. 40
Figure 12— Overview from south edge of Project area, facing north……..…..…..…..... 41
Figure 13— Overview from southwest corner of Project area, facing northeast…….. 42
Figure 14— Overview from west edge of Project area, facing east……..... 43
Figure 15— Overview from northwest corner of Project area, facing southeast…….. 44

TABLES

Table 1: Survey Reports within the Project area……..…….... 15
Table 2: Resources within the Project area……..……... 15
Table 3: Survey Reports within 0.5 Mile of the Project area…….. 16
Table 4: Resources within 0.5 Mile of Project area…… 16
Table 5: Isolates Recorded within the Project area……. 21

APENDICIES

Appendix A: Records Search from Southern San Joaquin Valley Information Center…….... 45
Appendix B: Sacred Lands File & Native American Contacts List Request……... 55
Appendix C: Feature and Isolate Forms…….…..…… 72
Appendix D: Staff Resumes……. 87

1.0 Introduction

This report details the results of a Phase 1 Cultural Resources Assessment in support of the proposed housing development on 59.13-acres in Visalia, California, on Accessor Parcel Numbers (APNs) 087-010-006 and 087-010-008 (Figures 1-3). This Phase 1 report is prepared pursuant to the California Environmental Quality Act (CEQA), PRC Sections 21082, 21083.2, and 21084.1, and California Code of Regulations 15064.5.

Heather Froshour completed the archival review, the Native American consultation, field survey, and prepared this Phase 1 report. Ms. Froshour is Soar Environmental's Senior Archaeologist who meets the professional standards of the U.S. Secretary of the Interior for archaeology (36 CFR 61) and is certified by the Register of Professional Archaeologists.

Soar Environmental requested a records search from the Southern San Joaquin Valley Information Center (SSJVIC) for the Project area as well as a 0.50-mile buffer. The archival research for this Phase 1 report was positive for archaeological sites or historical resources within the Project area. The archival record search reported two (2) recorded resources within 0.5-mile radius of the Project area. The records search revealed two (2) previous cultural resources surveys had been conducted in the Project area. A total of seven (7) additional cultural resource survey reports have been completed within a 0.50-mile radius of the Project area.

As part of the background research, Soar Environmental also requested a search of the Sacred Lands File (SLF) from the Native American Heritage Commission (NAHC). The results of the records review and SLF search were negative. The NAHC suggested contacting five (5) individuals representing three (3) Native American tribal groups to find out if they have additional information about the Project area. Soar Environmental sent outreach letters to all five (5) recommended tribal individuals. No response was received.

Soar Environmental conducted an intensive pedestrian survey of the project on November 18, 2023. No prehistoric resources of any kind were identified within the Project area. The current study however resulted in the documentation of one historical-period resource within the Project footprint: a segment of the nineteenth century South Fork Persian Ditch. The ditch was created by the Persian Ditch Company between 1854 and 1856 to transport water from Mill Creek for irrigation purposes. The ditch serves as a short distributary for the Persian Ditch to the north and the Watson Ditch to the south. The course of the South Fork Persian Ditch has changed subsequently and no longer maintain integrity from its original location. The ditch also now lacks integrity of setting, design, materials, feeling and association. As common property types lacking integrity, it is recommended as not eligible for listing in the California Register of Historical Resources (CRHR). Based on these findings, the development of the 4Creeks Elliot (San Joaquin Valley Housing) SJVH Project will not result in adverse impacts to know significant or unique resources as defined by CEQA. It is recommended, however, in the event that cultural resources are encountered during construction activities associated with the Project, a qualified archaeologist shall be obtained to assess the significance of the find in accordance with the criteria set forth in CEQA Guidelines 15064.5(f). In addition, Health and Safety Code 7050.5, CEQA 15064.5(e), and Public Resources Code 5097.98 mandate the process to be

followed in the unlikely event of an accidental discovery of any human remains in a location other than a dedicated cemetery.

1.1 Project Description

The Project proposes the construction of a 224-unit housing subdivision at the southeast corner of Tulare Avenue and Shirk Road, in the city of Visalia (Figures 1-4). The proposed construction lies within the combined 59.13-acre parcels, APNs 087-010-006 and 087-010-008. The Project Site also has 4.24-acres allocated to the development of a park dedicated to the city (Figure 4). Grading of the area will be accomplished using a backhoe and grader.

The project will require the development of roads and sidewalks around and throughout the property. A stormwater retention basin will be maintained in the southwest corner of the Project Site for all on site drainage. On the east side of the property bounded by Roeben Street, 3 existing overhead powerlines will be undergrounded, and 5 powerline poles on the Shirk Road boundary will be relocated. Since the entire property will be graded for the housing project during construction activities, the trees in the northwest section of the property would be removed. Much of the property has been used for agricultural production and the entire lot has been cleared and maintained aside from the scattered trees (Figures 5-15).

1.2 Existing Condition

The Project area is located on two parcels of 59.13-acres combined located approximately 0.77-kilometers south from Highway 198, Visalia, California, at Accessor Parcel Numbers (APNs) 087-010-006 and 087-010-008 (Figure 1-4). The Project area is approximately 1.40-kilometers south from Mill Creek. The Project area is located in Tulare County within Section 34, Township 18S, Range 24E, Mount Diablo Base Meridian, as depicted on the Visalia, CA 7.5' U. S Geological Survey (USGS) topographical quadrangle (Figures 1). Surface soils consist primarily of the Akers soil series within the east and the Nord soil series within the west half of the Project area (Figure 3). The Akers soil series is typically very deep, well-drained, and formed in alluvium derived from granite rock. This soil is made up of light brownish gray sandy loam at surface with pale brown fine sandy loam below. The Nord soil series is typically very deep, well-drained, and formed in mixed alluvium dominantly from granite and sedimentary rocks. This soil is made up of grayish brown fine sandy loam at surface with brown fine sandy loam below. The elevation of the Project area ranges from 301-304 feet (ft) above mean sea level.

2.0 REGULATORY SETTING

Federal, State and local governments have developed laws and regulations designed to protect significant cultural resources that may be affected by actions that they undertake or regulate. The National Environmental Policy Act (NEPA), National Historic Preservation Act (NHPA) and the California Environmental Quality Act (CEQA) are the basic federal and state laws governing preservation of historic and archaeological resources of national, regional, State and local significance.

2.1 Federal

Federal regulations for cultural resources are governed primarily by Section 106 of the National Historic Preservation Act (NHPA) of 1966. Section 106 of NHPA requires Federal agencies to take into account the effects of their undertakings on historic properties and affords the Advisory Council on Historic Preservation a reasonable opportunity to comment on such undertakings. The Council's implementing regulations, "Protection of Historic Properties" are found in 36 Code of Federal Regulations (CFR) Part 800. The goal of the Section 106 review process is to offer a measure of protection to sites which are determined eligible for listing on the National Register of Historic Places. The criteria for determining National Register eligibility are found in 36 CFR Part 60. Amendments to the NHPA (1986 and 1992) and subsequent revisions to the implementing regulations have, among other things, strengthened the provisions for Native American consultation and participation in the Section 106 review process. While federal agencies must follow federal regulations, most projects by private developers and landowners do not require this level of compliance. Federal regulations only come into play in the private sector if a project requires a federal permit or if it uses federal money.

2.2 State

California Register of Historical Resources

In California, the term “historical resource” includes “any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California” (California PRC § 5020.1[j])(State of California 2021). In 1992, the California legislature established the California Register of Historical Resources (CRHR) “to be used by state and local agencies, private groups, and citizens to identify the state’s historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change” (California PRC § 5024.1(a)). The criteria for listing resources on the CRHR, enumerated in the following text, were developed to be in accordance with previously established criteria developed for listing in the NRHP. According to California PRC § 5024.1(c) (1– 4), a resource is considered historically significant if it (i) retains “substantial integrity,” and (ii) meets at least one of the following criteria:

1) Is associated with events that have made a significant contribution to the broad patterns of California’s history and cultural heritage.

2) Is associated with the lives of persons important in our past.

3) Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.

4) Has yielded, or may be likely to yield, information important in prehistory or history

To understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (14 CCR 4852[d][2]).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the National Register of Historic Places (NRHP), and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

California Health and Safety Code, §7050.5

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code, §7050.5, requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains can occur until the County Coroner has examined the remains (California Health and Safety Code, §7050.5b). California PRC §5097.98, also outlines the process to be followed in the event that remains are discovered. If the County Coroner determines or has reason to believe the remains are those of a Native American, the County Coroner must contact the California NAHC within 24 hours (California Health and Safety Code, §7050.5c)(State of California 2021). The NAHC will notify the most likely descendant. With the permission of the landowner, the most likely descendant may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the most likely descendant by the NAHC. The most likely descendant may recommend means of treating or disposing of, with appropriate dignity, the human remains, and items associated with Native Americans.

California State Assembly Bill 52

Assembly Bill (AB) 52 of 2014 amended California PRC § 5097.94, and added California PRC §21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 established that tribal cultural resources must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. California PRC §21074, defines tribal cultural resources as follows:

(a) Section 21074 of the Public Resources Code states that "tribal cultural resources" are either of the following:

> (1) Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either of the following:
>
> (A) Included or determined to be eligible for inclusion in the California Register

of Historical Resources.

(B) Included in a local register of historical resources as defined in subdivision (k) of §5020.1.

(2) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of §5024.1. In applying the criteria set forth in subdivision (c) of §5024.1 for the purposes of this paragraph, the lead agency shall consider the significance of the resource to a California Native American tribe. A cultural landscape that meets the criteria of subdivision:

(a) is a tribal cultural resource to the extent that the landscape is geographically defined in terms of the size and scope of the landscape.

(b) A historical resource described in §21084.1, a unique archaeological resource as defined in subdivision (g) of §21083.2, or a "nonunique archaeological resource" as defined in subdivision (h) of §21083.2 may also be a tribal cultural resource if it conforms with the criteria of subdivision (a).

AB 52 formalizes the lead agency–tribal consultation process, requiring the lead agency to initiate consultation with California Native American tribes located on the contact list maintained by the Native American Heritage Commission (NAHC). This includes California Native American groups that are traditionally and culturally affiliated with the project, including tribes that may not be federally recognized. Lead agencies are required to begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report (EIR).

Section 9 of AB 52 establishes that "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment." Section 6 of AB 52 added §21080.3.2 to the California PRC, which states that parties may propose mitigation measures "capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, if a California Native American tribe requests consultation regarding Project alternatives, mitigation measures, or significant effects to tribal cultural resources, the consultation shall include those topics (California PRC §21080.3.2[a]). The environmental document and the mitigation monitoring and reporting program (where applicable) shall include any mitigation measures that are adopted (California PRC §21082.3[a]).

Native American Human Remains

State law (California PRC §5097 et seq.) addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are

discovered during construction of a project; and established the NAHC.

In the event that Native American human remains, or related cultural material are encountered, §15064.5(e) of the CEQA Guidelines (as incorporated from PRC §5097.98) and California Health and Safety Code, §7050.5, defines the subsequent protocol. In the event of the accidental discovery or recognition of any human remains, excavation or other disturbances shall be suspended on the site, or any nearby area reasonably suspected to overlie adjacent human remains or related material. Protocol requires that the County Coroner or County-approved Coroner represented be contacted in order to determine if the remains are of Native American origin. Should the coroner determine the remains to be Native American, the coroner must contact the NAHC within 24 hours. The most likely descendant may make recommendations to the landowner or the person responsible for the excavation work for means of treating, with appropriate dignity, the human remains, and any associated grave goods as provided in California PRC §5097.98 (14 CCR 15064.5(e))(State of California 2021).

2.3 Local

Tulare County

Chapter 8.6 of the Tulare County General Plan of 2012 promotes the preservation of cultural and historic resources through managing and protecting sites of cultural and archeological importance for the benefit of present and future generations (County of Tulare 2012). Some of the measures implemented by the County are:

> **ERM-6.1 Evaluation of Cultural and Archaeological Resources**
> The County shall participate in and support efforts to identify its significant cultural and archaeological resources using appropriate State and Federal standards.
>
> **ERM-6.2 Protection of Resources with Potential State or Federal Designations**
> The County shall protect cultural and archaeological sites with demonstrated potential for placement on the National Register of Historic Places and/or inclusion in the California State Office of Historic Preservation's California Points of Interest and California Inventory of Historic Resources. Such sites may be of Statewide or local significance and have anthropological, cultural, military, political, architectural, economic, scientific, religious, or other values as determined by a qualified archaeological professional.
>
> **ERM-6.3 Alteration of Sites with Identified Cultural Resources**
> When planning any development or alteration of a site with identified cultural or archaeological resources, consideration should be given to ways of protecting the resources. Development can be permitted in these areas only after a site specific investigation has been conducted pursuant to CEQA to define the extent and value of resource, and mitigation measures proposed for any impacts the development may have on the resource.

ERM-6.4 Mitigation
If preservation of cultural resources is not feasible, every effort shall be made to mitigate impacts, including relocation of structures, adaptive reuse, preservation of facades, and thorough documentation and archival of records.

ERM-6.5 Cultural Resources Education Programs
The County should support local, State, and national education programs on cultural and archaeological resources.

ERM-6.6 Historic Structures and Sites
The County shall support public and private efforts to preserve, rehabilitate, and continue the use of historic structures, sites, and parks. Where applicable, preservation efforts shall conform to the current Secretary of the Interior's Standards for the Treatment of Historic Properties and Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings.

ERM-6.7 Cooperation of Property Owners
The County should encourage the cooperation of property owners to treat cultural resources as assets rather than liabilities, and encourage public support for the preservation of these resources.

ERM-6.8 Solicit Input from Local Native Americans
The County shall continue to solicit input from the local Native American communities in cases where development may result in disturbance to sites containing evidence of Native American activity and/or to sites of cultural importance.

ERM-6.9 Confidentiality of Archaeological Sites
The County shall, within its power, maintain confidentiality regarding the locations of archaeological sites in order to preserve and protect these resources from vandalism and the unauthorized removal of artifacts.

ERM-6.10 Grading Cultural Resources Sites
The County shall ensure all grading activities conform to the County's Grading Ordinance and California Code of Regulations, Title 20, § 2501 et. seq..

City of Visalia

Under Chapter 3, the City's Role and Tools for Preservation, in the General Plan of the City of Visalia defines a "cultural resources" as:

Chapter 3.3: Sites, structures, or any other physical evidence associated with human activity considered important to be culturally important. This includes archaeological resources and contemporary Native American resources in addition to the historic resources that are the subject of this chapter. Impacts of development on cultural resources of all kinds must be avoided to the

greatest extent possible, as described by policies in Chapter 6: Open Space and Conservation.

Under Chapter 6, Open Space and Conservation, within the General Plan of the City of Visalia the following policies are outlined for the preservation of cultural resources:

Chapter 6.5: OSC-P-39 Establish requirements to avoid potential impacts to sites suspected of being archeologically, paleontologically, or historically significant or of concern, by:

- Requiring a records review for development proposed in areas that are considered archaeologically or paleontologically sensitive.

- Determining the potential effects of development and construction on archaeological or paleontological resources (as required by CEQA).

- Requiring pre-construction surveys and monitoring during any ground disturbance for all development in areas of historical and archaeological sensitivity.

- Implementing appropriate measures to avoid the identified impacts, as conditions of project approval.

In the event that previously unidentified historical, archaeological, or paleontological resources are discovered during construction, grading activity in the immediate area shall cease and materials and their surroundings shall not be altered or collected. A qualified archaeologist or paleontologist must make an immediate evaluation and avoidance measures, or appropriate mitigation should be completed, according to CEQA Guidelines. The State Office of Historic Preservation has issued recommendations for the preparation of Archaeological Resource Management Reports that will be used as guidelines. (City of Visalia 2014).

3.0 SETTING

This section of the report summarizes information regarding the physical and cultural setting of the Project area, including prehistoric, ethnographic, and historic contents of the general area. Several factors; including topography, biological resources, and available water sources; affect the nature and distribution of the cultural periods of activity of an area. This background provides a context for understanding the nature of the cultural resources that may be identified within the region of the project.

3.1 Environmental Setting

The Project area is located in west Tulare County, approximately 5.3 miles north-northwest of Tulare, California within the San Joaquin Valley. The San Joaquin Valley is a long, narrow, northwest-trending, alluvial valley that lies between the Sierra Nevada Range to the east, and the Coast Ranges to the west (Wagner, 2002). The region was historically covered with native annual and perennial grasses including San Joaquin saltbush, valley oak savanna, riparian forest, and tule marsh (McNab and Avers, 1996; Munz and Keck, 1973). The climate consists of hot,

dry summers with cool, moist winters that provide the best climate for the neighboring pomegranate and citrus orchards and vineyards.

The Project area is best characterized historically as a rural ranching and agricultural region with large populations of both large and small mammals. Prehistorically, the larger mammals inhabiting the Project area would have included mule deer (*Odocoileus hemionus californicus*), black-tailed deer (*O. hemionus columbianus*), tule elk (*Cervus elaphus nannoides*), pronghorn antelope (*Antilocarpa Americana*), mountain lion (*Felis concolor*), and black bear (*Ursus americanus*) (Jameson and Peeters 1988). The small mammals that historically inhabited the Project area included rabbit (*Sylvilagus sp*.), black-tailed jackrabbit (*Lepus californicus*), western gray squirrel (*Sciurus griseus*), coyote (*Canis latrans*), and gray fox (*Urocyon cinereoargenteus*).

The Project site is currently being used for agricultural production and the entire lot has been cleared and maintained aside from several scattered trees.

3.2 Cultural Setting

Cultural resources include prehistoric-era archaeological sites, historic-era archaeological sites, Native American traditional cultural properties, sites of religious and cultural significance, and historical buildings, structures, objects, and sites. The importance of any single cultural resource is defined by the context in which it was first created, current public opinion and modern yet evolving analysis. From the analytical perspective, temporal and geographic considerations help to define the historical context of the Project area. The importance or significance of a cultural resource is in part described by the context in which it originated or developed. National Park Service Bulletin 16a (1997) describes a historic context as "information about historic trends and properties grouped by an important theme in prehistory or history of a community, state, or the nation during a particular period of time." A context links an existing property to important historic trends, and this allows a framework for determining the significance of a property. Given this, a major goal of the historian is to determine accurate themes of analysis, a task that can only be undertaken by a thorough review of previous researchers' thoughts and ideas, as well as reviewing the literature of the resources.

In California, historians have divided the past into broad categories based on climate models, archaeological dating and written histories. Paleontologists divide time into much larger segments, with defined and named periods of time shortening in timespan as the modern era is reached. For the purposes of this analysis, these periods in history have been summarized below.

3.2.1 Prehistoric Setting

During the Early Holocene epoch (9700 to 4000 B.C.), large game hunting societies populated the area. Culturally significant surface finds in the Tulare Basin have yielded some projectile points similar to particular Paleoindian varieties (i.e., Western Clovis), suggesting an initial occupation pre-dating approximately 11,300 years before present (B.P.). The Middle Holocene epoch (4000 to 1000 B.C.) is characterized by Pinto-like points and groundstone tools, although

the association between the epoch and specific societies is not certain.

Olsen and Payen (1968) developed a chronology of four temporally distinct complexes for sites found within the southern San Joaquin Valley. The first complex, the Positas Complex, ranges from 3300 to 2600 B.C. and is characterized by small, shaped mortars, short cylindrical pestles, milling stones, perforated flat cobbles, and sea snail shell beads. The second complex is the Pacheco Complex which ranges from approximately 2600 B.C. to 300 A.D. This complex is divided into Phase B and Phase A. Phase B ranges from 2600 B.C. to 1600 B.C. and is characterized by biface arrow points, abalone shell ornaments, and sea snail shell beads. Phase A ranges from 1600 B.C. to 300 A.D. and is represented by more variation in shell bead types, perforated canine teeth, bone awl, whistles, grass saws, large stemmed and side-notched points, and an abundance of milling stones, mortars, and pestles. The third complex, the Gonzaga Complex, ranges from 300 to 1000 A.D. and is characterized by extended burials, bowl mortars, shaped pestles, squared and tapered stem projectile points, bone awls, grass saws, and a shell industry composed of distinctive shell ornaments and beads. Lastly, the Panoche Complex ranges from 1500 A.D. to European contact (mid to late 1700 A.D.) and is characterized by the presence of fewer milling stones, varied mortars and pestles, small side-notched arrow points, clamshell disc beads, bone awls, whistles, saws, and tubes.

3.2.2 Ethnographic Setting

Penutian-speaking Yokuts tribal groups occupied the southern San Joaquin Valley region and much of the nearby Sierra Nevada. Ethnographic information about the Yokuts was collected primarily by Powers (1971, 1976 [originally 1877]), Kroeber (1925), Gayton (1930, 1948), Driver (1937), Latta (1977) and Harrington (n.d.). For a variety of historical reasons, existing research information emphasizes the central Yokuts tribes who occupied both the valley and particularly the foothills of the Sierra. The northernmost tribes suffered from the influx of Euro-Americans during the Gold Rush and their populations were in substantial decline by the time ethnographic studies began in the early twentieth century. In contrast, the southernmost tribes were partially removed by the Spanish to missions and eventually absorbed into multi-tribal communities on the Sebastian Indian Reservation (on Tejon Ranch), and later the Tule River Reservation and Santa Rosa Rancheria to the north. The result is an unfortunate scarcity of ethnographic detail on southern Valley tribes, especially in relation to the rich information collected from the central foothills tribes where native speakers of the Yokuts dialects are still found. Regardless, the general details of indigenous lifeways were similar across the broad expanse of Yokuts territory, particularly in terms of environmentally influenced subsistence and adaptation and with regard to religion and belief, which were similar everywhere.

This scarcity of specific detail is particularly apparent in terms of southern valley tribal group distribution. The San Joaquin Valley floor, and thus the study area, was occupied by these southern Valley Yokuts speakers, themselves divided into a series of autonomous “tribelets,” the boundaries of which are not well defined. The Yauelmani Yokuts lived from the Kern River area, in modern Bakersfield, to the southeast corner of the valley, on the Tejon Ranch, thus likely including the study area. The Hometwali were centered around Kern Lake, while the Tulamni occupied the west side of Buena Vista Lake and the foothills of the Temblors, at least to

McKittrick. The Tuhohi resided from the Kern River delta north to the Goose Lake area and west to the sloughs near Buttonwillow. Yokuts villages apparently extended up to, but not into, the mouths of the canyons on the northern and western fronts of the Tehachapi Mountains, well into the foothills and lower elevations of the Sierra Nevada on the east, and to the crest of the Temblor Range on the west. The Yokuts are Penutian speakers and are linguistically related to northern occupants of the San Joaquin Valley.
The Yokuts settlement pattern was largely consistent, regardless of specific tribe involved. Winter villages were typically located along lakeshores and major stream courses (as these existed circa AD 1800), with dispersal phase family camps located at elevated spots on the valley floor and near gathering areas in the foothills.

Most Yokuts groups, again regardless of specific tribal affiliation, were organized as a recognized and distinct tribelet; a circumstance that almost certainly pertained to the tribal groups noted above. Tribelets were land-owning groups organized around a central village and linked by shared territory and descent from a common ancestor. The population of most tribelets ranged from about 150 to 500 peoples (Kroeber 1925).

Each tribelet was headed by a chief who was assisted by a variety of assistants, the most important of whom was the winatum, a herald or messenger and assistant chief. A shaman also served as religious officer. While shamans did not have any direct political authority, as Gayton (1930) has illustrated, they maintained substantial influence within their tribelet.

Shamanism is a religious system common to most Native American tribes. It involves a direct and personal relationship between the individual and the supernatural world enacted by entering a trance or hallucinatory state (usually based on the ingestion of psychotropic plants, such as jimsonweed or more typically native tobacco). Shamans were considered individuals with an unusual degree of supernatural power, serving as healers or curers, diviners, and controllers of natural phenomena (such as rain or thunder). Shamans also produced the rock art of this region, depicting the visions they experienced in vision quests believed to represent their spirit helpers and events in the supernatural realm (Whitley 1992, 2000).

The centrality of shamanism to the religious and spiritual life of the Yokuts was demonstrated by the role of shamans in the yearly ceremonial round. The ritual round performed the same each year, started in the spring with the jimsonweed ceremony, followed by rattlesnake dance and (where appropriate) first salmon ceremony. After returning from seed camps, fall rituals began in the late summer with the mourning ceremony, followed by first seed and acorn rites and then bear dance (Gayton 1930:379). In each case, shamans served as ceremonial officials responsible for specific dances involving a display of their supernatural powers (Kroeber 1925).

Subsistence practices varied from tribelet to tribelet based on the environment of residence. Throughout Native California, and Yokuts territory in general, the acorn was a primary dietary component, along with a variety of gathered seeds. Valley tribes augmented this resource with lacustrine and riverine foods, especially fish and wildfowl. As with many Native California tribes, the settlement and subsistence rounds included the winter aggregation into a few large villages, where stored resources (like acorns) served as staples, followed by dispersal into

smaller camps, often occupied by extended families, where seasonally available resources would be gathered and consumed.

Although population estimates vary and population size was greatly affected by the introduction of Euro-American diseases and social disruption, the Yokuts were one of the largest, most successful groups in Native California. Cook (1978) estimates that the Yokuts region contained 27 percent of the aboriginal population in the state at the time of contact; other estimates are even higher. Many Yokuts people continue to reside in the southern San Joaquin Valley today.

3.2.3 Historic Setting

In California, the historic era is divided into three general periods: the Spanish or Mission Period (1769 to 1821), the Mexican or Rancho Period (1821 to 1848), and the American Period (1848 to present). The mission system, which ultimately established 21 missions between 1796 and 1822, consisted of missions, presidios, and pueblos, and was designed to convert the indigenous peoples of California to Christianity and assimilate them under Spanish rule (Gudde 1998).

The Spaniards were the first non-Indians to enter the San Joaquin Valley. Pedro Fages led a group of soldiers through Tejon Pass into the San Joaquin Valley in 1772 (Wallace 1978:459). In 1776, Spanish missionaries visited the area now known as Bakersfield; the event was documented by Franciscan friar Francisco Garcés. Father Garcés described the Kern River, which he named Rio de San Felipe, and visited the Yokuts community of Woilu, a village situated on the land modern Bakersfield would later occupy. While visiting Woilu, Father Garcés performed the first European baptism in the San Joaquin Valley. The Franciscans returned to their base at Mission San Gabriel following a route through the Tehachapi Mountains that functioned as the primary road until 1876, when the Southern Pacific Railroad created an alternate route.

Lieutenant Gabriel Moraga led a group of Spanish explorers into the San Joaquin Valley in 1806 (Clough and Secrest 1984:25–27). Moraga's party intended to locate new lands for missions, find and return runaway Indians, and relocate stolen livestock. Moraga is credited with naming both the Kings and San Joaquin rivers. By the early 1820s, the expansion of missions in California ceased as a result of Mexico's independence from Spain (Clough and Secrest 1984:26). In 1827, the 17-man expedition led by Jedediah Smith entered the region and signaled the earliest American presence in the Kern County area (Clark 1998). Smith's adventures included friendly encounters with the Southern Yokuts near the Kings River and trapping and camping along the San Joaquin River (Clough and Secrest 1984:27). After Smith's visit, other trappers followed until about 1837, by which time fur-bearing animals had been nearly exterminated from the valley.

Visalia, then called Four Creeks, was settled in 1852. In this same year Tulare County was officially formed from parts of Mariposa County. By 1858 Visalia was added to John Butterfield's Overland Stage route from St. Louis to San Francisco. In these early years Visalia was a used as a supply center for the nearby gold mining operations along the Kern River. During this time Visalia's agricultural economy was based predominantly around livestock. In

1872 the Southern Pacific Railroad constructed train tracks throughout the San Joaquin Valley, and with this a shift was triggered in Visalia's agricultural economy to one revolving around field crops. By 1874 Visalia was incorporated as a city in Tulare County. The next major economic change was brought about by the increased availability of irrigation water, resulting in the conversion of large grain fields to small farms, where citrus, grapes, olives, and deciduous fruits were raised. These crops are a mainstay of the region's economy today (City of Visalia 2023).

4.0 ARCHIVAL RECORDS SEARCH

4.1 South Central Coastal Information Center

The Project area is located in the USGS Visalia 7.5' Series Quadrangle (USGS 2021). On October 13, 2023, Soar submitted a records search request to the Southern San Joaquin Valley Information Center (SSJVIC) located at the California State University, Bakersfield (Appendix A). The records search included a 0.5-mile buffer around the Project area. The results from the records search indicate two (2) cultural resource studies have been conducted within the Project area (Table 1). According to the information on file, there is one (1) resource within the Project area (Table 2).

Table 1. Survey Reports within the Project area

Report No.	Year	Author(s)/ Affiliation	Title
TU-00041	1995	Self, William/ William Self Associated	Class I Overview, Santa Fe Pacific Pipeline Partners, L.P., Proposed Concord to Colton Pipeline Project
TU-01190	1957	Mitchell, Annie R./ Westernlore Press	Jim Savage and the Tulareño Indians

Table 2. Resources within the Project area

Primary #	Type	Description
P-54-002177	Structure	Nineteenth-century earthenware irrigation ditch, HP20

There are two (2) recorded resources within the 0.5-mile record search radius (Table 3). There were seven (7) reports identified within a 0.5-mile radius of the Project area (Table 4).

Table 3. Survey Reports within 0.5 Mile of the Project area

Report No.	Year	Author(s)/ Affiliation	Title
TU-00246	1979	Cantwell, R.J./ Individual Consultant	Archaeological and Historical Survey Report for the Walnut Avenue Extension from Watson Ditch Near Shirk Road to the Termination of Road 86, Visalia, California
TU-00247	1979	Cantwell, R.J./ California Department of Transportation	Historic Property Survey Report for the Extension of Walnut Avenue, Road A288 and Road 86, Approximately Two and a Half Miles of New Road, from Watson Ditch to Southern Terminus of Akers Road
TU-00960	1989	Chavez, David/ CH2M Hill, David Chavez & Associates	Historic Resources Evaluation Repot for a Proposed Freeway Project in Visalia
TU-00962	1990	Unknown/ CH2M Hill, David Chavez & Associates	Historic Property Survey Report for a Proposed Freeway Project in Visalia
TU-00963	1989	Chavez, David/ CH2M Hill, David Chavez & Associates	Archaeological Survey Report for a Proposed Freeway Project in Visalia
TU-00964	1989	Chavez, David/ CH2M Hill,	Historic Architectural Survey Report for the State Route 198 Draft Environmental Impact Report
TU-01006	1999	Binning, Jeanne and Chick, Phil/ California Department of Transportation	Negative Archaeological Survey Report to Perform Replacement Plan for Freeze Damage to landscaping Along Portions of State Route 198 In and Near Visalia

Table 4. Resources within 0.5 Mile of the Project area

Primary #	Type	Description
P-54-003667	Building	400 Block of Roeben Road - Two Residences and Associated Outbuildings on Roeben Road, ca. 1940s/1970s
P-54-003670	Building	Cottonwood Court Historic Residence, ca 1980s

There are no recorded cultural resources within the Project area or radius that are listed in the National Register of Historic Places, the California Register of Historical Resources, the California Points of Historical Interest, California Inventory of Historic Resources, or the California State Historic Landmarks.

4.2 Sacred Lands File & Native American Contacts List Request

The California Native American Heritage Commission (NAHC) was contacted on October 13, 2023, to conduct a Sacred Lands File (SLF) search, and to obtain a list of tribes culturally and geographically affiliated with the Project area (Appendix B). On December 1, 2023, the NAHC indicated there are no Native American traditional cultural places or sacred sites within or near the Project area. The NAHC provided a list of five (5) Tulare County Native American groups and individuals affiliated with the local tribes. On December 4, 2023 Ms. Froshour sent letters to all individuals describing the location, and the nature of the project. In each letter, Ms. Froshour included a request for information regarding prehistoric, historic, ethnographic land use, as well as contemporary Native American values.

Soar Environmental did not receive comments from the Tulare County Native American groups or affiliated individuals regarding the proposed development at the project location.

4.3 National Register of Historic Places (NRHP) Eligibility Evaluation

Historical Context and Construction History

The South Fork Persian Ditch is located in west Visalia, California within the 3rd hydrologic unit of the Kaweah Delta Water Conservation District. The ditch branches off from Watson Ditch and flows south and west for approximately 2.5 miles before terminating at the Persian Ditch. Previous cultural resources surveys in the area indicate that the ditch was first visible on Thompson's 1892 map and first appears on USGS topographic maps in 1927. The ditch is visible on aerial photographs as early as 1956. Alignment of the South Fork Persian Ditch has changed since its original construction between 1854 and 1856 with a major shift noted on topo maps between 1942 and 1946 when the ditch was altered from its northeast to southwest alignment to a north to south alignment along the west side of South Roeben St and an east to west alignment once it reaches the area between West Tempe Ave and West Howard Court (Nationwide Environmental Title Research, LLC 2020). The northern-most portion of the ditch was more recently modified to a west to east alignment between 2003 and 2004 (Google Earth 2022).

Earthen Irrigation Ditches in the San Joaquin Valley

Settlers in the San Joaquin Valley were among the first farmers in California to put in utility works specifically designed for use in irrigation. During the late 1850s and 1860s these short, roughly made, earthen ditches diverted water by means of temporary brush dams constructed across the lower courses of the streams running west out of the Sierra. The earliest of these ditches were built in the vicinity of Visalia in 1852-1853 with the Persian Ditch being one of the earlier ditches constructed in 1854 and the nearby Watson Ditch between 1855 and 1856 (Mitchell 1974). Other irrigation ditches spread out through the Kaweah River and Kings River deltas throughout the 1860s. Many of these early irrigation ditch systems were destroyed by the great floods of 1862 and 1868, despite these losses the San Joaquin Valley farmers continued to experiment with irrigation methods. By 1870, most of the approximately 60,000 irrigated acres in California were small diversions in Southern California and irrigation from former mining

ditches in the Sierra foothills. Farmers had also begun to irrigate bottom lands along the streams in the southern San Joaquin Valley (Pisani 1984). In the first decades of the twentieth century, many private enterprise irrigation systems in the San Joaquin Valley, as in Southern California, were acquired by irrigation districts formed by local residents (Adams 1929). The most common absorption occurred when local citizens formed an irrigation district covering the area served, and then purchased the commercial canals serving it. After irrigation districts took over in the 1910s and 1920s in the San Joaquin Valley, they typically replaced the wooden headgates, control structures, and diversion works with concrete structures (Jelinek 1982). Many canals remain earth lined, however, although areas with high seepage losses or problems with high groundwater tables installed linings in their originally earth-lined conduits.

Period of Significance

The ditch was constructed between 1854 and 1856 by farmers and other water users holding stock in what is now the Persian Ditch Company, created in ca. 1936, to transport water from Mill Creek for irrigation purposes. If eligible, the South Fork Persian Ditch would have a period of significance from approximately 1854 to present. This date range is based on historic maps of the City of Visalia and Tulare County.

Significance

South Fork Persian Ditch is potentially significant under **Criterion A.** The ditch is a mostly unlined earthenware irrigation ditch used by the city of Visalia. The ditch does not represent a unique association with agricultural activities at the local, state, or national levels. The ditch is associated with events that have made a significant contribution to the broad patterns of our history as part of the earliest irrigation ditch systems in Visalia. South Fork Persian Ditch is not significant under **Criterion B**. because the ditch is not associated with the lives of significant persons in our past. The design and construction, as well as modifications, were not by any one individual or individuals in the city of Visalia with particular significance at the local, state, or national levels. South Fork Persian Ditch is not significant under **Criterion C**. because the use of the earth in the construction of irrigation ditches has been common for over 150 years in the region and has been used since the planting of agricultural fields in Visalia. The ditch does not embody the distinctive characteristics of a type, period, or method of construction, nor does it represent the work of a master, possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction. The ditch is constructed of common materials and has been repaired and modified using typical methods and technologies. South Fork Persian Ditch is not significant under **Criterion D**. because the ditch is not a significant or likely source of important information about the construction of irrigation ditches, agricultural fields, or the materials or technologies employed in their construction and operation.

Integrity

The South Fork Persian Ditch is potentially significant under Criterion A and not significant under Criteria B-D. The ditch, however, have experienced changes in its alignment, alterations to

its immediate and landscape surroundings (including suburbanization along certain of their segments and the construction of modern bridge crossings), and the replacement of its original water control features with modern equipment (such as concrete culverts and metal gates). The ditch therefore lacks integrity of original location, setting, design, materials and feeling and it cannot convey its historical association and is therefore not eligible for the NRHP. Integrity of location design, materials, and workmanship, setting, feeling, and association is relatively low within the period of significance.

Determination of Eligibility

In view of this analysis, SOAR finds the South Fork Persian Ditch lacks significance and is not eligible for the NRHP.

Finding of Effect

The proposed Project is a 224-unit housing subdivision in Tulare County. The South Fork Persian Ditch is not NRHP eligible. The Project area is not located within any known historic districts or landscapes. The proposed construction would be limited to the 59.13-acre property, in addition to the 4.15 acres allocated to the development of a park dedicated to the City. As a result, SOAR finds *No Historic Properties Affected* (800.4[d][1]) for this undertaking.

5.0 PREVIOUS DISTURBANCES IN THE PROJECT AREA

The Project area is located within an area that has undergone anthropogenic modifications, primarily from activities related to residential development and agricultural activities. Likewise, the surface of the Project area has undergone surface grading and intense subsurface disturbance from previous residential construction and agricultural plowing. In some cases, the graded surface could exceed 24 inches (60 centimeters). This disturbance could exceed 5 feet (1.524 meters) in some areas.

In summary, the following previous disturbances have occurred within or immediately adjacent to the Project area:

- Surface grading and maintenance of current and historic roads
- Subsurface plowing, tilling, and harvesting due to agricultural activities
- Surface grading and subsurface disturbance for main building, outbuilding construction.

6.0 FIELD SURVEY METHODS AND RESULTS

The basic criteria for determining the presence of prehistoric and historic cultural resources in local urban and rural settings generally includes:

- Presence of flaking debris derived from stone tool manufacturing
- Presence of marine shell and/or other faunal remains
- Occurrence of material culture artifacts
- Surface expressions of cultural features
- Bedrock mortars and related milling features/components
- Soil discolorations or atypical soil manifestations
- Stone/adobe features associated with structural remains
- Diagnostic ceramics derived from Spanish, Mexican, or later periods
- Historic iron and glassware, cans, privy pits, domestic occupational debris

This investigation included the following tasks:

- Review of regional history and previous cultural resource sites and studies within the Project area and the vicinity.
- Examination of archival topographic maps and aerial photographs for the Project area and the general vicinity.
- Request of a California Historical Resources Information System data request of the Project area and 0.50-mile radius through the Southern San Joaquin Valley Information Center.
- Request of a NAHC Sacred Lands File Search for the Project area and 0.50-mile radius. Contact with Tribal groups and individuals as named by the NAHC.
- Evaluate the potential for the proposed Project to result in significant impacts to cultural resources including the potential to impact buried cultural resources with no surface expression.
- Intensive Phase 1 pedestrian survey with transect intervals of 50 feet (15 meters) of the Project area.
- Develop recommendations associated with impacts to cultural resources following the guidelines as outlined in the Regulatory Setting.

Ms. Froshour conducted the field survey of the Project area on November 18, 2023. The Project area was examined by systematic pedestrian inspection of the ground surface. Transect intervals

varied from 50 feet (15 meters). Disturbances immediately adjacent to the Project area were also examined for primary and secondary surface archaeological indicators.

The approximately 59.13-acre Project area consists mostly of undeveloped agricultural fields (Figures 5-15). Irrigation ditches, dirt roads, and contemporary irrigation features (e.g., standing pipes, culverts, pumps) exist within the Project footprint. The surface visibility of the Project area, defined as the approximate percentage of native soils visible during field survey of a given project component, was estimated at 90-100% within the Project area. The ground surface was covered by approximately 53.53-acres of active agricultural land with tree groves covering 5.6 acres, comprised of approximately 30 valley oaks (*Quercus lobata*), in the northwestern portion of the property (Figure 15).

No prehistoric cultural resources were identified within the Project area as a result of the intensive pedestrian survey. However, one (1) nineteenth-century irrigation ditch was identified within the Project area: the South Fork Persian Ditch was previously recorded in 1995 and again in 2022.

South Fork Persian Ditch

This resource is a short segment of the nineteenth century South Fork Persian Dith located on valley flats within the city limits of Visalia. The recorded segment measures approximately 518 feet long by 15 feet wide by 4 feet deep and is situated at an elevation range between 305 feet and 306 feet above sea level. During the current investigation, Soar Environmental investigated only that portion of the linear resource within the Project area, which runs in an east-west direction for approximately 0.75 mi. The ditch is earthen in construction and has contemporary irrigation features associated with it (i.e., concrete culverts, corrugated sheet metal culverts, sluice gates).

The ditch was constructed between 1854 and 1856 by farmers and other water users holding stock in what is now the Persian Ditch Company, created in ca. 1936, to transport water from Mill Creek for irrigation purposes. The ditch serves as a short distributary for the Persian Ditch to the north and the Watson Ditch to the south. The course of the South Fork Persian Ditch has changed subsequently between 1942 and 1946 as evidenced on USGS topographic quadrangles, and no longer maintain integrity from its original location. No artifacts or related cultural materials of any kind were observed on or immediately adjacent to the ditch. The resource is in good condition; however, it lacks integrity to its period of construction due to decades of agricultural activities, ditch modifications, and road maintenance. The ditch also now lacks integrity of setting, design, materials, feeling and association. As common property types lacking integrity, it is recommended as not eligible for listing in the California Register of Historical Resources (CRHR). Based on these findings, the development of the 4Creeks Elliot SJVH Project will not result in adverse impacts to know significant or unique resources as defined by California Environmental Quality Act CEQA.

In addition, three (3) isolate isolated ceramic sherds potentially derived from a primary or secondary archaeological context were observed on the surface of the Project area (Table 5).

Table 5. Isolates Recorded within the Project area

Isolate #	Type	Description
IF-01-2023	Ceramic	Refined earthenware, white glaze with blue band, thick possible serving dish/platter sherd
IF-02-2023	Ceramic	Refined earthenware body sherd, cream/yellow colored glaze
IF-03-2023	Ceramic	Refined earthenware sherd, light cream-colored glaze, possible platter sherd

In summary, one (1) existing *in situ* cultural resource was observed on the surface of the Project area, a nineteenth-century irrigation ditch associated with irrigation systems throughout the City of Visalia, with three (3) isolated ceramic sherds observed on the surface of the Project area.

7.0 RECOMMENDED ACTIONS AND MITIGATION MEASURES

There appears to be a moderate possibility for subsurface cultural resources in the Project area, based on the results of the archival research, and the fact that one (1) known resource have been detected during previous disturbances within the Project area. There are no recorded cultural resources within the 0.5-mile buffer radius that are listed in the National Register of Historic Places, the California Register of Historical Resources, the California Points of Historical Interest, California Inventory of Historic Resources, or the California State Historic Landmarks. No site testing or mitigation measures are recommended or required, unless previously undiscovered cultural resources are detected during construction.

The intensive Phase I pedestrian survey was conducted on November 18, 2023, with parallel transects spaced at 50 feet (15-meter) intervals walked across the entire Project area. No prehistoric resources were identified, but segments of one (1) nineteenth-century irrigation ditch was documented within the Project area: the South Fork Persian Ditch. The ditch dates from 1854 – 1856 and reflects the establishment of an irrigation system in this portion of Tulare County. It thus could be potentially eligible for CRHR listing due to its association with this important historic event (CRHR Criterion 1). It has no known association with an important historical figure (CRHR Criterion 2) and, as common property types, is not notable in terms of design, materials, or engineering (CRHR Criterion 3). It also lacks research value not better provided by historical records and documents (CRHR Criterion 4).

The ditch, however, has experienced changes in its alignment, alterations to its immediate and landscape surroundings (including suburbanization along certain of their segments and the construction of modern bridge crossings), and the replacement of its original water control features with modern equipment (such as concrete culverts and metal gates). The ditch therefore lacks integrity of original location, setting, design, materials and feeling and it cannot convey its historical association.

The South Fork Persian Ditch is recommended as not CRHR eligible, and it does not constitute significant or unique historical resources under CEQA due to its lack of integrity. No other cultural resources of any kind were identified during a Phase I study of the Project area. The proposed 4 Creeks Elliot SJVH Project therefore does not have the potential to result in adverse impacts to know historical properties.

A potential always exists to encounter previously undetected cultural resources. If cultural materials (prehistoric and/or historic artifacts) are detected during the course of ground disturbances associated with this project, all work in the immediate area of the find shall be halted until a qualified archaeologist can inventory and assess the significance of the find(s). At that point, the resources shall be evaluated in accordance with the procedures set forth in the California Environmental Quality Act (CEQA) 21083.2, sections 15064.5 and 15126.4, and the criteria regarding resource eligibility to the California Register of Historic Resources (CRHR).

If a resource cannot be avoided, then the resource must be examined vis-à-vis the provisions in the County Guidelines, and CEQA Sections 15064.5 and 15126.4 and the eligibility criteria as an "important" or "unique archaeological resource", as appropriate. In many cases, determination of a resource's eligibility can only be made through extensive research and archaeological testing.

Human remains are addressed by State of California Health and Safety Code Section 7050.5. This code section states that no further disturbance shall occur until the County Coroner has made a determination of the origin and disposition of the remains, pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the human remains are determined to be prehistoric/ethnohistoric Native American remains, the Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendent (MLD). The MLD shall complete the inspection of the site within 24 hours of notification, and may potentially recommend scientific removal, reburial, nondestructive analysis of human remains, and/or specific treatment of associated burial goods.

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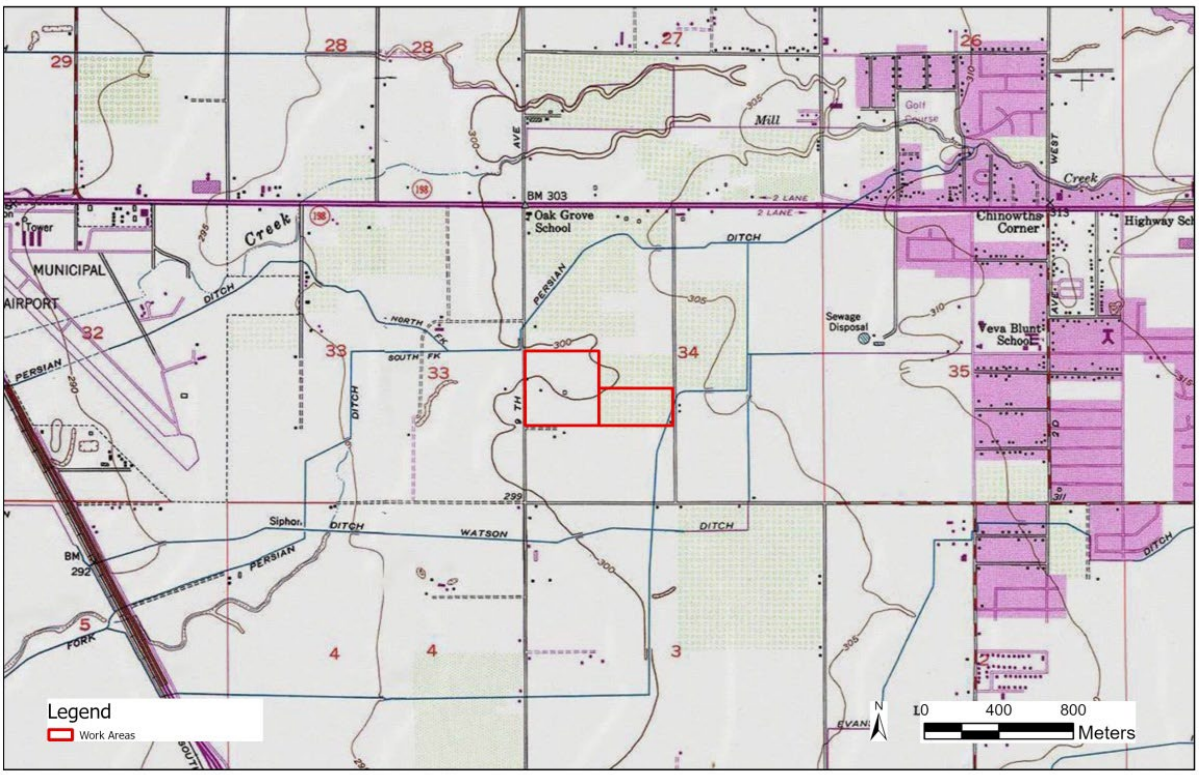
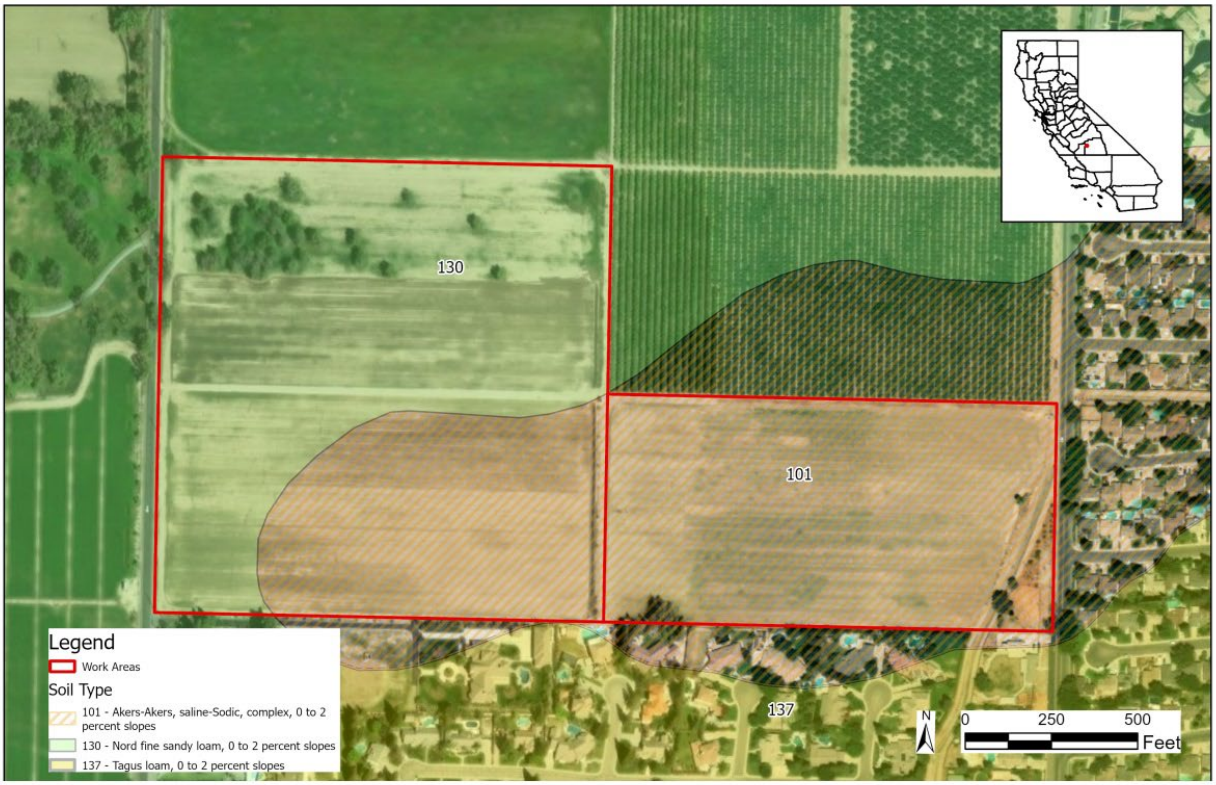
FIGURES



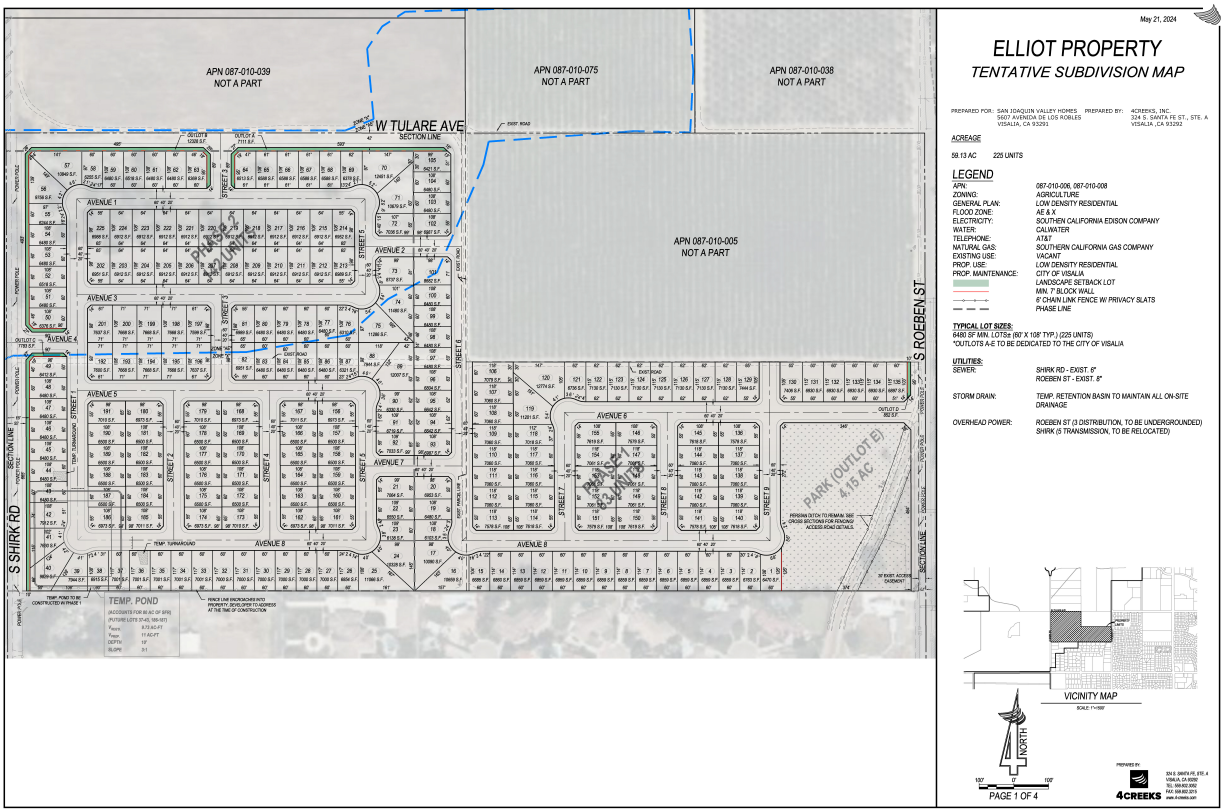
Phase 1 Cultural Resources Assessment Elliott SJVH, Visalia, CA 93277

Figure 1 - Project Location (adapted from USGS 7.5' Series Visalia, California, 1949

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 2 - Project Boundary



	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 3 - Soil Types Occurring in the Project Area


May 21, 2024
ELLIOT PROPERTY
TENTATIVE SUBDIVISION MAP
APN 087-010-039
NOT A PART
APN 087-010-075
NOT A PART
APN 087-010-038
NOT A PART
APN 087-010-005
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TEMP. POND
LEGEND
VICINITY MAP
NORTH
PAGE 1 OF 4
4CREEKS

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 5 - Overview from north edge of project area, facing south

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 6 - Overview from northeast corner of project area, facing southwest

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 7 - Overview from center of project area, facing north

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 8 - Overview from center of project area, facing east

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 9 - Overview from center of project area, facing south

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 10 - Overview from center of project area, facing west

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 11 - Overview from southeast corner of project area, facing northwest

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 12 - Overview from south corner of project area, facing north

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 13 - Overview from southwest corner of project area, facing northeast

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 14 - Overview from west edge of project area, facing east

	Phase 1 Cultural Resources Assessment Elliot SJVH, Visalia, CA 93277	Figure 15 - Overview from northwest corner of project area, facing southeast

APPENDIX A

Southern San Joaquin Valley Information Center Records Search

Corporate Headquarters
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710
www.soarhere.com • 559.547.8884

Cultural Resources Records Search Request

Tuesday, October 12, 2023

Southern San Joaquin Valley Information Center
California State University Bakersfield
Mail Stop: 72DOB
9001 Stockdale Highway
Bakersfield, CA 93311-1022
Tel: 661.654.2289
ssjvic@csub.edu

RE: Phase I CEQA Cultural Resource Evaluation Report for proposed housing development bounded by Shirk and Tulare roads and Roeben Street, Visalia, CA, 93277. APNs 087-010-006, 087-010-008.

Dear Celeste,

Please find attached one project location map and shapefiles for the proposed housing development bounded by Shirk and Tulare roads and Roeben Street Phase I Cultural Resource Assessment Report, and the SSJVIC/CHRIS Data Request Form. The proposed project is situated on the Visalia, California (2021), USGS 7.5' Series Quads. The 59.11-acre project area is located on APNs 087-010-006 and 087-010-008 and is bounded by Shirk and Tulare roads and Roeben Street in Visalia, California. The project is for a proposed 224-unit housing development with a center at approximately WGS 84 11 N 287779 E 4021822 N.

Please conduct a normal rate records search, including no more than a 0.50-mile radius buffer, of the project location illustrated on the attached map. Please provide the following information:

- PDF of all site records and associated survey reports (Note: PDF/photocopy only those site reports that appear to be pertinent to the immediate project location and search area; surveys and other site/resources can be listed, with full reports requested later if necessary).
- A list of all previous sites and surveys within the search area.
- A confirmation of any sites, structures, or linear features on local, state, and/or federal registers/lists in the project location or the 0.50-mile search area that are not yet mapped on the GIS.

If the normal records search costs will exceed $500.00, or if you have any questions or comments, please e-mail me at hfroshour@soarhere.com. Please contact me as soon as possible if there will be any delays with the records search, as the client may request an expedited search. Please email the encrypted search results in PDF format to: hfroshour@soarhere.com.

Many thanks in advance for your assistance with this project.

Most Sincerely,

Heather Froshour, M.A., R.P.A.
Sr. Archaeologist
Soar Environmental Consulting, Inc.
207.232.8912

CHRIS Data Request Form

ACCESS AND USE AGREEMENT NO.: 515.00 **IC FILE NO.:** _____

To: Southern San Joaquin Valley Information Center

Print Name: Heather Froshour Date: 10/12/2023

Affiliation: Soar Environmental Consulting Inc.

Address: 1322 East Shaw Ave. Suite 400

City: Fresno State: CA Zip: 93710

Phone: (559) 547-8884 Fax: _____ Email: hfroshour@soarhere.com

Billing Address (if different than above): _____

Billing Email: cdavis@soarhere.com Billing Phone: _____

Project Name / Reference: Phase I Cultural Resources Assessment Report Elliot SJVH

Project Street Address: APNs 087-010-006 & 087-010-008; Shirk & Tulare Rds & Roeben St

County or Counties: Tulare

Township/Range/UTMs: T 18S, R 24E, S 34; WGS 84 11 N 287779 E 4021822 N

USGS 7.5' Quad(s): Visalia California (2022), USGS 7.5' Series Quad;

PRIORITY RESPONSE (Additional Fee): yes ☐ / no ■

TOTAL FEE NOT TO EXCEED: $ 500.00
(If blank, the Information Center will contact you if the fee is expected to exceed $1,000.00)

Special Instructions:

Information Center Use Only

Date of CHRIS Data Provided for this Request: _____

Confidential Data Included in Response: yes ☐ / no ☐

Notes: _____

CHRIS Data Request Form

Mark the request form as needed. Attach a PDF of your project area (with the radius if applicable) mapped on a 7.5' USGS topographic quadrangle to scale 1:24000 ratio 1:1 neither enlarged nor reduced and include a shapefile of your project area, if available. Shapefiles are the current CHRIS standard for submitting digital spatial data for your project area or radius. **Check with the appropriate IC for current availability of digital data products.**

- Documents will be provided in PDF format. Paper copies will only be provided if PDFs are not available at the time of the request or under specially arranged circumstances.
- Location information will be provided as a digital map product (Custom Maps or GIS data) unless the area has not yet been digitized. In such circumstances, the IC may provide hand drawn maps.
- In addition to the $150/hr. staff time fee, client will be charged the Custom Map fee when GIS is required to complete the request [e.g., a map printout or map image/PDF is requested and no GIS Data is requested, or an electronic product is requested (derived from GIS data) but no mapping is requested].

For product fees, see the CHRIS IC Fee Structure on the OHP website.

1. Map Format Choice:

Select One: Custom GIS Maps ☒ GIS Data ☐ Custom GIS Maps **and** GIS Data ☐ No Maps ☐

Any selection below left unmarked will be considered a "no. "

Location Information:

	Within project area	Within 0.5 mi. radius
ARCHAEOLOGICAL Resource Locations[1]	yes ☒ / no ☐	yes ☒ / no ☐
NON-ARCHAEOLOGICAL Resource Locations	yes ☒ / no ☐	yes ☒ / no ☐
Report Locations[1]	yes ☒ / no ☐	yes ☒ / no ☐
"Other" Report Locations[2]	yes ☐ / no ☒	yes ☐ / no ☒

3. Database Information:
(contact the IC for product examples, or visit the SSJVIC website for examples)

	Within project area	Within 0.5 mi. radius
ARCHAEOLOGICAL Resource Database[1]		
List (PDF format)	yes ☒ / no ☐	yes ☒ / no ☐
Detail (PDF format)	yes ☐ / no ☒	yes ☐ / no ☒
Excel Spreadsheet	yes ☐ / no ☒	yes ☐ / no ☒
NON-ARCHAEOLOGICAL Resource Database		
List (PDF format)	yes ☒ / no ☐	yes ☒ / no ☐
Detail (PDF format)	yes ☐ / no ☒	yes ☐ / no ☒
Excel Spreadsheet	yes ☐ / no ☒	yes ☐ / no ☒
Report Database[1]		
List (PDF format)	yes ☒ / no ☐	yes ☒ / no ☐
Detail (PDF format)	yes ☐ / no ☒	yes ☐ / no ☒
Excel Spreadsheet	yes ☐ / no ☒	yes ☐ / no ☒
Include "Other" Reports [2]	yes ☒ / no ☐	yes ☒ / no ☐

4. Document PDFs (paper copy only upon request)**:**

	Within project area	Within 0.5 mi. radius
ARCHAEOLOGICAL Resource Records[1]	yes ☒ / no ☐	yes ☒ / no ☐
NON-ARCHAEOLOGICAL Resource Records	yes ☒ / no ☐	yes ☒ / no ☐
Reports[1]	yes ☒ / no ☐	yes ☒ / no ☐
"Other" Reports[2]	yes ☐ / no ☒	yes ☐ / no ☒

CHRIS Data Request Form

5. Eligibility Listings and Documentation:

	Within project area	Within 0.5 mi. radius
OHP Built Environment Resources Directory[3]:		
Directory listing only (Excel format)	yes ☒ / no ☐	yes ☒ / no ☐
Associated documentation[4]	yes ☒ / no ☐	yes ☒ / no ☐
OHP Archaeological Resources Directory[1,5]:		
Directory listing only (Excel format)	yes ☒ / no ☐	yes ☒ / no ☐
Associated documentation[4]	yes ☒ / no ☐	yes ☒ / no ☐
***California Inventory of Historic Resources* (1976):**		
Directory listing only (PDF format)	yes ☒ / no ☐	yes ☒ / no ☐
Associated documentation[4]	yes ☒ / no ☐	yes ☒ / no ☐

6. Additional Information:

The following sources of information may be available through the Information Center. However, several of these sources are now available on the OHP website and can be accessed directly. The Office of Historic Preservation makes no guarantees about the availability, completeness, or accuracy of the information provided through these sources. Indicate below if the Information Center should review and provide documentation (if available) of any of the following sources as part of this request.

Caltrans Bridge Survey	yes ☒ / no ☐
Ethnographic Information	yes ☒ / no ☐
Historical Literature	yes ☒ / no ☐
Historical Maps	yes ☒ / no ☐
Local Inventories	yes ☒ / no ☐
GLO and/or Rancho Plat Maps	yes ☒ / no ☐
Shipwreck Inventory	yes ☐ / no ☒
Soil Survey Maps	yes ☒ / no ☐

---

[1] In order to receive archaeological information, requestor must meet qualifications as specified in Section III of the current version of the California Historical Resources Information System Information Center Rules of Operation Manual and be identified as an Authorized User or Conditional User under an active CHRIS Access and Use Agreement.

[2] "Other" Reports GIS layer consists of report study areas for which the report content is almost entirely non-fieldwork related (e.g., local/regional history, or overview) and/or for which the presentation of the study area boundary may or may not add value to a record search.

[3] Provided as Excel spreadsheets with no cost for the rows; the only cost for this component is IC staff time. Includes, but not limited to, information regarding National Register of Historic Places, California Register of Historical Resources, California State Historical Landmarks, California State Points of Historical Interest, and historic building surveys. Previously known as the HRI and then as the HPD, it is now known as the Built Environment Resources Directory (BERD). The Office of Historic Preservation compiles this documentation and it is the source of the official status codes for evaluated resources.

[4] Associated documentation will vary by resource. Contact the IC for further details.

[5] Provided as Excel spreadsheets with no cost for the rows; the only cost for this component is IC staff time. Previously known as the Archaeological Determinations of Eligibility, now it is known as the Archaeological Resources Directory (ARD). The Office of Historic Preservation compiles this documentation and it is the source of the official status codes for evaluated resources.

California Historical Resources Information System

Fresno
Kern
Kings
Madera
Tulare

Southern San Joaquin Valley Information Center
California State University, Bakersfield
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic

10/23/2023

Heather Froshour
Soar Environmental Consulting
1322 East Shaw Ave., Suite 400
Fresno, CA 93710

Re: Phase I Cultural Resources Assessment Report Elliot SJVH
Records Search File No.: 23-439

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on the Visalia USGS 7.5' quad. The following reflects the results of the records search for the project area and the 0.5 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: ☒ custom GIS maps ☐ GIS data

Resources within project area:	P-54-002177
Resources within 0.5 mile radius:	P-54-003667, 003670
Reports within project area:	TU-00041, 01190
Reports within 0.5 mile radius:	TU-00246, 00247, 00960, 00962, 00963, 00964, 01006

Resource Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Resource Database Printout (details):	☐ enclosed	☒ not requested	☐ nothing listed
Resource Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Report Database Printout (list):	☒ enclosed	☐ not requested	☐ nothing listed
Report Database Printout (details):	☐ enclosed	☒ not requested	☐ nothing listed
Report Digital Database Records:	☐ enclosed	☒ not requested	☐ nothing listed
Resource Record Copies:	☒ enclosed	☐ not requested	☐ nothing listed
Report Copies:	☒ enclosed	☐ not requested	☐ nothing listed
OHP Built Environment Resources Directory:	☒ enclosed	☐ not requested	☐ nothing listed
Archaeological Determinations of Eligibility:	☐ enclosed	☐ not requested	☒ nothing listed
CA Inventory of Historic Resources (1976):	☐ enclosed	☐ not requested	☒ nothing listed

Caltrans Bridge Survey: Not available at SSJVIC; please see https://dot.ca.gov/programs/environmental-analysis/cultural-studies/california-historical-bridges-tunnels

Ethnographic Information: Not available at SSJVIC

Historical Literature: Not available at SSJVIC

Historical Maps: Not available at SSJVIC; please see http://historicalmaps.arcgis.com/usgs/

Local Inventories: Not available at SSJVIC

GLO and/or Rancho Plat Maps: Not available at SSJVIC; please see http://www.glorecords.blm.gov/search/default.aspx#searchTabIndex=0&searchByTypeIndex=1 and/or http://www.oac.cdlib.org/view?docId=hb8489p15p;developer=local;style=oac4;doc.view=items

Shipwreck Inventory: Not available at SSJVIC; please see https://www.slc.ca.gov/shipwrecks/

Soil Survey Maps: Not available at SSJVIC; please see http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Jeremy E David
Assistant Coordinator

Report List

SSJVIC Record Search 23-439

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
TU-00041	BLM - Permit No. CA-95-01-0004; NADB-R - 1141258	1995	Self, William	Class I Overview, Santa Fe Pacific Pipeline Partners, L.P., Proposed Concord to Colton Pipeline Project	William Self Associates	
TU-00246		1979	Cantwell, R.J.	Archaeological and Historical Survey Report for the Walnut Avenue Extension from Watson Ditch Near Shirk Road to the Termination of Road 86, Visalia, California	Individual Consultant	
TU-00247		1979	Cantwell, R.J.	Historic Property Survey Report for the Extension of Walnut Avenue, Road A288 and Road 86, Approximately Two and a Half Miles of New Road, from Watson Ditch to Southern Terminus of Akers Road	California Department of Transportation	
TU-00960	Caltrans - 06-TUL-198 PM 5.0/9.3 EA 06-200-278600	1989	Chavez, David	Historic Resources Evaluation Repot for a Proposed Freeway Project in Visalia	CH2M Hill / David Chavez & Associates	
TU-00962		1990	Chavez, David	Historic Property Survey Report for a Proposed Freeway Project in Visalia	CH2M Hill / David Chavez & Associates	
TU-00963	Caltrans - 06-TUL-198 PM 5.0/9.3 EA 06-200-278600	1989	Unknown	Archaeological Survey Report for a Proposed Freeway Project in Visalia	CH2M Hill / David Chavez & Associates	54-001368
TU-00964		1989	Chavez, David	Historic Architectural Survey Report for the State Route 198 Draft Environmental Impact Report	CH2M Hill	
TU-01006	Caltrans - 06-TUL-198 PM 4.6/11.9 EA 06-349201	1999	Binning, Jeanne and Chick, Phil	Negative Archaeological Survey Report to Perform Replacement Plantatin for Freeze Damage to landscaping Along Portions of State Route 198 In and Near Visalia	California Department of Transportation	
TU-01190		1957	Mitchell, Annie R.	Jim Savage and the Tulareño Indians	Westernlore Press	

Resource List

SSJVIC Record Search 23-439

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-54-002177	CA-TUL-003259H	Resource Name - South Fork Persian Ditch; Resource Name - SFPP-22; SFPP-23	Structure	Historic	HP20	1995 (Carrie D. Wills, Allen Estes, William Self Associates); 1995 (Carrie D. Wills, Allen Estes, William Self Associates); 2022 (Consuelo Y. Sauls, Taylored Archaeology)	TU-01937
P-54-003667		Resource Name - 400 Block of Roeben Road - Two Residences and Associated Outbuildings on Roeben Road	Building	Historic	HP02; HP04	1989 (Sally Woodbridge, David Chavez and Associates)	
P-54-003670		Resource Name - Cottonwood Court	Building	Historic	HP02	1989 (Sally Woodbridge, David Chavez and Associates)	

California Historical Resources Information System

Fresno
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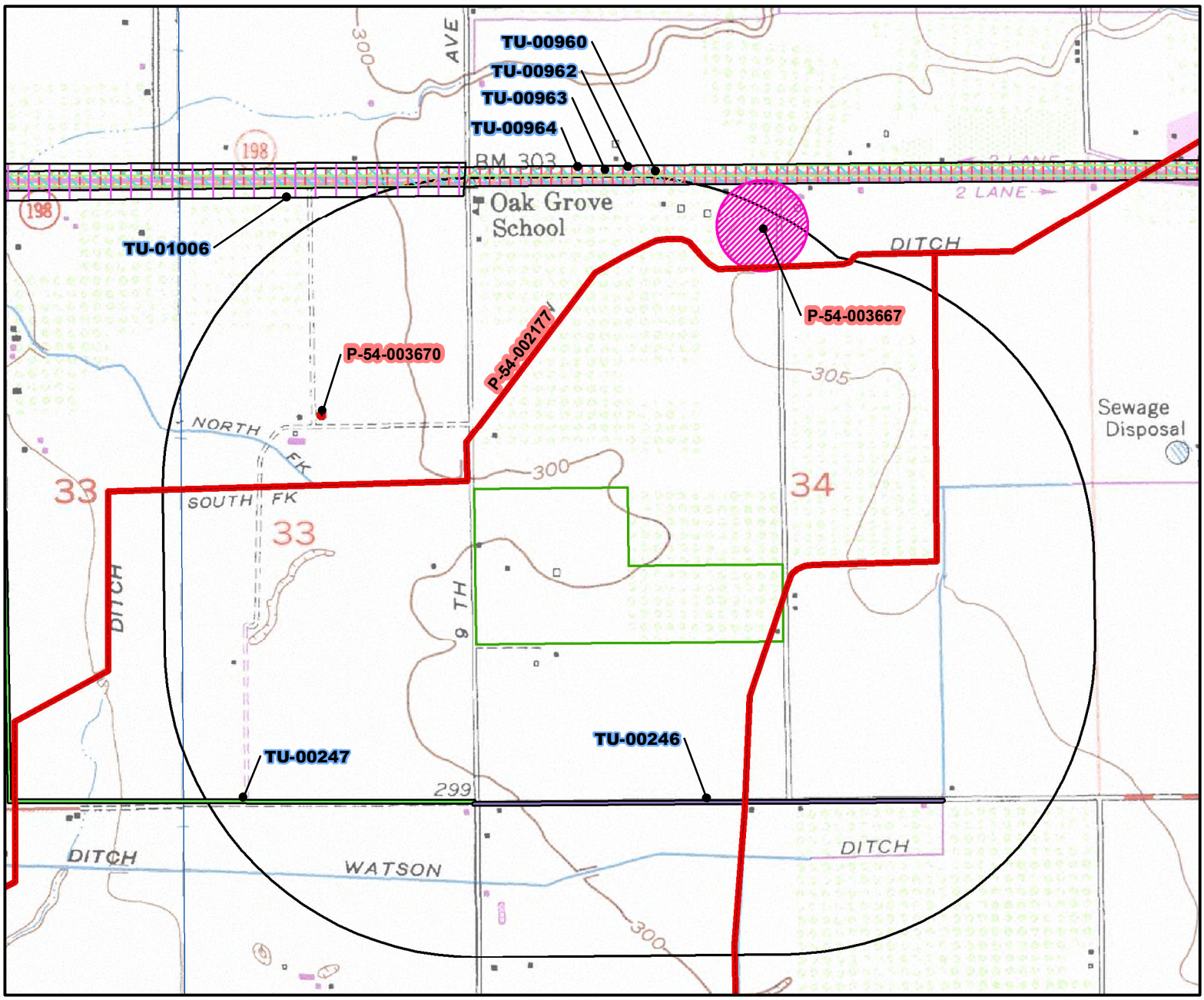
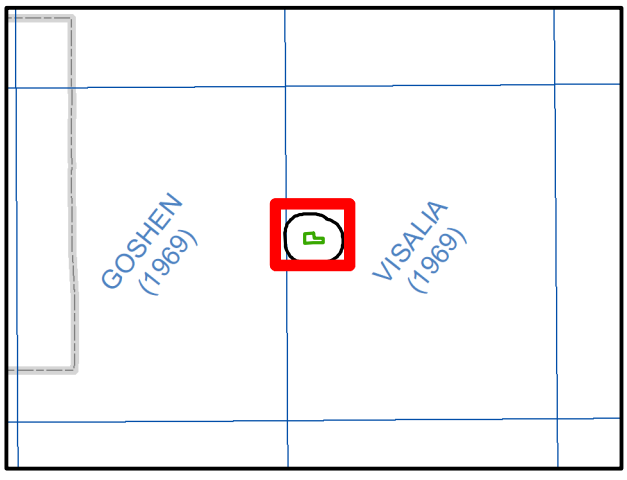
Tulare

Southern San Joaquin Valley Information Center
California State University, Bakersfield
Mail Stop: 72 DOB
9001 Stockdale Highway
Bakersfield, California 93311-1022
(661) 654-2289
E-mail: ssjvic@csub.edu
Website: www.csub.edu/ssjvic





May depict confidential cultural resource locations. Do not distribute.

Map pages depicting no data have been excluded.

Project Area

Record Search radius

N W E S

0 0.075 0.15 0.3 Miles

0 0.1 0.2 0.4 Kilometers

SSJV Information Center Record Search 23-439
Requester: Heather Froshour; Soar Environmental Consulting, Inc.
Project Name: Phase I Cultural Resource Assessment Report Elliot SJVH
USGS 7.5' Quad(s): Visalia
County: Tulare

APPENDIX B

Sacred Lands File & Native American Contacts List Request

Corporate Headquarters
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710
www.soarhere.com • 559.547.8884

Sacred Lands File & Native American Contacts List Request

Thursday, October 12, 2023

Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Tel: 916.373.3710
Fax: 916.373.5471
nahc@nahc.ca.gov

RE: Phase I CEQA Cultural Resource Evaluation Report for proposed housing development bounded by Shirk and Tulare roads and Roeben Street, Visalia, CA, 93277. APNs 087-010-006, 087-010-008.

Dear Sir/Madam,

Please find attached one project location map for the proposed housing development bounded by Shirk and Tulare roads and Roeben Street Phase I Cultural Resource Assessment Report, and the Sacred Lands File & Native American Contacts List Request. The proposed project is situated on the Visalia, California (2021), USGS 7.5' Series Quads. The 59.11-acre project area is located on APNs 087-010-006 and 087-010-008 and is bounded by Shirk and Tulare roads and Roeben Street in Visalia, California. The project is for a proposed 224-unit housing development with a center at approximately WGS 84 11 N 287779 E 4021822 N.

This letter is intended to inform you of the project and to help ensure compliance with the National Environmental Protection Act (NEPA). As part of the Cultural Resources Study for the project, we are requesting your insights on potential Native American cultural properties and resources in and/or near the project.

Please respond at your earliest convenience if you have any information to consider for this study.

Also, we would greatly appreciate if you could review the attached map and indicate to us if there are any concerns you might have or input regarding potentially sensitive cultural heritage values in the project area and vicinity.

Feel free to contact me by email at hfroshour@soarhere.com or phone at 207.232.8912.

Most Sincerely,

Heather Froshour, M.A., R.P.A.
Sr. Archaeologist
Soar Environmental Consulting, Inc.
207.232.8912

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Phase I Cultural Resources Assessment Report Elliot SJVH

County: Tulare

USGS Quadrangle Name: Visalia, California, Kern County, 7.5' Series

Township: 18S **Range:** 24E **Section(s):** 34

Company/Firm/Agency: Soar Environmental Consulting Inc.

Street Address: 1322 East Shaw Ave. Suite 400

City: Fresno **Zip:** 93710

Phone: (559)547-8884

Fax:

Email: hfroshour@soarhere.com

Project Description:

The 59.11-acre project area is located on APNs 087-010-006 and 087-010-008 and is bounded by Shirk and Tulare roads and Roeben Street in Visalia, California. The project is for a proposed 224-unit housing development with a center at approximately WGS 84 11 N 287779 E 4021822 N.

Local Government Tribal Consultation List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Type of List Requested

■ **CEQA Tribal Consultation List (AB 52)** – ***Per Public Resources Code § 21080.3.1, subs. (b), (d), (e) and 21080.3.2***

☐ **General Plan (SB 18)** - ***Per Government Code § 65352.3.***

Local Action Type:

☐ **General Plan** ☐ **General Plan Element** ☐ **General Plan Amendment**

☐ **Specific Plan** ☐ **Specific Plan Amendment** ☐ **Pre-planning Outreach Activity**

Required Information

Project Title: Phase I Cultural Resources Assessment Report Elliot SJVH

Local Government/Lead Agency: Soar Environmental Consulting Inc.

Contact Person: Heather Froshour

Street Address: 1322 East Shaw Ave. Suite 400

City: Fresno **Zip:** 93710

Phone: (559) 547-8884 **Fax:**

Email: hfroshour@soarhere.com

Specific Area Subject to Proposed Action

County: Tulare **City/Community:** Visalia

Project Description:

The 59.11-acre project area is located on APNs 087-010-006 and 087-010-008 and is bounded by Shirk and Tulare roads and Roeben Street in Visalia, California. The project is for a proposed 224-unit housing development with a center at approximately WGS 84 11 N 287779 E 4021822 N.

Additional Request

■ **Sacred Lands File Search** - ***Required Information:***

USGS Quadrangle Name(s): Visalia, California (2022) 7.5' Series Quad

Township: 18S **Range:** 24E **Section(s):** 34

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Reginald Pagaling
Chumash

VICE-CHAIRPERSON
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

SECRETARY
Sara Dutschke
Miwok

PARLIAMENTARIAN
Wayne Nelson
Luiseño

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
Laurena Bolden
Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Vacant

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok, Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

December 1, 2023

Heather Froshour
Soar Environmental Consulting Inc.

Via Email to: hfroshour@soarhere.com

Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, Phase I Cultural Resources Assessment Report Elliot SJVH Project, Tulare County

Dear Ms. Froshour:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

- A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

- Any report that may contain site forms, site significance, and suggested mitigation measures.

  All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was negative.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Cameron.vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Tulare County
12/1/2023

County	Tribe Name	Fed (F) Non-Fed (N)	Contact Person	Contact Address	Phone #	Fax #	Email Address	Cultural Affiliation	Counties	Last Updated
Tulare	Santa Rosa Rancheria Tachi Yokut Tribe	F	Samantha McCarty, Cultural Specialist II	P.O. Box 8 Lemoore, CA, 93245	(559) 633-3440		smccarty@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno,Kern,Kings,Merced,Monterey,San Benito,San Luis Obispo,Tulare	10/3/2023
	Santa Rosa Rancheria Tachi Yokut Tribe	F	Shana Powers, THPO	P.O. Box 8 Lemoore, CA, 93245	(559) 423-3900		spowers@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno,Kern,Kings,Merced,Monterey,San Benito,San Luis Obispo,Tulare	10/3/2023
	Santa Rosa Rancheria Tachi Yokut Tribe	F	Nichole Escalon, Cultural Specialist I	P.O. Box 8 Lemoore, CA, 93245	(559) 924-1278		nescalone@tachi-yokut-nsn.gov	Southern Valley Yokut	Fresno,Kern,Kings,Merced,Monterey,San Benito,San Luis Obispo,Tulare	10/3/2023
	Tule River Indian Tribe	F	Neil Peyron, Chairperson	P.O. Box 589 Porterville, CA, 93258	(559) 781-4271	(559) 781-4610	neil.peyron@tulerivertribe-nsn.gov	Yokut	Alameda,Amador,Calaveras,Contra Costa,Fresno,Inyo,Kern,Kings,Madera,Mariposa,Merced,Monterey,Sacramento,San	
	Wuksachi Indian Tribe/Eshom Valley Band	N	Kenneth Woodrow, Chairperson	1179 Rock Haven Ct. Salinas, CA, 93906	(831) 443-9702		kwood8934@aol.com	Foothill Yokut Mono	Alameda,Calaveras,Contra Costa,Fresno,Inyo,Kings,Madera,Marin,Mariposa,Merced,Mono,Monterey,San Benito,San	6/19/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Phase I Cultural Resources Assessment Report Elliot SJVH Project, Tulare County.

Record: PROJ-2023-005824
Report Type: AB52 GIS
Counties: Tulare
NAHC Group: All

Corporate Headquarters
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710
www.soarhere.com • 559.547.8884

Monday, December 4, 2023

Santa Rosa Rancheria Tachi Yokut Tribe
P.O. Box 8
Lemoore, CA, 93245
Phone: (559) 924-1278
nescalone@tachi-yokut-nsn.gov

RE: Proposed housing subdivision bounded by Shirk and Tulare roads and Roeben Street, Visalia, CA, 93277. APNs 087-010-006, 087-010-008.

Dear Nichole Escalon, Cultural Specialist l,

Below, please find a description of the proposed project, a map showing the project location, and the name of our project point of contact, pursuant to Public Resources Code (PRC) § 21080.3.1 (d).

The proposed project is situated on the Visalia, California (2021), USGS 7.5' Series Quadrangle. The 59.13-acre project area is located on APNs 087-010-006 and 087-010-008 and is bounded by Shirk and Tulare Roads and Roeben Street in Visalia, California. The project is for a proposed 224-unit housing development with a center at approximately WGS 84 11 N 287779 E 4021822 N.

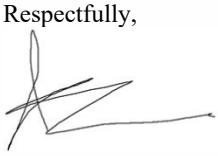
4Creeks, Inc. has requested a Phase 1 Archaeological Resource Assessment (Phase 1) to determine the potential for cultural resources prior to development, pursuant to state and local laws, including the California Environmental Quality Act (CEQA) and Tulare County guidelines. Soar Environmental Consulting Inc. (Soar Environmental) proposes to complete the Phase 1 study for the present project.

An important element of a Phase 1 study is to identify sites, resources, or locations of cultural importance to the local Native American community. As part of the process, Soar Environmental contacted the Native American Heritage Commission (NAHC) on October 13 2023. On December 1, 2023, Soar received a response letter from the NAHC indicating **negative results** of the Sacred Lands File search. Furthermore, the NAHC identified your organization as a point of contact regarding potentially known recorded sites or cultural resources within Tulare County.

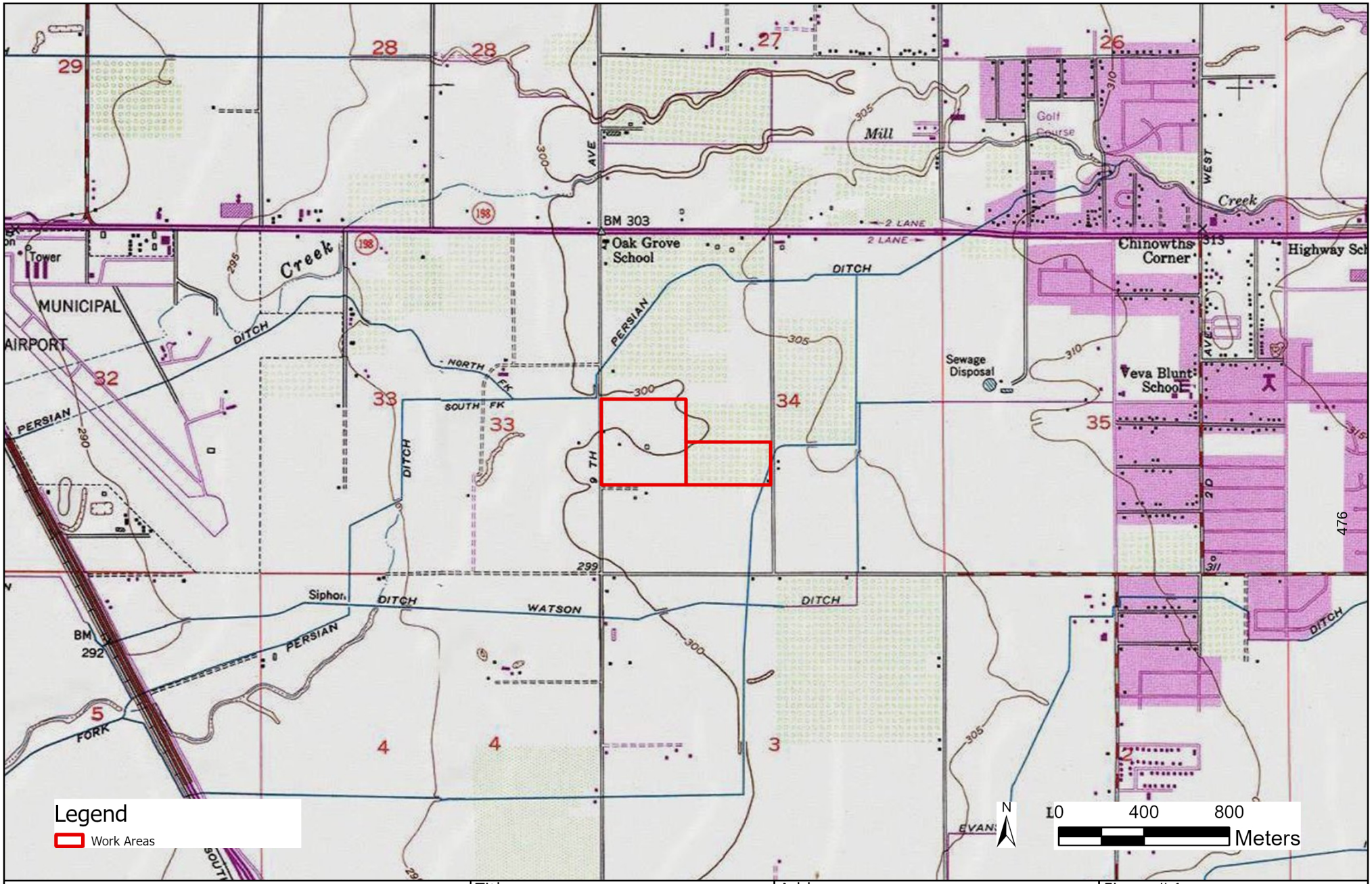
Soar contacted the Southern San Joaquin Valley Information Center (SSJVIC) of the California Historical Resources Information System on October 13, 2023. On October 23, 2023, SSJVIC revealed one (1) historic cultural resource within the project area. No archaeological sites, three (3) potentially historic isolated finds, and one (1) historical resource are known within the project area. Two (2) previous surveys have been conducted within the project area. Two (2) historic cultural resources were identified within the ½-mile search radius of the project area. No historic properties on federal, state, or local inventories have been evaluated within the project area. Seven (7) previous surveys have been conducted within a ½-mile radius of the project area. On November 18, 2023, Soar conducted an archeological pedestrian field survey of the project area. **One (1) historic resource** was identified during the field survey, the South Fork Persian Ditch earthenware irrigation ditch.

Soar is contacting you to determine if you have any concerns regarding the proposed development. Pursuant to PRC § 21080.3.1 (d), you have **30 days** from the receipt of this letter to request consultation, in writing, with Soar. Should you have any concerns or knowledge of cultural resources in the specific project area, please contact me at hfroshour@soarhere.com or at (207) 232-8912 at your earliest convenience. If Soar does not hear from you within this time, we shall assume that you have no comments regarding this project.

Respectfully,



Heather Froshour, M.A., R.P.A.
Sr. Archaeologist
Soar Environmental Consulting, Inc.



1322 East Shaw Avenue, Suite 400 Fresno, CA 93710 www.soarhere.com 559.547.8884	Title Visalia Topographic Map	Address Subdivision Bounded by Shirk and Tulare roads and Roeben Street. APNs 087-010-006, 087-010-008.	Figure # 1 Topographic Map
	Client 4Creeks		Revision Date 10/13/2023

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Monday, December 4, 2023

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RE: Proposed housing subdivision bounded by Shirk and Tulare roads and Roeben Street, Visalia, CA, 93277. APNs 087-010-006, 087-010-008.

Dear Samantha McCarty, Cultural Specialist ll,

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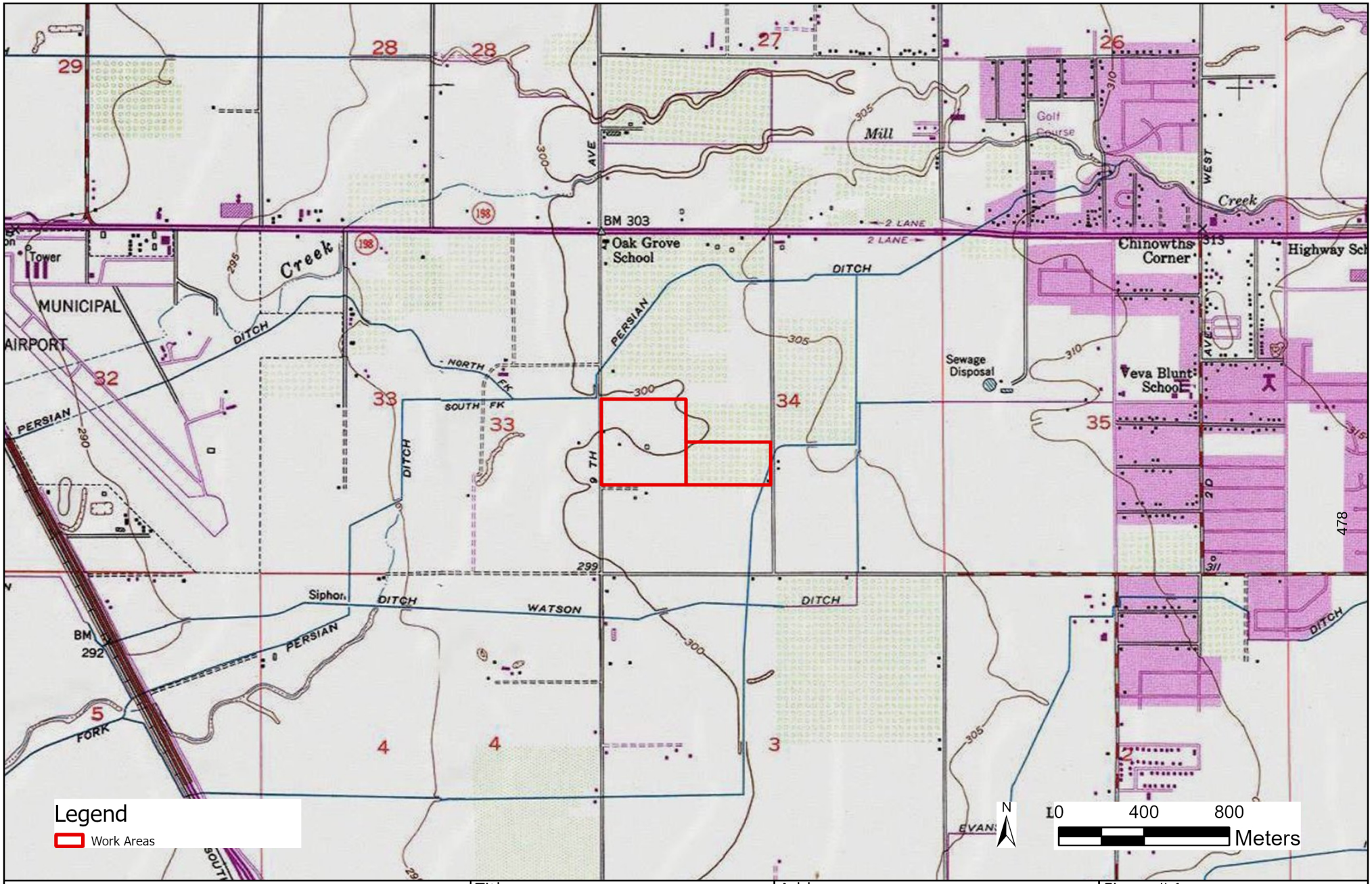

SOAR ENVIRONMENTAL CONSULTING 1322 East Shaw Avenue, Suite 400 Fresno, CA 93710 www.soarhere.com 559.547.8884	Title Visalia Topographic Map Client 4Creeks	Address Subdivision Bounded by Shirk and Tulare roads and Roeben Street. APNs 087-010-006, 087-010-008.	Figure # 1 Topographic Map Revision Date 10/13/2023

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P.O. Box 8
Lemoore, CA, 93245
Phone: (559) 423-3900
spowers@tachi-yokut-nsn.gov

RE: Proposed housing subdivision bounded by Shirk and Tulare roads and Roeben Street, Visalia, CA, 93277. APNs 087-010-006, 087-010-008.

Dear Shana Powers, THPO,

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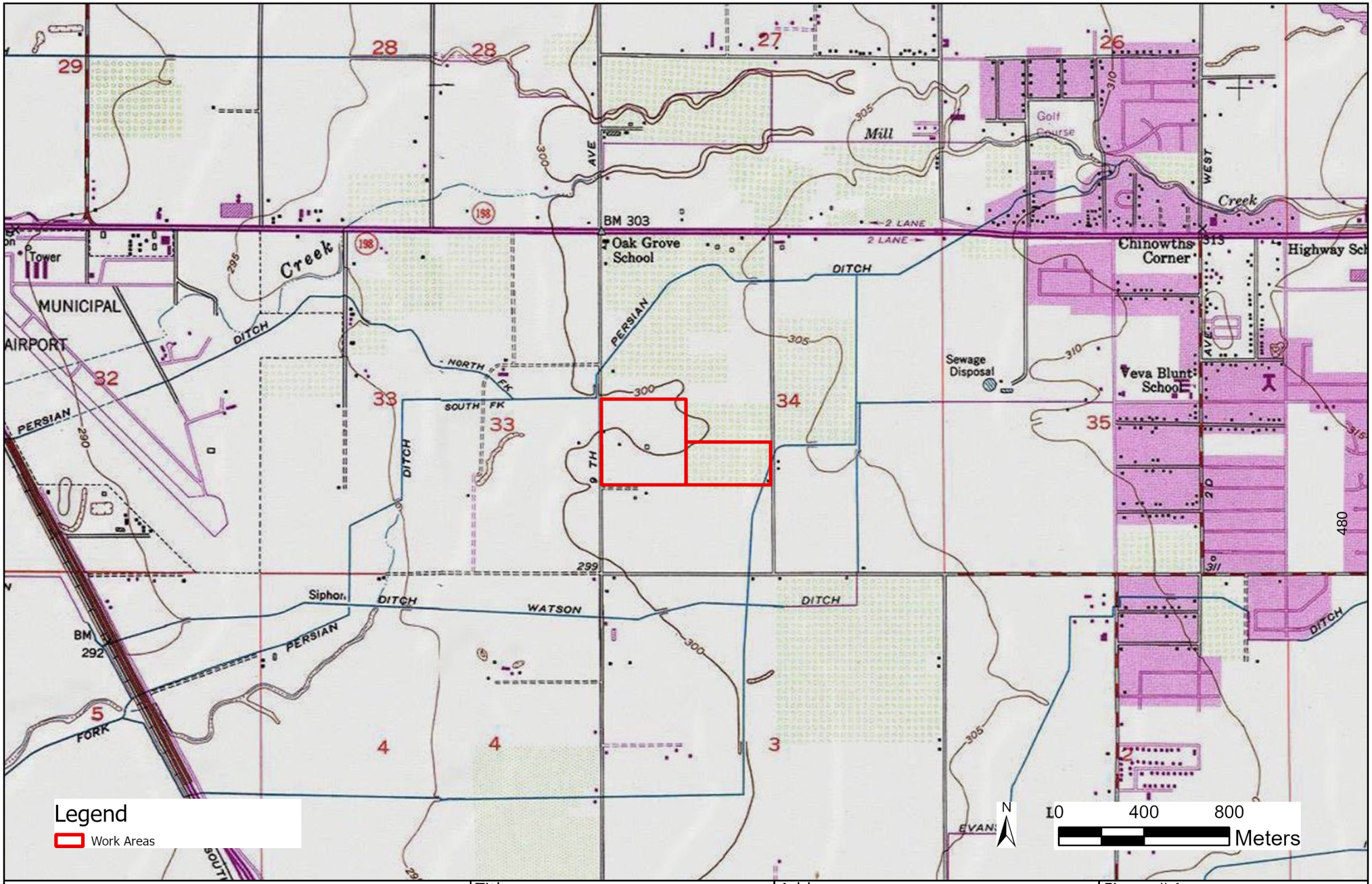

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Monday, December 4, 2023

Tule River Indian Tribe
P.O. Box 589
Porterville, CA, 93258
Phone: (559) 781-4271
neil.peyron@tulerivertribe-nsn.gov

RE: Proposed housing subdivision bounded by Shirk and Tulare roads and Roeben Street, Visalia, CA, 93277. APNs 087-010-006, 087-010-008.

Dear Neil Peyron, Chairperson,

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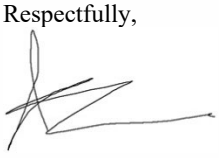

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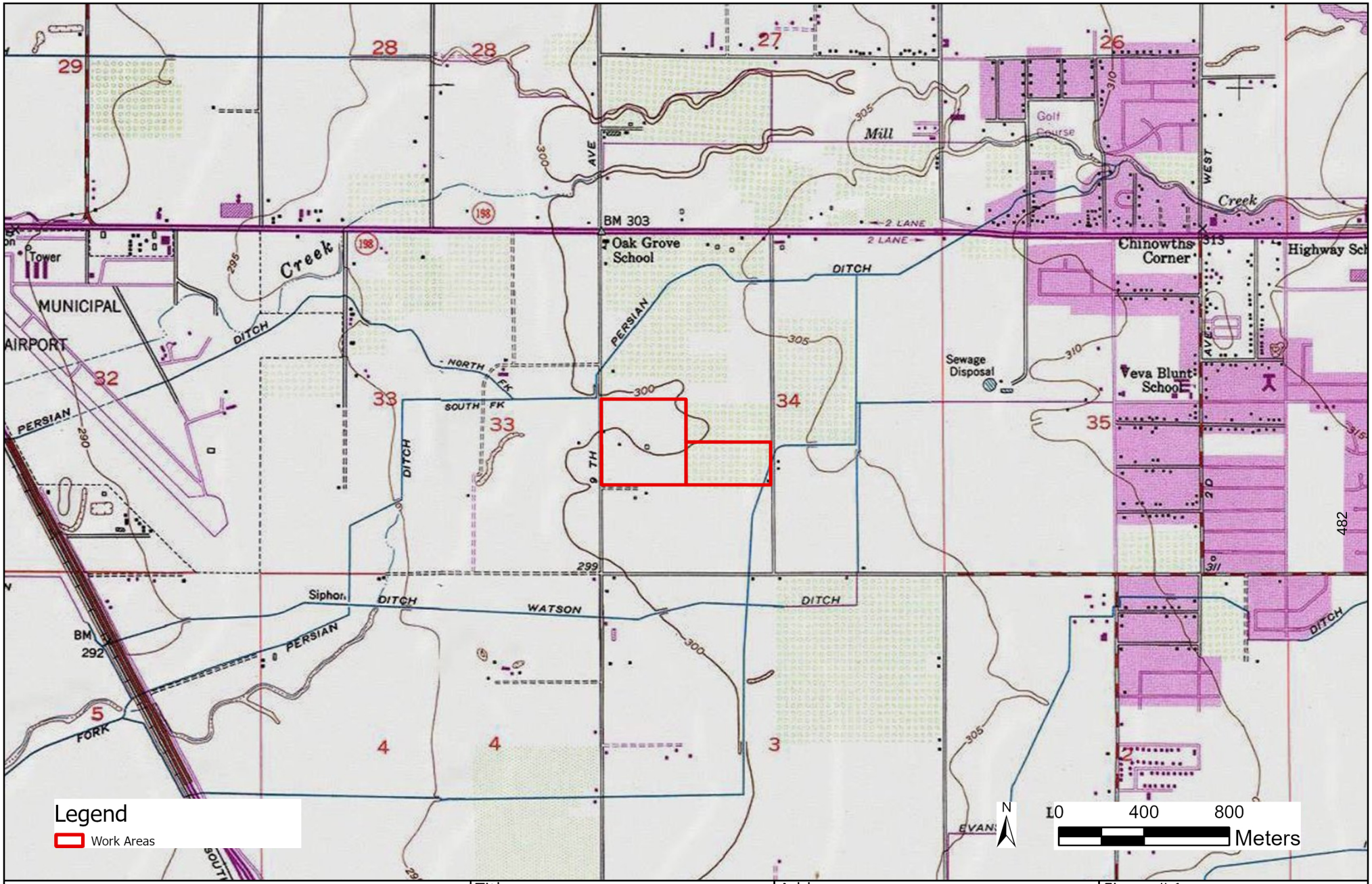

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1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710
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Monday, December 4, 2023

Wuksachi Indian Tribe/Eshom Valley Band
1179 Rock Haven Ct.
Salinas, CA, 93906
Phone: (831) 443-9702
kwood8934@aol.com

RE: Proposed housing subdivision bounded by Shirk and Tulare roads and Roeben Street, Visalia, CA, 93277. APNs 087-010-006, 087-010-008.

Dear Kenneth Woodrow, Chairperson,

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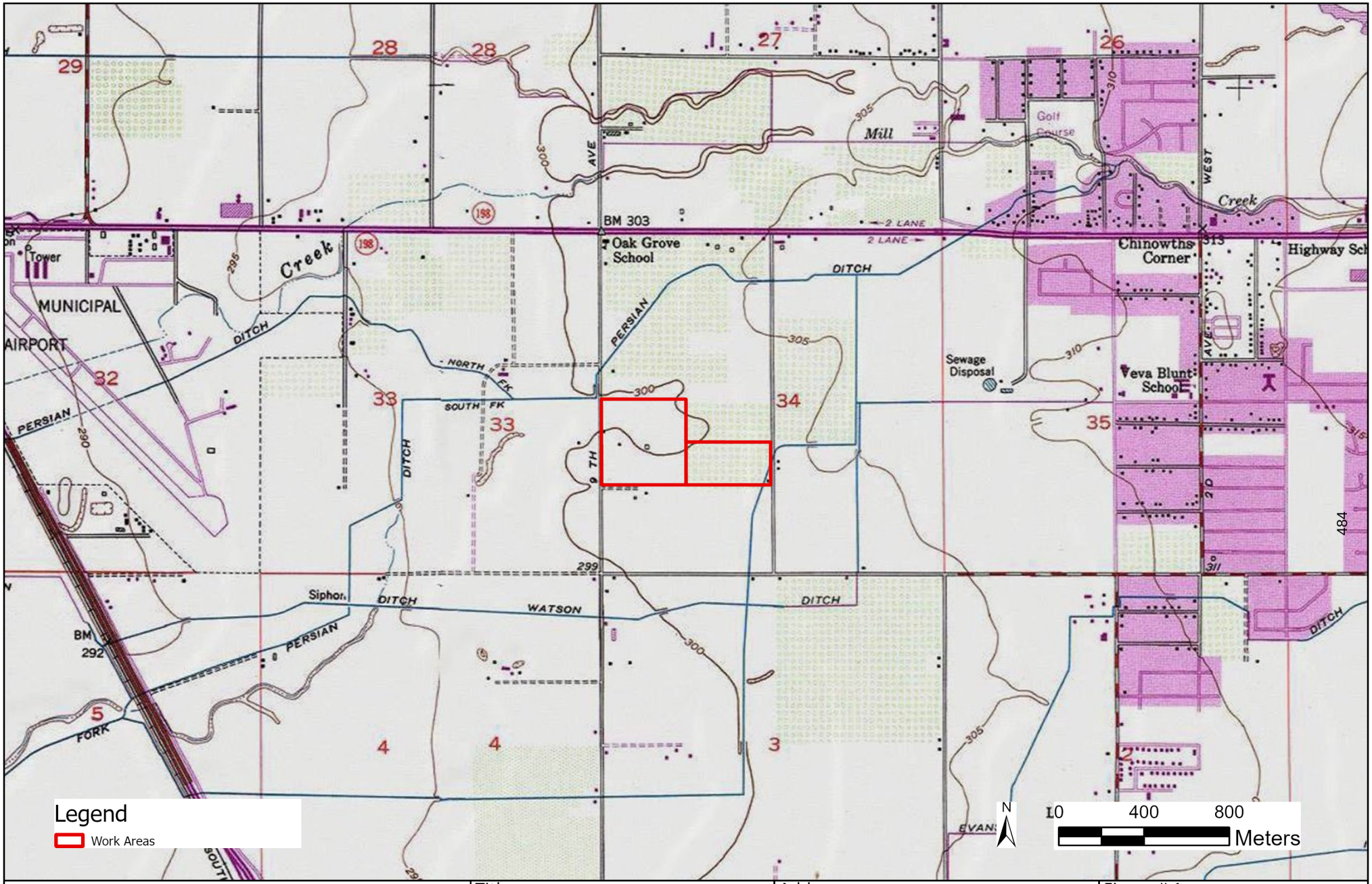


SOAR ENVIRONMENTAL CONSULTING

1322 East Shaw Avenue, Suite 400
Fresno, CA 93710
www.soarhere.com
559.547.8884

Title
Visalia Topographic Map

Client
4Creeks

Address
Subdivision Bounded by Shirk and Tulare roads and Roeben Street. APNs 087-010-006, 087-010-008.

Figure # 1
Topographic Map

Revision Date
10/13/2023

APPENDIX C

Feature and Isolate Forms

State of California □ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # P-54-002177
HRI #
Trinomial CA-TUL-003259H
NRHP Status Code

Other Review Code | Reviewer | Date | Listings

Page 1 **of** 4 ***Resource Name or #:** (Assigned by recorder) South Fork Persian Ditch
P1. Other Identifier: SFPP-23
***P2. Location:** □ **Not for Publication** X **Unrestricted**
***a. County** Tulare **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Visalia **Date** 2021 **T** 19S ; **R** 24E ; SW ¼ **of** NE ¼ **of** SE ¼ **of Sec** 5 ; MD **B.M.**
c. Address 1537 S Roeben St City Visalia Zip 93277
d. UTM: (Give more than one for large and/or linear resources) Zone 11 , 288237 mE/ 4021635 mN
e. **Other Locational Data:** From Selma travel south on Highway 99, 2.4 miles past Exit 198. Site is west of Highway 99 and the railroad tracks and is visible from the road.

***P3a. Description:**
Earthen irrigation canal associated with agricultural activities in the City of Visalia. The canal flows in a northeast to southwest direction until it reaches the concrete headgate at S Roeben St, from that point it passes under S Roeben ST. and turns 90° to continue north. Once past W Howard Court the canal shifts to an east to west alignment before then turning north at W Tulare Ave to connect to the main Persian Ditch. Approximately 20' west of the railroad is a concrete culvert stamped with "1940". Resources are in good condition.

***P3b. Resource Attributes:** (List attributes and codes) HP20 Canal/Aqueduct

***P4. Resources Present:** □ Building X Structure □ Object □ Site □ District □ Element of District □ Other (Isolates, etc.)

P5a. Photograph or Drawing

P5b. Description of Photo: (view, date, accession #) 43° NE @ 288185 mE / 4021621 mN

***P6. Date Constructed/Age and Source:** X Historic □ Prehistoric □ Both

***P7. Owner and Address:**
Persian Ditch Company
15370 Avenue 256
Visalia, CA 93292

***P8. Recorded by:** (Name, affiliation, and address) Heather Froshour
SOAR Environmental Consulting Inc
1322 E. Shaw Ave., Suite 400
Fresno, CA 93710

***P9. Date Recorded:**
11/18/2023

***P10. Survey Type:** (Describe)
Intensive Survey

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Froshour, Heather
2023 Phase I Cultural Resources Assessment Elliot Housing Subdivision Project, Visalia, CA 93277, Assessor Parcel Numbers 087-010-006, and 087-010-008 Tulare, County, California

***Attachments:** □NONE X Location Map □Continuation Sheet □Building, Structure, and Object Record
□Archaeological Record □District Record X Linear Feature Record □Milling Station Record □Rock Art Record
□Artifact Record □Photograph Record □ Other (List):

L1. Historic and/or Common Name: South Fork Persian Ditch
L2a. Portion Described: □ Entire Resource X Segment □ Point Observation **Designation:**
b. Location of point or segment: WGS 84 **Zone:** 11N; **UTM:** 288255 mE / 4021770 mN (N end)
288182 mE / 4021627 mN (S end)

L3. Description:
The recorded segment measures approximately 518 feet long by 15 feet wide by 4 feet deep and is situated at an elevation range between 305 feet and 306 feet above sea level. During the current investigation, ASM investigated only that portion of the linear resource within the Project area, which runs in an east-west direction for approximately 0.75 mi. The ditch is earthen in construction and has contemporary irrigation features associated with it (i.e., concrete culverts, corrugated sheet metal culverts, sluice gates).

L4. Dimensions:
a. Top Width: approx. 15 feet
b. Bottom Width: approx. 5 feet
c. Height or Depth: approx. 4 feet
d. Length of Segment: approx. 518 feet

L4e. Sketch of Cross-Section: None

L5. Associated Resources: Unknown

L6. Setting: The resource is in a suburban/rural setting on the west edge of the city of Visalia with orchards to the north, residential neighborhoods to the east and south, and corn fields to the west.

L7. Integrity Considerations:

Period of Significance
The ditch was constructed between 1854 and 1856 by farmers and other water users holding stock in what is now the Persian Ditch Company, created in ca. 1936, to transport water from Mill Creek for irrigation purposes. If eligible, the South Fork Persian Ditch would have a period of significance from approximately 1854 to present. This date range is based on historic maps of the City of Visalia and Tulare County.

Significance
South Fork Persian Ditch is potentially significant under **Criterion A.** The ditch is a mostly unlined earthenware irrigation ditch used by the city of Visalia. The ditch does not represent a unique association with agricultural activities at the local, state, or national levels. The ditch is associated with events that have made a significant contribution to the broad patterns of our history as part of the earliest irrigation ditch systems in Visalia. South Fork Persian Ditch is not significant under **Criterion B**. because the ditch is not associated with the lives of significant persons in our past. The design and construction, as well as modifications, were not by any one individual or individuals in the city of Visalia with particular significance at the local, state, or national levels. South Fork Persian Ditch is not significant under **Criterion C**. because the use of the earth in the construction of irrigation ditches has been common for over 150 years in the region and has been used since the planting of agricultural fields in Visalia. The ditch does not embody the distinctive characteristics of a type, period, or method of construction, nor does it represent the work of a master, possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction. The ditch is constructed of common materials and has been repaired and modified using typical methods and technologies. South Fork Persian Ditch is not significant under **Criterion D**. because the ditch is not a significant or likely source of important information about the construction of irrigation ditches, agricultural fields, or the materials or technologies employed in their construction and operation.

Integrity
The South Fork Persian Ditch is potential significant under Criterion A and not significant under Criteria B-D. The ditch, however, have experienced changes in its alignment, alterations to its immediate and landscape surroundings (including suburbanization along certain of their segments and the construction of modern bridge crossings), and the replacement of its original water control features with modern equipment (such as concrete culverts and metal gates). The ditch therefore lacks integrity of original location, setting, design, materials and feeling and it cannot convey its historical association and is therefore not eligible for the NRHP. Integrity of location design, materials, and workmanship, setting, feeling, and association is relatively low within the period of significance.

State of California □ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LINEAR FEATURE RECORD

Primary# P-54-002177
HRI #
Trinomial CA-TUL-003259H

Resource Name or #: South Fork Persian Ditch

L8a. Photograph, Map or Drawing

L8b. Description of Photo, Map, or Drawing: South Fork Persian Ditch, north portion of recorded segment with modern concrete culvert, facing northeast

L9. Remarks: None

L10. Form Prepared by:
Heather Froshour
SOAR Environmental Consulting Inc
1322 E. Shaw Ave., Suite 400
Fresno, CA 93710

L11. Date: 11/18/2023

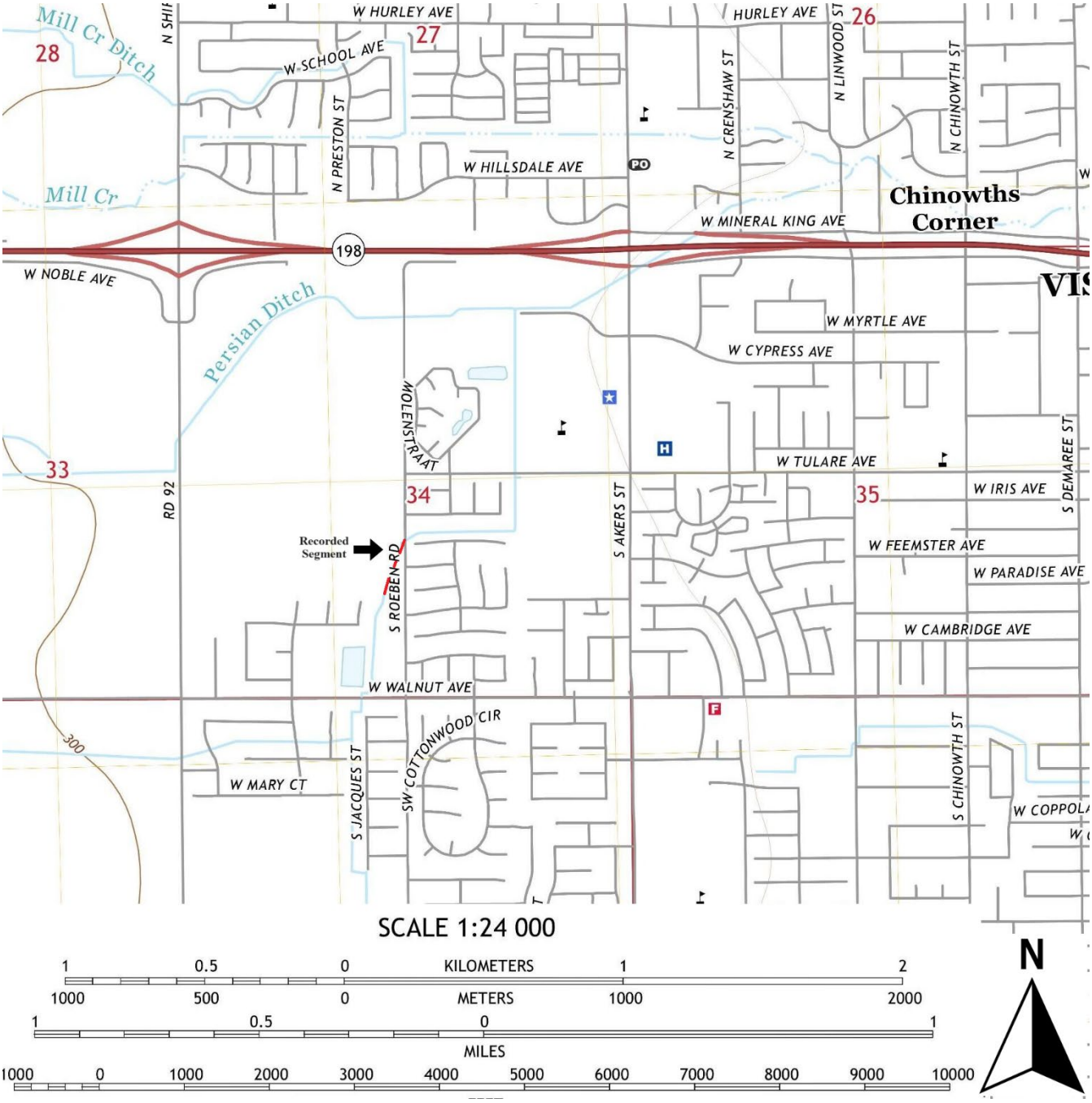
State of California □ Natural Resources Agency Primary #
DEPARTMENT OF PARKS AND RECREATION HRI#

LOCATION MAP

Trinomial

Page 4 of 4 ***Resource Name or #**_South Fork Persian Ditch

***Map Name:** USGS Topographic quadrangle Visalia ***Scale:** 1:24,000 ***Date of map:** 2021



State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary # P-54-002177
HRI #
Trinomial CA-TUL-003259H
NRHP Status Code

Other Listings
Review Code | Reviewer | Date

*Resource Name or #: South Fork Persian Ditch

P1. Other Identifier:

*P2. Location:
a. County: Tulare ☐ Not for Publication ☒ Unrestricted
b. USGS 7.5' Quad: Visalia, CA Date: 1949 (1969) T 19S; R 24E; Sec 3 M.D. B.M.
c. Address: N/A
d. UTM WGS 84 Zone: 11N; Head: 288049 mE/ 4020604 mN
Terminus: 285181 mE/ 4020647 mN
e. Other Locational Data: Assessor Parcel Number 119-022-041

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

South Fork Persian Ditch is a mostly unlined earthen irrigation ditch, V-shape with steep side earthen berms to either side, and concrete lined when the ditch orientation turns 90 degrees. The ditch branches off from Watson Ditch and flows south and west for approximately 2.5 miles before terminating at the Persian Ditch. The ditch is located in a predominately agricultural setting, though the start of the ditch is located within a single-family residential neighborhood. The ditch is consistently maintained and is still currently for agricultural irrigation. The South Fork Persian Ditch is first visible on Thompson's 1892 map and 1927 USGS topographic map.

*P3b. Resource Attributes: HP20 Canal/Aqueduct

*P4. Resources Present: ☐Building ☒ Structure ☐Object ☐Site ☐District ☐Element of District ☐Other (Isolates, etc.)

P5a. Photo or Drawing:

P5b. Description of Photo: South Fork Persian Ditch, facing south

*P6. Date Constructed/Age and Sources: ☒Historic ☐Prehistoric ☐Both

*P7. Owner and Address:
Persian Ditch Company
15370 Avenue 256
Visalia, CA 93292

*P8. Recorded by:
Consuelo Y. Sauls
Taylored Archaeology
6083 N. Figarden Dr., Ste. 616
Fresno, CA 93722

*P9. Date Recorded: 7/9/2022

*P10. Survey Type: Intensive Survey

*P11. Report Citation:
Sauls, Consuelo Y.
2022 *Cultural Resource Assessment for Barr and Wood Tentative Subdivision Map Project, Tulare County* Taylored Archaeology, Fresno, California. Prepared for 4Creeks, Inc. Visalia, California.

*Attachments: ☐NONE ☒Location Map ☐Sketch Map ☐Continuation Sheet ☐Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☒Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐ Other (List):

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
LINEAR FEATURE RECORD

Primary # P-54-002177
HRI #
Trinomial CA-TUL-003259H

 Resource Name or #: South Fork Persian Ditch

L1. Historic and/or Common Name: South Fork Persian Ditch
L2a. Portion Described: ☐ Entire Resource ☒ Segment ☐ Point Observation **Designation:**
b. Location of point or segment: WGS 84 **Zone:** 11N; **UTM:** 288096 mE/ 4020414 mN (S end)
288047 mE/ 4020604 mN (N end)

L3. Description: This recorded segment of the South Fork Persian Ditch measures approximately 770 linear feet and is an unlined V-shared earthen irrigation ditch with earthen berms to either side. The north end of this recorded segment runs west to east before turning 90 degrees to the south and terminating at an unnamed earthern bridge over the ditch. Two 90 degree turns at the northern end of this recorded segment are concrete-lined at the turns to prevent erosion and scouring.

L4. Dimensions:

a. Top Width: approx. 15 feet
b. Bottom Width: approx. 5 feet
c. Height or Depth: approx. 4 feet
d. Length of Segment: approx. 770 feet

L4e. Sketch of Cross-Section: None

L5. Associated Resources: Unknown

L6. Setting: The resource is in a rural setting surrounded by wheat fields to the east and west, and single family residences to the north.

L7. Integrity Considerations: This recorded segment of the South Fork Persian Ditch has been twice modified from its original northeast to southwest alignment: first it was modified to a north to south alignment between 1937 and 1946 (Lodge 2020; USAAA 1946) and second, the northern-most portion of the ditch was modified to a west to east alignment between 2003 and 2004 (Google Earth (2022).

L8a. Photograph, Map or Drawing

L8b. Description of Photo, Map, or Drawing South Fork Persian Ditch, northern portion of recorded segment, facing east.

L9. Remarks:

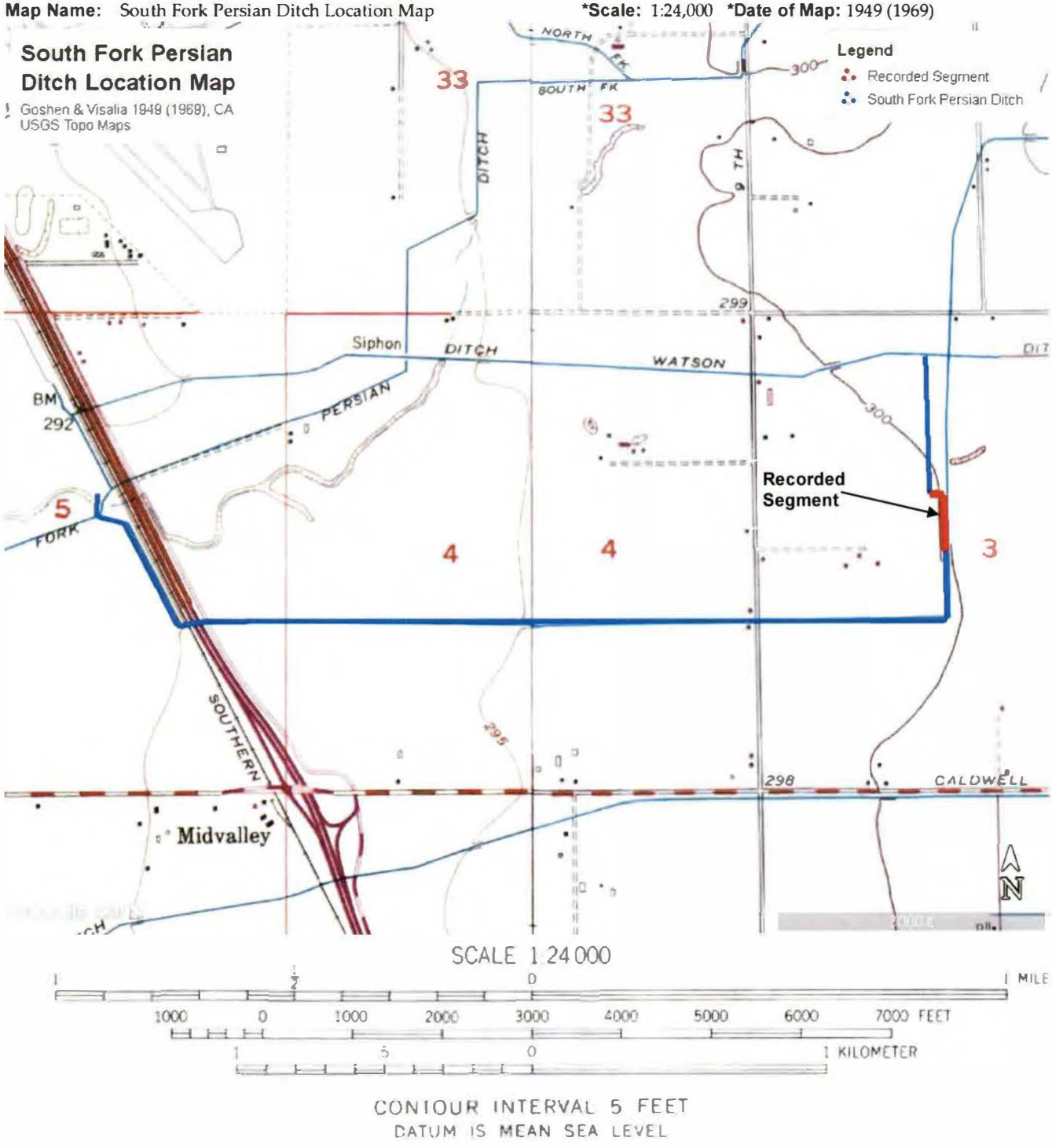
L10. Form Prepared by:
Consuelo Sauls
Taylored Archaeology
6083 N. Figarden Dr., Ste. 616
Fresno, CA 93722

L11. Date: 7/9/2022

State of California — The Resources Agency DEPARTMENT OF PARKS AND RECREATION **LOCATION MAP**	Primary # P-54-002177 HRI# Trinomial CA-TUL-003259H

Page 3 **of** 3 ***Resource Name or #:** South Fork Persian Ditch

Map Name: South Fork Persian Ditch Location Map ***Scale:** 1:24,000 ***Date of Map:** 1949 (1969)



SCALE 1 24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 5 FEET
DATUM IS MEAN SEA LEVEL

DPR 523J (1/95) ***Required information**

P-54-002177

CA-TUL-003259H

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # P-54-002178
HRI #
Trinomial
NRHP Status Code
Other Listings
Review code Reviewer Date

Page 1 of 2 *Resource Name or #: (Assigned by recorder)
P1. Other Identifier: SFPP-23
*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Tulare
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Goshen Date 1969 T 19S; R 24E; SW 1/4 of NE 1/4 of SE 1/4 of Sec 5; MD B.M.
c. Address 334C City Zip
d. UTM: (Give more than one for large and/or linear resources) Zone 11, 285540 mE/ 4020045 mN
e. Other Locational Data (e.g., parcel #, legal description, directions to resource, elevation, etc., as appropriate):
From Selma travel south on Highway 99, 2.4 miles past Exit 198. Site is west of Highway 99 and the railroad tracks and is visible from the road.

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
Earthen irrigation canal associated with orchard. Canal flows in an east to west direction until it reaches the concrete headgate, from that point it turns 90° and continues north. Approximately 20' west of the railroad is a concrete culvert stamped with "1940". Resources are in good condition.

*P3b. Resource Attributes: (List attributes and codes) HP20
*P4. Resources Present: ☐ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo (view, date, accession #) East; 4-26-95; SFPP-CW-3-24

*P6. Date Constructed/Age and Sources: ☒ Historic
☐ Prehistoric ☐ Both

*P7. Owner and Address:

*P8. Recorded by (Name, affiliation, and address): Carrie D. Wills & Allen Estes; William Self Associates 4 Orinda Way Suite 200A Orinda, CA 94563

*P9. Date Recorded: April 26, 1995

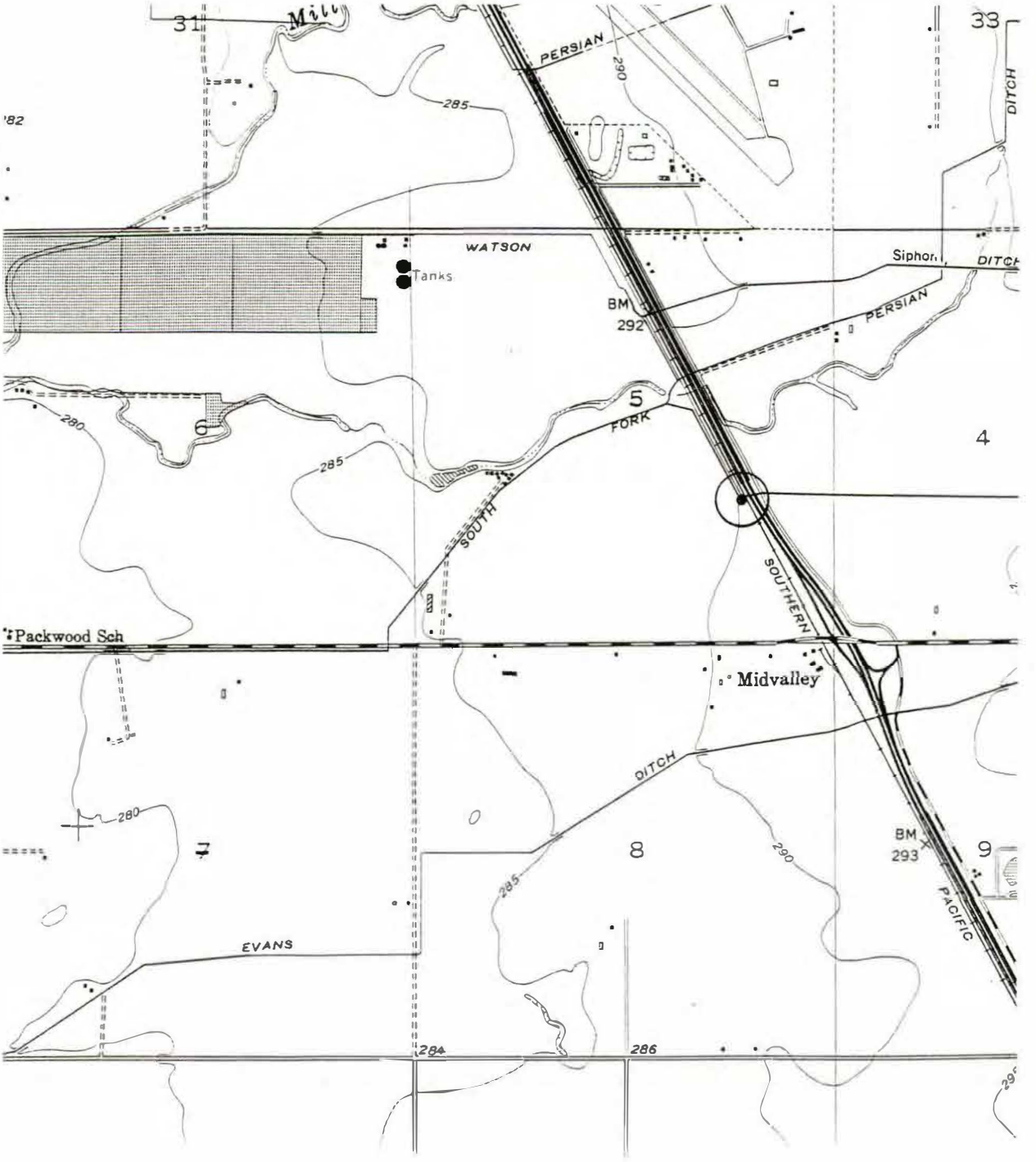
*P10. Survey Type: (Describe)
Reconnaissance.

*P11. Report Citation (Cite survey report and other sources, or enter "none."):
Class I Overview Santa Fe Pacific Pipeline Partners, L.P., Proposed Concord to Colton Pipeline Project.

*Attachments: ☐ NONE ☒ Location Map ☐ Sketch Map ☐ Continuation Sheet ☐ Building, Structure, and Object Record
☐ Archaeological Record ☐ District Record ☐ Linear Resource Record ☐ Milling Station Record ☐ Rock Art Record
☐ Artifact Record ☐ Photograph Record ☐ Other (List):

DPR 523A (1/95) *Required Information

P-54-002177
CA-TUL-003259H



GOSHEN, CALIF.

7.5' QUADRANGLE

1949

PHOTOREVISED 1969

0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 5 FEET

DATUM IS MEAN SEA LEVEL

N

Santa Fe Pacific Pipeline

Concord to Colton Project

Location Map

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P-54-002177
CA-TUL-003259H

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary # P-54-002177
HRI #
Trinomial
NRHP Status Code
Other Listings
Review code _____ Reviewer _____ Date _____

Page 1 of 2 *Resource Name or #: (Assigned by recorder) South Fork Persian Ditch
P1. Other Identifier: SFPP-22
*P2. Location: ☐ Not for Publication ☒ Unrestricted *a. County Tulare
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
*b. USGS 7.5' Quad Goshen Date 1969 T 19S; R 24E; NE 1/4 of SW 1/4 of NE 1/4 of Sec 5; MD B.M.
c. Address 334C City Zip
d. UTM: (Give more than one for large and/or linear resources) Zone 11, 285305 mE/ 4020495 mN
e. Other Locational Data (e.g., parcel #, legal description, directions to resource, elevation, etc., as appropriate):
From Selma travel south on Highway 99, 2.1 miles past 198 exit. Site is west of Highway 99 and railroad tracks.

*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
Earthen irrigation ditch flowing east to west, associated with an orchard and other agricultural land. A galvanized pipe culvert supports the railroad over the ditch. The ditch goes underground west of Highway 99 and resurfaces on the east side of the highway. Approximately 250' west of the railroad tracks is a concrete headgate. Large oak trees and dense riparian vegetation grow on the banks of the ditch. The resources are in good ocndition.

*P3b. Resource Attributes: (List attributes and codes) HP20
*P4. Resources Present: ☐ Building ☒ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo (view, date, accession #) West; 4-26-95; S. FPP-CW-3-21

*P6. Date Constructed/Age and Sources: ☒ Historic
☐ Prehistoric ☐ Both

*P7. Owner and Address:

*P8. Recorded by (Name, affiliation, and address): Carrie D. Wills & Allen Estes; William Self Associates 4 Orinda Way Suite 200A Orinda, CA 94563

*P9. Date Recorded: April 26, 1995

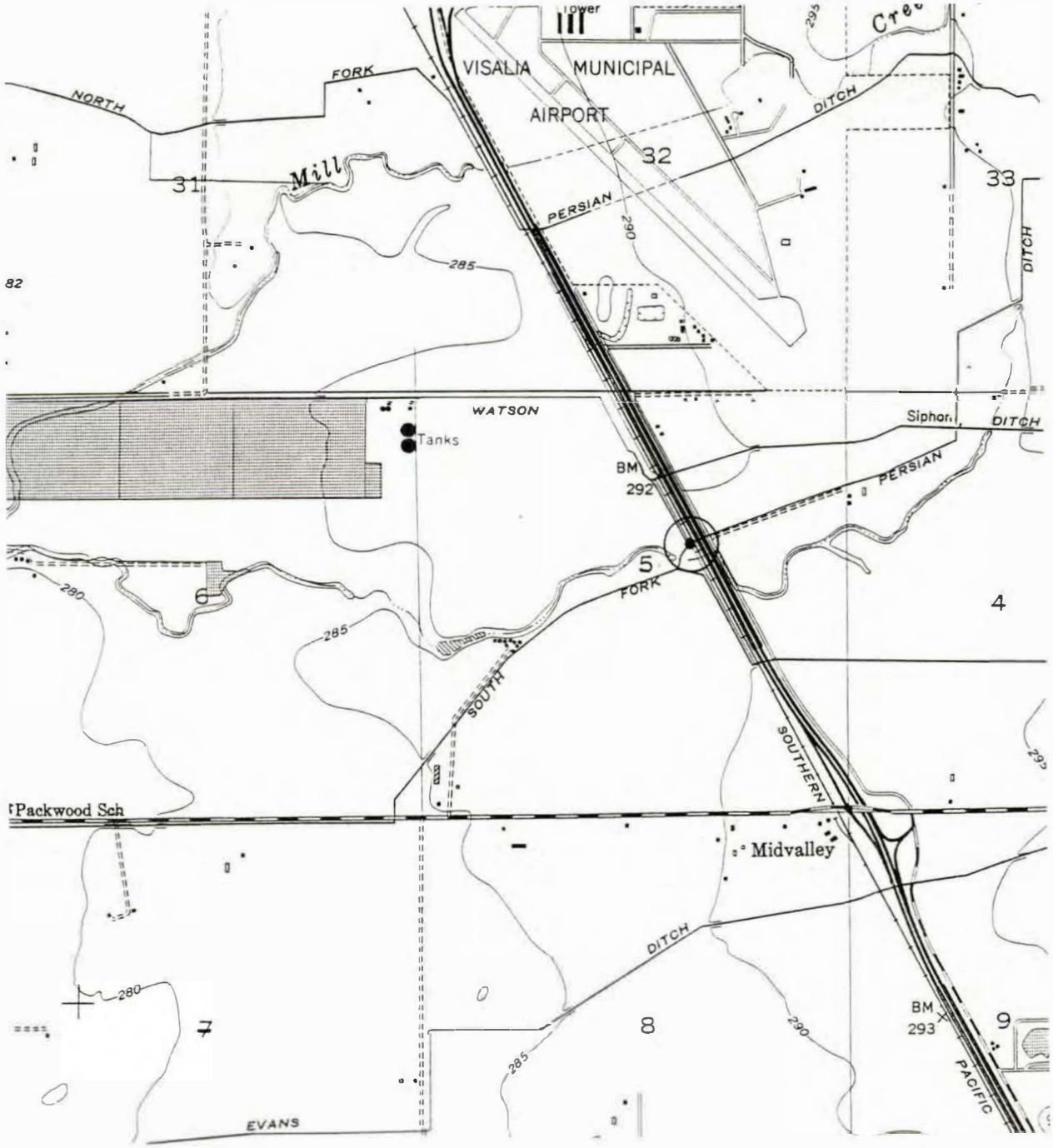
*P10. Survey Type: (Describe)
Reconnaissance.

*P11. Report Citation (Cite survey report and other sources, or enter "none."): Class I Overview Santa Fe Pacific Pipeline Partners, L.P., Proposed Concord to Colton Pipeline Project.

*Attachments: ☐ NONE ☒ Location Map ☐ Sketch Map
☐ Continuation Sheet ☐ Building, Structure, and Object Record
☐ Archaeological Record ☐ District Record ☐ Linear Resource Record
☐ Milling Station Record ☐ Rock Art Record
☐ Artifact Record ☐ Photograph Record ☐ Other (List):

DPR 523A (1/95) *Required Information

P-54-002177
CA-TUL-003259H



GOSHEN, CALIF.

7.5' QUADRANGLE
1949
PHOTOREVISED 1969

0 1000 2000 3000 4000 5000 6000 7000 FEET

1 0 1 KILOMETER

N

CONTOUR INTERVAL 5 FEET
DATUM IS MEAN SEA LEVEL

Santa Fe Pacific Pipeline
Concord to Colton Project

Location Map

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Corporate Headquarters
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710
www.soarhere.com • 559.547.8884

CULTURAL ISOLATED FIND RECORD
Resource ID (Isolated Find #): IS-01-2023
Project Name: 4Creeks Elliot SJVH

Visit Details	
Isolated Find Number	IF-01-2023
Project Name	4Creeks Elliot SJVH
Project Number	N/A
Date Identified	11/18/2023
Recorded By (name[s], affiliation)	Heather Froshour, SOAR Environmental
Artifact(s) Collected?	No
UTMs (or other locational information):	WGS 84 11N 287998 mE / 4021717 mN
Archaeological Data: (include artifact description[s], dimensions, setting and relevant comments)	
Ceramic, refined earthenware, white glaze with blue band, thick possible serving dish/platter sherd	

Attachments:

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CULTURAL ISOLATED FIND RECORD
Resource ID (Isolated Find #): IS-02-2023
Project Name: 4Creeks Elliot SJVH

Visit Details	
Isolated Find Number	IF-02-2023
Project Name	4Creeks Elliot SJVH
Project Number	N/A
Date Identified	11/18/2023
Recorded By (name[s], affiliation)	Heather Froshour, SOAR Environmental
Artifact(s) Collected?	No
UTMs (or other locational information):	WGS 84 11N 287768 mE / 4022028 mN
Archaeological Data: (include artifact description[s], dimensions, setting and relevant comments)	
Ceramic, refined earthenware body sherd, cream/yellow colored glaze	

Attachments:

Corporate Headquarters
1322 E. Shaw Avenue, Suite 400 Fresno, CA, 93710
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CULTURAL ISOLATED FIND RECORD
Resource ID (Isolated Find #): IS-03-2023
Project Name: 4Creeks Elliot SJVH

Visit Details	
Isolated Find Number	IF-03-2023
Project Name	4Creeks Elliot SJVH
Project Number	N/A
Date Identified	11/18/2023
Recorded By (name[s], affiliation)	Heather Froshour, SOAR Environmental
Artifact(s) Collected?	No
UTMs (or other locational information):	WGS 84 11N 287556 mE / 4021852 mN
Archaeological Data: (include artifact description[s], dimensions, setting and relevant comments)	
Ceramic, refined earthenware sherd, light cream colored glaze, possible platter sherd	

Attachments:

APPENDIX D

Staff Resume

Heather Froshour

Senior Archaeologist

12 Years of Relevant Experience

Biography

Ms. Froshour's background emphasises archaeology, anthropology, and cultural resources monitoring.

Education

- M.A. in Historical Archaeology, November 2014. University of Leicester, Leicester, UK.
- B.A. in Anthropology/Geography, June 2010. University of Southern Maine, Gorham/Portland, ME.

Professional Development

- 8 hr training in Wilderness Firest Aid (Sierra Rescue International)
- Adult, Child, Infant C.A.R.E. CPR & First Aid Training (Sierra Rescue International)
- Driver/Operator

Professional Affiliations

- Register of Professional Archaeologists
- CHRIS Qualified Archaeologist
- Society of American Archaeology - SAA
- Society of Historical Archaeology - SHA

Technical Expertise

- Lithic Analysis
- Technical Report Writing
- Lab analysis
- Cultural Monitoring
- Site Surveying – Phases 1-3
- Excavation
- Metal Detection
- Auguring
- Research
- MS Office
- Collector for ArchGIS

Practical Experience

Ms. Froshour is a registered professional archaeologist and cultural resources specialist with extensive experience in field and technical work. This experience including cultural resources monitoring, site survey, phase 1-3 excavations, and anthropology on various projects throughout the United States. She has a combined 8 years of experience in academic, consulting, museum, and public archaeology, and has worked in CRM since 2013 throughout various regions of the United States. Primary states of focus have included Maine, Massachusetts, Louisiana, Georgia, Virginia, Arizona, and California. She routinely assesses cultural resources for project related effects and their significance, provides cultural resource mitigation services, directs archaeological surveys of both excavation and pedestrian methods, and prepares documents for Section 106 of the NHPA, CEQA, and NRHP. Ms. Froshour also has experience working alongside trial monitors through survey with in the Colorado River and Mendocino National Forest regions. She has worked alongside the USDA Forest Service to provide post-fire monitoring and mitigation recommendations.

Ms. Froshour is certified by the Register for Professional Archeologists (Registrant ID: 5457).

Highlighted Projects

California High-Speed Rail Authority Construction Package 1, Cultural Resources Support, March 2023-Present
Heather is the Cultural Resources Support for this construction package. As such, she oversees staff archaeologist cultural reporting, monitoring, and artifact processing on the 33-mile right of way in Fresno and Madera Counties.

SOAR Environmental Consulting, Senior Archaeologist, January 2023-Present
Senior Archaeologist, Phase I Cultural Resources Evaluation, Yokuts Valley, California
Provided desktop research, tribal consultation, and full Phase 1 report for the construction a new saber transmission tower to accompany existing USACE and CAL FIRE structures on a 100 square feet area on top of Bear Mountain in Fresno County.

Senior Archaeologist, Phase I Cultural Resources Evaluation, Shirley Meadows, California
Provided desktop research, tribal consultation, and full Phase 1 report with DPR forms for the construction a new saber transmission tower, and concrete masonry shelter enclosed in an 8 foot tall wire fence on a 100 square feet area on top of Shirley Peak in Kern County.

Senior Archaeologist, Phase I Cultural Resources Evaluation, Mountain Ranch, California
Provided desktop research, tribal consultation, and full Phase 1 report with DPR forms for the construction a new saber transmission tower, and propane tank enclosed in an 8 foot tall wire fence on a 100 square feet area on top of Quiggs Mountain in Calaveras County.

Senior Archaeologist, Phase I Cultural Resources Assessment, Glennville, California
Provided desktop research, site pedestrian survey, tribal consultation, and full Phase 1 report for the construction a new saber transmission tower, CMU block shelter, and parking lot enclosed in a wire fence on a 100 square feet area on top of Mount Pheasant in Kern County.

Senior Archaeologist, Phase I Cultural Resources Assessment, Bakersfield, California
Provided desktop research, site pedestrian survey, and full Phase 1 report for rezoning project and multiple family residence construction project.

Senior Archaeologist, Phase I Cultural Resources Assessment, Joshua Tree, California
Provided desktop research, site pedestrian survey, and full Phase 1 report for upscale yurt campground construction project.

Post Fire Fuels and Priority Heritage Asset Assessment Surveys, Grindstone Region, CA (June 2022-December 2022). The Great Basin Institute, Archaeological Crew Lead.
Phase I pedestrian surveys and site recording on post-wildfire burned landscapes within the Mendocino National Forest. Overseeing a small crew in the field survey, site recording, and completion of extensive USDA Forest Service site reports and mapping of cultural resources in the area. Ensured that all pertinent data is documented and reported to Forest Services standards with specific attention to current field conditions, disturbances, vegetation, terrain, and geospatial data of cultural resources. Provided day to day support of the crew and worked as a liaison between the Great Basin Institute and Mendocino National Forest personnel. Conducted Section 106 and Section 110 Priority Heritage Asset assessments of archaeological resources throughout the eastern region of the Mendocino. Assisted in final Phase 1 survey report writing.

Various Cultural Resource Management Survey Projects, GA & NC (June 2021- April 2022). TerraXplorations, Inc., Archaeology Field Director.
Phase I shovel testing in various locations throughout Georgia, in addition to a single project just outside of Raleigh, NC. These projects include road, bridge, and culvert improvement surveys as well as solar tract, farm, and generator surveys. All projects were conducted in 30m intervals along transect within the ESB of the survey area. All positive shovel tests were then delineated in 15m interval cruciform to determine site boundaries. Several projects required the use of metal detection grids in order to thoroughly survey areas of known Civil War activity. A number of projects for the Georgia Department of Transportation also required the probing of areas within the project ESB that were located within 1km from a known cemetery, with potential anomalies delineated and all results fully recorded. Duties include overseeing and directing field crews in locating, collecting, recording, and interpreting data from the survey. The supervision of personnel, including aiding in hiring and firing, performance reviews, training, work allocation, and problem resolution. Ensuring safe work practices and directing morning safety meetings to address potential hazards and safety concerns in the areas scheduled for fieldwork that day. Participation in field and office meetings with PIs and company owners to address scheduling and management procedures based on client needs as well as those of state and federal regulations and requirements.

Cultural Resource Management Survey Project, VAM-1 and Glasgow Pipeline Replacement, VA (May 2021-June 2021). TerraXplorations, Inc., Archaeology Crew Chief.
Phase I shovel test excavations from the replacement of the VAM-1 and Glasgow natural gas pipelines in the Blue Ridge Mountains, near the Appalachian Trail. Evaluated and conducted field work in various conditions in primarily mountainous terrain. Under direct supervision helped to manage and organize field crew in order to complete the project in a timely and efficient manner. Maintained field equipment and assisted in the writing and compilation of

all field paperwork. Personally in charge of the majority of all mappings of and oversight of field crew for sites throughout the project area.

Various Cultural Resource Management Survey Projects, LA & MS (August 2020-May 2021). TerraXplorations, Inc., Archaeology Field Technician.
Phase I shovel test excavations for bank mitigation in North Eastern Mississippi along the Buttahatchee River. Phase III survey of two projects; the historic St. Amelia Plantation in Welcome, Louisiana and an unnamed prehistoric village in Plaquemine, Louisiana. The phase III projects both required excavating the foundations of various structures, and in the case of the prehistoric site excavating and mapping postholes within pits. The projects also required drawing plan views, and stratigraphic profiles, as well as feature and level write-ups. Unit excavations included 1mx1m to 3mx3m units, with a few requiring the extension of existing units to chase out observed features and artifact clusters.

Various Cultural Resource Management Survey Projects, ID & WI (June 2020 -July 2020). Tetra Tech, Inc., Archaeology Field Technician.
Phase I pedestrian surveying of various wind and solar farm projects throughout corn and soybean fields.

Cultural Resource Management Survey, Acadiana to Gillis, LA (January 2020-March 2020). BGE, Inc., Archaeology Field Technician.
Phase I shovel test excavations of proposed natural gas pipeline between Acadian and Gillis, Louisiana. This project entailed the excavation of 30mx30m units with distance varying based on HPA and LPA guidelines (a spacing of 30m to 50m respectively). A requirement of the survey was to maintain daily investigation point forms for individual shovel test units. In addition to this, it was required to aid in recording artifacts and photos of sites found throughout the project.

Various Cultural Resource Management Survey Projects, MN & IA (November 2019-December 2019). In Situ Archeological Consulting LLC, Archaeology Field Technician.
Phase I pedestrian surveying of various natural gas and cellular tower projects, as well as Phase II field work entailing the excavation of 45cmX45cm test units and GPS data collection. The projects also occasionally required the writing of site forms, and research for future projects at the Minnesota SHPO collections.

Cultural Resource Management Survey, Ten West Link Project, CA & AZ (August 2019-October 2019). POWER Engineers Inc., Archaeology Field Technician.
Phase I pedestrian survey of the proposed 500 kV transmission line connecting electrical substations in Tonopah, Arizona and Blythe, California. This project entailed working in one of five teams, and often included 1-2 tribal monitors from the Colorado River Indian Tribes. The right of way crews used a 400ft buffer for the corridor, with each team using a 15m spread to survey the proposed transmission line. This survey required the use of a Trimble GPS system to navigate the corridor and plot both isolate and site locations for GIS and recording crew use. As part of the recording crew later in the survey, it was also required to conduct thorough site analysis and recordation via site forms and Trimble points of each observed artifact and feature, both historic and prehistoric.

Authored Publications

2023 Froshour, Heather. “Phase I Cultural Resources Evaluation: 30811 Bear Mountain Rd., Yokuts Valley, California.”

2023 Froshour, Heather. “Phase I Cultural Resources Evaluation: Shirley Peak, Rd. 622, Kern County, California.”

2023 Froshour, Heather. “Phase I Cultural Resources Evaluation: Sierra Vista Lookout., Quiggs Mountain, Mountain Ranch, California.”

2023 Froshour, Heather. “Phase I Cultural Resources Evaluation: Granite Rd., Mount Pheasant, Glennville, California.”

2023 Froshour, Heather. “Phase I Cultural Resources Assessment: 4415 Wilson Rd., Bakersfield, California.”

2023 Froshour, Heather. “Cultural Resources Desktop Assessment: 1941 N. Golden State Blvd., Fresno, California."

2023 Froshour, Heather. “Phase I Cultural Resources Assessment: 3174 Bonair Ave., Joshua Tree, California.”

2023 Froshour, Heather. “Cultural Resources Desktop Assessment: 3200 Rio Linda Blvd., Sacramento, California."

2023 Hawley, Maria and Froshour, Heather. “Cultural Resources Assessment, 18644 16th Ave., Stratford, California.”

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Appendix D

Traffic Study

Project No: 624-03

TRAFFIC STUDY

ELLIOT PROPERTY TENTATIVE SUBDIVISION
LOCATED EAST OF SHIRK STREET AND SOUTH OF TULARE AVENUE
VISALIA, CALIFORNIA

Prepared for:

4CREEKS

December 2023

UPDATED June 2024

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TABLE OF CONTENTS

Pg
EXECUTIVE SUMMARY 2
INTRODUCTION 6
FIGURE 1: VICINITY MAP 7
FIGURE 2: LOCATION MAP 8
FIGURE 3: SITE PLAN 9
PROJECT TRIP GENERATION AND DESIGN HOUR VOLUMES 11
TABLE 1a: PHASE I PROJECT TRIP GENERATION 11
TABLE 1b: FULL BUILD-OUT PROJECT TRIP GENERATION 11
TABLE 2: PROJECT TRIP DISTRIBUTION 12
EXISTING AND FUTURE TRAFFIC 12
FIGURE 4: PROJECT PEAK HOUR TRAFFIC (EXISTING) 13
FIGURE 5: PROJECT PEAK HOUR TRAFFIC (FUTURE) 14
FIGURE 6: 2023 PEAK HOUR TRAFFIC 15
FIGURE 7: 2028 PEAK HOUR TRAFFIC 16
FIGURE 8: 2028+PROJECT PEAK HOUR TRAFFIC 17
FIGURE 9: 2033 PEAK HOUR TRAFFIC 18
FIGURE 10: 2033+PROJECT PEAK HOUR TRAFFIC 19
INTERSECTION ANALYSIS 20
TABLE 3a: PM INTERSECTION LEVEL OF SERVICE 21
TABLE 3b:AM INTERSECTION LEVEL OF SERVICE 22
TRAFFIC SIGNAL WARRANT ANALYSIS 23
TABLE 4: 8-HOUR TRAFFIC SIGNAL WARRANTS 23
QUEUE LENGTH ANALYSIS 24
TABLE 5a: PM QUEUE LENGTH ANALYSIS 24
TABLE 5b: AM QUEUE LENGTH ANALYSIS 25
DECELERATION LANE ANALYSIS 25
ACCIDENT INVESTIGATION 26
MITIGATION 27
TABLE 6: FUTURE INTERSECTION IMPROVEMENTS AND LOCAL MITIGATION 27
VEHICLE MILES TRAVELED (VMT) ANALYSIS 27
REFERENCES 28
APPENDIX 29

EXECUTIVE SUMMARY

The proposed residential development is located east of Shirk Street and south of Tulare Avenue in Visalia, CA.

Project Description

The proposed project includes 225 single-family residential dwelling units. Access will be provided along Shirk Road, Tulare Road, and Roeben Street.

Project Trip Generation

The following table shows the anticipated project trip generation and peak hour volumes calculated using the Institute of Transportation Engineers (ITE) Trip Generation, 11th Edition.

Project Trip Generation

General Information			Daily Trips		AM Peak Hour Trips			PM Peak Hour Trips		
ITE Code	Development Type	Variable	ADT RATE	ADT	Rate	In % Split/ Trips	Out % Split/ Trips	Rate	In % Split/ Trips	Out % Split/ Trips
210	Single-Family detached Housing	225 Dwelling Units	eq	2128	eq	25% 39	75% 117	eq	63% 134	37% 79

Project Study Scope

The project study scope was approved by the City of Visalia on October 20, 2023. Based on the number of peak hour trips calculated (between 200-499 residential trips in the peak hour), the study falls into Category II traffic impact analysis. Category II requires all signalized and major intersections be studied within a 1/2-mile radius of the project.

Following are the intersections included in the study:

Study Intersections:

- Road 92/Shirk Street & State Route 198 Eastbound Ramps
- Road 92/Shirk Street & State Route 198 Westbound Ramps
- Road 92/Shirk Street & Tulare Avenue
- Road 92/Shirk Street & Walnut Avenue
- Roeben Street & Tulare Avenue
- Roeben Street & Walnut Avenue
- Street 3 & Tulare Avenue
- Street 6 & Tulare Avenue
- Avenue 4 & Shirk St
- Avenue 6 & Roeben St

Analysis Scenarios

In accordance with Category II requirements, analysis will be provided for the following scenarios:

- Existing
- 2028 Cumulative (Opening Year)
- 2028 Cumulative + Project
- 2028 Cumulative + Project with Mitigation (if applicable)
- 2033 Cumulative
- 2033 Cumulative + Project
- 2033 Cumulative + Project with Mitigation (if applicable)

Level of Service Analysis

PM Peak Hour Intersection Analysis

#	Intersection	Control Type	2023	2028	2028+ Project	2028+ Project w/Mitigation	2033	2033+ Project	2033+ Project w/Mitigation
1	Shirk St & SR 198 WB Ramps	AWSC	E (43.0)	F (118.7)	F (204.8)	-	F (238.1)	F (>300)	-
		Signal	-	-	-	B	-	-	B
2	Shirk St & SR 198 EB Ramps	AWSC	C	D (27.2)	D (28.1)	-	F (52.2)	F (56.2)	-
		Signal	-	-	-	B	-	-	B
3	Shirk St & Tulare Ave	WB	-	B	B	-	B	B	-
4	Roeben St & Tulare Ave	WB EB	A -	B A	B A	- -	B B	B B	- -
5	Shirk St & Walnut Ave	AWSC	C	E (44.7)	E (49.0)	-	F (114.2)	E (126.0)	-
		Signal	-	-	-	B	-	-	C
6	Roeben St & Walnut Ave	AWSC	B	B	B	-	B	C	-
7	Street 3 & Tulare Ave	NB	-	-	A	-	-	A	-
8	Street 6 & Tulare Ave	NB	-	-	-	-	-	A	-
9	Avenue 4 & Shirk St	WB	-	-	A	-	-	B	-
10	Avenue 6 & Roeben St	EB	-	-	A	-	-	A	-

AM Peak Hour Intersection Analysis

#	Intersection	Control Type	2023	2028	2028+ Project	2028+ Project w/Mitigation	2033	2033+ Project	2033+ Project w/Mitigation
1	Shirk St & SR 198 WB Ramps	AWSC	C	F (50.6)	F (131.3)	-	F (114.6)	F (238.2)	-
		Signal	-	-	-	B	-	-	C
2	Shirk St & SR 198 EB Ramps	AWSC	B	C	C	-	E (37.0)	E (38.2)	-
		Signal	-	-	-	B	-	-	B
3	Shirk St & Tulare Ave	WB	-	B	B	-	B	A	-
4	Roeben St & Tulare Ave	WB EB	A -	B A	B A	- -	B A	B A	- -
5	Shirk St & Walnut Ave	AWSC	B	C	C	-	D (25.5)	D (27.9)	-
		Signal	-	-	-	B	-	-	B
6	Roeben St & Walnut Ave	AWSC	B	B	B	-	B	C	-
7	Street 3 & Tulare Ave	NB	-	-	A	-	-	A	-
8	Street 6 & Tulare Ave	NB	-	-	-	-	-	A	-
9	Avenue 4 & Shirk St	WB	-	-	A	-	-	B	-
10	Avenue 6 & Roeben St	EB	-	-	A	-	-	A	-

Mitigation

Based on the results of the Level of Service (LOS) analysis and the eight-hour vehicular volume warrants, and the City of Visalia thresholds for mitigation, it is recommended that signals be constructed at three intersections in order to operate at an acceptable level of service by the year 2033.

#	Intersection	Improvements Recommended by 2028	Improvements Recommended by 2033	Percent Share
1	Shirk St & SR 198 WB Ramps	Signal	-	5.11%
2	Shirk St & SR 198 EB Ramps	Signal	-	9.69%
5	Shirk St & Walnut Ave	Signal	-	8.29%

INTRODUCTION

The purpose of this study is to evaluate the potential traffic impacts of a proposed single-family development located east of Shirk Street and south of Tulare Avenue in Visalia, CA. A vicinity map, location map, and a site plan are presented in Figures 1 through 3, respectively.

The proposed project includes 225 single-family dwelling units.

A. Land Use, Site and Study Area Boundaries

The existing zoning is Agriculture and the general plan is Low Density Residential.

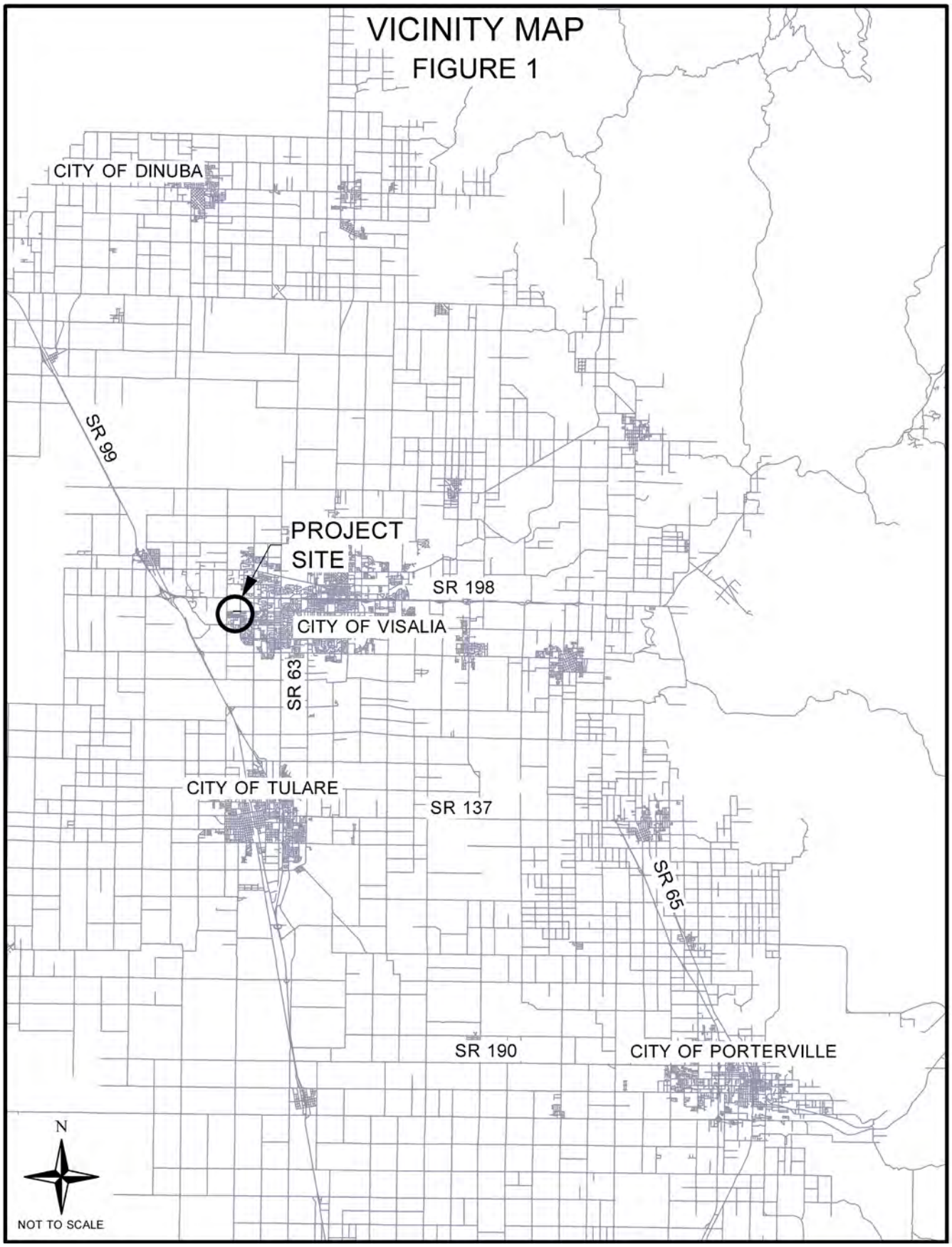
Based on the number of peak hour trips calculated (between 200-499 trips in the peak hour for residential projects), the study falls into Category II traffic impact analysis. Category II requires all signalized and major intersections be studied within a one-half mile radius of the project. The study area includes a total of six intersections (all unsignalized). The scope of the study was developed in conjunction with, and approved by the City of Visalia on October 20, 2023.

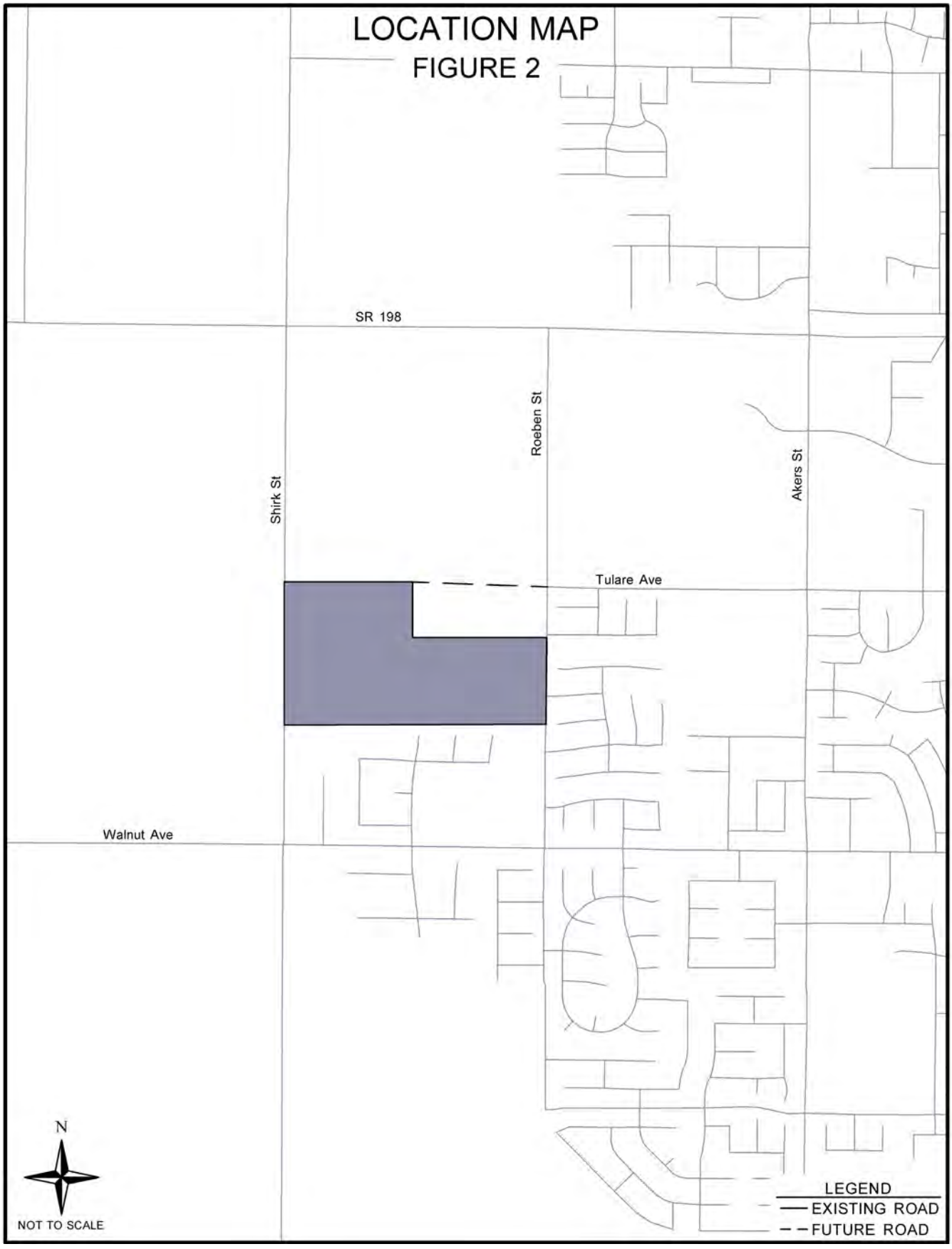
B. Existing Site Uses and Site Access

The project site is currently undeveloped and used for agriculture. Access will be provided along Shirk Road, Tulare Road, and Roeben Street.

C. Existing Uses in Vicinity of the Site

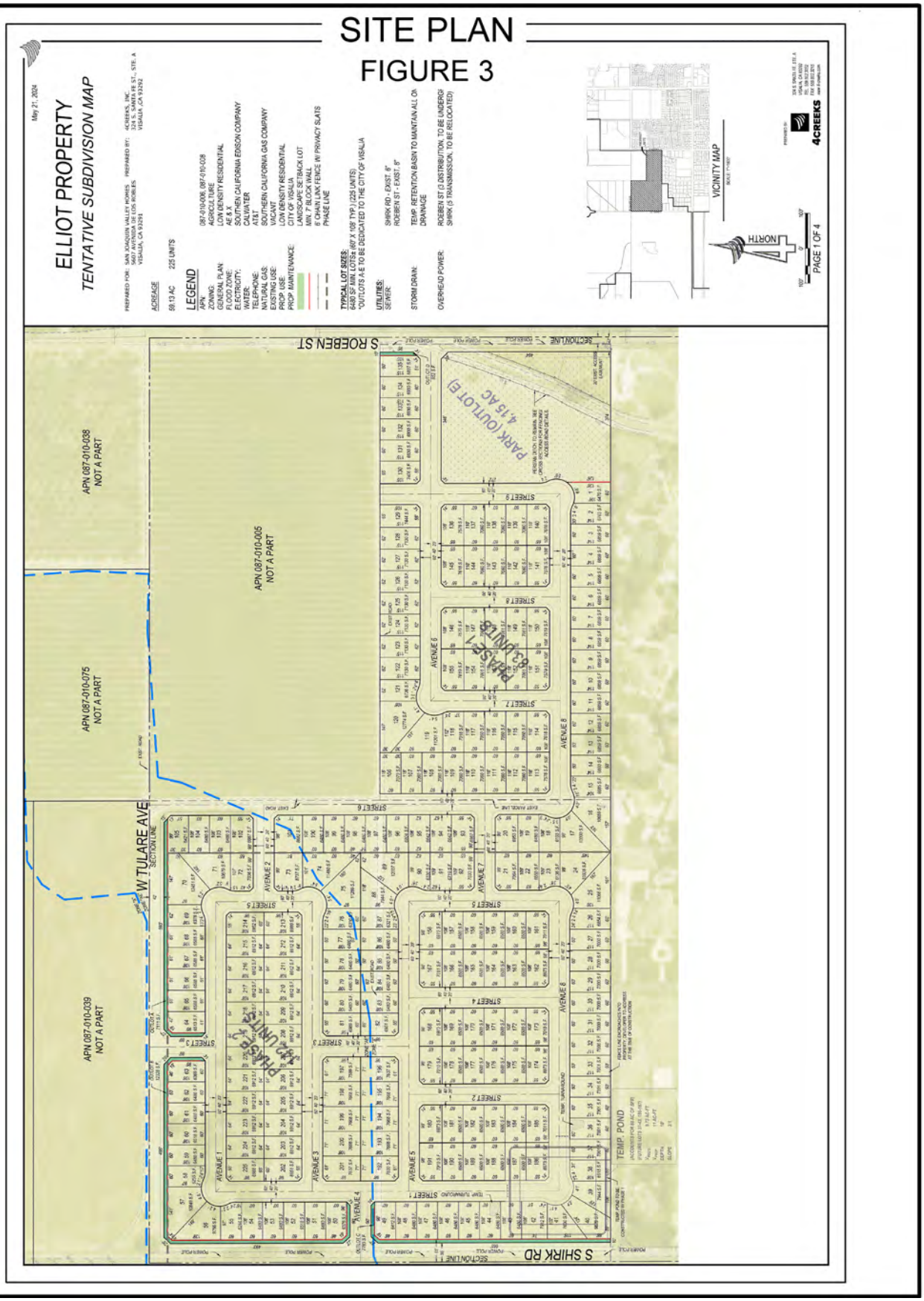
Existing land uses in the vicinity of the project site include adjacent residential to the east and south and agricultural land uses to the north and west. Central Valley Christian Schools exists further east along with commercial and medical land uses.


VICINITY MAP
FIGURE 1
CITY OF DINUBA
SR 99
PROJECT SITE
SR 198
CITY OF VISALIA
SR 63
CITY OF TULARE
SR 137
SR 65
SR 190
CITY OF PORTERVILLE
N
NOT TO SCALE


LOCATION MAP
FIGURE 2
SR 198
Shirk St
Roeben St
Akers St
Tulare Ave
Walnut Ave
N
NOT TO SCALE
LEGEND
EXISTING ROAD
FUTURE ROAD

SITE PLAN

FIGURE 3



D. Roadway Descriptions

Roeben Street is a north-south collector that exists from Whitendale Avenue to State Route 198 in the vicinity of the project. It exists as a two-lane roadway and provides access to residential land uses.

Shirk Street/Road 92 is a north-south arterial that exists from Avenue 272 north. In the vicinity of the project it exists as a two-lane roadway and provides access to residential, retail, and agricultural land uses.

State Route 198 is an east-west freeway that extends through Visalia. In the vicinity of the project it exists as four-lane freeway and has several interchanges in the City of Visalia, including at Shirk Street.

Tulare Avenue is an east-west collector that extends east from Roeben Street through the City of Visalia. In the vicinity of the project it exists as a two-lane roadway and provides access to residential land uses. It was assumed for the purposes of this study that Tulare would be extended, by others, in the future scenarios.

Walnut Avenue is an east-west arterial that extends throughout the City of Visalia. In the vicinity of the project it exists as two-lane roadway and provides access to residential land uses.

PROJECT TRIP GENERATION AND DESIGN HOUR VOLUMES

The trip generation and design hour volumes for the commercial development was calculated using the Institute of Transportation Engineers (ITE) Trip Generation, 11th Edition. The ADT, AM and PM peak hour of adjacent street traffic rate and equations, and peak hour directional splits for ITE Land Use Code 210 (Single-Family detached Housing) were used to estimate the project traffic. The trip generations for Phase I and full build out are shown in Tables 1a and 1b.

Table 1a
Phase I Project Trip Generation

General Information			Daily Trips		AM Peak Hour Trips			PM Peak Hour Trips		
ITE Code	Development Type	Variable	ADT RATE	ADT	Rate	In % Split/ Trips	Out % Split/ Trips	Rate	In % Split/ Trips	Out % Split/ Trips
210	Single-Family detached Housing	83 Dwelling Units	eq	850	eq	25% 16	75% 47	eq	63% 53	37% 31

Table 1b
Full Build-Out Project Trip Generation

General Information			Daily Trips		AM Peak Hour Trips			PM Peak Hour Trips		
ITE Code	Development Type	Variable	ADT RATE	ADT	Rate	In % Split/ Trips	Out % Split/ Trips	Rate	In % Split/ Trips	Out % Split/ Trips
210	Single-Family detached Housing	225 Dwelling Units	eq	2128	eq	25% 39	75% 117	eq	63% 134	37% 79

The project trip distribution was based on a review of the potential draw from population centers within the region as well as the types of land uses involved. These assumptions were used to distribute project traffic as shown in Table 2 and Figure 4 for the roadway system within the study scope.

Table 2
Project Trip Distribution

Direction	Percent
North	30
East	40
South	20
West	10

EXISTING AND FUTURE TRAFFIC

Traffic counts were conducted between the hours of 6:00 to 8:00 AM and 4:00 to 6:00 PM at the study intersections and are shown in Figure 5.

Annual growth rates ranging between 0.50% and 7.25% were applied to existing traffic volumes to estimate future traffic volumes for the project phases. These growth rates were estimated based on future TCAG traffic model data.

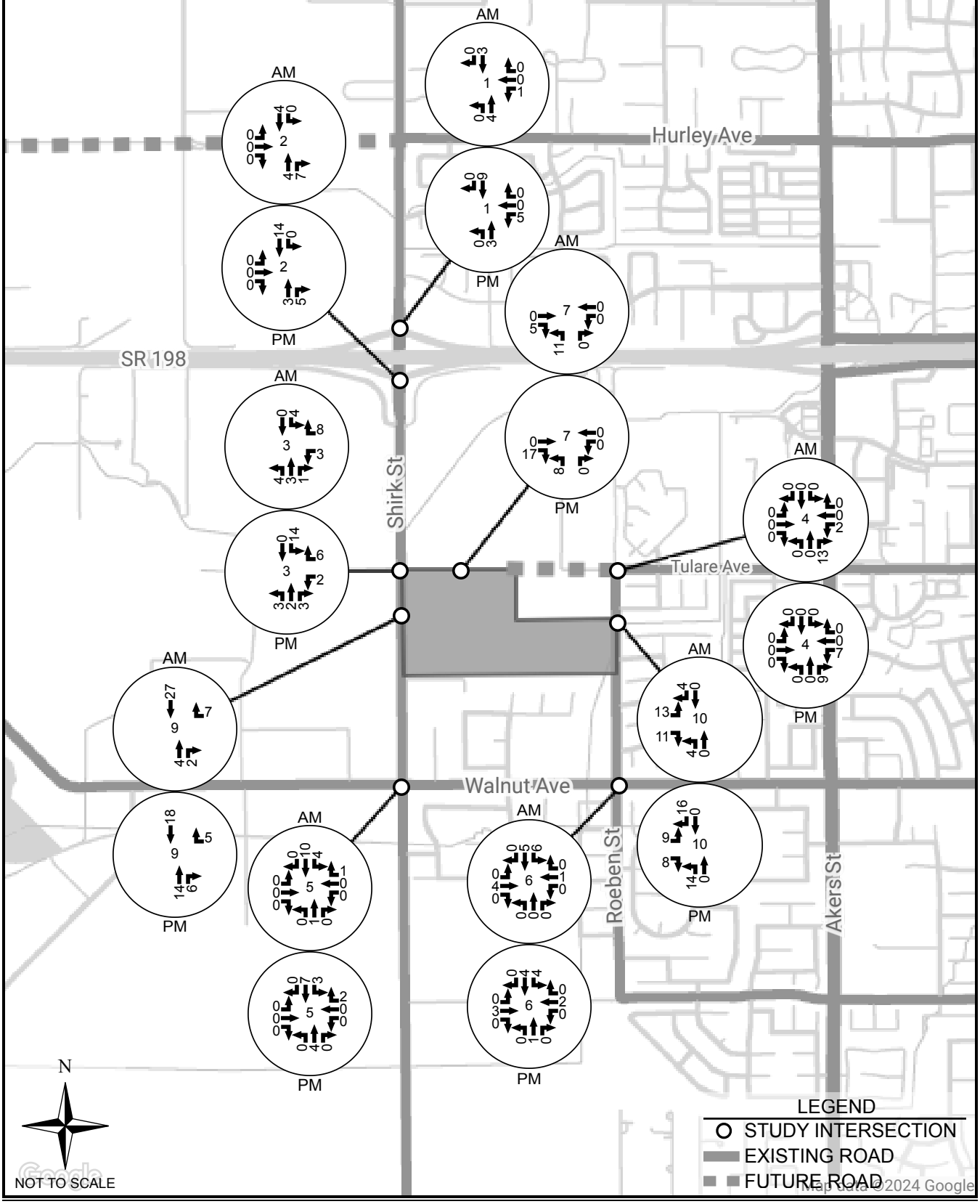
In accordance with Category II requirements, analysis will be provided for the following scenarios:

- Existing
- 2028 Cumulative (Opening Year)
- 2028 Cumulative + Project
- 2028 Cumulative + Project with Mitigation (if applicable)
- 2033 Cumulative
- 2033 Cumulative + Project
- 2033 Cumulative + Project with Mitigation (if applicable)

Project, existing and future peak hour volumes are shown in Figures 4 through 11.

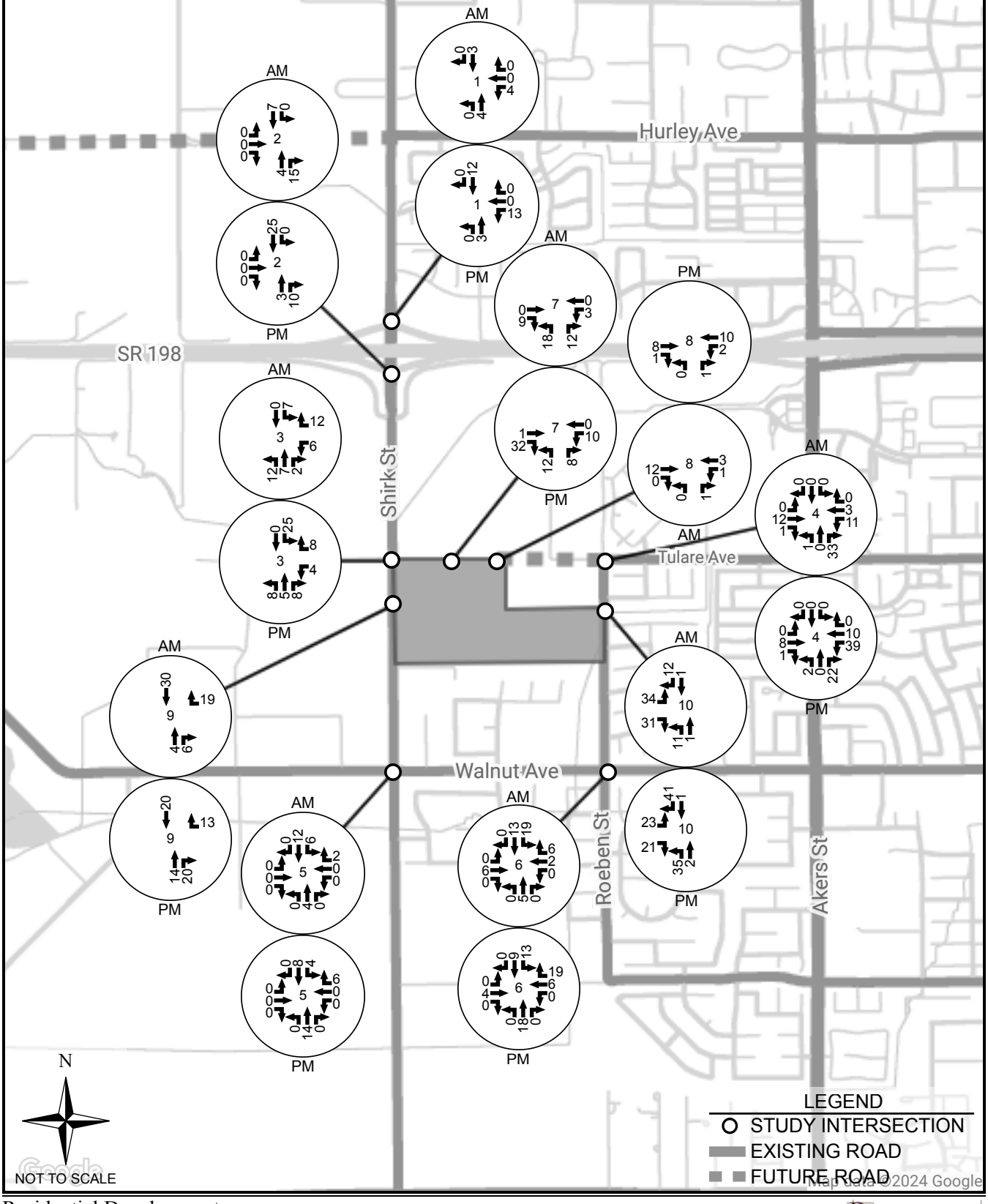
PROJECT (EXISTING) PEAK HOUR TRAFFIC

FIGURE 4

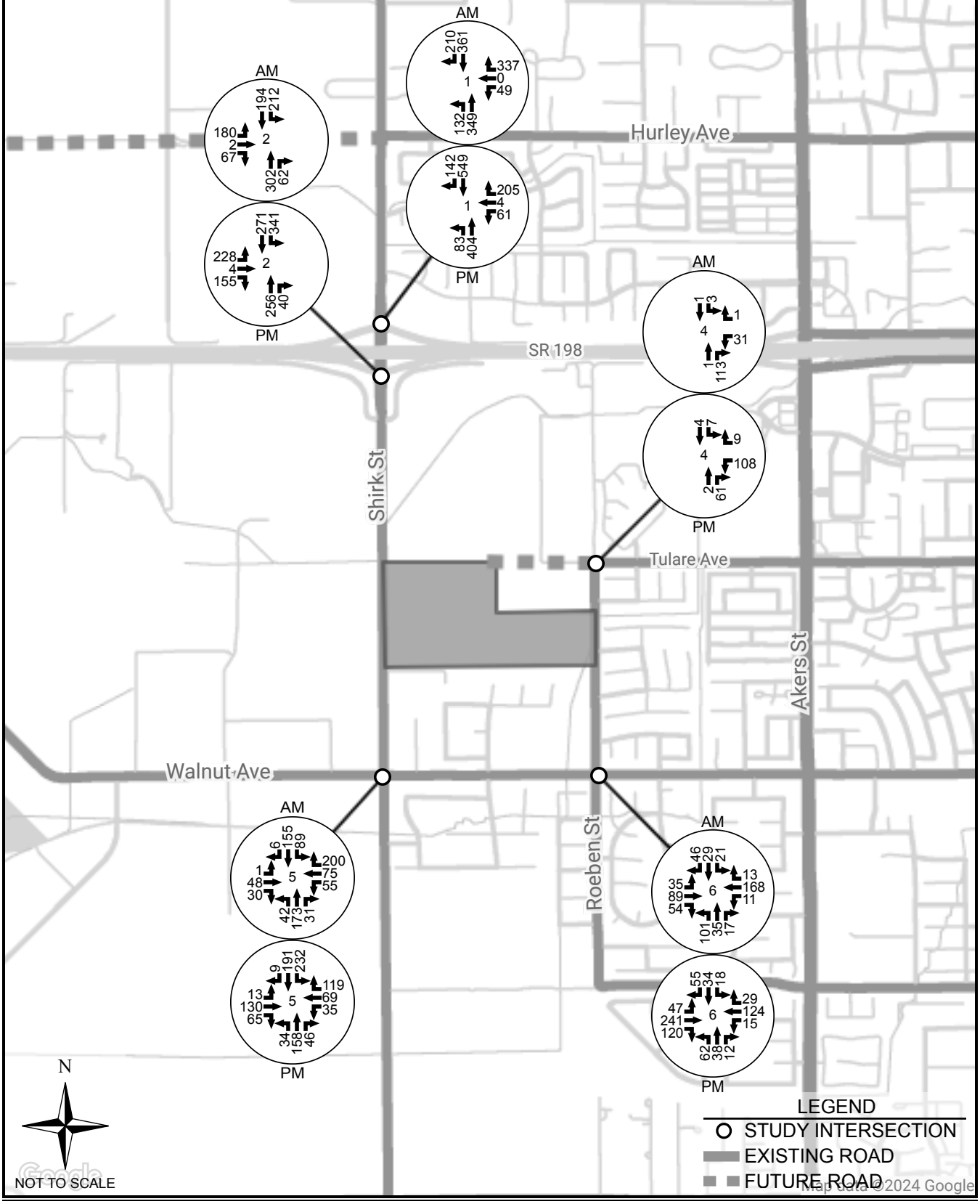


PROJECT (FUTURE) PEAK HOUR TRAFFIC

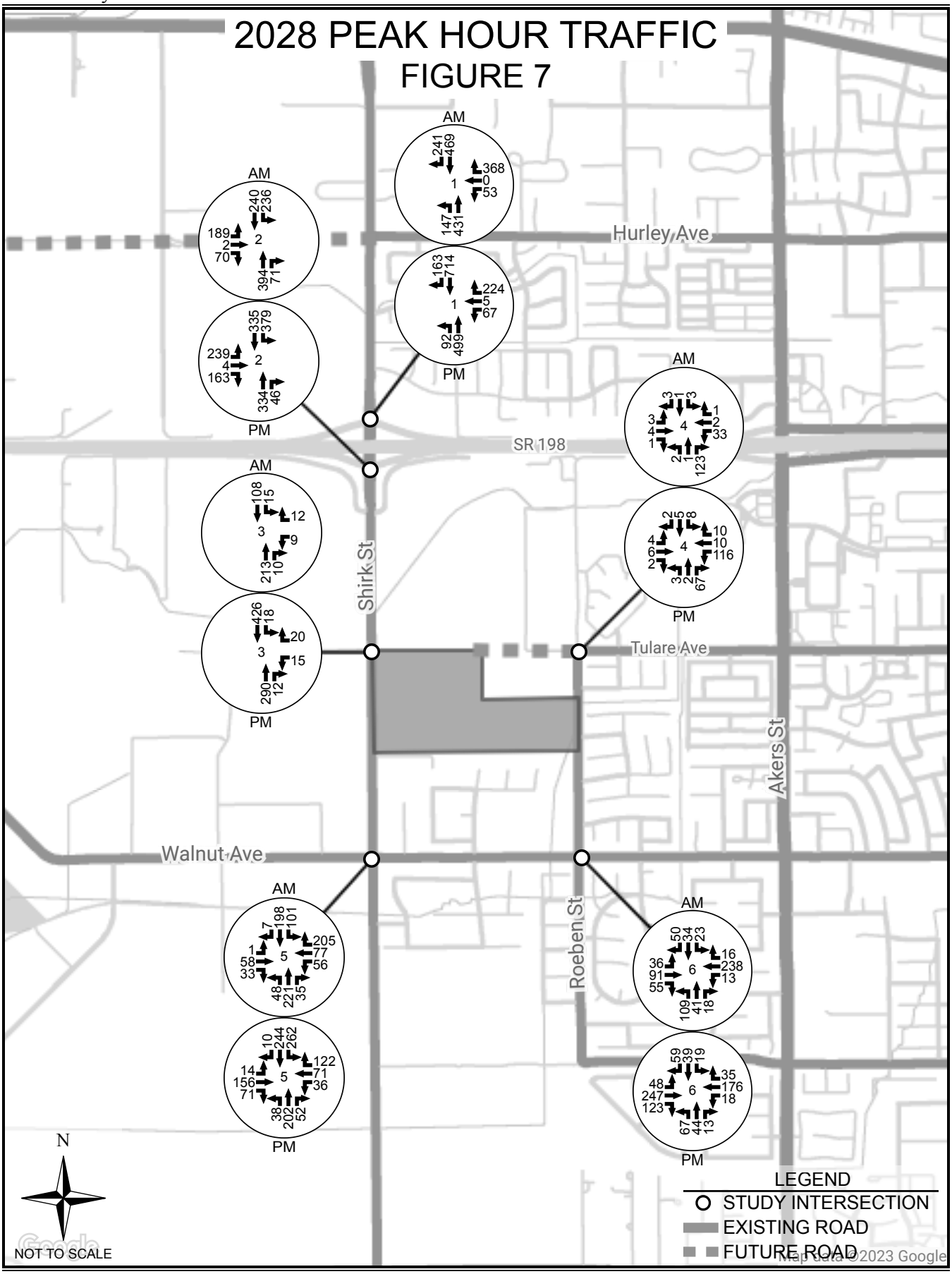
FIGURE 5



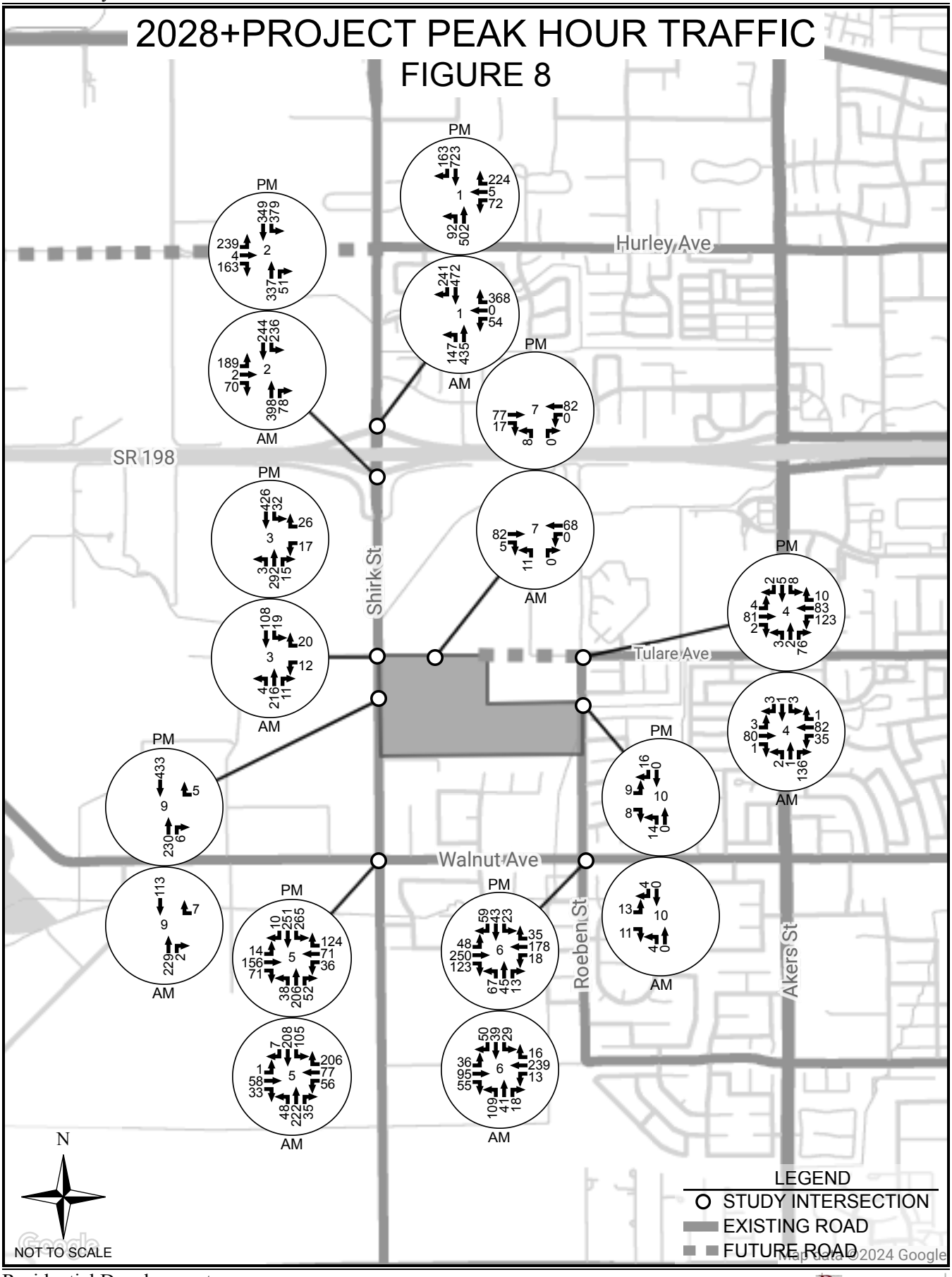
2023 PEAK HOUR TRAFFIC
FIGURE 6



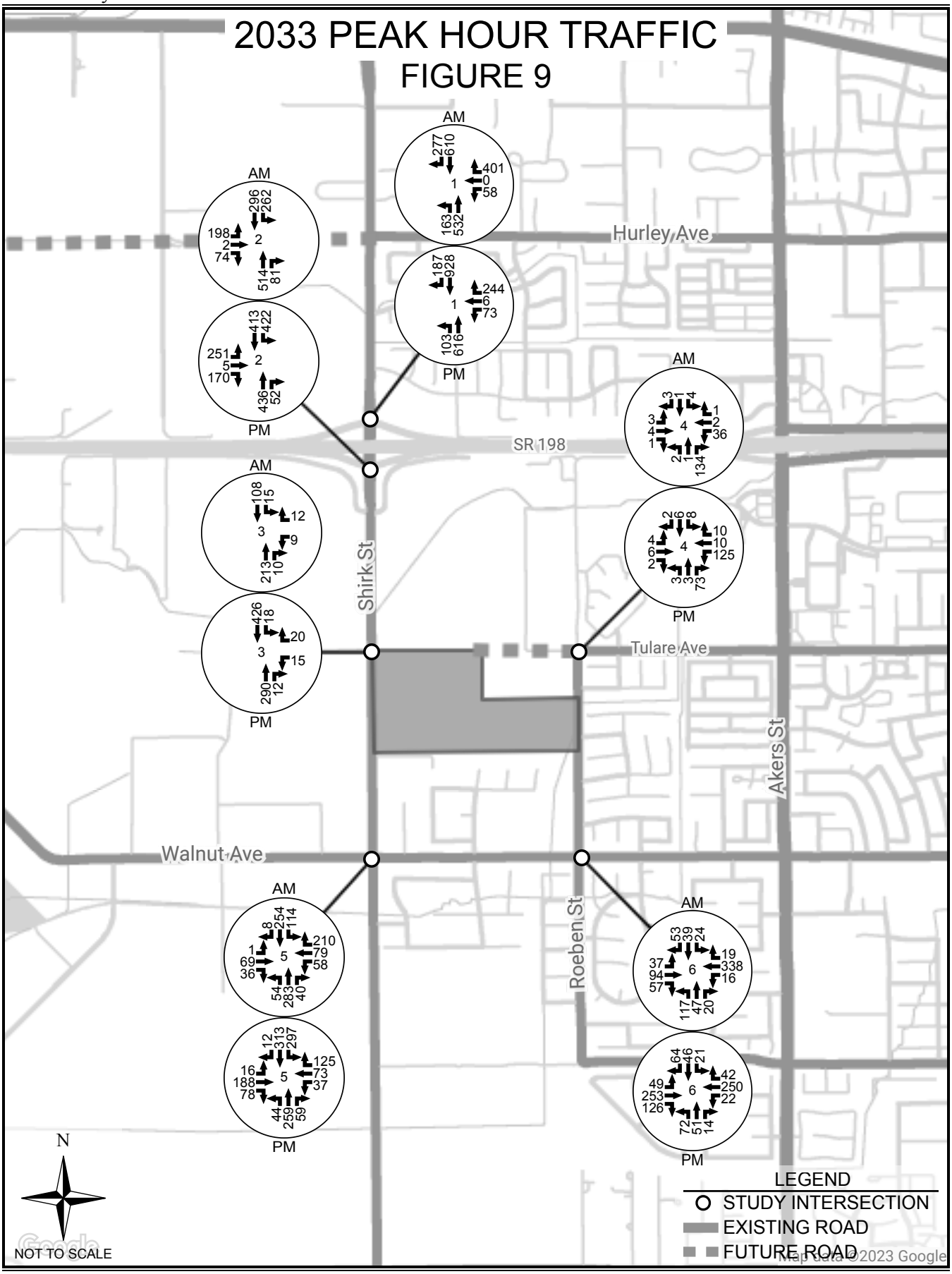
2028 PEAK HOUR TRAFFIC
FIGURE 7



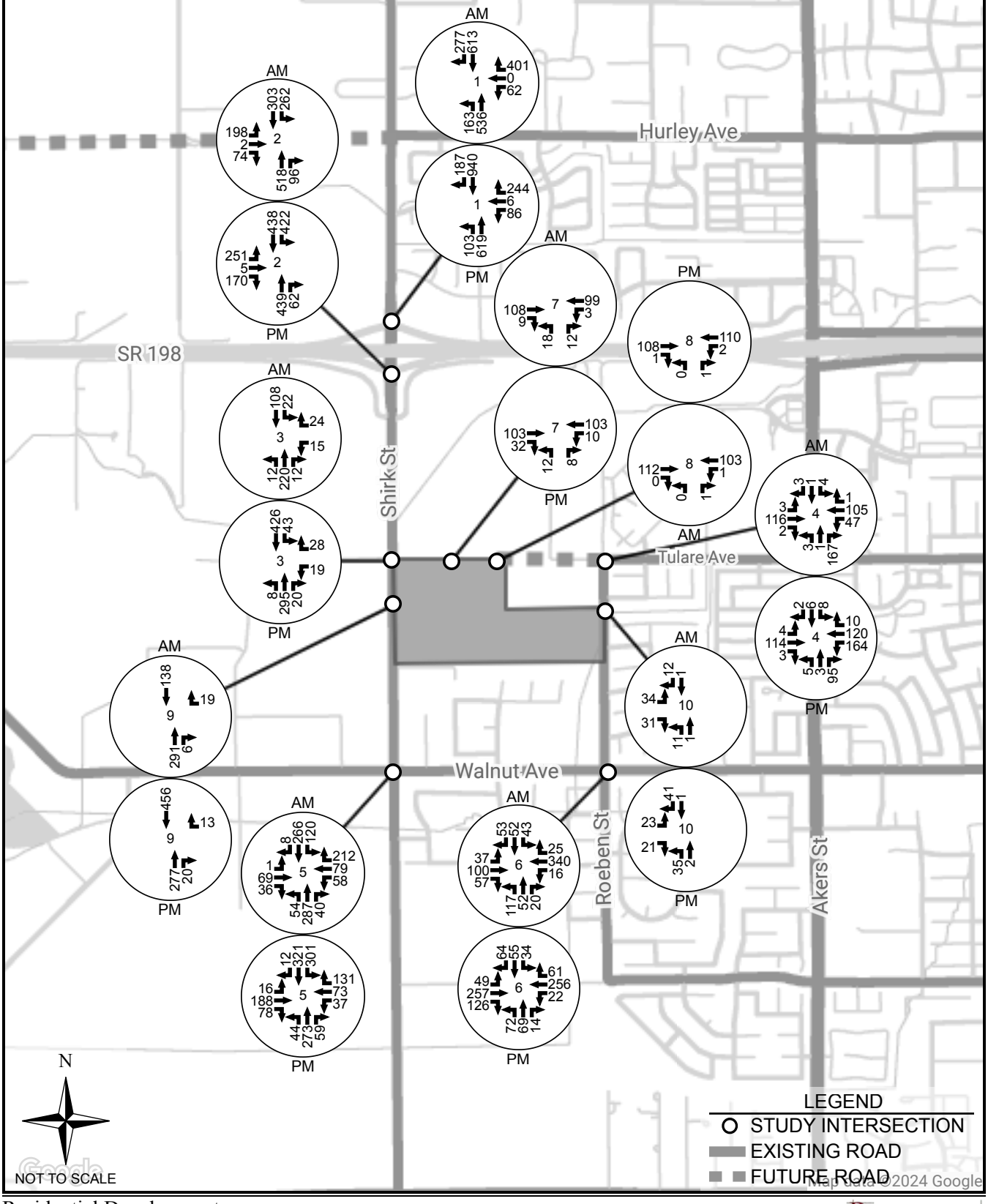
2028+PROJECT PEAK HOUR TRAFFIC
FIGURE 8



2033 PEAK HOUR TRAFFIC
FIGURE 9



2033+PROJECT (FUTURE) PEAK HOUR TRAFFIC
FIGURE 10



INTERSECTION ANALYSIS

A capacity analysis of the study intersections was conducted using Synchro software from Trafficware. Level of service for the study intersections is presented in Tables 3a and 3b. The level of service goal for roadway facilities in Visalia is LOS D.

Criteria for intersection level of service (LOS) are shown in the tables below.

LEVEL OF SERVICE CRITERIA
UNSIGNALIZED INTERSECTION

Average Control Delay (sec/veh)	Level of Service	Expected Delay to Minor Street Traffic
≤ 10	A	Little or no delay
> 10 and ≤ 15	B	Short traffic delays
> 15 and ≤ 25	C	Average traffic delays
> 25 and ≤ 35	D	Long traffic delays
> 35 and ≤ 50	E	Very long traffic delays
> 50	F	Extreme delays

LEVEL OF SERVICE CRITERIA
SIGNALIZED INTERSECTIONS

Volume/Capacity	Control Delay (sec/veh)	Level of Service
< 0.60	≤ 10	A
0.61 - 0.70	> 10 and ≤ 20	B
0.71 - 0.80	> 20 and ≤ 35	C
0.81 - 0.90	> 35 and ≤ 55	D
0.91 - 1.00	> 55 and ≤ 80	E
> 1.0	> 80	F

Table 3a
PM Intersection Level of Service

#	Intersection	Control Type	2023	2028	2028+ Project	2028+ Project w/Mitigation	2033	2033+ Project	2033+ Project w/Mitigation
1	Shirk St & SR 198 WB Ramps	AWSC	E (43.0)	F (118.7)	F (204.8)	-	F (238.1)	F (>300)	-
		Signal	-	-	-	B	-	-	B
2	Shirk St & SR 198 EB Ramps	AWSC	C	D (27.2)	D (28.1)	-	F (52.2)	F (56.2)	-
		Signal	-	-	-	B	-	-	B
3	Shirk St & Tulare Ave	WB	-	B	B	-	B	B	-
4	Roeben St & Tulare Ave	WB EB	A -	B A	B A	- -	B B	B B	- -
5	Shirk St & Walnut Ave	AWSC	C	E (44.7)	E (49.0)	-	F (114.2)	E (126.0)	-
		Signal	-	-	-	B	-	-	C
6	Roeben St & Walnut Ave	AWSC	B	B	B	-	B	C	-
7	Street 3 & Tulare Ave	NB	-	-	A	-	-	A	-
8	Street 6 & Tulare Ave	NB	-	-	-	-	-	A	-
9	Avenue 4 & Shirk St	WB	-	-	A	-	-	B	-
10	Avenue 6 & Roeben St	EB	-	-	A	-	-	A	-

Table 3b
AM Intersection Level of Service

#	Intersection	Control Type	2023	2028	2028+ Project	2028+ Project w/Mitigation	2033	2033+ Project	2033+ Project w/Mitigation
1	Shirk St & SR 198 WB Ramps	AWSC	C	F (50.6)	F (131.3)	-	F (114.6)	F (238.2)	-
		Signal	-	-	-	B	-	-	C
2	Shirk St & SR 198 EB Ramps	AWSC	B	C	C	-	E (37.0)	E (38.2)	-
		Signal	-	-	-	B	-	-	B
3	Shirk St & Tulare Ave	WB	-	B	B	-	B	A	-
4	Roeben St & Tulare Ave	WB EB	A -	B A	B A	- -	B A	B A	- -
5	Shirk St & Walnut Ave	AWSC	B	C	C	-	D (25.5)	D (27.9)	-
		Signal	-	-	-	B	-	-	B
6	Roeben St & Walnut Ave	AWSC	B	B	B	-	B	C	-
7	Street 3 & Tulare Ave	NB	-	-	A	-	-	A	-
8	Street 6 & Tulare Ave	NB	-	-	-	-	-	A	-
9	Avenue 4 & Shirk St	WB	-	-	A	-	-	B	-
10	Avenue 6 & Roeben St	EB	-	-	A	-	-	A	-

TRAFFIC SIGNAL WARRANT ANALYSIS

In accordance with the City of Visalia policy, intersections were evaluated for Warrant #1 (Eight-Hour Vehicular Volume) as defined by the California Manual on Uniform Traffic Control Devices (MUTCD). Signal warrant analysis results are shown in Table 4. Traffic signals would be considered at intersections which meet the signal warrant and are not able to be mitigated by adding capacity to intersections with additional lanes. Warrant analysis was performed on arterial and collector street intersections. Count data for signal warrant analysis was obtained in May 2021 and November 2023. The count data is included in the appendix.

Table 4
8-Hour Traffic Signal Warrants

#	Intersection	2023	2023+ Project	2028	2028+ Project	2033	2033+ Project
1	SR 198 WB Off-Ramp & Shirk Rd	YES	YES	YES	YES	YES	YES
2	SR 198 EB Off-Ramp & Shirk Rd	YES	YES	YES	YES	YES	YES
3	Shirk St & Tulare Ave	-	-	NO	NO	NO	NO
4	Roeben St & Tulare Ave	NO	NO	NO	NO	NO	NO
5	Shirk St & Walnut Ave	NO	NO	YES	YES	YES	YES
6	Roeben St & Walnut Ave	NO	NO	NO	NO	NO	NO

QUEUE LENGTH ANALYSIS

Existing volumes and future volumes, both with and without project traffic were used to analyze turn movements at all intersections. Queue length analysis was conducted using the equations provided in the City of Visalia Traffic Guidelines. The results of the queue length analysis are shown in Tables 5a and 5b below. The length of the queue is shown in feet under the Queue column.

A review of the data shows that there are a small number of turn lanes which have longer queues than available storage length (shown in bold). With the addition of project traffic, some queue lengths (which exceed available storage) are increased from existing or future base traffic, but by 9 feet or less. This is less than the average car length. Therefore, project traffic queue length impacts are minor and no mitigation was recommended. The intersection of Shirk Street & Walnut Avenue does not have any dedicated turn lanes; therefore, no queue analysis was performed.

Table 5a
PM Queue Length Analysis

#	Intersection	Turn Movement	Storage Length	2023		2023+Project		2028		2028+Project		2033		2033+Project	
				VOL	QUEUE	VOL	QUEUE	VOL	QUEUE	VOL	QUEUE	VOL	QUEUE	VOL	QUEUE
1	Shirk St & SR 198 WB Ramps	WBL	350	61	25	64	27	67	28	74	31	73	30	86	36
		WBR	350	205	171	205	171	224	187	224	187	244	203	244	203
		NBL	200	83	35	83	35	92	38	92	38	103	86	103	86
		SBL	150	142	59	142	59	163	68	163	68	187	**156**	187	**156**
2	Shirk St & SR 198 EB Ramps	EBR	220	155	129	155	129	163	136	163	136	170	142	170	142
		NBR	90	40	17	50	21	46	19	51	21	52	43	62	52
		SBL	400	341	284	341	284	379	316	379	316	422	352	422	352
3	Shirk St & Tulare Ave	WBL	100	-	-	-	-	15	13	17	14	15	13	18	15
		WBR	50	-	-	-	-	20	17	26	22	20	17	28	23
		NBR	50	-	-	-	-	12	10	15	13	12	10	16	13
		SBL	100	-	-	-	-	18	15	32	27	18	15	34	28
4	Roeben St & Tulare Ave	EBL	100	-	-	-	-	4	2	4	2	4	3	8	7
		EBR	50	-	-	-	-	2	2	2	2	2	2	5	4
		WBL	100	108	45	124	52	116	48	123	51	125	**104**	136	**113**
		WBR	50	9	8	9	8	10	8	10	8	10	8	10	8
		NBL	100	-	-	-	-	3	1	3	1	3	3	8	7
		NBR	100	61	51	71	59	67	56	76	63	73	61	79	66
		SBL	100	7	3	7	3	8	3	3	1	8	7	8	7
		SBR	50	-	-	-	-	2	2	3	3	2	2	9	8
6	Roeben St & Walnut Ave	EBR[1]	-	120	50	120	50	123	103	123	103	126	105	126	105
		WBR[1]	-	29	12	47	20	35	29	35	29	42	35	53	44
		NBR[1]	-	12	5	12	5	13	11	13	11	14	12	14	12

[1]There are no physical limitations to the storage length

Table 5b
AM Queue Length Analysis

#	Intersection	Turn Movement	Storage Length	2023		2023+Project		2028		2028+Project		2033		2033+Project	
				VOL	QUEUE	VOL	QUEUE	VOL	QUEUE	VOL	QUEUE	VOL	QUEUE	VOL	QUEUE
1	Shirk St & SR 198 WB Ramps	WBL	350	49	20	53	22	53	22	54	23	58	24	62	26
		WBR	350	337	281	337	281	368	307	368	307	401	334	401	334
		NBL	200	132	55	132	55	147	61	147	61	163	136	163	136
		SBL	150	210	88	210	88	241	100	241	100	277	**231**	277	**231**
2	Shirk St & SR 198 EB Ramps	EBR	220	67	56	67	56	70	58	70	58	74	62	74	62
		NBR	90	62	26	77	32	71	30	76	32	81	68	96	80
		SBL	400	212	177	212	177	236	197	236	197	262	218	262	218
3	Shirk St & Tulare Ave	WBL	100	-	-	-	-	9	8	12	10	9	8	13	11
		WBR	50	-	-	-	-	12	10	16	13	12	10	23	19
		NBR	50	-	-	-	-	10	8	11	9	10	8	11	9
		SBL	100	-	-	-	-	15	13	19	16	15	13	20	17
4	Tulare Ave & Roeben St	EBL	100	-	-	-	-	3	1	3	1	3	3	9	8
		EBR	50	-	-	-	-	1	1	1	1	1	1	5	4
		WBL	100	31	13	35	15	33	14	35	15	36	30	40	33
		WBR	50	1	1	1	1	1	1	1	1	1	1	1	1
		NBL	100	-	-	-	-	2	1	2	1	2	2	3	3
		NBR	120	113	94	121	101	123	103	136	113	134	112	142	118
		SBL	100	3	1	3	1	3	1	3	1	4	3	4	3
		SBR	50	-	-	-	-	3	3	3	3	3	3	5	4
6	Roeben St & Walnut Ave	EBR[1]	-	54	23	54	23	55	46	55	46	57	48	57	48
		WBR[1]	-	13	5	17	7	16	13	16	13	19	16	23	19
		NBR[1]	-	17	7	17	7	18	15	18	15	20	17	20	17

[1]There are no physical limitations to the storage length

DECELERATION LANE ANALYSIS

A review of the project intersection number 7, 8, 9, and 10 was conducted to determine if they meet the deceleration lane criteria in accordance with the traffic study guidelines. The following table shows the intersection and whether or not the intersection meets any of the four deceleration lane criteria:

Intersection	5,000 ADT	35mph Posted Speed Limit	1,000 ADT Using Driveways	40 Right Turns in Peak Hour
7	No	-[1]	No	No
8	No	-[1]	No	No
9	Yes	-[1]	No	No
10	No	-[1]	No	No

[1]No posted speed limit. For Shirk Street, it is currently considered 55 mph. However, it is not known what the posted speed limit will be when development builds out.

Intersection 9 is the only intersection that meets one of the criteria. Due to the low number of right turns into the development at intersection 9 (20 in the PM peak hour), it is recommended that a striped right

turn deceleration lane be installed. The following table shows the right turn length recommended based on storage length (queue) length and deceleration length.

Intersection	Int #	Movement	Right Turn Volume (veh/hr)	Speed Limit (mph)	Storage length (ft)	Decel Lane Length (ft)[1]	Recommended length (ft)
Avenue 4 & Shirk St	9	NBR	20	45[2]	17	275	300

[1]From Table 405.2B in the Caltrans Highway Design Manual

[2]It is assumed that the speed limit will be 45mph once Shirk is built to ultimate width based on other portions of Shirk St

ACCIDENT INVESTIGATION

City Intersections

Accident data was investigated from the SWITRS database for the previous two years. Upon review of the data provided, it was determined that there was a total of one accident located within City of Visalia jurisdiction intersections, which was located at Shirk Street & Walnut Avenue (driver DUI).

Caltrans Safety Crash Analysis

Traffic accident data was received from Caltrans on April 17, 2024 for State Route 198 Westbound and Eastbound ramps at Shirk Road. Between the years 2020 and 2023, there were a total of two accidents, both on the SR 198 eastbound oof ramp to Shirk Road. Both accidents were related to speeding, with one resulting in a rear-end collision and one resulting in a collision with a dike or curb. There were no other accidents reported. The total collisions for each location shown in the TASAS report provided show the actual rates are below the average rates for all facilities.

The relatively low volume of traffic which will be added to the ramps by the project will not be expected to increase accidents rates on the ramps as there are no specific patterns of accidents that the project would increase. Additionally, as outlined in the mitigation shown in Table 6, the addition of signals at the ramps will provide an additional safety measure with the signal control.

The *Traffic Accident Surveillance and Analysis System (TASAS) Collision Data Summary*, provided by Caltrans, is included in the appendix.

MITIGATION

Based on the results of the Level of Service (LOS) analysis and eight-hour vehicular volume warrant, and the City of Visalia thresholds for mitigation, it is recommended that signals be constructed at the three intersections identified in Table 6 in order to operate at an acceptable level of service by the year 2033. The project's fair share percentage for the improvements identified is included in Table 6.

Table 6
Future Intersection Improvements

#	Intersection	Improvements Recommended by 2028	Improvements Recommended by 2033	Fair Share Percentage
1	Shirk St & SR 198 WB Ramps	Signal	-	9.71%
2	Shirk St & SR 198 EB Ramps	Signal	-	18.00%
5	Shirk St & Walnut Ave	Signal	-	13.66%

VEHICLE MILES TRAVELED (VMT) ANALYSIS

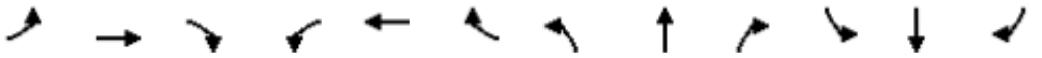
An evaluation of project vehicle miles traveled (VMT) was conducted based on VMT analysis guidelines adopted by the City of Visalia. The guidelines provide "screening thresholds" for identifying whether a land use project should be expected to result in a less than significant transportation impact under CEQA. Projects meeting one or more of these criteria would not be required to undergo a detailed VMT analysis. One of the screening criteria is "Project Location Screening". Development projects that are located in a low VMT zone would be expected to generate similar low vehicle miles travelled. Using the City of Visalia online VMT screening application, the project was determined to be located in TAZ 1358. Utilizing the "VMT Per Capita" metric due to residential project, the average VMT was determined to be 8.61 miles per capita. The average VMT per capita for Tulare County is 11.9. Therefore, the project is determined to be in a low VMT zone and the project would be expected to result in a less than significant transportation impact under CEQA.

A printout of the application findings and mapping is included in the appendix.

REFERENCES

1. Annual Traffic Census, TCAG
2. Highway Capacity Manual, Special Report 209, Transportation Research Board
3. California Manual on Uniform Traffic Control Devices for Streets and Highways, 2014 Edition, Federal Highway Administration (FHA)
4. Trip Generation, 11th Edition, Institute of Transportation Engineers (ITE)
5. Visalia General Plan, October 2014

APPENDIX



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	49	0	337	132	349	0	0	361	210
Future Volume (vph)	0	0	0	49	0	337	132	349	0	0	361	210
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.950		0.950					
Satd. Flow (prot)	0	0	0	0	1770	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.950		0.950					
Satd. Flow (perm)	0	0	0	0	1770	1458	1630	1863	0	0	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	53	0	366	143	379	0	0	392	228
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	53	366	143	379	0	0	392	228
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

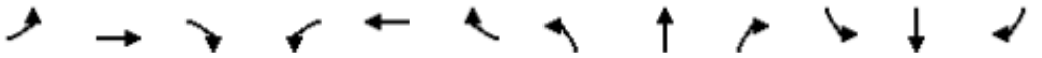
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	48.7%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	23
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	49	0	337	132	349	0	0	361	210
Future Vol, veh/h	0	0	0	49	0	337	132	349	0	0	361	210
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	53	0	366	143	379	0	0	392	228
Number of Lanes	0	0	0	0	1	1	1	1	0	0	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	22	23.8	22.9
HCM LOS	C	C	C

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	0%	0%
Vol Thru, %	0%	100%	0%	0%	100%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	132	349	49	337	361	210
LT Vol	132	0	49	0	0	0
Through Vol	0	349	0	0	361	0
RT Vol	0	0	0	337	0	210
Lane Flow Rate	143	379	53	366	392	228
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.302	0.743	0.119	0.692	0.76	0.397
Departure Headway (Hd)	7.565	7.052	8.026	6.799	6.974	6.256
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	476	512	447	531	518	575
Service Time	5.303	4.79	5.76	4.532	4.712	3.993
HCM Lane V/C Ratio	0.3	0.74	0.119	0.689	0.757	0.397
HCM Control Delay, s/veh	13.6	27.6	11.8	23.5	28.6	13.1
HCM Lane LOS	B	D	B	C	D	B
HCM 95th-tile Q	1.3	6.3	0.4	5.3	6.6	1.9



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	180	2	67	0	0	0	0	302	62	212	194	0
Future Volume (vph)	180	2	67	0	0	0	0	302	62	212	194	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			4993			645	
Travel Time (s)		13.3			26.3			61.9			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	196	2	73	0	0	0	0	328	67	230	211	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	198	73	0	0	0	0	328	67	230	211	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	48.7%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	13.8
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	180	2	67	0	0	0	0	302	62	212	194	0
Future Vol, veh/h	180	2	67	0	0	0	0	302	62	212	194	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	196	2	73	0	0	0	0	328	67	230	211	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	13.3	15	13
HCM LOS	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	99%	0%	100%	0%
Vol Thru, %	100%	0%	1%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	302	62	182	67	212	194
LT Vol	0	0	180	0	212	0
Through Vol	302	0	2	0	0	194
RT Vol	0	62	0	67	0	0
Lane Flow Rate	328	67	198	73	230	211
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.556	0.101	0.396	0.121	0.417	0.352
Departure Headway (Hd)	6.098	5.387	7.201	5.989	6.518	6.01
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	591	664	500	598	553	597
Service Time	3.844	3.133	4.948	3.735	4.263	3.755
HCM Lane V/C Ratio	0.555	0.101	0.396	0.122	0.416	0.353
HCM Control Delay, s/veh	16.3	8.7	14.6	9.6	13.9	12
HCM Lane LOS	C	A	B	A	B	B
HCM 95th-tile Q	3.4	0.3	1.9	0.4	2	1.6

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	31	1	1	113	3	1
Future Volume (vph)	31	1	1	113	3	1
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	1533		2637			1348
Travel Time (s)	19.0		32.7			16.7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	34	1	1	123	3	1
Shared Lane Traffic (%)						
Lane Group Flow (vph)	34	1	1	123	3	1
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	17.6%	ICU Level of Service	A
Analysis Period (min)	15		

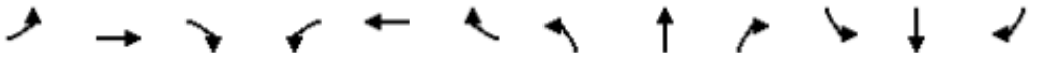
Intersection	
Int Delay, s/veh	2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	31	1	1	113	3	1
Future Vol, veh/h	31	1	1	113	3	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	50	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	34	1	1	123	3	1

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	8	1	0	0	124	0
Stage 1	1	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	1013	1084	-	-	1463	-
Stage 1	1022	-	-	-	-	-
Stage 2	1016	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	1011	1084	-	-	1463	-
Mov Cap-2 Maneuver	1011	-	-	-	-	-
Stage 1	1022	-	-	-	-	-
Stage 2	1014	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	8.7	0	5.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	1011	1084	1463	-
HCM Lane V/C Ratio	-	-	0.033	0.001	0.002	-
HCM Control Delay (s/veh)	-	-	8.7	8.3	7.5	-
HCM Lane LOS	-	-	A	A	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	48	30	55	75	200	42	173	31	89	155	6
Future Volume (vph)	1	48	30	55	75	200	42	173	31	89	155	6
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.948			0.918			0.983			0.997	
Flt Protected		0.999			0.992			0.991			0.982	
Satd. Flow (prot)	0	1764	0	0	1696	0	0	1815	0	0	1824	0
Flt Permitted		0.999			0.992			0.991			0.982	
Satd. Flow (perm)	0	1764	0	0	1696	0	0	1815	0	0	1824	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			4993	
Travel Time (s)		22.3			33.4			36.6			61.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	52	33	60	82	217	46	188	34	97	168	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	86	0	0	359	0	0	268	0	0	272	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

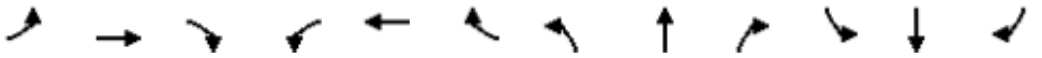
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 57.8%		ICU Level of Service B	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	13
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	48	30	55	75	200	42	173	31	89	155	6
Future Vol, veh/h	1	48	30	55	75	200	42	173	31	89	155	6
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	52	33	60	82	217	46	188	34	97	168	7
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	9.9	14.1	12.6	13
HCM LOS	A	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	17%	1%	17%	36%
Vol Thru, %	70%	61%	23%	62%
Vol Right, %	13%	38%	61%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	246	79	330	250
LT Vol	42	1	55	89
Through Vol	173	48	75	155
RT Vol	31	30	200	6
Lane Flow Rate	267	86	359	272
Geometry Grp	1	1	1	1
Degree of Util (X)	0.416	0.14	0.525	0.429
Departure Headway (Hd)	5.597	5.878	5.267	5.681
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	639	605	682	630
Service Time	3.657	3.958	3.324	3.741
HCM Lane V/C Ratio	0.418	0.142	0.526	0.432
HCM Control Delay, s/veh	12.6	9.9	14.1	13
HCM Lane LOS	B	A	B	B
HCM 95th-tile Q	2	0.5	3.1	2.2



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	35	89	54	11	168	13	101	35	17	21	29	46
Future Volume (vph)	35	89	54	11	168	13	101	35	17	21	29	46
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.936	
Flt Protected		0.986			0.997			0.964			0.989	
Satd. Flow (prot)	0	1837	1458	0	1857	1458	0	1796	1458	0	1724	0
Flt Permitted		0.986			0.997			0.964			0.989	
Satd. Flow (perm)	0	1837	1458	0	1857	1458	0	1796	1458	0	1724	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2637	
Travel Time (s)		33.4			26.9			28.1			32.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	38	97	59	12	183	14	110	38	18	23	32	50
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	135	59	0	195	14	0	148	18	0	105	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

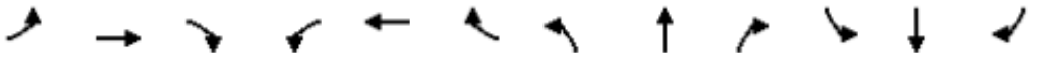
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	40.2%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	10.1
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	35	89	54	11	168	13	101	35	17	21	29	46
Future Vol, veh/h	35	89	54	11	168	13	101	35	17	21	29	46
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	38	97	59	12	183	14	110	38	18	23	32	50
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	9.4	10.5	10.6	9.8
HCM LOS	A	B	B	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	74%	0%	28%	0%	6%	0%	22%
Vol Thru, %	26%	0%	72%	0%	94%	0%	30%
Vol Right, %	0%	100%	0%	100%	0%	100%	48%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	136	17	124	54	179	13	96
LT Vol	101	0	35	0	11	0	21
Through Vol	35	0	89	0	168	0	29
RT Vol	0	17	0	54	0	13	46
Lane Flow Rate	148	18	135	59	195	14	104
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.249	0.026	0.213	0.079	0.3	0.019	0.165
Departure Headway (Hd)	6.061	4.981	5.68	4.831	5.547	4.809	5.686
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	587	709	625	732	642	735	634
Service Time	3.861	2.78	3.475	2.625	3.339	2.601	3.686
HCM Lane V/C Ratio	0.252	0.025	0.216	0.081	0.304	0.019	0.164
HCM Control Delay, s/veh	10.9	7.9	10	8	10.7	7.7	9.8
HCM Lane LOS	B	A	A	A	B	A	A
HCM 95th-tile Q	1	0.1	0.8	0.3	1.3	0.1	0.6



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	53	0	368	147	431	0	0	469	241
Future Volume (vph)	0	0	0	53	0	368	147	431	0	0	469	241
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.950		0.950					
Satd. Flow (prot)	0	0	0	0	1770	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.950		0.950					
Satd. Flow (perm)	0	0	0	0	1770	1458	1630	1863	0	0	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	58	0	400	160	468	0	0	510	262
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	58	400	160	468	0	0	510	262
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

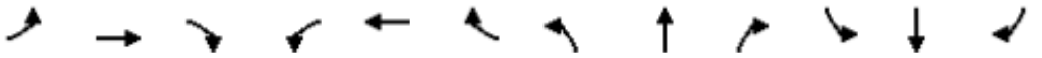
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	55.5%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	50.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	53	0	368	147	431	0	0	469	241
Future Vol, veh/h	0	0	0	53	0	368	147	431	0	0	469	241
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	58	0	400	160	468	0	0	510	262
Number of Lanes	0	0	0	0	1	1	1	1	0	0	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	31.6	50.3	62.2
HCM LOS	D	F	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	0%	0%
Vol Thru, %	0%	100%	0%	0%	100%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	147	431	53	368	469	241
LT Vol	147	0	53	0	0	0
Through Vol	0	431	0	0	469	0
RT Vol	0	0	0	368	0	241
Lane Flow Rate	160	468	58	400	510	262
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.354	0.972	0.136	0.806	1.063	0.494
Departure Headway (Hd)	8.166	7.649	8.658	7.42	7.508	6.786
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	443	478	417	492	489	534
Service Time	5.866	5.349	6.358	5.12	5.208	4.486
HCM Lane V/C Ratio	0.361	0.979	0.139	0.813	1.043	0.491
HCM Control Delay, s/veh	15.3	62.2	12.7	34.3	86	15.9
HCM Lane LOS	C	F	B	D	F	C
HCM 95th-tile Q	1.6	12.3	0.5	7.6	15.8	2.7



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	189	2	70	0	0	0	0	394	71	236	240	0
Future Volume (vph)	189	2	70	0	0	0	0	394	71	236	240	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	205	2	76	0	0	0	0	428	77	257	261	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	207	76	0	0	0	0	428	77	257	261	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

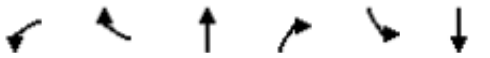
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 55.5%		ICU Level of Service B	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	18.3
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	189	2	70	0	0	0	0	394	71	236	240	0
Future Vol, veh/h	189	2	70	0	0	0	0	394	71	236	240	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	205	2	76	0	0	0	0	428	77	257	261	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	14.7	23.5	15.1
HCM LOS	B	C	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	99%	0%	100%	0%
Vol Thru, %	100%	0%	1%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	394	71	191	70	236	240
LT Vol	0	0	189	0	236	0
Through Vol	394	0	2	0	0	240
RT Vol	0	71	0	70	0	0
Lane Flow Rate	428	77	208	76	257	261
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.754	0.121	0.44	0.136	0.485	0.456
Departure Headway (Hd)	6.338	5.626	7.638	6.42	6.806	6.296
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	570	634	471	556	528	569
Service Time	4.102	3.389	5.406	4.187	4.571	4.062
HCM Lane V/C Ratio	0.751	0.121	0.442	0.137	0.487	0.459
HCM Control Delay, s/veh	26.1	9.2	16.3	10.2	15.9	14.3
HCM Lane LOS	D	A	C	B	C	B
HCM 95th-tile Q	6.6	0.4	2.2	0.5	2.6	2.4



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	9	12	213	10	15	108
Future Volume (vph)	9	12	213	10	15	108
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	2679		2654			2339
Travel Time (s)	33.2		32.9			29.0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	10	13	232	11	16	117
Shared Lane Traffic (%)						
Lane Group Flow (vph)	10	13	232	11	16	117
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	23.5%	ICU Level of Service	A
Analysis Period (min)	15		

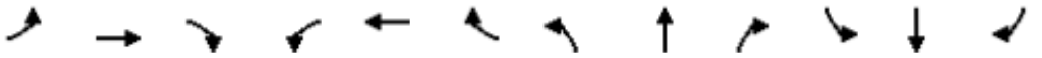
Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	9	12	213	10	15	108
Future Vol, veh/h	9	12	213	10	15	108
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	50	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	13	232	11	16	117

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	381	232	0	0	243	0
Stage 1	232	-	-	-	-	-
Stage 2	149	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	621	807	-	-	1323	-
Stage 1	807	-	-	-	-	-
Stage 2	879	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	614	807	-	-	1323	-
Mov Cap-2 Maneuver	614	-	-	-	-	-
Stage 1	807	-	-	-	-	-
Stage 2	868	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	10.1	0	0.9
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	614	807	1323	-
HCM Lane V/C Ratio	-	-	0.016	0.016	0.012	-
HCM Control Delay (s/veh)	-	-	11	9.5	7.8	-
HCM Lane LOS	-	-	B	A	A	-
HCM 95th %tile Q(veh)	-	-	0	0	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	80	1	33	82	1	2	1	123	3	1	3
Future Volume (vph)	3	80	1	33	82	1	2	1	123	3	1	3
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	100		50	100		50	100		50	100		50
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2679			1533			2637			1348	
Travel Time (s)		33.2			19.0			32.7			16.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	87	1	36	89	1	2	1	134	3	1	3
Shared Lane Traffic (%)												
Lane Group Flow (vph)	3	87	1	36	89	1	2	1	134	3	1	3
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 25.8%		ICU Level of Service A	
Analysis Period (min) 15			

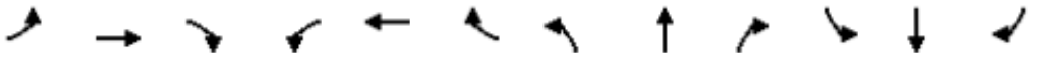
Intersection	
Int Delay, s/veh	6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	80	1	33	82	1	2	1	123	3	1	3
Future Vol, veh/h	3	80	1	33	82	1	2	1	123	3	1	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	50	100	-	50	100	-	50	100	-	50
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	87	1	36	89	1	2	1	134	3	1	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	124	146	1	58	15	1	4	0	0	135	0	0
Stage 1	7	7	-	5	5	-	-	-	-	-	-	-
Stage 2	117	139	-	53	10	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	850	745	1084	939	879	1084	1618	-	-	1449	-	-
Stage 1	1015	890	-	1017	892	-	-	-	-	-	-	-
Stage 2	888	782	-	960	887	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	781	743	1084	852	876	1084	1618	-	-	1449	-	-
Mov Cap-2 Maneuver	781	743	-	852	876	-	-	-	-	-	-	-
Stage 1	1014	888	-	1016	891	-	-	-	-	-	-	-
Stage 2	797	781	-	863	885	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.4	9.5	0.1	3.2
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBL	SBT	SBR
Capacity (veh/h)	1618	-	-	781	743	1084	852	876	1084	1449	-	-
HCM Lane V/C Ratio	0.001	-	-	0.004	0.117	0.001	0.042	0.102	0.001	0.002	-	-
HCM Control Delay (s/veh)	7.2	-	-	9.6	10.5	8.3	9.4	9.6	8.3	7.5	-	-
HCM Lane LOS	A	-	-	A	B	A	A	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.4	0	0.1	0.3	0	0	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	58	33	56	77	205	48	221	35	101	198	7
Future Volume (vph)	1	58	33	56	77	205	48	221	35	101	198	7
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.951			0.918			0.984			0.997	
Flt Protected					0.992			0.992			0.984	
Satd. Flow (prot)	0	1771	0	0	1696	0	0	1818	0	0	1827	0
Flt Permitted					0.992			0.992			0.984	
Satd. Flow (perm)	0	1771	0	0	1696	0	0	1818	0	0	1827	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2654	
Travel Time (s)		22.3			33.4			36.6			32.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	63	36	61	84	223	52	240	38	110	215	8
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	100	0	0	368	0	0	330	0	0	333	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

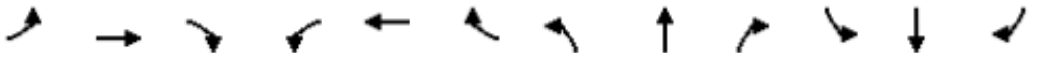
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 63.7%		ICU Level of Service B	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	16.2
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	58	33	56	77	205	48	221	35	101	198	7
Future Vol, veh/h	1	58	33	56	77	205	48	221	35	101	198	7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	63	36	61	84	223	52	240	38	110	215	8
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	11.1	17.1	16.3	16.8
HCM LOS	B	C	C	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	1%	17%	33%
Vol Thru, %	73%	63%	23%	65%
Vol Right, %	12%	36%	61%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	304	92	338	306
LT Vol	48	1	56	101
Through Vol	221	58	77	198
RT Vol	35	33	205	7
Lane Flow Rate	330	100	367	333
Geometry Grp	1	1	1	1
Degree of Util (X)	0.553	0.183	0.595	0.563
Departure Headway (Hd)	6.021	6.593	5.826	6.099
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	598	543	621	592
Service Time	4.065	4.651	3.865	4.144
HCM Lane V/C Ratio	0.552	0.184	0.591	0.563
HCM Control Delay, s/veh	16.3	11.1	17.1	16.8
HCM Lane LOS	C	B	C	C
HCM 95th-tile Q	3.4	0.7	3.9	3.5



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	36	91	55	13	238	16	109	41	18	23	34	50
Future Volume (vph)	36	91	55	13	238	16	109	41	18	23	34	50
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.937	
Flt Protected		0.986			0.997			0.965			0.989	
Satd. Flow (prot)	0	1837	1458	0	1857	1458	0	1798	1458	0	1726	0
Flt Permitted		0.986			0.997			0.965			0.989	
Satd. Flow (perm)	0	1837	1458	0	1857	1458	0	1798	1458	0	1726	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2637	
Travel Time (s)		33.4			26.9			28.1			32.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	39	99	60	14	259	17	118	45	20	25	37	54
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	138	60	0	273	17	0	163	20	0	116	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

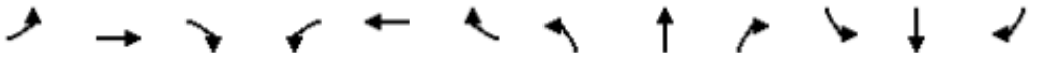
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	44.9%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	11.4
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	36	91	55	13	238	16	109	41	18	23	34	50
Future Vol, veh/h	36	91	55	13	238	16	109	41	18	23	34	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	39	99	60	14	259	17	118	45	20	25	37	54
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	9.9	12.7	11.4	10.5
HCM LOS	A	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	73%	0%	28%	0%	5%	0%	21%
Vol Thru, %	27%	0%	72%	0%	95%	0%	32%
Vol Right, %	0%	100%	0%	100%	0%	100%	47%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	150	18	127	55	251	16	107
LT Vol	109	0	36	0	13	0	23
Through Vol	41	0	91	0	238	0	34
RT Vol	0	18	0	55	0	16	50
Lane Flow Rate	163	20	138	60	273	17	116
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.292	0.029	0.231	0.086	0.438	0.024	0.195
Departure Headway (Hd)	6.456	5.381	6.028	5.175	5.779	5.045	6.024
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	558	665	596	692	625	710	595
Service Time	4.19	3.114	3.76	2.906	3.507	2.773	4.06
HCM Lane V/C Ratio	0.292	0.03	0.232	0.087	0.437	0.024	0.195
HCM Control Delay, s/veh	11.8	8.3	10.6	8.4	13	7.9	10.5
HCM Lane LOS	B	A	B	A	B	A	B
HCM 95th-tile Q	1.2	0.1	0.9	0.3	2.2	0.1	0.7



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	54	0	368	147	432	0	0	472	241
Future Volume (vph)	0	0	0	54	0	368	147	432	0	0	472	241
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850					0.949	
Flt Protected					0.950		0.950					
Satd. Flow (prot)	0	0	0	0	1770	1458	1630	1863	0	1716	1768	0
Flt Permitted					0.950		0.950					
Satd. Flow (perm)	0	0	0	0	1770	1458	1630	1863	0	1716	1768	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	59	0	400	160	470	0	0	513	262
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	59	400	160	470	0	0	775	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

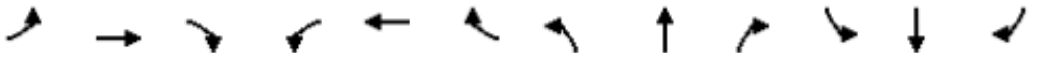
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	61.7%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	131.3
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	54	0	368	147	432	0	0	472	241
Future Vol, veh/h	0	0	0	54	0	368	147	432	0	0	472	241
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	59	0	400	160	470	0	0	513	262
Number of Lanes	0	0	0	0	1	1	1	1	0	1	1	0

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	28.9	43.6	263.1
HCM LOS	D	E	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	0%	0%
Vol Thru, %	0%	100%	0%	0%	100%	66%
Vol Right, %	0%	0%	0%	100%	0%	34%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	147	432	54	368	0	713
LT Vol	147	0	54	0	0	0
Through Vol	0	432	0	0	0	472
RT Vol	0	0	0	368	0	241
Lane Flow Rate	160	470	59	400	0	775
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.337	0.925	0.132	0.767	0	1.52
Departure Headway (Hd)	8.343	7.825	8.898	7.649	7.305	7.061
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	435	465	406	476	0	519
Service Time	6.043	5.525	6.598	5.349	5.07	4.826
HCM Lane V/C Ratio	0.368	1.011	0.145	0.84	0	1.493
HCM Control Delay, s/veh	15.2	53.2	12.9	31.3	10.1	263.1
HCM Lane LOS	C	F	B	D	N	F
HCM 95th-tile Q	1.5	10.7	0.5	6.6	0	40



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	189	2	70	0	0	0	0	395	76	236	244	0
Future Volume (vph)	189	2	70	0	0	0	0	395	76	236	244	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	205	2	76	0	0	0	0	429	83	257	265	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	207	76	0	0	0	0	429	83	257	265	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 56.4%		ICU Level of Service B	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	18.4
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	189	2	70	0	0	0	0	395	76	236	244	0
Future Vol, veh/h	189	2	70	0	0	0	0	395	76	236	244	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	205	2	76	0	0	0	0	429	83	257	265	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	14.7	23.6	15.2
HCM LOS	B	C	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	99%	0%	100%	0%
Vol Thru, %	100%	0%	1%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	395	76	191	70	236	244
LT Vol	0	0	189	0	236	0
Through Vol	395	0	2	0	0	244
RT Vol	0	76	0	70	0	0
Lane Flow Rate	429	83	208	76	257	265
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.757	0.129	0.441	0.136	0.486	0.465
Departure Headway (Hd)	6.347	5.635	7.655	6.438	6.817	6.307
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	567	633	469	555	526	568
Service Time	4.112	3.399	5.425	4.206	4.582	4.073
HCM Lane V/C Ratio	0.757	0.131	0.443	0.137	0.489	0.467
HCM Control Delay, s/veh	26.4	9.2	16.4	10.2	15.9	14.5
HCM Lane LOS	D	A	C	B	C	B
HCM 95th-tile Q	6.7	0.4	2.2	0.5	2.6	2.4

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	12	16	216	11	19	108
Future Volume (vph)	12	16	216	11	19	108
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	739		548			2339
Travel Time (s)	9.2		6.8			29.0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	13	17	235	12	21	117
Shared Lane Traffic (%)						
Lane Group Flow (vph)	13	17	235	12	21	117
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	27.1%	ICU Level of Service	A
Analysis Period (min)	15		

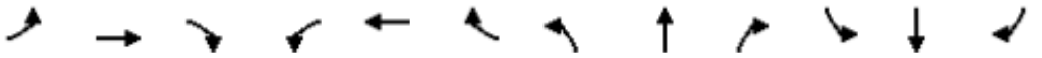
Intersection	
Int Delay, s/veh	1.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	12	16	216	11	19	108
Future Vol, veh/h	12	16	216	11	19	108
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	50	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	13	17	235	12	21	117

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	394	235	0	0	247	0
Stage 1	235	-	-	-	-	-
Stage 2	159	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	611	804	-	-	1319	-
Stage 1	804	-	-	-	-	-
Stage 2	870	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	601	804	-	-	1319	-
Mov Cap-2 Maneuver	601	-	-	-	-	-
Stage 1	804	-	-	-	-	-
Stage 2	856	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	10.2	0	1.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	601	804	1319	-
HCM Lane V/C Ratio	-	-	0.022	0.022	0.016	-
HCM Control Delay (s/veh)	-	-	11.1	9.6	7.8	-
HCM Lane LOS	-	-	B	A	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0.1	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	84	1	35	82	1	2	1	136	3	1	3
Future Volume (vph)	3	84	1	35	82	1	2	1	136	3	1	3
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	100		50	100		50	100		50	100		50
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1360			1533			635			1348	
Travel Time (s)		16.9			19.0			7.9			16.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	91	1	38	89	1	2	1	148	3	1	3
Shared Lane Traffic (%)												
Lane Group Flow (vph)	3	91	1	38	89	1	2	1	148	3	1	3
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.9%		ICU Level of Service A	
Analysis Period (min) 15			

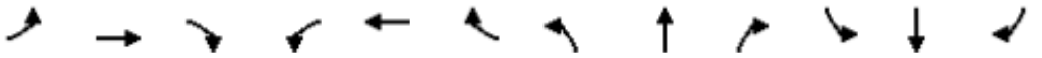
Intersection	
Int Delay, s/veh	5.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	84	1	35	82	1	2	1	136	3	1	3
Future Vol, veh/h	3	84	1	35	82	1	2	1	136	3	1	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	50	100	-	50	100	-	50	100	-	50
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	91	1	38	89	1	2	1	148	3	1	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	131	160	1	60	15	1	4	0	0	149	0	0
Stage 1	7	7	-	5	5	-	-	-	-	-	-	-
Stage 2	124	153	-	55	10	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	841	732	1084	936	879	1084	1618	-	-	1432	-	-
Stage 1	1015	890	-	1017	892	-	-	-	-	-	-	-
Stage 2	880	771	-	957	887	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	773	730	1084	843	876	1084	1618	-	-	1432	-	-
Mov Cap-2 Maneuver	773	730	-	843	876	-	-	-	-	-	-	-
Stage 1	1014	888	-	1016	891	-	-	-	-	-	-	-
Stage 2	790	770	-	856	885	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.5	9.6	0.1	3.2
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBL	SBT	SBR
Capacity (veh/h)	1618	-	-	773	730	1084	843	876	1084	1432	-	-
HCM Lane V/C Ratio	0.001	-	-	0.004	0.125	0.001	0.045	0.102	0.001	0.002	-	-
HCM Control Delay (s/veh)	7.2	-	-	9.7	10.6	8.3	9.5	9.6	8.3	7.5	-	-
HCM Lane LOS	A	-	-	A	B	A	A	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.4	0	0.1	0.3	0	0	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	58	33	56	77	206	48	222	35	105	208	7
Future Volume (vph)	1	58	33	56	77	206	48	222	35	105	208	7
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.951			0.918			0.985			0.997	
Flt Protected					0.992			0.992			0.984	
Satd. Flow (prot)	0	1771	0	0	1696	0	0	1820	0	0	1827	0
Flt Permitted					0.992			0.992			0.984	
Satd. Flow (perm)	0	1771	0	0	1696	0	0	1820	0	0	1827	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2106	
Travel Time (s)		22.3			33.4			36.6			26.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	63	36	61	84	224	52	241	38	114	226	8
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	100	0	0	369	0	0	331	0	0	348	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

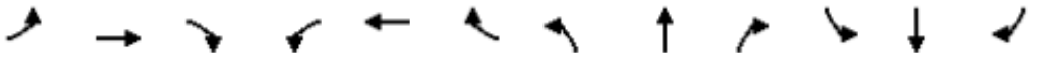
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 65.1%		ICU Level of Service C	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	16.8
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	58	33	56	77	206	48	222	35	105	208	7
Future Vol, veh/h	1	58	33	56	77	206	48	222	35	105	208	7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	63	36	61	84	224	52	241	38	114	226	8
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	11.3	17.5	16.6	17.7
HCM LOS	B	C	C	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	1%	17%	33%
Vol Thru, %	73%	63%	23%	65%
Vol Right, %	11%	36%	61%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	305	92	339	320
LT Vol	48	1	56	105
Through Vol	222	58	77	208
RT Vol	35	33	206	7
Lane Flow Rate	332	100	368	348
Geometry Grp	1	1	1	1
Degree of Util (X)	0.559	0.185	0.602	0.592
Departure Headway (Hd)	6.075	6.675	5.886	6.126
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	593	536	612	588
Service Time	4.122	4.738	3.929	4.171
HCM Lane V/C Ratio	0.56	0.187	0.601	0.592
HCM Control Delay, s/veh	16.6	11.3	17.5	17.7
HCM Lane LOS	C	B	C	C
HCM 95th-tile Q	3.4	0.7	4	3.9



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	36	95	55	13	239	16	109	41	18	29	39	50
Future Volume (vph)	36	95	55	13	239	16	109	41	18	29	39	50
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.943	
Flt Protected		0.986			0.997			0.965			0.988	
Satd. Flow (prot)	0	1837	1458	0	1857	1458	0	1798	1458	0	1735	0
Flt Permitted		0.986			0.997			0.965			0.988	
Satd. Flow (perm)	0	1837	1458	0	1857	1458	0	1798	1458	0	1735	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2002	
Travel Time (s)		33.4			26.9			28.1			24.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	39	103	60	14	260	17	118	45	20	32	42	54
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	142	60	0	274	17	0	163	20	0	128	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	45.1%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	11.5
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	36	95	55	13	239	16	109	41	18	29	39	50
Future Vol, veh/h	36	95	55	13	239	16	109	41	18	29	39	50
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	39	103	60	14	260	17	118	45	20	32	42	54
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	10	12.9	11.6	10.8
HCM LOS	A	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	73%	0%	27%	0%	5%	0%	25%
Vol Thru, %	27%	0%	73%	0%	95%	0%	33%
Vol Right, %	0%	100%	0%	100%	0%	100%	42%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	150	18	131	55	252	16	118
LT Vol	109	0	36	0	13	0	29
Through Vol	41	0	95	0	239	0	39
RT Vol	0	18	0	55	0	16	50
Lane Flow Rate	163	20	142	60	274	17	128
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.295	0.03	0.24	0.087	0.444	0.025	0.217
Departure Headway (Hd)	6.506	5.43	6.077	5.228	5.833	5.099	6.086
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	553	659	591	685	619	702	590
Service Time	4.244	3.168	3.816	2.967	3.567	2.833	4.128
HCM Lane V/C Ratio	0.295	0.03	0.24	0.088	0.443	0.024	0.217
HCM Control Delay, s/veh	12	8.3	10.7	8.5	13.2	8	10.8
HCM Lane LOS	B	A	B	A	B	A	B
HCM 95th-tile Q	1.2	0.1	0.9	0.3	2.3	0.1	0.8

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	82	5	0	68	11	0
Future Volume (vph)	82	5	0	68	11	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.993					
Flt Protected					0.950	
Satd. Flow (prot)	1850	0	0	1863	1770	0
Flt Permitted					0.950	
Satd. Flow (perm)	1850	0	0	1863	1770	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	739			580	300	
Travel Time (s)	9.2			7.2	3.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	89	5	0	74	12	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	94	0	0	74	12	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 14.6%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	82	5	0	68	11	0
Future Vol, veh/h	82	5	0	68	11	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	89	5	0	74	12	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	94	0	166	92
Stage 1	-	-	-	-	92	-
Stage 2	-	-	-	-	74	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1500	-	824	965
Stage 1	-	-	-	-	932	-
Stage 2	-	-	-	-	949	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1500	-	824	965
Mov Cap-2 Maneuver	-	-	-	-	824	-
Stage 1	-	-	-	-	932	-
Stage 2	-	-	-	-	949	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	9.4
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	824	-	-	1500	-
HCM Lane V/C Ratio	0.015	-	-	-	-
HCM Control Delay (s/veh)	9.4	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	0	7	229	2	0	113
Future Volume (vph)	0	7	229	2	0	113
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.865	0.999			
Flt Protected						
Satd. Flow (prot)	0	1611	1861	0	0	1863
Flt Permitted						
Satd. Flow (perm)	0	1611	1861	0	0	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	2684		2106			548
Travel Time (s)	33.3		26.1			6.8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	8	249	2	0	123
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	8	251	0	0	123
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 22.2%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	7	229	2	0	113
Future Vol, veh/h	0	7	229	2	0	113
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	8	249	2	0	123

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	250	0	0	251	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.22	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	0	789	-	-	1314	-
Stage 1	0	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	789	-	-	1314	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.6	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	789	1314	-
HCM Lane V/C Ratio	-	-	0.01	-	-
HCM Control Delay (s/veh)	-	-	9.6	0	-
HCM Lane LOS	-	-	A	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	13	11	4	0	0	4
Future Volume (vph)	13	11	4	0	0	4
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.938				0.865	
Flt Protected	0.974			0.950		
Satd. Flow (prot)	1702	0	0	1770	1611	0
Flt Permitted	0.974			0.950		
Satd. Flow (perm)	1702	0	0	1770	1611	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	2684			2002	635	
Travel Time (s)	33.3			24.8	7.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	14	12	4	0	0	4
Shared Lane Traffic (%)						
Lane Group Flow (vph)	26	0	0	4	4	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 13.3%		ICU Level of Service A	
Analysis Period (min) 15			

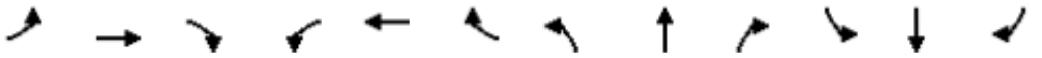
Intersection	
Int Delay, s/veh	7.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	13	11	4	0	0	4
Future Vol, veh/h	13	11	4	0	0	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	14	12	4	0	0	4

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	10	2	4	0	-	0
Stage 1	2	-	-	-	-	-
Stage 2	8	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	1010	1082	1618	-	-	-
Stage 1	1021	-	-	-	-	-
Stage 2	1015	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	1008	1082	1618	-	-	-
Mov Cap-2 Maneuver	1008	-	-	-	-	-
Stage 1	1019	-	-	-	-	-
Stage 2	1015	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.5	7.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1618	-	1041	-	-
HCM Lane V/C Ratio	0.003	-	0.025	-	-
HCM Control Delay (s/veh)	7.2	0	8.5	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	54	0	368	147	432	0	0	472	241
Future Volume (vph)	0	0	0	54	0	368	147	432	0	0	472	241
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.950		0.950					
Satd. Flow (prot)	0	0	0	0	1770	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.950		0.449					
Satd. Flow (perm)	0	0	0	0	1770	1458	770	1863	0	0	1863	1458
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)						348						262
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	59	0	400	160	470	0	0	513	262
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	59	400	160	470	0	0	513	262
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors				1	1	1	1	1			1	1
Detector Template												
Leading Detector (ft)				50	50	50	50	50			50	50
Trailing Detector (ft)				0	0	0	0	0			0	0
Detector 1 Position(ft)				0	0	0	0	0			0	0
Detector 1 Size(ft)				50	50	50	50	50			50	50
Detector 1 Type				Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex			Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Detector 1 Queue (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Detector 1 Delay (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Turn Type				Perm	NA	Perm	Perm	NA			NA	Perm
Protected Phases					8			2			6	
Permitted Phases				8		8	2					6
Detector Phase				8	8	8	2	2			6	6
Switch Phase												
Minimum Initial (s)				4.0	4.0	4.0	4.0	4.0			4.0	4.0
Minimum Split (s)				24.0	24.0	24.0	24.0	24.0			24.0	24.0
Total Split (s)				36.0	36.0	36.0	54.0	54.0			54.0	54.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (%)				40.0%	40.0%	40.0%	60.0%	60.0%			60.0%	60.0%
Maximum Green (s)				30.0	30.0	30.0	48.0	48.0			48.0	48.0
Yellow Time (s)				5.0	5.0	5.0	5.0	5.0			5.0	5.0
All-Red Time (s)				1.0	1.0	1.0	1.0	1.0			1.0	1.0
Lost Time Adjust (s)					0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)					6.0	6.0	6.0	6.0			6.0	6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)				3.0	3.0	3.0	3.0	3.0			3.0	3.0
Recall Mode				None	None	None	C-Max	C-Max			C-Max	C-Max
Walk Time (s)				7.0	7.0	7.0	7.0	7.0			7.0	7.0
Flash Don't Walk (s)				11.0	11.0	11.0	11.0	11.0			11.0	11.0
Pedestrian Calls (#/hr)				0	0	0	0	0			0	0
Act Effct Green (s)					12.0	12.0	66.0	66.0			66.0	66.0
Actuated g/C Ratio					0.13	0.13	0.73	0.73			0.73	0.73
v/c Ratio					0.25	0.81	0.28	0.34			0.38	0.23
Control Delay (s/veh)					34.6	19.7	5.0	4.2			6.5	1.4
Queue Delay					0.0	0.0	0.0	0.0			0.0	0.0
Total Delay (s/veh)					34.6	19.7	5.0	4.2			6.5	1.4
LOS					C	B	A	A			A	A
Approach Delay (s/veh)					21.6			4.4			4.8	
Approach LOS					C			A			A	

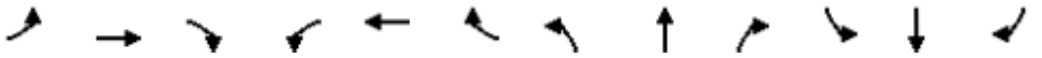
Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBT, Start of Green			
Natural Cycle: 55			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.81			
Intersection Signal Delay (s/veh): 8.8		Intersection LOS: A	
Intersection Capacity Utilization 60.6%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 1: Shirk St & SR 198 WB Ramps

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	54	0	368	147	432	0	0	472	241
Future Volume (veh/h)	0	0	0	54	0	368	147	432	0	0	472	241
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1750	1863	1716	1716	1863	0	0	1863	1716
Adj Flow Rate, veh/h				59	0	400	160	470	0	0	513	262
Adj No. of Lanes				0	1	1	1	1	0	0	1	1
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2
Cap, veh/h				526	0	433	340	1062	0	0	1062	831
Arrive On Green				0.30	0.00	0.30	1.00	1.00	0.00	0.00	0.57	0.57
Sat Flow, veh/h				1774	0	1458	638	1863	0	0	1863	1458
Grp Volume(v), veh/h				59	0	400	160	470	0	0	513	262
Grp Sat Flow(s),veh/h/ln				1774	0	1458	638	1863	0	0	1863	1458
Q Serve(g_s), s				2.2	0.0	23.9	11.5	0.0	0.0	0.0	14.7	8.5
Cycle Q Clear(g_c), s				2.2	0.0	23.9	26.2	0.0	0.0	0.0	14.7	8.5
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				526	0	433	340	1062	0	0	1062	831
V/C Ratio(X)				0.11	0.00	0.92	0.47	0.44	0.00	0.00	0.48	0.32
Avail Cap(c_a), veh/h				591	0	486	340	1062	0	0	1062	831
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.95	0.95	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				23.0	0.0	30.7	3.8	0.0	0.0	0.0	11.5	10.1
Incr Delay (d2), s/veh				0.1	0.0	22.3	4.4	1.3	0.0	0.0	1.6	1.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				1.1	0.0	12.2	2.4	0.4	0.0	0.0	8.0	3.6
LnGrp Delay(d), s/veh				23.1	0.0	53.0	8.2	1.3	0.0	0.0	13.1	11.1
LnGrp LOS				C		D	A	A			B	B
Approach Vol, veh/h					459			630			775	
Approach Delay, s/veh					49.1			3.0			12.4	
Approach LOS					D			A			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		57.3				57.3		32.7
Change Period (Y+Rc), s		6.0				6.0		6.0
Max Green Setting (Gmax), s		48.0				48.0		30.0
Max Q Clear Time (g_c+I1), s		28.2				16.7		25.9
Green Ext Time (p_c), s		3.2				3.1		0.8

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	18.3
HCM 2010 LOS	B



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	189	2	70	0	0	0	0	395	76	236	244	0
Future Volume (vph)	189	2	70	0	0	0	0	395	76	236	244	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.493		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	846	1863	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			76						83			
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	205	2	76	0	0	0	0	429	83	257	265	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	207	76	0	0	0	0	429	83	257	265	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1	1					1	1	1	1	
Detector Template												
Leading Detector (ft)	50	50	50					50	50	50	50	
Trailing Detector (ft)	0	0	0					0	0	0	0	
Detector 1 Position(ft)	0	0	0					0	0	0	0	
Detector 1 Size(ft)	50	50	50					50	50	50	50	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex					Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Turn Type	Perm	NA	Perm					NA	Perm	Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4		4						2	6		
Detector Phase	4	4	4					2	2	6	6	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0					4.0	4.0	4.0	4.0	
Minimum Split (s)	24.0	24.0	24.0					24.0	24.0	24.0	24.0	
Total Split (s)	24.0	24.0	24.0					66.0	66.0	66.0	66.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (%)	26.7%	26.7%	26.7%					73.3%	73.3%	73.3%	73.3%	
Maximum Green (s)	18.0	18.0	18.0					60.0	60.0	60.0	60.0	
Yellow Time (s)	5.0	5.0	5.0					5.0	5.0	5.0	5.0	
All-Red Time (s)	1.0	1.0	1.0					1.0	1.0	1.0	1.0	
Lost Time Adjust (s)		0.0	0.0					0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.0	6.0					6.0	6.0	6.0	6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0					3.0	3.0	3.0	3.0	
Recall Mode	None	None	None					C-Max	C-Max	C-Max	C-Max	
Walk Time (s)	7.0	7.0	7.0					7.0	7.0	7.0	7.0	
Flash Don't Walk (s)	11.0	11.0	11.0					11.0	11.0	11.0	11.0	
Pedestrian Calls (#/hr)	0	0	0					0	0	0	0	
Act Effct Green (s)		15.0	15.0					63.0	63.0	63.0	63.0	
Actuated g/C Ratio		0.17	0.17					0.70	0.70	0.70	0.70	
v/c Ratio		0.70	0.25					0.33	0.08	0.43	0.20	
Control Delay (s/veh)		48.1	9.9					6.7	2.2	8.5	4.4	
Queue Delay		0.0	0.0					0.0	0.0	0.0	0.0	
Total Delay (s/veh)		48.1	9.9					6.7	2.2	8.5	4.4	
LOS		D	A					A	A	A	A	
Approach Delay (s/veh)		37.9						6.0			6.4	
Approach LOS		D						A			A	

Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBTL, Start of Green			
Natural Cycle: 60			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.70			
Intersection Signal Delay (s/veh): 13.0		Intersection LOS: B	
Intersection Capacity Utilization 60.6%		ICU Level of Service B	
Analysis Period (min) 15			

Splits and Phases: 2: Shirk St & SR 138 EB Ramps

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	189	2	70	0	0	0	0	395	76	236	244	0
Future Volume (veh/h)	189	2	70	0	0	0	0	395	76	236	244	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1750	1863	1716				0	1863	1716	1716	1863	0
Adj Flow Rate, veh/h	205	2	76				0	429	83	257	265	0
Adj No. of Lanes	0	1	1				0	1	1	1	1	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0
Cap, veh/h	248	2	206				0	1352	1058	604	1352	0
Arrive On Green	0.14	0.14	0.14				0.00	0.73	0.73	1.00	1.00	0.00
Sat Flow, veh/h	1758	17	1458				0	1863	1458	815	1863	0
Grp Volume(v), veh/h	207	0	76				0	429	83	257	265	0
Grp Sat Flow(s),veh/h/ln	1775	0	1458				0	1863	1458	815	1863	0
Q Serve(g_s), s	10.2	0.0	4.3				0.0	7.4	1.5	5.7	0.0	0.0
Cycle Q Clear(g_c), s	10.2	0.0	4.3				0.0	7.4	1.5	13.1	0.0	0.0
Prop In Lane	0.99		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	250	0	206				0	1352	1058	604	1352	0
V/C Ratio(X)	0.83	0.00	0.37				0.00	0.32	0.08	0.43	0.20	0.00
Avail Cap(c_a), veh/h	355	0	292				0	1352	1058	604	1352	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.93	0.93	0.00
Uniform Delay (d), s/veh	37.6	0.0	35.0				0.0	4.4	3.6	0.7	0.0	0.0
Incr Delay (d2), s/veh	10.5	0.0	1.1				0.0	0.6	0.1	2.0	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	0.0	1.8				0.0	3.9	0.6	1.6	0.1	0.0
LnGrp Delay(d), s/veh	48.1	0.0	36.1				0.0	5.0	3.7	2.8	0.3	0.0
LnGrp LOS	D		D					A	A	A	A	
Approach Vol, veh/h		283						512			522	
Approach Delay, s/veh		44.9						4.8			1.5	
Approach LOS		D						A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		71.3		18.7		71.3		
Change Period (Y+Rc), s		6.0		6.0		6.0		
Max Green Setting (Gmax), s		60.0		18.0		60.0		
Max Q Clear Time (g_c+I1), s		9.4		12.2		15.1		
Green Ext Time (p_c), s		1.9		0.5		3.0		

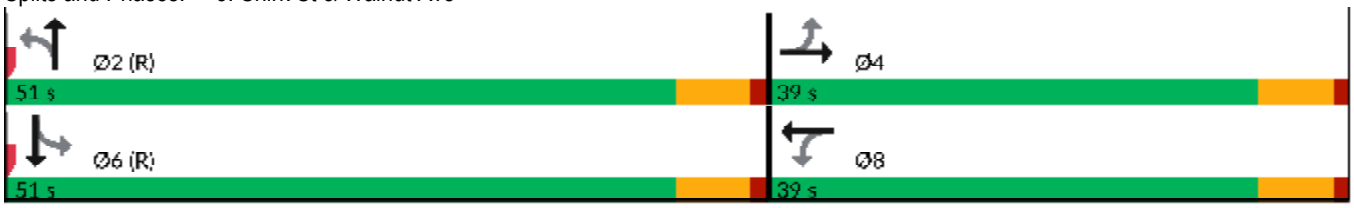
Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	12.1
HCM 2010 LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	58	33	56	77	206	48	222	35	105	208	7
Future Volume (vph)	1	58	33	56	77	206	48	222	35	105	208	7
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.951			0.918			0.985			0.997	
Flt Protected					0.992			0.992			0.984	
Satd. Flow (prot)	0	1771	0	0	1696	0	0	1820	0	0	1827	0
Flt Permitted		0.996			0.927			0.901			0.784	
Satd. Flow (perm)	0	1764	0	0	1585	0	0	1653	0	0	1456	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		36			98			10			2	
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2654	
Travel Time (s)		22.3			33.4			36.6			32.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	63	36	61	84	224	52	241	38	114	226	8
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	100	0	0	369	0	0	331	0	0	348	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1		1	1	
Detector Template												
Leading Detector (ft)	50	50		50	50		50	50		50	50	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	50	50		50	50		50	50		50	50	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	24.0	24.0		24.0	24.0		24.0	24.0		24.0	24.0	
Total Split (s)	39.0	39.0		39.0	39.0		51.0	51.0		51.0	51.0	
Total Split (%)	43.3%	43.3%		43.3%	43.3%		56.7%	56.7%		56.7%	56.7%	
Maximum Green (s)	33.0	33.0		33.0	33.0		45.0	45.0		45.0	45.0	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		6.0			6.0			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		C-Max	C-Max		C-Max	C-Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Don't Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		21.7			21.7			56.3			56.3	
Actuated g/C Ratio		0.24			0.24			0.63			0.63	
v/c Ratio		0.22			0.81			0.32			0.38	
Control Delay (s/veh)		17.3			36.8			10.0			12.3	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay (s/veh)		17.3			36.8			10.0			12.3	
LOS		B			D			B			B	
Approach Delay (s/veh)		17.3			36.8			10.0			12.3	
Approach LOS		B			D			B			B	

Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green			
Natural Cycle: 50			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.81			
Intersection Signal Delay (s/veh): 19.9		Intersection LOS: B	
Intersection Capacity Utilization 68.4%		ICU Level of Service C	
Analysis Period (min) 15			

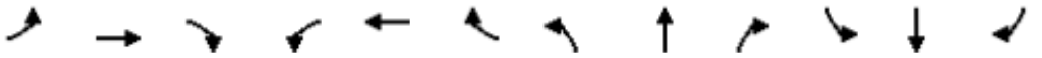
Splits and Phases: 5: Shirk St & Walnut Ave



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	58	33	56	77	206	48	222	35	105	208	7
Future Volume (veh/h)	1	58	33	56	77	206	48	222	35	105	208	7
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1750	1863	1750	1750	1863	1750	1750	1863	1750	1750	1863	1750
Adj Flow Rate, veh/h	1	63	36	61	84	224	52	241	38	114	226	8
Adj No. of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	41	287	162	97	111	249	175	787	119	337	645	22
Arrive On Green	0.26	0.26	0.26	0.26	0.26	0.26	0.61	0.61	0.61	0.61	0.61	0.61
Sat Flow, veh/h	3	1119	631	199	431	973	211	1290	195	465	1057	36
Grp Volume(v), veh/h	100	0	0	369	0	0	331	0	0	348	0	0
Grp Sat Flow(s),veh/h/ln	1753	0	0	1603	0	0	1695	0	0	1558	0	0
Q Serve(g_s), s	0.0	0.0	0.0	14.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Cycle Q Clear(g_c), s	4.1	0.0	0.0	20.0	0.0	0.0	7.8	0.0	0.0	8.3	0.0	0.0
Prop In Lane	0.01		0.36	0.17		0.61	0.16		0.11	0.33		0.02
Lane Grp Cap(c), veh/h	490	0	0	457	0	0	1081	0	0	1004	0	0
V/C Ratio(X)	0.20	0.00	0.00	0.81	0.00	0.00	0.31	0.00	0.00	0.35	0.00	0.00
Avail Cap(c_a), veh/h	682	0	0	632	0	0	1081	0	0	1004	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	26.4	0.0	0.0	32.2	0.0	0.0	8.3	0.0	0.0	8.4	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	5.4	0.0	0.0	0.7	0.0	0.0	0.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	0.0	9.5	0.0	0.0	4.1	0.0	0.0	4.4	0.0	0.0
LnGrp Delay(d), s/veh	26.6	0.0	0.0	37.6	0.0	0.0	9.1	0.0	0.0	9.4	0.0	0.0
LnGrp LOS	C			D			A			A		
Approach Vol, veh/h		100			369			331			348	
Approach Delay, s/veh		26.6			37.6			9.1			9.4	
Approach LOS		C			D			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		60.9		29.1		60.9		29.1
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0
Max Green Setting (Gmax), s		45.0		33.0		45.0		33.0
Max Q Clear Time (g_c+I1), s		9.8		6.1		10.3		22.0
Green Ext Time (p_c), s		1.2		0.3		1.4		1.1

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	19.9
HCM 2010 LOS	B



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	58	0	401	163	532	0	0	610	277
Future Volume (vph)	0	0	0	58	0	401	163	532	0	0	610	277
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.950		0.950					
Satd. Flow (prot)	0	0	0	0	1770	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.950		0.950					
Satd. Flow (perm)	0	0	0	0	1770	1458	1630	1863	0	0	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	63	0	436	177	578	0	0	663	301
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	63	436	177	578	0	0	663	301
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

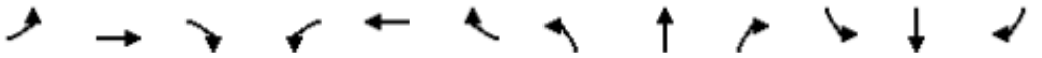
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	63.9%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	114.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	58	0	401	163	532	0	0	610	277
Future Vol, veh/h	0	0	0	58	0	401	163	532	0	0	610	277
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	63	0	436	177	578	0	0	663	301
Number of Lanes	0	0	0	0	1	1	1	1	0	0	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	42.9	115.1	151.3
HCM LOS	E	F	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	0%	0%
Vol Thru, %	0%	100%	0%	0%	100%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	163	532	58	401	610	277
LT Vol	163	0	58	0	0	0
Through Vol	0	532	0	0	610	0
RT Vol	0	0	0	401	0	277
Lane Flow Rate	177	578	63	436	663	301
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.4	1.225	0.149	0.887	1.391	0.573
Departure Headway (Hd)	8.615	8.097	9.212	7.967	7.929	7.203
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	420	451	391	458	464	503
Service Time	6.315	5.797	6.912	5.667	5.629	4.903
HCM Lane V/C Ratio	0.421	1.282	0.161	0.952	1.429	0.598
HCM Control Delay, s/veh	16.9	145.2	13.5	47.1	211.3	19.1
HCM Lane LOS	C	F	B	E	F	C
HCM 95th-tile Q	1.9	21.9	0.5	9.5	30.1	3.6



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	198	2	74	0	0	0	0	514	81	262	296	0
Future Volume (vph)	198	2	74	0	0	0	0	514	81	262	296	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	215	2	80	0	0	0	0	559	88	285	322	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	217	80	0	0	0	0	559	88	285	322	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

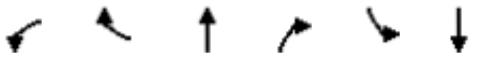
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	63.9%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	37
Intersection LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	198	2	74	0	0	0	0	514	81	262	296	0
Future Vol, veh/h	198	2	74	0	0	0	0	514	81	262	296	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	215	2	80	0	0	0	0	559	88	285	322	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	16.6	63.3	19
HCM LOS	C	F	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	99%	0%	100%	0%
Vol Thru, %	100%	0%	1%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	514	81	200	74	262	296
LT Vol	0	0	198	0	262	0
Through Vol	514	0	2	0	0	296
RT Vol	0	81	0	74	0	0
Lane Flow Rate	559	88	217	80	285	322
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	1.028	0.145	0.492	0.155	0.568	0.596
Departure Headway (Hd)	6.627	5.912	8.146	6.92	7.18	6.669
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	542	601	439	515	498	537
Service Time	4.417	3.702	5.939	4.712	4.978	4.466
HCM Lane V/C Ratio	1.031	0.146	0.494	0.155	0.572	0.6
HCM Control Delay, s/veh	71.8	9.7	18.7	11	19.1	19
HCM Lane LOS	F	A	C	B	C	C
HCM 95th-tile Q	15.3	0.5	2.7	0.5	3.5	3.9



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	9	12	213	10	15	108
Future Volume (vph)	9	12	213	10	15	108
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	2679		2654			2339
Travel Time (s)	33.2		32.9			29.0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	10	13	232	11	16	117
Shared Lane Traffic (%)						
Lane Group Flow (vph)	10	13	232	11	16	117
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	23.5%	ICU Level of Service	A
Analysis Period (min)	15		

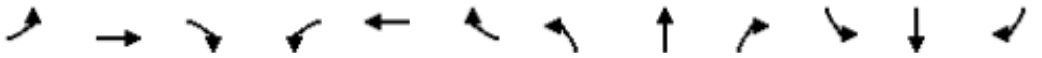
Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	9	12	213	10	15	108
Future Vol, veh/h	9	12	213	10	15	108
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	50	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	13	232	11	16	117

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	381	232	0	0	243	0
Stage 1	232	-	-	-	-	-
Stage 2	149	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	621	807	-	-	1323	-
Stage 1	807	-	-	-	-	-
Stage 2	879	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	614	807	-	-	1323	-
Mov Cap-2 Maneuver	614	-	-	-	-	-
Stage 1	807	-	-	-	-	-
Stage 2	868	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	10.1	0	0.9
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	614	807	1323	-
HCM Lane V/C Ratio	-	-	0.016	0.016	0.012	-
HCM Control Delay (s/veh)	-	-	11	9.5	7.8	-
HCM Lane LOS	-	-	B	A	A	-
HCM 95th %tile Q(veh)	-	-	0	0	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	104	1	36	102	1	2	1	134	4	1	3
Future Volume (vph)	3	104	1	36	102	1	2	1	134	4	1	3
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	100		50	100		50	100		50	100		50
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2679			1533			2637			1348	
Travel Time (s)		33.2			19.0			32.7			16.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	113	1	39	111	1	2	1	146	4	1	3
Shared Lane Traffic (%)												
Lane Group Flow (vph)	3	113	1	39	111	1	2	1	146	4	1	3
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 27.8%		ICU Level of Service A	
Analysis Period (min) 15			

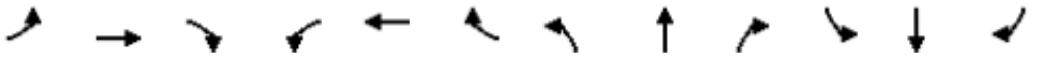
Intersection	
Int Delay, s/veh	6.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	104	1	36	102	1	2	1	134	4	1	3
Future Vol, veh/h	3	104	1	36	102	1	2	1	134	4	1	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	50	100	-	50	100	-	50	100	-	50
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	113	1	39	111	1	2	1	146	4	1	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	143	160	1	73	17	1	4	0	0	147	0	0
Stage 1	9	9	-	5	5	-	-	-	-	-	-	-
Stage 2	134	151	-	68	12	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	826	732	1084	918	877	1084	1618	-	-	1435	-	-
Stage 1	1012	888	-	1017	892	-	-	-	-	-	-	-
Stage 2	869	772	-	942	886	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	743	729	1084	805	873	1084	1618	-	-	1435	-	-
Mov Cap-2 Maneuver	743	729	-	805	873	-	-	-	-	-	-	-
Stage 1	1011	885	-	1016	891	-	-	-	-	-	-	-
Stage 2	759	771	-	819	883	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.8	9.7	0.1	3.8
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBL	SBT	SBR
Capacity (veh/h)	1618	-	-	743	729	1084	805	873	1084	1435	-	-
HCM Lane V/C Ratio	0.001	-	-	0.004	0.155	0.001	0.049	0.127	0.001	0.003	-	-
HCM Control Delay (s/veh)	7.2	-	-	9.9	10.8	8.3	9.7	9.7	8.3	7.5	-	-
HCM Lane LOS	A	-	-	A	B	A	A	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.5	0	0.2	0.4	0	0	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	69	36	58	79	210	54	283	40	114	254	8
Future Volume (vph)	1	69	36	58	79	210	54	283	40	114	254	8
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.954			0.918			0.986			0.997	
Flt Protected					0.992			0.993			0.985	
Satd. Flow (prot)	0	1777	0	0	1696	0	0	1824	0	0	1829	0
Flt Permitted					0.992			0.993			0.985	
Satd. Flow (perm)	0	1777	0	0	1696	0	0	1824	0	0	1829	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2654	
Travel Time (s)		22.3			33.4			36.6			32.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	75	39	63	86	228	59	308	43	124	276	9
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	115	0	0	377	0	0	410	0	0	409	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

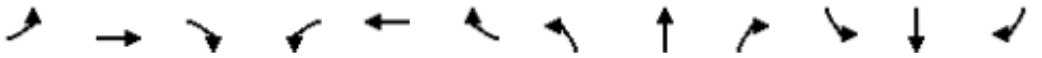
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 71.0%		ICU Level of Service C	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	25.5
Intersection LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	69	36	58	79	210	54	283	40	114	254	8
Future Vol, veh/h	1	69	36	58	79	210	54	283	40	114	254	8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	75	39	63	86	228	59	308	43	124	276	9
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	13.2	23.6	27.7	28.5
HCM LOS	B	C	D	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	14%	1%	17%	30%
Vol Thru, %	75%	65%	23%	68%
Vol Right, %	11%	34%	61%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	377	106	347	376
LT Vol	54	1	58	114
Through Vol	283	69	79	254
RT Vol	40	36	210	8
Lane Flow Rate	410	115	377	409
Geometry Grp	1	1	1	1
Degree of Util (X)	0.758	0.245	0.696	0.765
Departure Headway (Hd)	6.66	7.663	6.642	6.735
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	545	467	543	535
Service Time	4.702	5.739	4.683	4.777
HCM Lane V/C Ratio	0.752	0.246	0.694	0.764
HCM Control Delay, s/veh	27.7	13.2	23.6	28.5
HCM Lane LOS	D	B	C	D
HCM 95th-tile Q	6.7	1	5.4	6.8



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	37	94	57	16	338	19	117	47	20	24	39	53
Future Volume (vph)	37	94	57	16	338	19	117	47	20	24	39	53
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.938	
Flt Protected		0.986			0.998			0.966			0.990	
Satd. Flow (prot)	0	1837	1458	0	1859	1458	0	1799	1458	0	1730	0
Flt Permitted		0.986			0.998			0.966			0.990	
Satd. Flow (perm)	0	1837	1458	0	1859	1458	0	1799	1458	0	1730	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2637	
Travel Time (s)		33.4			26.9			28.1			32.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	40	102	62	17	367	21	127	51	22	26	42	58
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	142	62	0	384	21	0	178	22	0	126	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

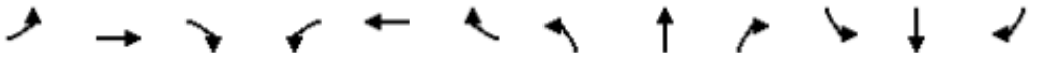
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	51.3%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	14.4
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	37	94	57	16	338	19	117	47	20	24	39	53
Future Vol, veh/h	37	94	57	16	338	19	117	47	20	24	39	53
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	40	102	62	17	367	21	127	51	22	26	42	58
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	10.6	18.1	12.7	11.5
HCM LOS	B	C	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	71%	0%	28%	0%	5%	0%	21%
Vol Thru, %	29%	0%	72%	0%	95%	0%	34%
Vol Right, %	0%	100%	0%	100%	0%	100%	46%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	164	20	131	57	354	19	116
LT Vol	117	0	37	0	16	0	24
Through Vol	47	0	94	0	338	0	39
RT Vol	0	20	0	57	0	19	53
Lane Flow Rate	178	22	142	62	385	21	126
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.341	0.035	0.252	0.095	0.637	0.03	0.228
Departure Headway (Hd)	6.886	5.813	6.382	5.526	5.956	5.224	6.508
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	521	613	561	646	604	683	550
Service Time	4.647	3.574	4.142	3.286	3.704	2.971	4.577
HCM Lane V/C Ratio	0.342	0.036	0.253	0.096	0.637	0.031	0.229
HCM Control Delay, s/veh	13.2	8.8	11.3	8.9	18.6	8.1	11.5
HCM Lane LOS	B	A	B	A	C	A	B
HCM 95th-tile Q	1.5	0.1	1	0.3	4.5	0.1	0.9



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	62	0	401	163	536	0	0	613	277
Future Volume (vph)	0	0	0	62	0	401	163	536	0	0	613	277
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850					0.953	
Flt Protected					0.950		0.950					
Satd. Flow (prot)	0	0	0	0	1770	1458	1630	1863	0	1716	1775	0
Flt Permitted					0.950		0.950					
Satd. Flow (perm)	0	0	0	0	1770	1458	1630	1863	0	1716	1775	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	67	0	436	177	583	0	0	666	301
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	67	436	177	583	0	0	967	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

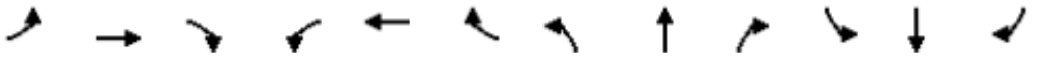
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	72.7%	ICU Level of Service	C
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	238.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	62	0	401	163	536	0	0	613	277
Future Vol, veh/h	0	0	0	62	0	401	163	536	0	0	613	277
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	67	0	436	177	583	0	0	666	301
Number of Lanes	0	0	0	0	1	1	1	1	0	1	1	0

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	38.2	105.3	446.6
HCM LOS	E	F	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	100%	0%	0%	0%
Vol Thru, %	0%	100%	0%	0%	100%	69%
Vol Right, %	0%	0%	0%	100%	0%	31%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	163	536	62	401	0	890
LT Vol	163	0	62	0	0	0
Through Vol	0	536	0	0	0	613
RT Vol	0	0	0	401	0	277
Lane Flow Rate	177	583	67	436	0	967
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.385	1.185	0.153	0.846	0	1.936
Departure Headway (Hd)	9.036	8.512	9.452	8.188	7.807	7.581
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	400	431	382	445	0	493
Service Time	6.736	6.212	7.152	5.888	5.507	5.281
HCM Lane V/C Ratio	0.443	1.353	0.175	0.98	0	1.961
HCM Control Delay, s/veh	17.3	132	13.9	41.9	10.5	446.6
HCM Lane LOS	C	F	B	E	N	F
HCM 95th-tile Q	1.8	19.4	0.5	8.3	0	61.2



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	198	2	74	0	0	0	0	518	96	262	303	0
Future Volume (vph)	198	2	74	0	0	0	0	518	96	262	303	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	215	2	80	0	0	0	0	563	104	285	329	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	217	80	0	0	0	0	563	104	285	329	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	64.9%	ICU Level of Service	C
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	38.2
Intersection LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	198	2	74	0	0	0	0	518	96	262	303	0
Future Vol, veh/h	198	2	74	0	0	0	0	518	96	262	303	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	215	2	80	0	0	0	0	563	104	285	329	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	16.7	65.1	19.5
HCM LOS	C	F	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	99%	0%	100%	0%
Vol Thru, %	100%	0%	1%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	518	96	200	74	262	303
LT Vol	0	0	198	0	262	0
Through Vol	518	0	2	0	0	303
RT Vol	0	96	0	74	0	0
Lane Flow Rate	563	104	217	80	285	329
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	1.04	0.172	0.495	0.156	0.571	0.613
Departure Headway (Hd)	6.647	5.933	8.189	6.963	7.315	6.703
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	541	599	437	512	496	534
Service Time	4.44	3.725	5.984	4.756	5.015	4.503
HCM Lane V/C Ratio	1.041	0.174	0.497	0.156	0.575	0.616
HCM Control Delay, s/veh	75.3	10	18.8	11.1	19.3	19.7
HCM Lane LOS	F	A	C	B	C	C
HCM 95th-tile Q	15.8	0.6	2.7	0.5	3.5	4.1

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	15	24	220	12	22	108
Future Volume (vph)	15	24	220	12	22	108
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	739		548			2339
Travel Time (s)	9.2		6.8			29.0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	16	26	239	13	24	117
Shared Lane Traffic (%)						
Lane Group Flow (vph)	16	26	239	13	24	117
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Stop

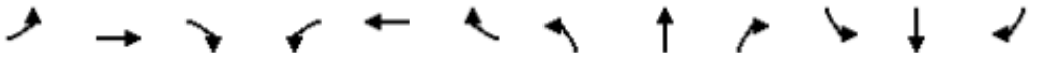
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 28.2%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	9
Intersection LOS	A

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	15	24	220	12	22	108
Future Vol, veh/h	15	24	220	12	22	108
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	16	26	239	13	24	117
Number of Lanes	1	1	1	1	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	8.1	9.5	8.4
HCM LOS	A	A	A

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	100%	0%	100%	0%
Vol Thru, %	100%	0%	0%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	220	12	15	24	22	108
LT Vol	0	0	15	0	22	0
Through Vol	220	0	0	0	0	108
RT Vol	0	12	0	24	0	0
Lane Flow Rate	239	13	16	26	24	117
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.311	0.014	0.027	0.035	0.035	0.158
Departure Headway (Hd)	4.677	3.976	5.969	4.764	5.335	4.834
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	758	886	603	755	674	745
Service Time	2.468	1.766	3.676	2.47	3.044	2.542
HCM Lane V/C Ratio	0.315	0.015	0.027	0.034	0.036	0.157
HCM Control Delay, s/veh	9.6	6.8	8.8	7.6	8.2	8.4
HCM Lane LOS	A	A	A	A	A	A
HCM 95th-tile Q	1.3	0	0.1	0.1	0.1	0.6



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	3	116	2	47	105	1	3	1	167	4	1	3
Future Volume (vph)	3	116	2	47	105	1	3	1	167	4	1	3
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	100		50	100		50	100		50	100		50
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1360			1533			635			1348	
Travel Time (s)		16.9			19.0			7.9			16.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	3	126	2	51	114	1	3	1	182	4	1	3
Shared Lane Traffic (%)												
Lane Group Flow (vph)	3	126	2	51	114	1	3	1	182	4	1	3
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 30.7%		ICU Level of Service A	
Analysis Period (min) 15			

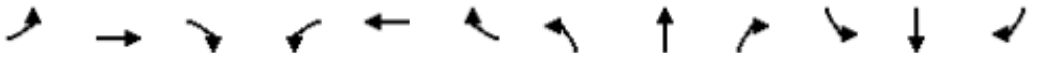
Intersection	
Int Delay, s/veh	6.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	3	116	2	47	105	1	3	1	167	4	1	3
Future Vol, veh/h	3	116	2	47	105	1	3	1	167	4	1	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	50	100	-	50	100	-	50	100	-	50
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	3	126	2	51	114	1	3	1	182	4	1	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	165	198	1	82	19	1	4	0	0	183	0	0
Stage 1	9	9	-	7	7	-	-	-	-	-	-	-
Stage 2	156	189	-	75	12	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	800	698	1084	905	875	1084	1618	-	-	1392	-	-
Stage 1	1012	888	-	1015	890	-	-	-	-	-	-	-
Stage 2	846	744	-	934	886	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	716	695	1084	775	871	1084	1618	-	-	1392	-	-
Mov Cap-2 Maneuver	716	695	-	775	871	-	-	-	-	-	-	-
Stage 1	1010	885	-	1013	888	-	-	-	-	-	-	-
Stage 2	735	743	-	797	883	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	11.2	9.9	0.1	3.8
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBL	SBT	SBR
Capacity (veh/h)	1618	-	-	716	695	1084	775	871	1084	1392	-	-
HCM Lane V/C Ratio	0.002	-	-	0.005	0.181	0.002	0.066	0.131	0.001	0.003	-	-
HCM Control Delay (s/veh)	7.2	-	-	10.1	11.3	8.3	10	9.8	8.3	7.6	-	-
HCM Lane LOS	A	-	-	B	B	A	B	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.7	0	0.2	0.5	0	0	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	69	36	58	79	212	54	287	40	120	266	8
Future Volume (vph)	1	69	36	58	79	212	54	287	40	120	266	8
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.954			0.918			0.986			0.997	
Flt Protected					0.992			0.993			0.985	
Satd. Flow (prot)	0	1777	0	0	1696	0	0	1824	0	0	1829	0
Flt Permitted					0.992			0.993			0.985	
Satd. Flow (perm)	0	1777	0	0	1696	0	0	1824	0	0	1829	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2106	
Travel Time (s)		22.3			33.4			36.6			26.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	75	39	63	86	230	59	312	43	130	289	9
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	115	0	0	379	0	0	414	0	0	428	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

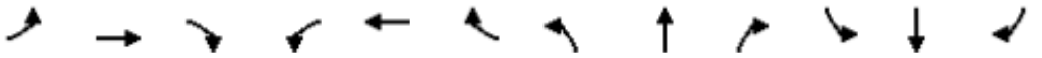
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 73.3%		ICU Level of Service D	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	27.9
Intersection LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	1	69	36	58	79	212	54	287	40	120	266	8
Future Vol, veh/h	1	69	36	58	79	212	54	287	40	120	266	8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	1	75	39	63	86	230	59	312	43	130	289	9
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	13.5	24.8	29.6	32.8
HCM LOS	B	C	D	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	14%	1%	17%	30%
Vol Thru, %	75%	65%	23%	68%
Vol Right, %	10%	34%	61%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	381	106	349	394
LT Vol	54	1	58	120
Through Vol	287	69	79	266
RT Vol	40	36	212	8
Lane Flow Rate	414	115	379	428
Geometry Grp	1	1	1	1
Degree of Util (X)	0.777	0.251	0.711	0.809
Departure Headway (Hd)	6.758	7.833	6.749	6.799
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	534	456	535	531
Service Time	4.813	5.912	4.802	4.854
HCM Lane V/C Ratio	0.775	0.252	0.708	0.806
HCM Control Delay, s/veh	29.6	13.5	24.8	32.8
HCM Lane LOS	D	B	C	D
HCM 95th-tile Q	7.1	1	5.7	7.8



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	37	100	57	16	340	25	117	52	20	43	52	53
Future Volume (vph)	37	100	57	16	340	25	117	52	20	43	52	53
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.952	
Flt Protected		0.987			0.998			0.967			0.986	
Satd. Flow (prot)	0	1839	1458	0	1859	1458	0	1801	1458	0	1749	0
Flt Permitted		0.987			0.998			0.967			0.986	
Satd. Flow (perm)	0	1839	1458	0	1859	1458	0	1801	1458	0	1749	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2002	
Travel Time (s)		33.4			26.9			28.1			24.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	40	109	62	17	370	27	127	57	22	47	57	58
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	149	62	0	387	27	0	184	22	0	162	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	52.0%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	15.2
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	37	100	57	16	340	25	117	52	20	43	52	53
Future Vol, veh/h	37	100	57	16	340	25	117	52	20	43	52	53
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	40	109	62	17	370	27	127	57	22	47	57	58
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	11.1	19.3	13.3	12.6
HCM LOS	B	C	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	69%	0%	27%	0%	4%	0%	29%
Vol Thru, %	31%	0%	73%	0%	96%	0%	35%
Vol Right, %	0%	100%	0%	100%	0%	100%	36%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	169	20	137	57	356	25	148
LT Vol	117	0	37	0	16	0	43
Through Vol	52	0	100	0	340	0	52
RT Vol	0	20	0	57	0	25	53
Lane Flow Rate	184	22	149	62	387	27	161
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.359	0.036	0.273	0.099	0.66	0.041	0.299
Departure Headway (Hd)	7.04	5.976	6.589	5.738	6.14	5.407	6.687
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	509	595	542	620	584	658	534
Service Time	4.824	3.759	4.369	3.516	3.905	3.171	4.775
HCM Lane V/C Ratio	0.361	0.037	0.275	0.1	0.663	0.041	0.301
HCM Control Delay, s/veh	13.8	9	11.9	9.2	20.1	8.4	12.6
HCM Lane LOS	B	A	B	A	C	A	B
HCM 95th-tile Q	1.6	0.1	1.1	0.3	4.9	0.1	1.2

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	108	9	3	99	18	12
Future Volume (vph)	108	9	3	99	18	12
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.989				0.947	
Flt Protected				0.999	0.971	
Satd. Flow (prot)	1842	0	0	1861	1713	0
Flt Permitted				0.999	0.971	
Satd. Flow (perm)	1842	0	0	1861	1713	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	739			580	300	
Travel Time (s)	9.2			7.2	3.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	117	10	3	108	20	13
Shared Lane Traffic (%)						
Lane Group Flow (vph)	127	0	0	111	33	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 17.6%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	1.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	108	9	3	99	18	12
Future Vol, veh/h	108	9	3	99	18	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	117	10	3	108	20	13

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	127	0	236	122
Stage 1	-	-	-	-	122	-
Stage 2	-	-	-	-	114	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1459	-	752	929
Stage 1	-	-	-	-	903	-
Stage 2	-	-	-	-	911	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1459	-	750	929
Mov Cap-2 Maneuver	-	-	-	-	750	-
Stage 1	-	-	-	-	903	-
Stage 2	-	-	-	-	909	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.2	9.6
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	813	-	-	1459	-
HCM Lane V/C Ratio	0.04	-	-	0.002	-
HCM Control Delay (s/veh)	9.6	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	112	0	1	103	0	1
Future Volume (vph)	112	0	1	103	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt					0.865	
Flt Protected						
Satd. Flow (prot)	1863	0	0	1863	1611	0
Flt Permitted						
Satd. Flow (perm)	1863	0	0	1863	1611	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	580			1360	308	
Travel Time (s)	7.2			16.9	3.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	122	0	1	112	0	1
Shared Lane Traffic (%)						
Lane Group Flow (vph)	122	0	0	113	1	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 16.2%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	112	0	1	103	0	1
Future Vol, veh/h	112	0	1	103	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	122	0	1	112	0	1

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	122	0	236	122
Stage 1	-	-	-	-	122	-
Stage 2	-	-	-	-	114	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1465	-	752	929
Stage 1	-	-	-	-	903	-
Stage 2	-	-	-	-	911	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1465	-	751	929
Mov Cap-2 Maneuver	-	-	-	-	751	-
Stage 1	-	-	-	-	903	-
Stage 2	-	-	-	-	910	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.1	8.9
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	929	-	-	1465	-
HCM Lane V/C Ratio	0.001	-	-	0.001	-
HCM Control Delay (s/veh)	8.9	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0	-	-	0	-

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	0	19	291	6	0	138
Future Volume (vph)	0	19	291	6	0	138
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.865	0.997			
Flt Protected						
Satd. Flow (prot)	0	1611	1857	0	0	1863
Flt Permitted						
Satd. Flow (perm)	0	1611	1857	0	0	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	2684		2106			548
Travel Time (s)	33.3		26.1			6.8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	21	316	7	0	150
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	21	323	0	0	150
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 25.7%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	19	291	6	0	138
Future Vol, veh/h	0	19	291	6	0	138
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	21	316	7	0	150

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	320	0	0	323	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.22	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	0	721	-	-	1237	-
Stage 1	0	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	721	-	-	1237	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	10.1	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	721	1237	-
HCM Lane V/C Ratio	-	-	0.029	-	-
HCM Control Delay (s/veh)	-	-	10.1	0	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	34	31	11	1	1	12
Future Volume (vph)	34	31	11	1	1	12
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.935				0.875	
Flt Protected	0.975			0.956		
Satd. Flow (prot)	1698	0	0	1781	1630	0
Flt Permitted	0.975			0.956		
Satd. Flow (perm)	1698	0	0	1781	1630	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	2684			2002	635	
Travel Time (s)	33.3			24.8	7.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	37	34	12	1	1	13
Shared Lane Traffic (%)						
Lane Group Flow (vph)	71	0	0	13	14	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 17.8%		ICU Level of Service A	
Analysis Period (min) 15			

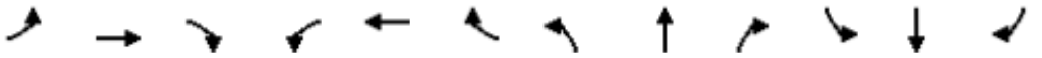
Intersection	
Int Delay, s/veh	7.2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	34	31	11	1	1	12
Future Vol, veh/h	34	31	11	1	1	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	37	34	12	1	1	13

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	33	8	14	0	-	0
Stage 1	8	-	-	-	-	-
Stage 2	25	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	980	1074	1604	-	-	-
Stage 1	1015	-	-	-	-	-
Stage 2	998	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	973	1074	1604	-	-	-
Mov Cap-2 Maneuver	973	-	-	-	-	-
Stage 1	1008	-	-	-	-	-
Stage 2	998	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.8	6.7	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1604	-	1019	-	-
HCM Lane V/C Ratio	0.007	-	0.069	-	-
HCM Control Delay (s/veh)	7.3	0	8.8	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.2	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	62	0	401	163	536	0	0	613	277
Future Volume (vph)	0	0	0	62	0	401	163	536	0	0	613	277
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.950		0.950					
Satd. Flow (prot)	0	0	0	0	1770	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.950		0.345					
Satd. Flow (perm)	0	0	0	0	1770	1458	592	1863	0	0	1863	1458
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)						302						301
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	67	0	436	177	583	0	0	666	301
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	67	436	177	583	0	0	666	301
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors				1	1	1	1	1			1	1
Detector Template												
Leading Detector (ft)				50	50	50	50	50			50	50
Trailing Detector (ft)				0	0	0	0	0			0	0
Detector 1 Position(ft)				0	0	0	0	0			0	0
Detector 1 Size(ft)				50	50	50	50	50			50	50
Detector 1 Type				Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex			Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Detector 1 Queue (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Detector 1 Delay (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Turn Type				Perm	NA	Perm	Perm	NA			NA	Perm
Protected Phases					8			2			6	
Permitted Phases				8		8	2					6
Detector Phase				8	8	8	2	2			6	6
Switch Phase												
Minimum Initial (s)				4.0	4.0	4.0	4.0	4.0			4.0	4.0
Minimum Split (s)				24.0	24.0	24.0	24.0	24.0			24.0	24.0
Total Split (s)				31.0	31.0	31.0	59.0	59.0			59.0	59.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (%)				34.4%	34.4%	34.4%	65.6%	65.6%			65.6%	65.6%
Maximum Green (s)				25.0	25.0	25.0	53.0	53.0			53.0	53.0
Yellow Time (s)				5.0	5.0	5.0	5.0	5.0			5.0	5.0
All-Red Time (s)				1.0	1.0	1.0	1.0	1.0			1.0	1.0
Lost Time Adjust (s)					0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)					6.0	6.0	6.0	6.0			6.0	6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)				3.0	3.0	3.0	3.0	3.0			3.0	3.0
Recall Mode				None	None	None	C-Max	C-Max			C-Max	C-Max
Walk Time (s)				7.0	7.0	7.0	7.0	7.0			7.0	7.0
Flash Don't Walk (s)				11.0	11.0	11.0	11.0	11.0			11.0	11.0
Pedestrian Calls (#/hr)				0	0	0	0	0			0	0
Act Effct Green (s)					15.5	15.5	62.5	62.5			62.5	62.5
Actuated g/C Ratio					0.17	0.17	0.69	0.69			0.69	0.69
v/c Ratio					0.22	0.87	0.43	0.45			0.52	0.27
Control Delay (s/veh)					30.4	29.1	9.8	6.8			9.8	1.7
Queue Delay					0.0	0.0	0.0	0.0			0.0	0.0
Total Delay (s/veh)					30.4	29.1	9.8	6.8			9.8	1.7
LOS					C	C	A	A			A	A
Approach Delay (s/veh)					29.2			7.5			7.3	
Approach LOS					C			A			A	

Intersection Summary	
Area Type:	Other
Cycle Length: 90	
Actuated Cycle Length: 90	
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBT, Start of Green	
Natural Cycle: 60	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay (s/veh): 12.3	Intersection LOS: B
Intersection Capacity Utilization 69.1%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 1: Shirk St & SR 198 WB Ramps

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	62	0	401	163	536	0	0	613	277
Future Volume (veh/h)	0	0	0	62	0	401	163	536	0	0	613	277
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1750	1863	1716	1716	1863	0	0	1863	1716
Adj Flow Rate, veh/h				67	0	436	177	583	0	0	666	301
Adj No. of Lanes				0	1	1	1	1	0	0	1	1
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2
Cap, veh/h				493	0	405	272	1097	0	0	1097	859
Arrive On Green				0.28	0.00	0.28	1.00	1.00	0.00	0.00	0.59	0.59
Sat Flow, veh/h				1774	0	1458	533	1863	0	0	1863	1458
Grp Volume(v), veh/h				67	0	436	177	583	0	0	666	301
Grp Sat Flow(s),veh/h/ln				1774	0	1458	533	1863	0	0	1863	1458
Q Serve(g_s), s				2.6	0.0	25.0	26.6	0.0	0.0	0.0	20.6	9.6
Cycle Q Clear(g_c), s				2.6	0.0	25.0	47.2	0.0	0.0	0.0	20.6	9.6
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				493	0	405	272	1097	0	0	1097	859
V/C Ratio(X)				0.14	0.00	1.08	0.65	0.53	0.00	0.00	0.61	0.35
Avail Cap(c_a), veh/h				493	0	405	272	1097	0	0	1097	859
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.90	0.90	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				24.4	0.0	32.5	9.2	0.0	0.0	0.0	11.8	9.6
Incr Delay (d2), s/veh				0.1	0.0	66.6	10.4	1.7	0.0	0.0	2.5	1.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				1.3	0.0	17.5	4.5	0.5	0.0	0.0	11.3	4.1
LnGrp Delay(d), s/veh				24.5	0.0	99.1	19.6	1.7	0.0	0.0	14.3	10.7
LnGrp LOS				C		F	B	A			B	B
Approach Vol, veh/h					503			760			967	
Approach Delay, s/veh					89.2			5.8			13.2	
Approach LOS					F			A			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		59.0				59.0		31.0
Change Period (Y+Rc), s		6.0				6.0		6.0
Max Green Setting (Gmax), s		53.0				53.0		25.0
Max Q Clear Time (g_c+I1), s		49.2				22.6		27.0
Green Ext Time (p_c), s		1.6				4.2		0.0

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	27.8
HCM 2010 LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	198	2	74	0	0	0	0	518	96	262	303	0
Future Volume (vph)	198	2	74	0	0	0	0	518	96	262	303	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.407		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	698	1863	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			80						102			
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	215	2	80	0	0	0	0	563	104	285	329	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	217	80	0	0	0	0	563	104	285	329	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1	1					1	1	1	1	
Detector Template												
Leading Detector (ft)	50	50	50					50	50	50	50	
Trailing Detector (ft)	0	0	0					0	0	0	0	
Detector 1 Position(ft)	0	0	0					0	0	0	0	
Detector 1 Size(ft)	50	50	50					50	50	50	50	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex					Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Turn Type	Perm	NA	Perm					NA	Perm	Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4		4						2	6		
Detector Phase	4	4	4					2	2	6	6	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0					4.0	4.0	4.0	4.0	
Minimum Split (s)	24.0	24.0	24.0					24.0	24.0	24.0	24.0	
Total Split (s)	24.0	24.0	24.0					66.0	66.0	66.0	66.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (%)	26.7%	26.7%	26.7%					73.3%	73.3%	73.3%	73.3%	
Maximum Green (s)	18.0	18.0	18.0					60.0	60.0	60.0	60.0	
Yellow Time (s)	5.0	5.0	5.0					5.0	5.0	5.0	5.0	
All-Red Time (s)	1.0	1.0	1.0					1.0	1.0	1.0	1.0	
Lost Time Adjust (s)		0.0	0.0					0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.0	6.0					6.0	6.0	6.0	6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0					3.0	3.0	3.0	3.0	
Recall Mode	None	None	None					C-Max	C-Max	C-Max	C-Max	
Walk Time (s)	7.0	7.0	7.0					7.0	7.0	7.0	7.0	
Flash Don't Walk (s)	11.0	11.0	11.0					11.0	11.0	11.0	11.0	
Pedestrian Calls (#/hr)	0	0	0					0	0	0	0	
Act Effct Green (s)		15.2	15.2					62.8	62.8	62.8	62.8	
Actuated g/C Ratio		0.17	0.17					0.70	0.70	0.70	0.70	
v/c Ratio		0.72	0.26					0.43	0.10	0.59	0.25	
Control Delay (s/veh)		49.2	9.7					8.2	2.1	8.2	2.4	
Queue Delay		0.0	0.0					0.0	0.0	0.0	0.0	
Total Delay (s/veh)		49.2	9.7					8.2	2.1	8.2	2.4	
LOS		D	A					A	A	A	A	
Approach Delay (s/veh)		38.6						7.2			5.1	
Approach LOS		D						A			A	

Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBTL, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.72			
Intersection Signal Delay (s/veh): 12.3		Intersection LOS: B	
Intersection Capacity Utilization 69.1%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 2: Shirk St & SR 138 EB Ramps

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	198	2	74	0	0	0	0	518	96	262	303	0
Future Volume (veh/h)	198	2	74	0	0	0	0	518	96	262	303	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1750	1863	1716				0	1863	1716	1716	1863	0
Adj Flow Rate, veh/h	215	2	80				0	563	104	285	329	0
Adj No. of Lanes	0	1	1				0	1	1	1	1	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0
Cap, veh/h	258	2	214				0	1342	1050	503	1342	0
Arrive On Green	0.15	0.15	0.15				0.00	0.72	0.72	1.00	1.00	0.00
Sat Flow, veh/h	1758	16	1458				0	1863	1458	706	1863	0
Grp Volume(v), veh/h	217	0	80				0	563	104	285	329	0
Grp Sat Flow(s),veh/h/ln	1775	0	1458				0	1863	1458	706	1863	0
Q Serve(g_s), s	10.7	0.0	4.5				0.0	10.9	1.9	13.9	0.0	0.0
Cycle Q Clear(g_c), s	10.7	0.0	4.5				0.0	10.9	1.9	24.8	0.0	0.0
Prop In Lane	0.99		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	260	0	214				0	1342	1050	503	1342	0
V/C Ratio(X)	0.83	0.00	0.37				0.00	0.42	0.10	0.57	0.25	0.00
Avail Cap(c_a), veh/h	355	0	292				0	1342	1050	503	1342	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.85	0.85	0.00
Uniform Delay (d), s/veh	37.3	0.0	34.7				0.0	5.0	3.8	2.1	0.0	0.0
Incr Delay (d2), s/veh	11.8	0.0	1.1				0.0	1.0	0.2	3.9	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.1	0.0	1.9				0.0	5.8	0.8	3.0	0.1	0.0
LnGrp Delay(d), s/veh	49.1	0.0	35.8				0.0	6.0	4.0	6.0	0.4	0.0
LnGrp LOS	D		D					A	A	A	A	
Approach Vol, veh/h		297						667			614	
Approach Delay, s/veh		45.5						5.7			3.0	
Approach LOS		D						A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		70.8		19.2		70.8		
Change Period (Y+Rc), s		6.0		6.0		6.0		
Max Green Setting (Gmax), s		60.0		18.0		60.0		
Max Q Clear Time (g_c+I1), s		12.9		12.7		26.8		
Green Ext Time (p_c), s		2.7		0.5		4.0		

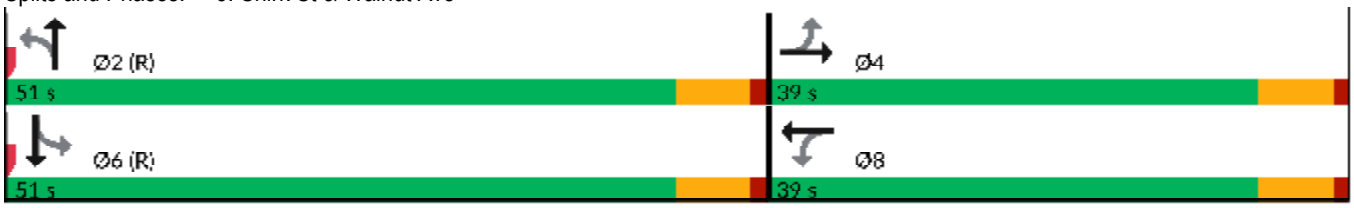
Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	12.1
HCM 2010 LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	1	69	36	58	79	212	54	287	40	120	266	8
Future Volume (vph)	1	69	36	58	79	212	54	287	40	120	266	8
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.954			0.918			0.986			0.997	
Flt Protected					0.992			0.993			0.985	
Satd. Flow (prot)	0	1777	0	0	1696	0	0	1824	0	0	1829	0
Flt Permitted		0.997			0.928			0.892			0.771	
Satd. Flow (perm)	0	1772	0	0	1587	0	0	1638	0	0	1432	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		32			97			9			2	
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2654	
Travel Time (s)		22.3			33.4			36.6			32.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	1	75	39	63	86	230	59	312	43	130	289	9
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	115	0	0	379	0	0	414	0	0	428	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1		1	1	
Detector Template												
Leading Detector (ft)	50	50		50	50		50	50		50	50	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	50	50		50	50		50	50		50	50	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	24.0	24.0		24.0	24.0		24.0	24.0		24.0	24.0	
Total Split (s)	39.0	39.0		39.0	39.0		51.0	51.0		51.0	51.0	
Total Split (%)	43.3%	43.3%		43.3%	43.3%		56.7%	56.7%		56.7%	56.7%	
Maximum Green (s)	33.0	33.0		33.0	33.0		45.0	45.0		45.0	45.0	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		6.0			6.0			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		C-Max	C-Max		C-Max	C-Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Don't Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		22.4			22.4			55.6			55.6	
Actuated g/C Ratio		0.25			0.25			0.62			0.62	
v/c Ratio		0.25			0.81			0.41			0.48	
Control Delay (s/veh)		18.7			36.6			11.6			13.5	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay (s/veh)		18.7			36.6			11.6			13.5	
LOS		B			D			B			B	
Approach Delay (s/veh)		18.7			36.6			11.6			13.5	
Approach LOS		B			D			B			B	

Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green			
Natural Cycle: 55			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.81			
Intersection Signal Delay (s/veh): 19.9		Intersection LOS: B	
Intersection Capacity Utilization 76.6%		ICU Level of Service D	
Analysis Period (min) 15			

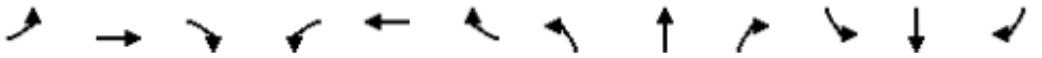
Splits and Phases: 5: Shirk St & Walnut Ave



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	69	36	58	79	212	54	287	40	120	266	8
Future Volume (veh/h)	1	69	36	58	79	212	54	287	40	120	266	8
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1750	1863	1750	1750	1863	1750	1750	1863	1750	1750	1863	1750
Adj Flow Rate, veh/h	1	75	39	63	86	230	59	312	43	130	289	9
Adj No. of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	41	305	157	99	113	255	157	807	106	304	652	19
Arrive On Green	0.26	0.26	0.26	0.26	0.26	0.26	0.60	0.60	0.60	0.60	0.60	0.60
Sat Flow, veh/h	3	1160	597	200	428	970	185	1336	176	417	1080	32
Grp Volume(v), veh/h	115	0	0	379	0	0	414	0	0	428	0	0
Grp Sat Flow(s),veh/h/ln	1760	0	0	1599	0	0	1698	0	0	1529	0	0
Q Serve(g_s), s	0.0	0.0	0.0	15.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0
Cycle Q Clear(g_c), s	4.6	0.0	0.0	20.5	0.0	0.0	10.4	0.0	0.0	12.2	0.0	0.0
Prop In Lane	0.01		0.34	0.17		0.61	0.14		0.10	0.30		0.02
Lane Grp Cap(c), veh/h	503	0	0	467	0	0	1071	0	0	975	0	0
V/C Ratio(X)	0.23	0.00	0.00	0.81	0.00	0.00	0.39	0.00	0.00	0.44	0.00	0.00
Avail Cap(c_a), veh/h	684	0	0	630	0	0	1071	0	0	975	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	26.2	0.0	0.0	31.9	0.0	0.0	9.1	0.0	0.0	9.3	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	5.8	0.0	0.0	1.1	0.0	0.0	1.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	0.0	0.0	9.8	0.0	0.0	5.5	0.0	0.0	6.0	0.0	0.0
LnGrp Delay(d), s/veh	26.4	0.0	0.0	37.7	0.0	0.0	10.2	0.0	0.0	10.8	0.0	0.0
LnGrp LOS	C			D			B			B		
Approach Vol, veh/h		115			379			414			428	
Approach Delay, s/veh		26.4			37.7			10.2			10.8	
Approach LOS		C			D			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		60.3		29.7		60.3		29.7
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0
Max Green Setting (Gmax), s		45.0		33.0		45.0		33.0
Max Q Clear Time (g_c+I1), s		12.4		6.6		14.2		22.5
Green Ext Time (p_c), s		1.6		0.3		1.8		1.1

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	19.6
HCM 2010 LOS	B



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	61	4	205	83	404	0	0	549	142
Future Volume (vph)	0	0	0	61	4	205	83	404	0	0	549	142
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.955		0.950					
Satd. Flow (prot)	0	0	0	0	1779	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.955		0.950					
Satd. Flow (perm)	0	0	0	0	1779	1458	1630	1863	0	0	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	66	4	223	90	439	0	0	597	154
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	70	223	90	439	0	0	597	154
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

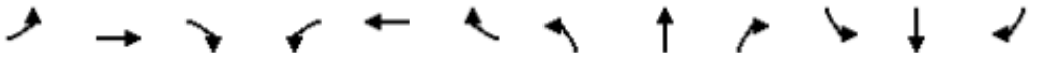
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 56.8%		ICU Level of Service B	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	43
Intersection LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	61	4	205	83	404	0	0	549	142
Future Vol, veh/h	0	0	0	61	4	205	83	404	0	0	549	142
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	66	4	223	90	439	0	0	597	154
Number of Lanes	0	0	0	0	1	1	1	1	0	0	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	14.2	27.5	65.2
HCM LOS	B	D	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	94%	0%	0%	0%
Vol Thru, %	0%	100%	6%	0%	100%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	83	404	65	205	549	142
LT Vol	83	0	61	0	0	0
Through Vol	0	404	4	0	549	0
RT Vol	0	0	0	205	0	142
Lane Flow Rate	90	439	71	223	597	154
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.176	0.797	0.157	0.423	1.059	0.243
Departure Headway (Hd)	7.224	6.713	8.231	7.029	6.389	5.675
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	500	545	439	515	567	631
Service Time	4.924	4.413	5.931	4.729	4.138	3.424
HCM Lane V/C Ratio	0.18	0.806	0.162	0.433	1.053	0.244
HCM Control Delay, s/veh	11.5	30.8	12.5	14.8	79.4	10.3
HCM Lane LOS	B	D	B	B	F	B
HCM 95th-tile Q	0.6	7.6	0.6	2.1	17.1	0.9



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	228	4	155	0	0	0	0	256	40	341	271	0
Future Volume (vph)	228	4	155	0	0	0	0	256	40	341	271	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			4993			645	
Travel Time (s)		13.3			26.3			61.9			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	248	4	168	0	0	0	0	278	43	371	295	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	252	168	0	0	0	0	278	43	371	295	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

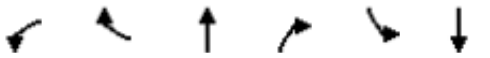
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	56.8%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	18.9
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	228	4	155	0	0	0	0	256	40	341	271	0
Future Vol, veh/h	228	4	155	0	0	0	0	256	40	341	271	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	248	4	168	0	0	0	0	278	43	371	295	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	16.1	16.7	21.8
HCM LOS	C	C	C

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	98%	0%	100%	0%
Vol Thru, %	100%	0%	2%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	256	40	232	155	341	271
LT Vol	0	0	228	0	341	0
Through Vol	256	0	4	0	0	271
RT Vol	0	40	0	155	0	0
Lane Flow Rate	278	43	252	168	371	295
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.541	0.076	0.534	0.3	0.721	0.531
Departure Headway (Hd)	6.994	6.277	7.627	6.415	7.004	6.494
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	512	567	472	558	515	554
Service Time	4.777	4.06	5.401	4.187	4.775	4.264
HCM Lane V/C Ratio	0.543	0.076	0.534	0.301	0.72	0.532
HCM Control Delay, s/veh	17.8	9.6	18.9	11.9	26	16.5
HCM Lane LOS	C	A	C	B	D	C
HCM 95th-tile Q	3.2	0.2	3.1	1.3	5.8	3.1



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	108	9	2	61	7	4
Future Volume (vph)	108	9	2	61	7	4
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	1533		2637			1348
Travel Time (s)	19.0		32.7			16.7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	117	10	2	66	8	4
Shared Lane Traffic (%)						
Lane Group Flow (vph)	117	10	2	66	8	4
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	19.5%	ICU Level of Service	A
Analysis Period (min)	15		

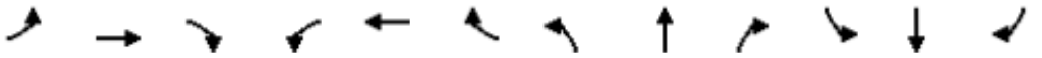
Intersection	
Int Delay, s/veh	5.8

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	108	9	2	61	7	4
Future Vol, veh/h	108	9	2	61	7	4
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	50	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	117	10	2	66	8	4

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	22	2	0	0	68	0
Stage 1	2	-	-	-	-	-
Stage 2	20	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	995	1082	-	-	1533	-
Stage 1	1021	-	-	-	-	-
Stage 2	1003	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	990	1082	-	-	1533	-
Mov Cap-2 Maneuver	990	-	-	-	-	-
Stage 1	1021	-	-	-	-	-
Stage 2	998	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9	0	4.7
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	990	1082	1533	-
HCM Lane V/C Ratio	-	-	0.119	0.009	0.005	-
HCM Control Delay (s/veh)	-	-	9.1	8.4	7.4	-
HCM Lane LOS	-	-	A	A	A	-
HCM 95th %tile Q(veh)	-	-	0.4	0	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	13	130	65	35	69	119	34	158	46	232	191	9
Future Volume (vph)	13	130	65	35	69	119	34	158	46	232	191	9
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.958			0.928			0.974			0.997	
Flt Protected		0.997			0.992			0.993			0.974	
Satd. Flow (prot)	0	1779	0	0	1715	0	0	1802	0	0	1809	0
Flt Permitted		0.997			0.992			0.993			0.974	
Satd. Flow (perm)	0	1779	0	0	1715	0	0	1802	0	0	1809	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			4993	
Travel Time (s)		22.3			33.4			36.6			61.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	14	141	71	38	75	129	37	172	50	252	208	10
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	226	0	0	242	0	0	259	0	0	470	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

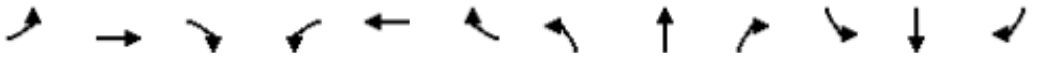
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 69.6%		ICU Level of Service C	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	20.7
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	13	130	65	35	69	119	34	158	46	232	191	9
Future Vol, veh/h	13	130	65	35	69	119	34	158	46	232	191	9
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	14	141	71	38	75	129	37	172	50	252	208	10
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	14.5	14.7	15	29.9
HCM LOS	B	B	B	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	14%	6%	16%	54%
Vol Thru, %	66%	63%	31%	44%
Vol Right, %	19%	31%	53%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	238	208	223	432
LT Vol	34	13	35	232
Through Vol	158	130	69	191
RT Vol	46	65	119	9
Lane Flow Rate	259	226	242	470
Geometry Grp	1	1	1	1
Degree of Util (X)	0.462	0.419	0.439	0.804
Departure Headway (Hd)	6.434	6.664	6.515	6.162
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	556	538	550	587
Service Time	4.512	4.744	4.593	4.225
HCM Lane V/C Ratio	0.466	0.42	0.44	0.801
HCM Control Delay, s/veh	15	14.5	14.7	29.9
HCM Lane LOS	B	B	B	D
HCM 95th-tile Q	2.4	2.1	2.2	7.9



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	47	241	120	15	124	29	62	38	12	18	34	55
Future Volume (vph)	47	241	120	15	124	29	62	38	12	18	34	55
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.931	
Flt Protected		0.992			0.995			0.970			0.992	
Satd. Flow (prot)	0	1848	1458	0	1853	1458	0	1807	1458	0	1720	0
Flt Permitted		0.992			0.995			0.970			0.992	
Satd. Flow (perm)	0	1848	1458	0	1853	1458	0	1807	1458	0	1720	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2637	
Travel Time (s)		33.4			26.9			28.1			32.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	51	262	130	16	135	32	67	41	13	20	37	60
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	313	130	0	151	32	0	108	13	0	117	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

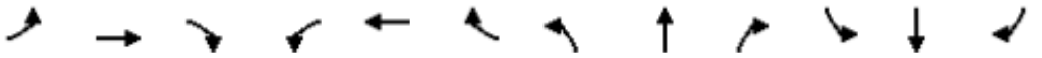
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	45.5%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	11.3
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	47	241	120	15	124	29	62	38	12	18	34	55
Future Vol, veh/h	47	241	120	15	124	29	62	38	12	18	34	55
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	51	262	130	16	135	32	67	41	13	20	37	60
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	12.1	10.2	10.8	10.6
HCM LOS	B	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	62%	0%	16%	0%	11%	0%	17%
Vol Thru, %	38%	0%	84%	0%	89%	0%	32%
Vol Right, %	0%	100%	0%	100%	0%	100%	51%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	100	12	288	120	139	29	107
LT Vol	62	0	47	0	15	0	18
Through Vol	38	0	241	0	124	0	34
RT Vol	0	12	0	120	0	29	55
Lane Flow Rate	109	13	313	130	151	32	116
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.201	0.02	0.489	0.176	0.248	0.045	0.196
Departure Headway (Hd)	6.656	5.633	5.626	4.858	5.905	5.141	6.082
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	540	636	642	743	609	697	591
Service Time	4.389	3.366	3.347	2.558	3.632	2.869	4.113
HCM Lane V/C Ratio	0.202	0.02	0.488	0.175	0.248	0.046	0.196
HCM Control Delay, s/veh	11.1	8.5	13.6	8.6	10.6	8.1	10.6
HCM Lane LOS	B	A	B	A	B	A	B
HCM 95th-tile Q	0.7	0.1	2.7	0.6	1	0.1	0.7



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	67	5	224	92	499	0	0	714	163
Future Volume (vph)	0	0	0	67	5	224	92	499	0	0	714	163
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.955		0.950					
Satd. Flow (prot)	0	0	0	0	1779	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.955		0.950					
Satd. Flow (perm)	0	0	0	0	1779	1458	1630	1863	0	0	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	73	5	243	100	542	0	0	776	177
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	78	243	100	542	0	0	776	177
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

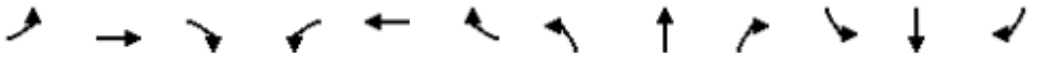
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	63.8%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	118.7
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	67	5	224	92	499	0	0	714	163
Future Vol, veh/h	0	0	0	67	5	224	92	499	0	0	714	163
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	73	5	243	100	542	0	0	776	177
Number of Lanes	0	0	0	0	1	1	1	1	0	0	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	16.3	61.1	192
HCM LOS	C	F	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	93%	0%	0%	0%
Vol Thru, %	0%	100%	7%	0%	100%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	92	499	72	224	714	163
LT Vol	92	0	67	0	0	0
Through Vol	0	499	5	0	714	0
RT Vol	0	0	0	224	0	163
Lane Flow Rate	100	542	78	243	776	177
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.2	1.012	0.179	0.478	1.453	0.297
Departure Headway (Hd)	7.755	7.241	8.861	7.651	6.742	6.026
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	466	504	408	475	543	595
Service Time	5.455	4.941	6.561	5.351	4.496	3.779
HCM Lane V/C Ratio	0.215	1.075	0.191	0.512	1.429	0.297
HCM Control Delay, s/veh	12.4	70.1	13.5	17.2	233.2	11.3
HCM Lane LOS	B	F	B	C	F	B
HCM 95th-tile Q	0.7	14.1	0.6	2.5	37.7	1.2



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	239	4	163	0	0	0	0	334	46	379	335	0
Future Volume (vph)	239	4	163	0	0	0	0	334	46	379	335	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	260	4	177	0	0	0	0	363	50	412	364	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	264	177	0	0	0	0	363	50	412	364	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	63.8%	ICU Level of Service	B
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	27.2
Intersection LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	239	4	163	0	0	0	0	334	46	379	335	0
Future Vol, veh/h	239	4	163	0	0	0	0	334	46	379	335	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	260	4	177	0	0	0	0	363	50	412	364	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	18.4	26.9	32.4
HCM LOS	C	D	D

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	98%	0%	100%	0%
Vol Thru, %	100%	0%	2%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	334	46	243	163	379	335
LT Vol	0	0	239	0	379	0
Through Vol	334	0	4	0	0	335
RT Vol	0	46	0	163	0	0
Lane Flow Rate	363	50	264	177	412	364
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.749	0.093	0.59	0.336	0.851	0.7
Departure Headway (Hd)	7.432	6.713	8.163	6.942	7.433	6.921
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	490	536	444	521	490	524
Service Time	5.15	4.431	5.863	4.642	5.133	4.621
HCM Lane V/C Ratio	0.741	0.093	0.595	0.34	0.841	0.695
HCM Control Delay, s/veh	29.2	10.1	21.9	13.1	39.6	24.2
HCM Lane LOS	D	B	C	B	E	C
HCM 95th-tile Q	6.3	0.3	3.7	1.5	8.7	5.5

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	15	20	290	12	18	426
Future Volume (vph)	15	20	290	12	18	426
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	2679		2654			2339
Travel Time (s)	33.2		32.9			29.0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	16	22	315	13	20	463
Shared Lane Traffic (%)						
Lane Group Flow (vph)	16	22	315	13	20	463
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	32.4%	ICU Level of Service	A
Analysis Period (min)	15		

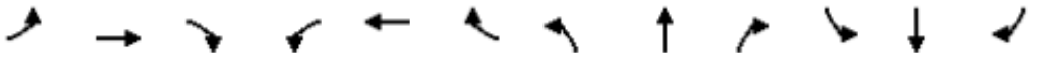
Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	15	20	290	12	18	426
Future Vol, veh/h	15	20	290	12	18	426
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	50	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	16	22	315	13	20	463

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	818	315	0	0	328	0
Stage 1	315	-	-	-	-	-
Stage 2	503	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	346	725	-	-	1232	-
Stage 1	740	-	-	-	-	-
Stage 2	607	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	340	725	-	-	1232	-
Mov Cap-2 Maneuver	340	-	-	-	-	-
Stage 1	740	-	-	-	-	-
Stage 2	597	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	12.7	0	0.3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	340	725	1232	-
HCM Lane V/C Ratio	-	-	0.048	0.03	0.016	-
HCM Control Delay (s/veh)	-	-	16.1	10.1	8	-
HCM Lane LOS	-	-	C	B	A	-
HCM 95th %tile Q(veh)	-	-	0.2	0.1	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	81	2	116	83	10	3	2	67	8	5	2
Future Volume (vph)	4	81	2	116	83	10	3	2	67	8	5	2
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	100		50	100		50	100		50	100		50
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2679			1533			2637			1348	
Travel Time (s)		33.2			19.0			32.7			16.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	4	88	2	126	90	11	3	2	73	9	5	2
Shared Lane Traffic (%)												
Lane Group Flow (vph)	4	88	2	126	90	11	3	2	73	9	5	2
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 27.5%		ICU Level of Service A	
Analysis Period (min) 15			

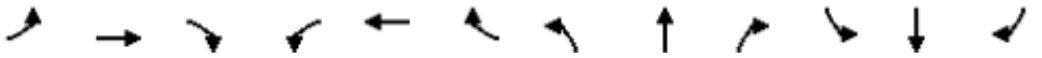
Intersection	
Int Delay, s/veh	7.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	81	2	116	83	10	3	2	67	8	5	2
Future Vol, veh/h	4	81	2	116	83	10	3	2	67	8	5	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	50	100	-	50	100	-	50	100	-	50
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	88	2	126	90	11	3	2	73	9	5	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	118	104	5	77	33	2	7	0	0	75	0	0
Stage 1	23	23	-	8	8	-	-	-	-	-	-	-
Stage 2	95	81	-	69	25	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	858	786	1078	912	860	1082	1614	-	-	1524	-	-
Stage 1	995	876	-	1013	889	-	-	-	-	-	-	-
Stage 2	912	828	-	941	874	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	776	780	1078	826	853	1082	1614	-	-	1524	-	-
Mov Cap-2 Maneuver	776	780	-	826	853	-	-	-	-	-	-	-
Stage 1	993	871	-	1011	887	-	-	-	-	-	-	-
Stage 2	810	826	-	839	869	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.1	9.9	0.3	3.9
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBL	SBT	SBR
Capacity (veh/h)	1614	-	-	776	780	1078	826	853	1082	1524	-	-
HCM Lane V/C Ratio	0.002	-	-	0.006	0.113	0.002	0.153	0.106	0.01	0.006	-	-
HCM Control Delay (s/veh)	7.2	-	-	9.7	10.2	8.3	10.1	9.7	8.4	7.4	-	-
HCM Lane LOS	A	-	-	A	B	A	B	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.4	0	0.5	0.4	0	0	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	14	156	71	36	71	122	38	202	52	262	244	10
Future Volume (vph)	14	156	71	36	71	122	38	202	52	262	244	10
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.960			0.928			0.976			0.997	
Flt Protected		0.997			0.992			0.994			0.975	
Satd. Flow (prot)	0	1783	0	0	1715	0	0	1807	0	0	1811	0
Flt Permitted		0.997			0.992			0.994			0.975	
Satd. Flow (perm)	0	1783	0	0	1715	0	0	1807	0	0	1811	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2654	
Travel Time (s)		22.3			33.4			36.6			32.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	15	170	77	39	77	133	41	220	57	285	265	11
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	262	0	0	249	0	0	318	0	0	561	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

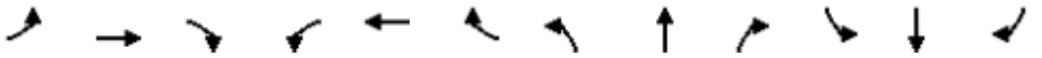
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 78.2%		ICU Level of Service D	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	44.7
Intersection LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	14	156	71	36	71	122	38	202	52	262	244	10
Future Vol, veh/h	14	156	71	36	71	122	38	202	52	262	244	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	15	170	77	39	77	133	41	220	57	285	265	11
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	19.4	18.3	21.8	81.3
HCM LOS	C	C	C	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	6%	16%	51%
Vol Thru, %	69%	65%	31%	47%
Vol Right, %	18%	29%	53%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	292	241	229	516
LT Vol	38	14	36	262
Through Vol	202	156	71	244
RT Vol	52	71	122	10
Lane Flow Rate	317	262	249	561
Geometry Grp	1	1	1	1
Degree of Util (X)	0.625	0.54	0.509	1.057
Departure Headway (Hd)	7.36	7.724	7.665	6.783
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	495	469	473	533
Service Time	5.36	5.724	5.665	4.865
HCM Lane V/C Ratio	0.64	0.559	0.526	1.053
HCM Control Delay, s/veh	21.8	19.4	18.3	81.3
HCM Lane LOS	C	C	C	F
HCM 95th-tile Q	4.2	3.2	2.8	16.4



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	247	123	18	176	35	67	44	13	19	39	59
Future Volume (vph)	48	247	123	18	176	35	67	44	13	19	39	59
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.932	
Flt Protected		0.992			0.995			0.971			0.992	
Satd. Flow (prot)	0	1848	1458	0	1853	1458	0	1809	1458	0	1722	0
Flt Permitted		0.992			0.995			0.971			0.992	
Satd. Flow (perm)	0	1848	1458	0	1853	1458	0	1809	1458	0	1722	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2637	
Travel Time (s)		33.4			26.9			28.1			32.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	52	268	134	20	191	38	73	48	14	21	42	64
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	320	134	0	211	38	0	121	14	0	127	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

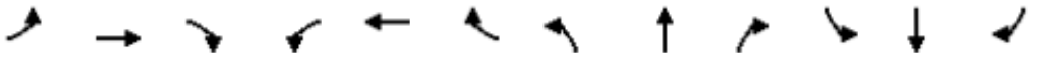
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	49.3%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	12.2
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	48	247	123	18	176	35	67	44	13	19	39	59
Future Vol, veh/h	48	247	123	18	176	35	67	44	13	19	39	59
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	52	268	134	20	191	38	73	48	14	21	42	64
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	13.1	11.5	11.5	11.3
HCM LOS	B	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	60%	0%	16%	0%	9%	0%	16%
Vol Thru, %	40%	0%	84%	0%	91%	0%	33%
Vol Right, %	0%	100%	0%	100%	0%	100%	50%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	111	13	295	123	194	35	117
LT Vol	67	0	48	0	18	0	19
Through Vol	44	0	247	0	176	0	39
RT Vol	0	13	0	123	0	35	59
Lane Flow Rate	121	14	321	134	211	38	127
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.232	0.023	0.52	0.187	0.355	0.056	0.225
Departure Headway (Hd)	6.917	5.899	5.838	5.047	6.053	5.296	6.367
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	519	605	619	710	593	675	562
Service Time	4.67	3.652	3.577	2.786	3.798	3.04	4.419
HCM Lane V/C Ratio	0.233	0.023	0.519	0.189	0.356	0.056	0.226
HCM Control Delay, s/veh	11.8	8.8	14.8	9	12.1	8.4	11.3
HCM Lane LOS	B	A	B	A	B	A	B
HCM 95th-tile Q	0.9	0.1	3	0.7	1.6	0.2	0.9



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	72	5	224	92	502	0	0	723	163
Future Volume (vph)	0	0	0	72	5	224	92	502	0	0	723	163
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850					0.972	
Flt Protected					0.955		0.950					
Satd. Flow (prot)	0	0	0	0	1779	1458	1630	1863	0	1716	1811	0
Flt Permitted					0.955		0.950					
Satd. Flow (perm)	0	0	0	0	1779	1458	1630	1863	0	1716	1811	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	78	5	243	100	546	0	0	786	177
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	83	243	100	546	0	0	963	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

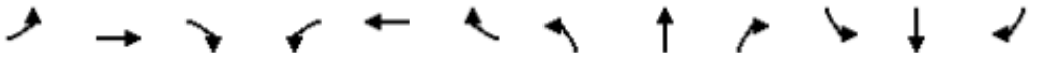
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	67.8%	ICU Level of Service	C
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	204.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	72	5	224	92	502	0	0	723	163
Future Vol, veh/h	0	0	0	72	5	224	92	502	0	0	723	163
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	78	5	243	100	546	0	0	786	177
Number of Lanes	0	0	0	0	1	1	1	1	0	1	1	0

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	16.7	56.3	368.3
HCM LOS	C	F	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	94%	0%	0%	0%
Vol Thru, %	0%	100%	6%	0%	100%	82%
Vol Right, %	0%	0%	0%	100%	0%	18%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	92	502	77	224	0	886
LT Vol	92	0	72	0	0	0
Through Vol	0	502	5	0	0	723
RT Vol	0	0	0	224	0	163
Lane Flow Rate	100	546	84	243	0	963
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.195	0.987	0.188	0.469	0	1.765
Departure Headway (Hd)	7.855	7.338	9.214	7.992	6.73	6.599
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	460	497	392	455	0	559
Service Time	5.555	5.038	6.914	5.692	4.465	4.333
HCM Lane V/C Ratio	0.217	1.099	0.214	0.534	0	1.723
HCM Control Delay, s/veh	12.4	64.3	14	17.6	9.5	368.3
HCM Lane LOS	B	F	B	C	N	F
HCM 95th-tile Q	0.7	13.1	0.7	2.4	0	58.1



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	239	4	163	0	0	0	0	337	51	379	349	0
Future Volume (vph)	239	4	163	0	0	0	0	337	51	379	349	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	260	4	177	0	0	0	0	366	55	412	379	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	264	177	0	0	0	0	366	55	412	379	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	64.9%	ICU Level of Service	C
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	28.1
Intersection LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	239	4	163	0	0	0	0	337	51	379	349	0
Future Vol, veh/h	239	4	163	0	0	0	0	337	51	379	349	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	260	4	177	0	0	0	0	366	55	412	379	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	18.8	27.6	33.6
HCM LOS	C	D	D

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	98%	0%	100%	0%
Vol Thru, %	100%	0%	2%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	337	51	243	163	379	349
LT Vol	0	0	239	0	379	0
Through Vol	337	0	4	0	0	349
RT Vol	0	51	0	163	0	0
Lane Flow Rate	366	55	264	177	412	379
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.76	0.104	0.601	0.343	0.854	0.732
Departure Headway (Hd)	7.465	6.746	8.188	6.967	7.46	6.947
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	484	532	444	519	486	523
Service Time	5.203	4.483	5.903	4.682	5.18	4.668
HCM Lane V/C Ratio	0.756	0.103	0.595	0.341	0.848	0.725
HCM Control Delay, s/veh	30.2	10.3	22.5	13.3	40.2	26.4
HCM Lane LOS	D	B	C	B	E	D
HCM 95th-tile Q	6.5	0.3	3.8	1.5	8.8	6.1

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	17	23	292	15	32	426
Future Volume (vph)	17	23	292	15	32	426
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	739		548			2339
Travel Time (s)	9.2		6.8			29.0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	18	25	317	16	35	463
Shared Lane Traffic (%)						
Lane Group Flow (vph)	18	25	317	16	35	463
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Stop

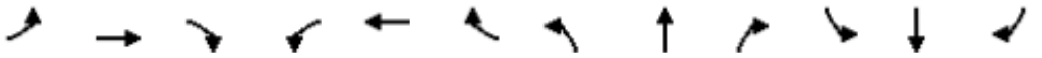
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	32.4%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	13.6
Intersection LOS	B

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	17	23	292	15	32	426
Future Vol, veh/h	17	23	292	15	32	426
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	18	25	317	16	35	463
Number of Lanes	1	1	1	1	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	9.3	11.7	15.3
HCM LOS	A	B	C

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	100%	0%	100%	0%
Vol Thru, %	100%	0%	0%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	292	15	17	23	32	426
LT Vol	0	0	17	0	32	0
Through Vol	292	0	0	0	0	426
RT Vol	0	15	0	23	0	0
Lane Flow Rate	317	16	18	25	35	463
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.447	0.02	0.036	0.04	0.052	0.634
Departure Headway (Hd)	5.068	4.364	6.944	5.729	5.432	4.93
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	711	820	514	622	660	732
Service Time	2.797	2.093	4.706	3.491	3.16	2.657
HCM Lane V/C Ratio	0.446	0.02	0.035	0.04	0.053	0.633
HCM Control Delay, s/veh	11.9	7.2	10	8.7	8.5	15.8
HCM Lane LOS	B	A	A	A	A	C
HCM 95th-tile Q	2.3	0.1	0.1	0.1	0.2	4.6



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	84	2	123	83	10	3	2	76	8	5	2
Future Volume (vph)	4	84	2	123	83	10	3	2	76	8	5	2
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	100		50	100		50	100		50	100		50
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1360			1533			635			1348	
Travel Time (s)		16.9			19.0			7.9			16.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	4	91	2	134	90	11	3	2	83	9	5	2
Shared Lane Traffic (%)												
Lane Group Flow (vph)	4	91	2	134	90	11	3	2	83	9	5	2
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 27.9%		ICU Level of Service A	
Analysis Period (min) 15			

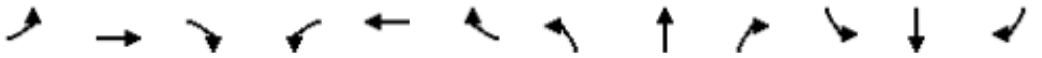
Intersection	
Int Delay, s/veh	7.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	84	2	123	83	10	3	2	76	8	5	2
Future Vol, veh/h	4	84	2	123	83	10	3	2	76	8	5	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	50	100	-	50	100	-	50	100	-	50
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	91	2	134	90	11	3	2	83	9	5	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	123	114	5	79	33	2	7	0	0	85	0	0
Stage 1	23	23	-	8	8	-	-	-	-	-	-	-
Stage 2	100	91	-	71	25	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	852	776	1078	910	860	1082	1614	-	-	1512	-	-
Stage 1	995	876	-	1013	889	-	-	-	-	-	-	-
Stage 2	906	820	-	939	874	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	770	770	1078	821	853	1082	1614	-	-	1512	-	-
Mov Cap-2 Maneuver	770	770	-	821	853	-	-	-	-	-	-	-
Stage 1	993	871	-	1011	887	-	-	-	-	-	-	-
Stage 2	804	818	-	834	869	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.2	9.9	0.3	3.9
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBL	SBT	SBR
Capacity (veh/h)	1614	-	-	770	770	1078	821	853	1082	1512	-	-
HCM Lane V/C Ratio	0.002	-	-	0.006	0.119	0.002	0.163	0.106	0.01	0.006	-	-
HCM Control Delay (s/veh)	7.2	-	-	9.7	10.3	8.3	10.2	9.7	8.4	7.4	-	-
HCM Lane LOS	A	-	-	A	B	A	B	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.4	0	0.6	0.4	0	0	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	14	156	71	36	71	124	38	206	52	265	251	10
Future Volume (vph)	14	156	71	36	71	124	38	206	52	265	251	10
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.960			0.927			0.976			0.997	
Flt Protected		0.997			0.992			0.994			0.975	
Satd. Flow (prot)	0	1783	0	0	1713	0	0	1807	0	0	1811	0
Flt Permitted		0.997			0.992			0.994			0.975	
Satd. Flow (perm)	0	1783	0	0	1713	0	0	1807	0	0	1811	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2106	
Travel Time (s)		22.3			33.4			36.6			26.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	15	170	77	39	77	135	41	224	57	288	273	11
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	262	0	0	251	0	0	322	0	0	572	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

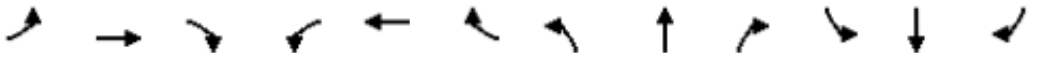
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 79.1%		ICU Level of Service D	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	49
Intersection LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	14	156	71	36	71	124	38	206	52	265	251	10
Future Vol, veh/h	14	156	71	36	71	124	38	206	52	265	251	10
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	15	170	77	39	77	135	41	224	57	288	273	11
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	19.7	18.7	22.6	90.5
HCM LOS	C	C	C	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	6%	16%	50%
Vol Thru, %	70%	65%	31%	48%
Vol Right, %	18%	29%	54%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	296	241	231	526
LT Vol	38	14	36	265
Through Vol	206	156	71	251
RT Vol	52	71	124	10
Lane Flow Rate	322	262	251	572
Geometry Grp	1	1	1	1
Degree of Util (X)	0.637	0.543	0.516	1.086
Departure Headway (Hd)	7.433	7.823	7.753	6.837
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	489	464	467	532
Service Time	5.433	5.823	5.753	4.905
HCM Lane V/C Ratio	0.658	0.565	0.537	1.075
HCM Control Delay, s/veh	22.6	19.7	18.7	90.5
HCM Lane LOS	C	C	C	F
HCM 95th-tile Q	4.4	3.2	2.9	17.6



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	250	123	18	178	35	67	45	13	23	43	59
Future Volume (vph)	48	250	123	18	178	35	67	45	13	23	43	59
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.936	
Flt Protected		0.992			0.995			0.971			0.991	
Satd. Flow (prot)	0	1848	1458	0	1853	1458	0	1809	1458	0	1728	0
Flt Permitted		0.992			0.995			0.971			0.991	
Satd. Flow (perm)	0	1848	1458	0	1853	1458	0	1809	1458	0	1728	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2002	
Travel Time (s)		33.4			26.9			28.1			24.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	52	272	134	20	193	38	73	49	14	25	47	64
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	324	134	0	213	38	0	122	14	0	136	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	50.0%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	12.4
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	48	250	123	18	178	35	67	45	13	23	43	59
Future Vol, veh/h	48	250	123	18	178	35	67	45	13	23	43	59
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	52	272	134	20	193	38	73	49	14	25	47	64
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	13.3	11.7	11.6	11.5
HCM LOS	B	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	60%	0%	16%	0%	9%	0%	18%
Vol Thru, %	40%	0%	84%	0%	91%	0%	34%
Vol Right, %	0%	100%	0%	100%	0%	100%	47%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	112	13	298	123	196	35	125
LT Vol	67	0	48	0	18	0	23
Through Vol	45	0	250	0	178	0	43
RT Vol	0	13	0	123	0	35	59
Lane Flow Rate	122	14	324	134	213	38	136
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.235	0.023	0.53	0.189	0.361	0.057	0.242
Departure Headway (Hd)	6.962	5.947	5.887	5.097	6.107	5.35	6.422
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	515	600	612	703	588	668	558
Service Time	4.719	3.703	3.625	2.834	3.852	3.094	4.476
HCM Lane V/C Ratio	0.237	0.023	0.529	0.191	0.362	0.057	0.244
HCM Control Delay, s/veh	11.9	8.8	15.1	9	12.3	8.4	11.5
HCM Lane LOS	B	A	C	A	B	A	B
HCM 95th-tile Q	0.9	0.1	3.1	0.7	1.6	0.2	0.9

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	77	17	0	82	8	0
Future Volume (vph)	77	17	0	82	8	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.976					
Flt Protected					0.950	
Satd. Flow (prot)	1818	0	0	1863	1770	0
Flt Permitted					0.950	
Satd. Flow (perm)	1818	0	0	1863	1770	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	739			580	300	
Travel Time (s)	9.2			7.2	3.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	84	18	0	89	9	0
Shared Lane Traffic (%)						
Lane Group Flow (vph)	102	0	0	89	9	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 15.1%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	77	17	0	82	8	0
Future Vol, veh/h	77	17	0	82	8	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	84	18	0	89	9	0

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	102	0	182	93
Stage 1	-	-	-	-	93	-
Stage 2	-	-	-	-	89	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1490	-	807	964
Stage 1	-	-	-	-	931	-
Stage 2	-	-	-	-	934	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1490	-	807	964
Mov Cap-2 Maneuver	-	-	-	-	807	-
Stage 1	-	-	-	-	931	-
Stage 2	-	-	-	-	934	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	9.5
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	807	-	-	1490	-
HCM Lane V/C Ratio	0.011	-	-	-	-
HCM Control Delay (s/veh)	9.5	-	-	0	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	85	1	2	87	0	1
Future Volume (vph)	85	1	2	87	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.999				0.865	
Flt Protected				0.999		
Satd. Flow (prot)	1861	0	0	1861	1611	0
Flt Permitted				0.999		
Satd. Flow (perm)	1861	0	0	1861	1611	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	580			1360	308	
Travel Time (s)	7.2			16.9	3.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	92	1	2	95	0	1
Shared Lane Traffic (%)						
Lane Group Flow (vph)	93	0	0	97	1	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 16.2%		ICU Level of Service A	
Analysis Period (min) 15			

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	0	5	230	6	0	433
Future Volume (vph)	0	5	230	6	0	433
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.865	0.996			
Flt Protected						
Satd. Flow (prot)	0	1611	1855	0	0	1863
Flt Permitted						
Satd. Flow (perm)	0	1611	1855	0	0	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	2684		2106			548
Travel Time (s)	33.3		26.1			6.8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	5	250	7	0	471
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	5	257	0	0	471
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 26.1%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	5	230	6	0	433
Future Vol, veh/h	0	5	230	6	0	433
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	5	250	7	0	471

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	254	0	0	257	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.22	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	0	785	-	-	1308	-
Stage 1	0	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	785	-	-	1308	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	9.6	0	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	785	1308	-
HCM Lane V/C Ratio	-	-	0.007	-	-
HCM Control Delay (s/veh)	-	-	9.6	0	-
HCM Lane LOS	-	-	A	A	-
HCM 95th %tile Q(veh)	-	-	0	0	-

Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	9	8	14	0	0	16
Future Volume (vph)	9	8	14	0	0	16
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.936				0.865	
Flt Protected	0.974			0.950		
Satd. Flow (prot)	1698	0	0	1770	1611	0
Flt Permitted	0.974			0.950		
Satd. Flow (perm)	1698	0	0	1770	1611	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	2684			2002	635	
Travel Time (s)	33.3			24.8	7.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	10	9	15	0	0	17
Shared Lane Traffic (%)						
Lane Group Flow (vph)	19	0	0	15	17	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 17.4%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	5.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	9	8	14	0	0	16
Future Vol, veh/h	9	8	14	0	0	16
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	9	15	0	0	17

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	39	9	17	0	-	0
Stage 1	9	-	-	-	-	-
Stage 2	30	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	973	1073	1600	-	-	-
Stage 1	1014	-	-	-	-	-
Stage 2	993	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	964	1073	1600	-	-	-
Mov Cap-2 Maneuver	964	-	-	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	993	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	8.6	7.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1600	-	1012	-	-
HCM Lane V/C Ratio	0.01	-	0.018	-	-
HCM Control Delay (s/veh)	7.3	0	8.6	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	72	5	224	92	502	0	0	723	163
Future Volume (vph)	0	0	0	72	5	224	92	502	0	0	723	163
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.955		0.950					
Satd. Flow (prot)	0	0	0	0	1779	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.955		0.309					
Satd. Flow (perm)	0	0	0	0	1779	1458	530	1863	0	0	1863	1458
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)						243						177
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	78	5	243	100	546	0	0	786	177
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	83	243	100	546	0	0	786	177
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors				1	1	1	1	1			1	1
Detector Template												
Leading Detector (ft)				50	50	50	50	50			50	50
Trailing Detector (ft)				0	0	0	0	0			0	0
Detector 1 Position(ft)				0	0	0	0	0			0	0
Detector 1 Size(ft)				50	50	50	50	50			50	50
Detector 1 Type				Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex			Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Detector 1 Queue (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Detector 1 Delay (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Turn Type				Perm	NA	Perm	Perm	NA			NA	Perm
Protected Phases					8			2			6	
Permitted Phases				8		8	2					6
Detector Phase				8	8	8	2	2			6	6
Switch Phase												
Minimum Initial (s)				4.0	4.0	4.0	4.0	4.0			4.0	4.0
Minimum Split (s)				24.0	24.0	24.0	24.0	24.0			24.0	24.0
Total Split (s)				31.0	31.0	31.0	59.0	59.0			59.0	59.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (%)				34.4%	34.4%	34.4%	65.6%	65.6%			65.6%	65.6%
Maximum Green (s)				25.0	25.0	25.0	53.0	53.0			53.0	53.0
Yellow Time (s)				5.0	5.0	5.0	5.0	5.0			5.0	5.0
All-Red Time (s)				1.0	1.0	1.0	1.0	1.0			1.0	1.0
Lost Time Adjust (s)					0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)					6.0	6.0	6.0	6.0			6.0	6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)				3.0	3.0	3.0	3.0	3.0			3.0	3.0
Recall Mode				None	None	None	C-Max	C-Max			C-Max	C-Max
Walk Time (s)				7.0	7.0	7.0	7.0	7.0			7.0	7.0
Flash Don't Walk (s)				11.0	11.0	11.0	11.0	11.0			11.0	11.0
Pedestrian Calls (#/hr)				0	0	0	0	0			0	0
Act Effct Green (s)					9.8	9.8	68.2	68.2			68.2	68.2
Actuated g/C Ratio					0.11	0.11	0.76	0.76			0.76	0.76
v/c Ratio					0.43	0.65	0.25	0.39			0.56	0.15
Control Delay (s/veh)					43.3	13.6	4.7	4.5			6.9	1.0
Queue Delay					0.0	0.0	0.0	0.0			0.0	0.0
Total Delay (s/veh)					43.3	13.6	4.7	4.5			6.9	1.0
LOS					D	B	A	A			A	A
Approach Delay (s/veh)					21.1			4.6			5.8	
Approach LOS					C			A			A	

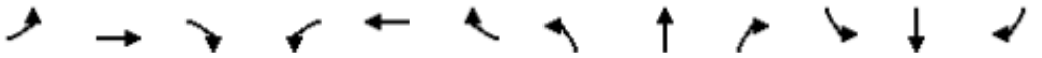
Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBT, Start of Green			
Natural Cycle: 60			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.65			
Intersection Signal Delay (s/veh): 8.0		Intersection LOS: A	
Intersection Capacity Utilization 68.9%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 1: Shirk St & SR 198 WB Ramps

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	72	5	224	92	502	0	0	723	163
Future Volume (veh/h)	0	0	0	72	5	224	92	502	0	0	723	163
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1750	1863	1716	1716	1863	0	0	1863	1716
Adj Flow Rate, veh/h				78	5	243	100	546	0	0	786	177
Adj No. of Lanes				0	1	1	1	1	0	0	1	1
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2
Cap, veh/h				322	21	281	313	1256	0	0	1256	983
Arrive On Green				0.19	0.19	0.19	1.00	1.00	0.00	0.00	0.67	0.67
Sat Flow, veh/h				1672	107	1458	535	1863	0	0	1863	1458
Grp Volume(v), veh/h				83	0	243	100	546	0	0	786	177
Grp Sat Flow(s),veh/h/ln				1779	0	1458	535	1863	0	0	1863	1458
Q Serve(g_s), s				3.6	0.0	14.5	8.2	0.0	0.0	0.0	21.4	4.1
Cycle Q Clear(g_c), s				3.6	0.0	14.5	29.6	0.0	0.0	0.0	21.4	4.1
Prop In Lane				0.94		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				342	0	281	313	1256	0	0	1256	983
V/C Ratio(X)				0.24	0.00	0.87	0.32	0.43	0.00	0.00	0.63	0.18
Avail Cap(c_a), veh/h				494	0	405	313	1256	0	0	1256	983
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.97	0.97	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				30.8	0.0	35.2	5.2	0.0	0.0	0.0	8.3	5.4
Incr Delay (d2), s/veh				0.4	0.0	12.7	2.6	1.1	0.0	0.0	2.4	0.4
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				1.8	0.0	6.9	1.4	0.4	0.0	0.0	11.7	1.7
LnGrp Delay(d), s/veh				31.1	0.0	47.9	7.8	1.1	0.0	0.0	10.6	5.8
LnGrp LOS				C		D	A	A			B	A
Approach Vol, veh/h					326			646			963	
Approach Delay, s/veh					43.7			2.1			9.7	
Approach LOS					D			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		66.7				66.7		23.3
Change Period (Y+Rc), s		6.0				6.0		6.0
Max Green Setting (Gmax), s		53.0				53.0		25.0
Max Q Clear Time (g_c+I1), s		31.6				23.4		16.5
Green Ext Time (p_c), s		3.2				4.4		0.8

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	12.9
HCM 2010 LOS	B



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	239	4	163	0	0	0	0	335	50	379	349	0
Future Volume (vph)	239	4	163	0	0	0	0	335	50	379	349	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.533		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	914	1863	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			177						54			
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	260	4	177	0	0	0	0	364	54	412	379	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	264	177	0	0	0	0	364	54	412	379	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1	1					1	1	1	1	
Detector Template												
Leading Detector (ft)	50	50	50					50	50	50	50	
Trailing Detector (ft)	0	0	0					0	0	0	0	
Detector 1 Position(ft)	0	0	0					0	0	0	0	
Detector 1 Size(ft)	50	50	50					50	50	50	50	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex					Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Turn Type	Perm	NA	Perm					NA	Perm	Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4		4						2	6		
Detector Phase	4	4	4					2	2	6	6	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0					4.0	4.0	4.0	4.0	
Minimum Split (s)	24.0	24.0	24.0					24.0	24.0	24.0	24.0	
Total Split (s)	24.0	24.0	24.0					66.0	66.0	66.0	66.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (%)	26.7%	26.7%	26.7%					73.3%	73.3%	73.3%	73.3%	
Maximum Green (s)	18.0	18.0	18.0					60.0	60.0	60.0	60.0	
Yellow Time (s)	5.0	5.0	5.0					5.0	5.0	5.0	5.0	
All-Red Time (s)	1.0	1.0	1.0					1.0	1.0	1.0	1.0	
Lost Time Adjust (s)		0.0	0.0					0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.0	6.0					6.0	6.0	6.0	6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0					3.0	3.0	3.0	3.0	
Recall Mode	None	None	None					C-Max	C-Max	C-Max	C-Max	
Walk Time (s)	7.0	7.0	7.0					7.0	7.0	7.0	7.0	
Flash Don't Walk (s)	11.0	11.0	11.0					11.0	11.0	11.0	11.0	
Pedestrian Calls (#/hr)	0	0	0					0	0	0	0	
Act Effct Green (s)		16.6	16.6					61.4	61.4	61.4	61.4	
Actuated g/C Ratio		0.18	0.18					0.68	0.68	0.68	0.68	
v/c Ratio		0.81	0.43					0.29	0.05	0.66	0.30	
Control Delay (s/veh)		54.9	8.6					6.0	1.9	12.2	3.9	
Queue Delay		0.0	0.0					0.0	0.0	0.0	0.0	
Total Delay (s/veh)		54.9	8.6					6.0	1.9	12.2	3.9	
LOS		D	A					A	A	B	A	
Approach Delay (s/veh)		36.3						5.4			8.2	
Approach LOS		D						A			A	

Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBTL, Start of Green			
Natural Cycle: 65			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.81			
Intersection Signal Delay (s/veh): 15.0		Intersection LOS: B	
Intersection Capacity Utilization 68.9%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 2: Shirk St & SR 138 EB Ramps

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	239	4	163	0	0	0	0	335	50	379	349	0
Future Volume (veh/h)	239	4	163	0	0	0	0	335	50	379	349	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1750	1863	1716				0	1863	1716	1716	1863	0
Adj Flow Rate, veh/h	260	4	177				0	364	54	412	379	0
Adj No. of Lanes	0	1	1				0	1	1	1	1	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0
Cap, veh/h	302	5	252				0	1293	1012	631	1293	0
Arrive On Green	0.17	0.17	0.17				0.00	0.69	0.69	1.00	1.00	0.00
Sat Flow, veh/h	1748	27	1458				0	1863	1458	888	1863	0
Grp Volume(v), veh/h	264	0	177				0	364	54	412	379	0
Grp Sat Flow(s),veh/h/ln	1775	0	1458				0	1863	1458	888	1863	0
Q Serve(g_s), s	13.0	0.0	10.3				0.0	6.7	1.1	13.5	0.0	0.0
Cycle Q Clear(g_c), s	13.0	0.0	10.3				0.0	6.7	1.1	20.2	0.0	0.0
Prop In Lane	0.98		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	306	0	252				0	1293	1012	631	1293	0
V/C Ratio(X)	0.86	0.00	0.70				0.00	0.28	0.05	0.65	0.29	0.00
Avail Cap(c_a), veh/h	355	0	292				0	1293	1012	631	1293	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.67	1.67	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.81	0.81	0.00
Uniform Delay (d), s/veh	36.2	0.0	35.1				0.0	5.2	4.4	1.1	0.0	0.0
Incr Delay (d2), s/veh	17.1	0.0	6.2				0.0	0.5	0.1	4.2	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.8	0.0	4.6				0.0	3.6	0.4	3.6	0.2	0.0
LnGrp Delay(d), s/veh	53.3	0.0	41.3				0.0	5.8	4.5	5.3	0.5	0.0
LnGrp LOS	D		D					A	A	A	A	
Approach Vol, veh/h		441						418			791	
Approach Delay, s/veh		48.5						5.6			3.0	
Approach LOS		D						A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		68.5		21.5		68.5		
Change Period (Y+Rc), s		6.0		6.0		6.0		
Max Green Setting (Gmax), s		60.0		18.0		60.0		
Max Q Clear Time (g_c+I1), s		8.7		15.0		22.2		
Green Ext Time (p_c), s		1.5		0.5		4.7		

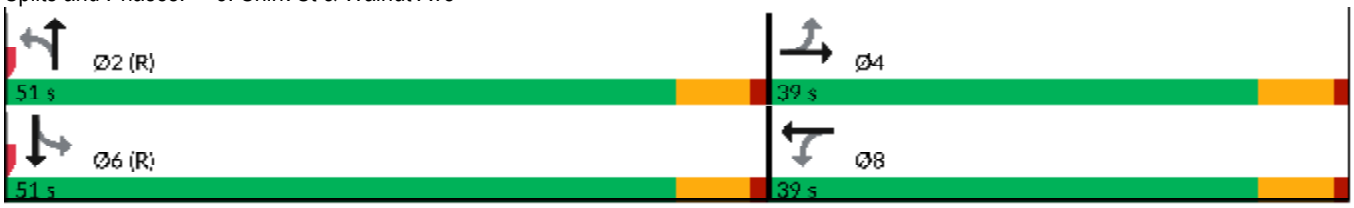
Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	15.8
HCM 2010 LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	14	156	71	36	71	124	38	206	52	265	251	10
Future Volume (vph)	14	156	71	36	71	124	38	206	52	265	251	10
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.960			0.927			0.976			0.997	
Flt Protected		0.997			0.992			0.994			0.975	
Satd. Flow (prot)	0	1783	0	0	1713	0	0	1807	0	0	1811	0
Flt Permitted		0.965			0.798			0.893			0.694	
Satd. Flow (perm)	0	1726	0	0	1378	0	0	1624	0	0	1289	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		26			74			17			2	
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2654	
Travel Time (s)		22.3			33.4			36.6			32.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	15	170	77	39	77	135	41	224	57	288	273	11
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	262	0	0	251	0	0	322	0	0	572	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1		1	1	
Detector Template												
Leading Detector (ft)	50	50		50	50		50	50		50	50	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	50	50		50	50		50	50		50	50	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	24.0	24.0		24.0	24.0		24.0	24.0		24.0	24.0	
Total Split (s)	39.0	39.0		39.0	39.0		51.0	51.0		51.0	51.0	
Total Split (%)	43.3%	43.3%		43.3%	43.3%		56.7%	56.7%		56.7%	56.7%	
Maximum Green (s)	33.0	33.0		33.0	33.0		45.0	45.0		45.0	45.0	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		6.0			6.0			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		C-Max	C-Max		C-Max	C-Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Don't Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		17.8			17.8			60.2			60.2	
Actuated g/C Ratio		0.20			0.20			0.67			0.67	
v/c Ratio		0.72			0.76			0.30			0.66	
Control Delay (s/veh)		41.4			38.0			7.5			16.5	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay (s/veh)		41.4			38.0			7.5			16.5	
LOS		D			D			A			B	
Approach Delay (s/veh)		41.4			38.0			7.5			16.5	
Approach LOS		D			D			A			B	

Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green			
Natural Cycle: 60			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.76			
Intersection Signal Delay (s/veh): 22.9		Intersection LOS: C	
Intersection Capacity Utilization 84.1%		ICU Level of Service E	
Analysis Period (min) 15			

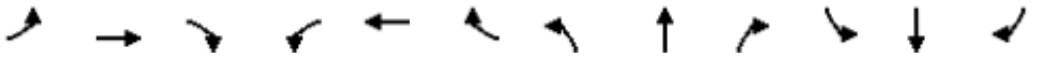
Splits and Phases: 5: Shirk St & Walnut Ave



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	14	156	71	36	71	124	38	206	52	265	251	10
Future Volume (veh/h)	14	156	71	36	71	124	38	206	52	265	251	10
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1750	1863	1750	1750	1863	1750	1750	1863	1750	1750	1863	1750
Adj Flow Rate, veh/h	15	170	77	39	77	135	41	224	57	288	273	11
Adj No. of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	51	217	94	77	104	157	160	848	207	531	470	18
Arrive On Green	0.18	0.18	0.18	0.18	0.18	0.18	0.69	0.69	0.69	0.69	0.69	0.69
Sat Flow, veh/h	51	1205	522	171	578	872	167	1236	302	687	685	27
Grp Volume(v), veh/h	262	0	0	251	0	0	322	0	0	572	0	0
Grp Sat Flow(s),veh/h/ln	1777	0	0	1620	0	0	1705	0	0	1398	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0
Cycle Q Clear(g_c), s	12.7	0.0	0.0	13.4	0.0	0.0	6.1	0.0	0.0	18.2	0.0	0.0
Prop In Lane	0.06		0.29	0.16		0.54	0.13		0.18	0.50		0.02
Lane Grp Cap(c), veh/h	363	0	0	339	0	0	1215	0	0	1020	0	0
V/C Ratio(X)	0.72	0.00	0.00	0.74	0.00	0.00	0.26	0.00	0.00	0.56	0.00	0.00
Avail Cap(c_a), veh/h	682	0	0	629	0	0	1215	0	0	1020	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	35.5	0.0	0.0	35.6	0.0	0.0	5.4	0.0	0.0	7.1	0.0	0.0
Incr Delay (d2), s/veh	2.7	0.0	0.0	3.2	0.0	0.0	0.5	0.0	0.0	2.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.5	0.0	0.0	6.3	0.0	0.0	3.2	0.0	0.0	7.8	0.0	0.0
LnGrp Delay(d), s/veh	38.2	0.0	0.0	38.8	0.0	0.0	5.9	0.0	0.0	9.3	0.0	0.0
LnGrp LOS	D			D			A			A		
Approach Vol, veh/h		262			251			322			572	
Approach Delay, s/veh		38.2			38.8			5.9			9.3	
Approach LOS		D			D			A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		67.8		22.2		67.8		22.2
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0
Max Green Setting (Gmax), s		45.0		33.0		45.0		33.0
Max Q Clear Time (g_c+I1), s		8.1		14.7		20.2		15.4
Green Ext Time (p_c), s		1.2		0.8		2.7		0.8

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	19.2
HCM 2010 LOS	B



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	73	6	244	103	616	0	0	928	187
Future Volume (vph)	0	0	0	73	6	244	103	616	0	0	928	187
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.956		0.950					
Satd. Flow (prot)	0	0	0	0	1781	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.956		0.950					
Satd. Flow (perm)	0	0	0	0	1781	1458	1630	1863	0	0	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	79	7	265	112	670	0	0	1009	203
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	86	265	112	670	0	0	1009	203
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

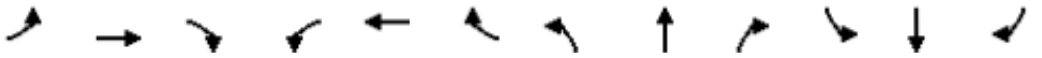
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 72.5%		ICU Level of Service C	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	238.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	73	6	244	103	616	0	0	928	187
Future Vol, veh/h	0	0	0	73	6	244	103	616	0	0	928	187
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	79	7	265	112	670	0	0	1009	203
Number of Lanes	0	0	0	0	1	1	1	1	0	0	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	18.3	144	362.5
HCM LOS	C	F	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	92%	0%	0%	0%
Vol Thru, %	0%	100%	8%	0%	100%	0%
Vol Right, %	0%	0%	0%	100%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	103	616	79	244	928	187
LT Vol	103	0	73	0	0	0
Through Vol	0	616	6	0	928	0
RT Vol	0	0	0	244	0	187
Lane Flow Rate	112	670	86	265	1009	203
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.23	1.281	0.196	0.521	1.908	0.345
Departure Headway (Hd)	8.291	7.775	9.456	8.234	7.17	6.451
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	436	475	382	440	514	561
Service Time	5.991	5.475	7.156	5.934	4.87	4.151
HCM Lane V/C Ratio	0.257	1.411	0.225	0.602	1.963	0.362
HCM Control Delay, s/veh	13.5	165.8	14.4	19.5	433	12.5
HCM Lane LOS	B	F	B	C	F	B
HCM 95th-tile Q	0.9	25.1	0.7	2.9	62.7	1.5



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	251	5	170	0	0	0	0	436	52	422	413	0
Future Volume (vph)	251	5	170	0	0	0	0	436	52	422	413	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	273	5	185	0	0	0	0	474	57	459	449	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	278	185	0	0	0	0	474	57	459	449	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	72.5%	ICU Level of Service	C
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	52.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	251	5	170	0	0	0	0	436	52	422	413	0
Future Vol, veh/h	251	5	170	0	0	0	0	436	52	422	413	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	273	5	185	0	0	0	0	474	57	459	449	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	21.6	71.3	56.6
HCM LOS	C	F	F

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	98%	0%	100%	0%
Vol Thru, %	100%	0%	2%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	436	52	256	170	422	413
LT Vol	0	0	251	0	422	0
Through Vol	436	0	5	0	0	413
RT Vol	0	52	0	170	0	0
Lane Flow Rate	474	57	278	185	459	449
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	1.032	0.112	0.656	0.373	0.985	0.9
Departure Headway (Hd)	7.843	7.121	8.599	7.372	7.878	7.363
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	464	506	423	492	463	494
Service Time	5.543	4.821	6.299	5.072	5.578	5.063
HCM Lane V/C Ratio	1.022	0.113	0.657	0.376	0.991	0.909
HCM Control Delay, s/veh	78.5	10.7	26.3	14.4	66.4	46.6
HCM Lane LOS	F	B	D	B	F	E
HCM 95th-tile Q	14.3	0.4	4.6	1.7	12.6	10.1

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	15	20	290	12	18	426
Future Volume (vph)	15	20	290	12	18	426
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	2679		2654			2339
Travel Time (s)	33.2		32.9			29.0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	16	22	315	13	20	463
Shared Lane Traffic (%)						
Lane Group Flow (vph)	16	22	315	13	20	463
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	32.4%	ICU Level of Service	A
Analysis Period (min)	15		

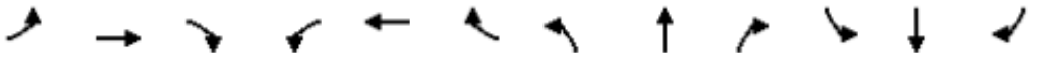
Intersection	
Int Delay, s/veh	0.7

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	15	20	290	12	18	426
Future Vol, veh/h	15	20	290	12	18	426
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	50	100	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	16	22	315	13	20	463

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	818	315	0	0	328	0
Stage 1	315	-	-	-	-	-
Stage 2	503	-	-	-	-	-
Critical Hdwy	6.42	6.22	-	-	4.12	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	346	725	-	-	1232	-
Stage 1	740	-	-	-	-	-
Stage 2	607	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	340	725	-	-	1232	-
Mov Cap-2 Maneuver	340	-	-	-	-	-
Stage 1	740	-	-	-	-	-
Stage 2	597	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	12.7	0	0.3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	340	725	1232	-
HCM Lane V/C Ratio	-	-	0.048	0.03	0.016	-
HCM Control Delay (s/veh)	-	-	16.1	10.1	8	-
HCM Lane LOS	-	-	C	B	A	-
HCM 95th %tile Q(veh)	-	-	0.2	0.1	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	106	2	125	110	10	3	3	73	8	6	2
Future Volume (vph)	4	106	2	125	110	10	3	3	73	8	6	2
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	100		50	100		50	100		50	100		50
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2679			1533			2637			1348	
Travel Time (s)		33.2			19.0			32.7			16.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	4	115	2	136	120	11	3	3	79	9	7	2
Shared Lane Traffic (%)												
Lane Group Flow (vph)	4	115	2	136	120	11	3	3	79	9	7	2
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 28.0%		ICU Level of Service A	
Analysis Period (min) 15			

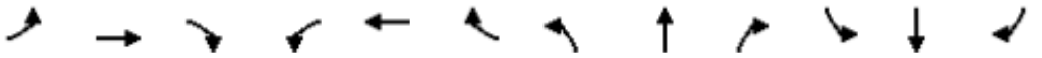
Intersection	
Int Delay, s/veh	8.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	106	2	125	110	10	3	3	73	8	6	2
Future Vol, veh/h	4	106	2	125	110	10	3	3	73	8	6	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	50	100	-	50	100	-	50	100	-	50
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	115	2	136	120	11	3	3	79	9	7	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	139	113	7	94	36	3	9	0	0	82	0	0
Stage 1	25	25	-	9	9	-	-	-	-	-	-	-
Stage 2	114	88	-	85	27	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	831	777	1075	889	856	1081	1611	-	-	1515	-	-
Stage 1	993	874	-	1012	888	-	-	-	-	-	-	-
Stage 2	891	822	-	923	873	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	730	771	1075	781	849	1081	1611	-	-	1515	-	-
Mov Cap-2 Maneuver	730	771	-	781	849	-	-	-	-	-	-	-
Stage 1	991	869	-	1010	886	-	-	-	-	-	-	-
Stage 2	762	820	-	794	868	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.4	10.2	0.3	3.7
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBL	SBT	SBR
Capacity (veh/h)	1611	-	-	730	771	1075	781	849	1081	1515	-	-
HCM Lane V/C Ratio	0.002	-	-	0.006	0.149	0.002	0.174	0.141	0.01	0.006	-	-
HCM Control Delay (s/veh)	7.2	-	-	10	10.5	8.4	10.6	9.9	8.4	7.4	-	-
HCM Lane LOS	A	-	-	B	B	A	B	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.5	0	0.6	0.5	0	0	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	188	78	37	73	125	44	259	59	297	313	12
Future Volume (vph)	16	188	78	37	73	125	44	259	59	297	313	12
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.962			0.928			0.978			0.997	
Flt Protected		0.997			0.992			0.994			0.977	
Satd. Flow (prot)	0	1787	0	0	1715	0	0	1811	0	0	1814	0
Flt Permitted		0.997			0.992			0.994			0.977	
Satd. Flow (perm)	0	1787	0	0	1715	0	0	1811	0	0	1814	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2654	
Travel Time (s)		22.3			33.4			36.6			32.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	17	204	85	40	79	136	48	282	64	323	340	13
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	306	0	0	255	0	0	394	0	0	676	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

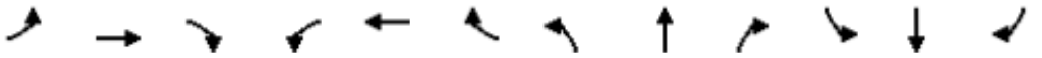
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 88.5%		ICU Level of Service E	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	114.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	188	78	37	73	125	44	259	59	297	313	12
Future Vol, veh/h	16	188	78	37	73	125	44	259	59	297	313	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	204	85	40	79	136	48	282	64	323	340	13
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	29	23.9	41.1	229.4
HCM LOS	D	C	E	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	12%	6%	16%	48%
Vol Thru, %	72%	67%	31%	50%
Vol Right, %	16%	28%	53%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	362	282	235	622
LT Vol	44	16	37	297
Through Vol	259	188	73	313
RT Vol	59	78	125	12
Lane Flow Rate	393	307	255	676
Geometry Grp	1	1	1	1
Degree of Util (X)	0.827	0.676	0.571	1.436
Departure Headway (Hd)	8.544	9.078	9.248	7.644
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	429	402	393	480
Service Time	6.544	7.078	7.248	5.644
HCM Lane V/C Ratio	0.916	0.764	0.649	1.408
HCM Control Delay, s/veh	41.1	29	23.9	229.4
HCM Lane LOS	E	D	C	F
HCM 95th-tile Q	7.7	4.8	3.4	33.3



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	49	253	126	22	250	42	72	51	14	21	46	64
Future Volume (vph)	49	253	126	22	250	42	72	51	14	21	46	64
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.934	
Flt Protected		0.992			0.996			0.972			0.992	
Satd. Flow (prot)	0	1848	1458	0	1855	1458	0	1811	1458	0	1726	0
Flt Permitted		0.992			0.996			0.972			0.992	
Satd. Flow (perm)	0	1848	1458	0	1855	1458	0	1811	1458	0	1726	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2637	
Travel Time (s)		33.4			26.9			28.1			32.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	53	275	137	24	272	46	78	55	15	23	50	70
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	328	137	0	296	46	0	133	15	0	143	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

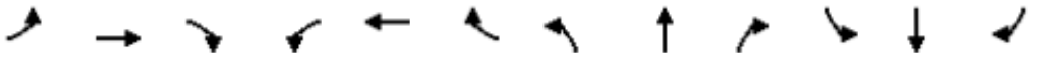
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 54.6%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	14
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	49	253	126	22	250	42	72	51	14	21	46	64
Future Vol, veh/h	49	253	126	22	250	42	72	51	14	21	46	64
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	53	275	137	24	272	46	78	55	15	23	50	70
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	14.5	14.6	12.4	12.3
HCM LOS	B	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	59%	0%	16%	0%	8%	0%	16%
Vol Thru, %	41%	0%	84%	0%	92%	0%	35%
Vol Right, %	0%	100%	0%	100%	0%	100%	49%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	123	14	302	126	272	42	131
LT Vol	72	0	49	0	22	0	21
Through Vol	51	0	253	0	250	0	46
RT Vol	0	14	0	126	0	42	64
Lane Flow Rate	134	15	328	137	296	46	142
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.271	0.027	0.561	0.204	0.514	0.07	0.268
Departure Headway (Hd)	7.293	6.281	6.15	5.357	6.259	5.506	6.77
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	491	566	584	666	574	646	527
Service Time	5.076	4.063	3.916	3.123	4.029	3.276	4.856
HCM Lane V/C Ratio	0.273	0.027	0.562	0.206	0.516	0.071	0.269
HCM Control Delay, s/veh	12.8	9.2	16.6	9.5	15.5	8.7	12.3
HCM Lane LOS	B	A	C	A	C	A	B
HCM 95th-tile Q	1.1	0.1	3.5	0.8	2.9	0.2	1.1



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	86	6	244	103	619	0	0	940	187
Future Volume (vph)	0	0	0	86	6	244	103	619	0	0	940	187
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850					0.975	
Flt Protected					0.956		0.950					
Satd. Flow (prot)	0	0	0	0	1781	1458	1630	1863	0	1716	1816	0
Flt Permitted					0.956		0.950					
Satd. Flow (perm)	0	0	0	0	1781	1458	1630	1863	0	1716	1816	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	93	7	265	112	673	0	0	1022	203
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	100	265	112	673	0	0	1225	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

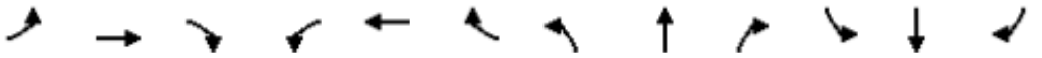
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	82.2%	ICU Level of Service	E
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	354.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	86	6	244	103	619	0	0	940	187
Future Vol, veh/h	0	0	0	86	6	244	103	619	0	0	940	187
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	0	0	0	93	7	265	112	673	0	0	1022	203
Number of Lanes	0	0	0	0	1	1	1	1	0	1	1	0

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	18.8	128.1	600.2
HCM LOS	C	F	F

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	100%	0%	93%	0%	0%	0%
Vol Thru, %	0%	100%	7%	0%	100%	83%
Vol Right, %	0%	0%	0%	100%	0%	17%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	103	619	92	244	0	1127
LT Vol	103	0	86	0	0	0
Through Vol	0	619	6	0	0	940
RT Vol	0	0	0	244	0	187
Lane Flow Rate	112	673	100	265	0	1225
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.22	1.231	0.226	0.513	0	2.285
Departure Headway (Hd)	8.523	8.001	9.9	8.659	7.146	7.027
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	424	458	365	419	0	527
Service Time	6.223	5.701	7.6	6.359	4.846	4.727
HCM Lane V/C Ratio	0.264	1.469	0.274	0.632	0	2.324
HCM Control Delay, s/veh	13.6	147.1	15.5	20.1	9.8	600.2
HCM Lane LOS	B	F	C	C	N	F
HCM 95th-tile Q	0.8	22.3	0.9	2.8	0	87.3



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	251	5	170	0	0	0	0	439	62	422	438	0
Future Volume (vph)	251	5	170	0	0	0	0	439	62	422	438	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.950		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	273	5	185	0	0	0	0	477	67	459	476	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	278	185	0	0	0	0	477	67	459	476	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 73.6%		ICU Level of Service D	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	56.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	251	5	170	0	0	0	0	439	62	422	438	0
Future Vol, veh/h	251	5	170	0	0	0	0	439	62	422	438	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	273	5	185	0	0	0	0	477	67	459	476	0
Number of Lanes	0	1	1	0	0	0	0	1	1	1	1	0

Approach	EB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	SB	EB	
Conflicting Lanes Left	2	2	0
Conflicting Approach Right	NB		EB
Conflicting Lanes Right	2	0	2
HCM Control Delay, s/veh	21.8	73.9	62.9
HCM LOS	C	F	F

Lane	NBLn1	NBLn2	EBLn1	EBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	98%	0%	100%	0%
Vol Thru, %	100%	0%	2%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	439	62	256	170	422	438
LT Vol	0	0	251	0	422	0
Through Vol	439	0	5	0	0	438
RT Vol	0	62	0	170	0	0
Lane Flow Rate	477	67	278	185	459	476
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	1.046	0.134	0.66	0.375	0.99	0.959
Departure Headway (Hd)	7.894	7.173	8.656	7.429	7.915	7.4
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	463	503	420	488	463	495
Service Time	5.594	4.873	6.356	5.129	5.615	5.1
HCM Lane V/C Ratio	1.03	0.133	0.662	0.379	0.991	0.962
HCM Control Delay, s/veh	82.8	11	26.6	14.5	67.8	58.1
HCM Lane LOS	F	B	D	B	F	F
HCM 95th-tile Q	14.7	0.5	4.6	1.7	12.7	12

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	19	28	295	20	43	426
Future Volume (vph)	19	28	295	20	43	426
Ideal Flow (vphpl)	1750	1750	1900	1750	1750	1900
Storage Length (ft)	100	50		50	100	
Storage Lanes	1	0		1	1	
Taper Length (ft)	25				25	
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.850		0.850		
Flt Protected	0.950				0.950	
Satd. Flow (prot)	1630	1458	1863	1458	1630	1863
Flt Permitted	0.950				0.950	
Satd. Flow (perm)	1630	1458	1863	1458	1630	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	739		548			2339
Travel Time (s)	9.2		6.8			29.0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	21	30	321	22	47	463
Shared Lane Traffic (%)						
Lane Group Flow (vph)	21	30	321	22	47	463
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	12		12			12
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.11	1.11	1.00	1.11	1.11	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Stop			Stop

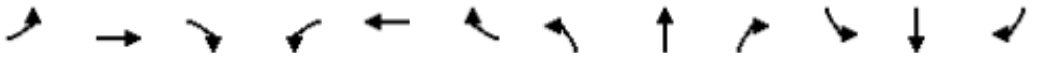
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	32.4%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Intersection Delay, s/veh	13.7
Intersection LOS	B

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	19	28	295	20	43	426
Future Vol, veh/h	19	28	295	20	43	426
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	21	30	321	22	47	463
Number of Lanes	1	1	1	1	1	1

Approach	WB	NB	SB
Opposing Approach		SB	NB
Opposing Lanes	0	2	2
Conflicting Approach Left	NB		WB
Conflicting Lanes Left	2	0	2
Conflicting Approach Right	SB	WB	
Conflicting Lanes Right	2	2	0
HCM Control Delay, s/veh	9.3	11.8	15.4
HCM LOS	A	B	C

Lane	NBLn1	NBLn2	WBLn1	WBLn2	SBLn1	SBLn2
Vol Left, %	0%	0%	100%	0%	100%	0%
Vol Thru, %	100%	0%	0%	0%	0%	100%
Vol Right, %	0%	100%	0%	100%	0%	0%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	295	20	19	28	43	426
LT Vol	0	0	19	0	43	0
Through Vol	295	0	0	0	0	426
RT Vol	0	20	0	28	0	0
Lane Flow Rate	321	22	21	30	47	463
Geometry Grp	5	5	5	5	5	5
Degree of Util (X)	0.456	0.027	0.04	0.049	0.071	0.639
Departure Headway (Hd)	5.114	4.41	6.983	5.768	5.468	4.966
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes
Cap	705	810	511	617	655	727
Service Time	2.849	2.144	4.753	3.537	3.2	2.698
HCM Lane V/C Ratio	0.455	0.027	0.041	0.049	0.072	0.637
HCM Control Delay, s/veh	12.1	7.3	10	8.8	8.6	16.1
HCM Lane LOS	B	A	A	A	A	C
HCM 95th-tile Q	2.4	0.1	0.1	0.2	0.2	4.6



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	114	3	164	120	10	5	3	95	8	6	2
Future Volume (vph)	4	114	3	164	120	10	5	3	95	8	6	2
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	100		50	100		50	100		50	100		50
Storage Lanes	1		1	1		1	1		1	1		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850			0.850
Flt Protected	0.950			0.950			0.950			0.950		
Satd. Flow (prot)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Flt Permitted	0.950			0.950			0.950			0.950		
Satd. Flow (perm)	1630	1863	1458	1630	1863	1458	1630	1863	1458	1630	1863	1458
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1360			1533			635			1348	
Travel Time (s)		16.9			19.0			7.9			16.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	4	124	3	178	130	11	5	3	103	9	7	2
Shared Lane Traffic (%)												
Lane Group Flow (vph)	4	124	3	178	130	11	5	3	103	9	7	2
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		12			12			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 30.3%		ICU Level of Service A	
Analysis Period (min) 15			

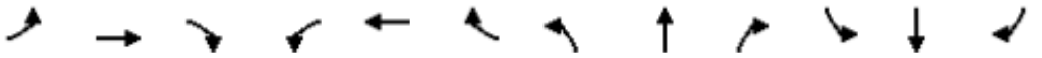
Intersection	
Int Delay, s/veh	8.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	4	114	3	164	120	10	5	3	95	8	6	2
Future Vol, veh/h	4	114	3	164	120	10	5	3	95	8	6	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	100	-	50	100	-	50	100	-	50	100	-	50
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	124	3	178	130	11	5	3	103	9	7	2

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	160	141	7	103	40	3	9	0	0	106	0	0
Stage 1	25	25	-	13	13	-	-	-	-	-	-	-
Stage 2	135	116	-	90	27	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	806	750	1075	877	852	1081	1611	-	-	1485	-	-
Stage 1	993	874	-	1007	885	-	-	-	-	-	-	-
Stage 2	868	800	-	917	873	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	699	743	1075	757	844	1081	1611	-	-	1485	-	-
Mov Cap-2 Maneuver	699	743	-	757	844	-	-	-	-	-	-	-
Stage 1	990	869	-	1004	882	-	-	-	-	-	-	-
Stage 2	730	798	-	779	868	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.7	10.6	0.4	3.7
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	EBLn2	EBLn3	WBLn1	WBLn2	WBLn3	SBL	SBT	SBR
Capacity (veh/h)	1611	-	-	699	743	1075	757	844	1081	1485	-	-
HCM Lane V/C Ratio	0.003	-	-	0.006	0.167	0.003	0.235	0.155	0.01	0.006	-	-
HCM Control Delay (s/veh)	7.2	-	-	10.2	10.8	8.4	11.2	10	8.4	7.4	-	-
HCM Lane LOS	A	-	-	B	B	A	B	B	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0	0.6	0	0.9	0.5	0	0	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	188	78	37	73	131	44	273	59	301	321	12
Future Volume (vph)	16	188	78	37	73	131	44	273	59	301	321	12
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.962			0.927			0.979			0.997	
Flt Protected		0.997			0.992			0.994			0.977	
Satd. Flow (prot)	0	1787	0	0	1713	0	0	1813	0	0	1814	0
Flt Permitted		0.997			0.992			0.994			0.977	
Satd. Flow (perm)	0	1787	0	0	1713	0	0	1813	0	0	1814	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2106	
Travel Time (s)		22.3			33.4			36.6			26.1	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	17	204	85	40	79	142	48	297	64	327	349	13
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	306	0	0	261	0	0	409	0	0	689	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

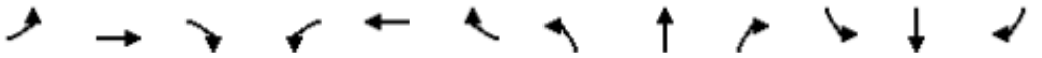
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 90.3%		ICU Level of Service E	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	126
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	16	188	78	37	73	131	44	273	59	301	321	12
Future Vol, veh/h	16	188	78	37	73	131	44	273	59	301	321	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	17	204	85	40	79	142	48	297	64	327	349	13
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay, s/veh	30.4	25.3	47.6	253.3
HCM LOS	D	D	E	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	12%	6%	15%	47%
Vol Thru, %	73%	67%	30%	51%
Vol Right, %	16%	28%	54%	2%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	376	282	241	634
LT Vol	44	16	37	301
Through Vol	273	188	73	321
RT Vol	59	78	131	12
Lane Flow Rate	409	307	262	689
Geometry Grp	1	1	1	1
Degree of Util (X)	0.868	0.686	0.592	1.491
Departure Headway (Hd)	8.739	9.339	9.483	7.79
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	417	389	382	475
Service Time	6.739	7.339	7.483	5.79
HCM Lane V/C Ratio	0.981	0.789	0.686	1.451
HCM Control Delay, s/veh	47.6	30.4	25.3	253.3
HCM Lane LOS	E	D	D	F
HCM 95th-tile Q	8.7	4.9	3.7	35.6



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	49	257	126	22	256	61	72	69	14	34	55	64
Future Volume (vph)	49	257	126	22	256	61	72	69	14	34	55	64
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		50	0		140	0		50	0		0
Storage Lanes	0		1	0		1	0		1	0		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850			0.850			0.850		0.943	
Flt Protected		0.992			0.996			0.975			0.989	
Satd. Flow (prot)	0	1848	1458	0	1855	1458	0	1816	1458	0	1737	0
Flt Permitted		0.992			0.996			0.975			0.989	
Satd. Flow (perm)	0	1848	1458	0	1855	1458	0	1816	1458	0	1737	0
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		2695			2169			2270			2002	
Travel Time (s)		33.4			26.9			28.1			24.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	53	279	137	24	278	66	78	75	15	37	60	70
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	332	137	0	302	66	0	153	15	0	167	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Sign Control		Stop			Stop			Stop			Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 56.3%		ICU Level of Service B	
Analysis Period (min) 15			

Intersection	
Intersection Delay, s/veh	15.3
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	49	257	126	22	256	61	72	69	14	34	55	64
Future Vol, veh/h	49	257	126	22	256	61	72	69	14	34	55	64
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	53	279	137	24	278	66	78	75	15	37	60	70
Number of Lanes	0	1	1	0	1	1	0	1	1	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	1	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	1	2	2
HCM Control Delay, s/veh	16.1	15.9	13.5	13.7
HCM LOS	C	C	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1
Vol Left, %	51%	0%	16%	0%	8%	0%	22%
Vol Thru, %	49%	0%	84%	0%	92%	0%	36%
Vol Right, %	0%	100%	0%	100%	0%	100%	42%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	141	14	306	126	278	61	153
LT Vol	72	0	49	0	22	0	34
Through Vol	69	0	257	0	256	0	55
RT Vol	0	14	0	126	0	61	64
Lane Flow Rate	153	15	333	137	302	66	166
Geometry Grp	5	5	5	5	5	5	4b
Degree of Util (X)	0.322	0.028	0.602	0.218	0.555	0.108	0.329
Departure Headway (Hd)	7.564	6.587	6.519	5.724	6.612	5.857	7.13
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	475	543	555	630	547	614	504
Service Time	5.308	4.33	4.231	3.436	4.325	3.57	5.175
HCM Lane V/C Ratio	0.322	0.028	0.6	0.217	0.552	0.107	0.329
HCM Control Delay, s/veh	13.9	9.5	18.6	10	17.3	9.3	13.7
HCM Lane LOS	B	A	C	A	C	A	B
HCM 95th-tile Q	1.4	0.1	4	0.8	3.4	0.4	1.4

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	103	32	10	103	12	8
Future Volume (vph)	103	32	10	103	12	8
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.968				0.945	
Flt Protected				0.996	0.971	
Satd. Flow (prot)	1803	0	0	1855	1709	0
Flt Permitted				0.996	0.971	
Satd. Flow (perm)	1803	0	0	1855	1709	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	739			580	300	
Travel Time (s)	9.2			7.2	3.7	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	112	35	11	112	13	9
Shared Lane Traffic (%)						
Lane Group Flow (vph)	147	0	0	123	22	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 23.7%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	103	32	10	103	12	8
Future Vol, veh/h	103	32	10	103	12	8
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	112	35	11	112	13	9

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	147	0	264	130
Stage 1	-	-	-	-	130	-
Stage 2	-	-	-	-	134	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1435	-	725	920
Stage 1	-	-	-	-	896	-
Stage 2	-	-	-	-	892	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1435	-	719	920
Mov Cap-2 Maneuver	-	-	-	-	719	-
Stage 1	-	-	-	-	896	-
Stage 2	-	-	-	-	885	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.7	9.7
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	788	-	-	1435	-
HCM Lane V/C Ratio	0.028	-	-	0.008	-
HCM Control Delay (s/veh)	9.7	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	108	1	2	110	0	1
Future Volume (vph)	108	1	2	110	0	1
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.999				0.865	
Flt Protected				0.999		
Satd. Flow (prot)	1861	0	0	1861	1611	0
Flt Permitted				0.999		
Satd. Flow (perm)	1861	0	0	1861	1611	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	580			1360	308	
Travel Time (s)	7.2			16.9	3.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	117	1	2	120	0	1
Shared Lane Traffic (%)						
Lane Group Flow (vph)	118	0	0	122	1	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)		9	15		15	9
Sign Control	Free			Free	Stop	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 17.4%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	108	1	2	110	0	1
Future Vol, veh/h	108	1	2	110	0	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	117	1	2	120	0	1

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	118	0	242	118
Stage 1	-	-	-	-	118	-
Stage 2	-	-	-	-	124	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1470	-	746	934
Stage 1	-	-	-	-	907	-
Stage 2	-	-	-	-	902	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1470	-	745	934
Mov Cap-2 Maneuver	-	-	-	-	745	-
Stage 1	-	-	-	-	907	-
Stage 2	-	-	-	-	901	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0.1	8.9
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	934	-	-	1470	-
HCM Lane V/C Ratio	0.001	-	-	0.001	-
HCM Control Delay (s/veh)	8.9	-	-	7.5	0
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0	-	-	0	-

Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	0	13	277	20	0	456
Future Volume (vph)	0	13	277	20	0	456
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.865	0.991			
Flt Protected						
Satd. Flow (prot)	0	1611	1846	0	0	1863
Flt Permitted						
Satd. Flow (perm)	0	1611	1846	0	0	1863
Link Speed (mph)	55		55			55
Link Distance (ft)	2684		2106			548
Travel Time (s)	33.3		26.1			6.8
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	14	301	22	0	496
Shared Lane Traffic (%)						
Lane Group Flow (vph)	0	14	323	0	0	496
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Right	Left	Left
Median Width(ft)	0		0			0
Link Offset(ft)	0		0			0
Crosswalk Width(ft)	16		16			16
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9		9	15	
Sign Control	Stop		Free			Free

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 27.3%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	13	277	20	0	456
Future Vol, veh/h	0	13	277	20	0	456
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	14	301	22	0	496

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	312	0	0	323	0
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.22	-	-	4.12	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.318	-	-	2.218	-
Pot Cap-1 Maneuver	0	728	-	-	1237	-
Stage 1	0	-	-	-	-	-
Stage 2	0	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	728	-	-	1237	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s/v	10	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	728	1237	-
HCM Lane V/C Ratio	-	-	0.019	-	-
HCM Control Delay (s/veh)	-	-	10	0	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-

Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	23	21	35	2	1	41
Future Volume (vph)	23	21	35	2	1	41
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00
Frt	0.935				0.868	
Flt Protected	0.975			0.955		
Satd. Flow (prot)	1698	0	0	1779	1617	0
Flt Permitted	0.975			0.955		
Satd. Flow (perm)	1698	0	0	1779	1617	0
Link Speed (mph)	55			55	55	
Link Distance (ft)	2684			2002	635	
Travel Time (s)	33.3			24.8	7.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	25	23	38	2	1	45
Shared Lane Traffic (%)						
Lane Group Flow (vph)	48	0	0	40	46	0
Enter Blocked Intersection	No	No	No	No	No	No
Lane Alignment	Left	Right	Left	Left	Left	Right
Median Width(ft)	12			12	12	
Link Offset(ft)	0			0	0	
Crosswalk Width(ft)	16			16	16	
Two way Left Turn Lane						
Headway Factor	1.00	1.00	1.00	1.00	1.00	1.00
Turning Speed (mph)	15	9	15			9
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 18.7%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	5.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	23	21	35	2	1	41
Future Vol, veh/h	23	21	35	2	1	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	25	23	38	2	1	45

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	102	24	46	0	-	0
Stage 1	24	-	-	-	-	-
Stage 2	78	-	-	-	-	-
Critical Hdwy	6.42	6.22	4.12	-	-	-
Critical Hdwy Stg 1	5.42	-	-	-	-	-
Critical Hdwy Stg 2	5.42	-	-	-	-	-
Follow-up Hdwy	3.518	3.318	2.218	-	-	-
Pot Cap-1 Maneuver	896	1052	1562	-	-	-
Stage 1	999	-	-	-	-	-
Stage 2	945	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	874	1052	1562	-	-	-
Mov Cap-2 Maneuver	874	-	-	-	-	-
Stage 1	975	-	-	-	-	-
Stage 2	945	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s/v	9	7	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1562	-	951	-	-
HCM Lane V/C Ratio	0.024	-	0.05	-	-
HCM Control Delay (s/veh)	7.4	0	9	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.2	-	-

Scenario Information

Scenario 1
Description:
Data Date: Undefined Data Time: Undefined
Timing Plan ID: Default
Alternative: Baseline
Number of Signalized Intersections: 0
Most Popular Cycle Length: 0

Network Totals

	Scenario 1
Number of Intersections	10
Most Popular Cycle (s)	0
Alternative	Baseline
Timing Plan ID	Default
Data Time	Undefined
Control Delay / Veh (s/v)	116
Queue Delay / Veh (s/v)	0
Total Delay / Veh (s/v)	116
Total Delay (hr)	300
Stops / Veh	0.85
Stops (#)	7948
Average Speed (mph)	7
Total Travel Time (hr)	348
Distance Traveled (mi)	2601
Fuel Consumed (gal)	455
Fuel Economy (mpg)	5.7
CO Emissions (kg)	31.78
NOx Emissions (kg)	6.18
VOC Emissions (kg)	7.37
Unserved Vehicles (#)	0
Vehicles in dilemma zone (#)	0
Performance Index	322.3

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	86	6	244	103	619	0	0	940	187
Future Volume (vph)	0	0	0	86	6	244	103	619	0	0	940	187
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		0	0		350	200		0	80		0
Storage Lanes	0		0	0		1	1		0	0		1
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt						0.850						0.850
Flt Protected					0.956		0.950					
Satd. Flow (prot)	0	0	0	0	1781	1458	1630	1863	0	0	1863	1458
Flt Permitted					0.956		0.190					
Satd. Flow (perm)	0	0	0	0	1781	1458	326	1863	0	0	1863	1458
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)						246						203
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1153			2492			645			504	
Travel Time (s)		14.3			30.9			8.0			6.2	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	0	0	0	93	7	265	112	673	0	0	1022	203
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	100	265	112	673	0	0	1022	203
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors				1	1	1	1	1			1	1
Detector Template												
Leading Detector (ft)				50	50	50	50	50			50	50
Trailing Detector (ft)				0	0	0	0	0			0	0
Detector 1 Position(ft)				0	0	0	0	0			0	0
Detector 1 Size(ft)				50	50	50	50	50			50	50
Detector 1 Type				Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex			Cl+Ex	Cl+Ex
Detector 1 Channel												
Detector 1 Extend (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Detector 1 Queue (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Detector 1 Delay (s)				0.0	0.0	0.0	0.0	0.0			0.0	0.0
Turn Type				Perm	NA	Perm	Perm	NA			NA	Perm
Protected Phases					8			2			6	
Permitted Phases				8		8	2					6
Detector Phase				8	8	8	2	2			6	6
Switch Phase												
Minimum Initial (s)				4.0	4.0	4.0	4.0	4.0			4.0	4.0
Minimum Split (s)				24.0	24.0	24.0	24.0	24.0			24.0	24.0
Total Split (s)				31.0	31.0	31.0	59.0	59.0			59.0	59.0

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (%)				34.4%	34.4%	34.4%	65.6%	65.6%			65.6%	65.6%
Maximum Green (s)				25.0	25.0	25.0	53.0	53.0			53.0	53.0
Yellow Time (s)				5.0	5.0	5.0	5.0	5.0			5.0	5.0
All-Red Time (s)				1.0	1.0	1.0	1.0	1.0			1.0	1.0
Lost Time Adjust (s)					0.0	0.0	0.0	0.0			0.0	0.0
Total Lost Time (s)					6.0	6.0	6.0	6.0			6.0	6.0
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)				3.0	3.0	3.0	3.0	3.0			3.0	3.0
Recall Mode				None	None	None	C-Max	C-Max			C-Max	C-Max
Walk Time (s)				7.0	7.0	7.0	7.0	7.0			7.0	7.0
Flash Don't Walk (s)				11.0	11.0	11.0	11.0	11.0			11.0	11.0
Pedestrian Calls (#/hr)				0	0	0	0	0			0	0
Act Effct Green (s)					10.8	10.8	67.2	67.2			67.2	67.2
Actuated g/C Ratio					0.12	0.12	0.75	0.75			0.75	0.75
v/c Ratio					0.47	0.68	0.46	0.48			0.73	0.18
Control Delay (s/veh)					43.1	15.5	11.8	5.1			11.5	1.1
Queue Delay					0.0	0.0	0.0	0.2			0.0	0.0
Total Delay (s/veh)					43.1	15.5	11.8	5.3			11.5	1.1
LOS					D	B	B	A			B	A
Approach Delay (s/veh)					23.1			6.2			9.7	
Approach LOS					C			A			A	

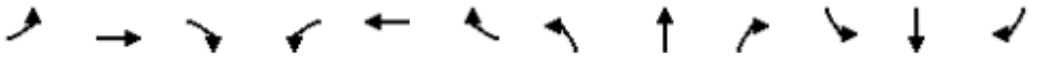
Intersection Summary	
Area Type:	Other
Cycle Length: 90	
Actuated Cycle Length: 90	
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBT, Start of Green	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.73	
Intersection Signal Delay (s/veh): 10.6	Intersection LOS: B
Intersection Capacity Utilization 77.7%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 1: Shirk St & SR 198 WB Ramps

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	86	6	244	103	619	0	0	940	187
Future Volume (veh/h)	0	0	0	86	6	244	103	619	0	0	940	187
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1750	1863	1716	1716	1863	0	0	1863	1716
Adj Flow Rate, veh/h				93	7	265	112	673	0	0	1022	203
Adj No. of Lanes				0	1	1	1	1	0	0	1	1
Peak Hour Factor				0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %				2	2	2	2	2	0	0	2	2
Cap, veh/h				343	26	302	182	1228	0	0	1228	961
Arrive On Green				0.21	0.21	0.21	1.00	1.00	0.00	0.00	0.66	0.66
Sat Flow, veh/h				1655	125	1458	418	1863	0	0	1863	1458
Grp Volume(v), veh/h				100	0	265	112	673	0	0	1022	203
Grp Sat Flow(s),veh/h/ln				1780	0	1458	418	1863	0	0	1863	1458
Q Serve(g_s), s				4.2	0.0	15.8	22.1	0.0	0.0	0.0	37.3	5.0
Cycle Q Clear(g_c), s				4.2	0.0	15.8	59.3	0.0	0.0	0.0	37.3	5.0
Prop In Lane				0.93		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				369	0	302	182	1228	0	0	1228	961
V/C Ratio(X)				0.27	0.00	0.88	0.61	0.55	0.00	0.00	0.83	0.21
Avail Cap(c_a), veh/h				494	0	405	182	1228	0	0	1228	961
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.93	0.93	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				30.0	0.0	34.5	19.6	0.0	0.0	0.0	11.6	6.1
Incr Delay (d2), s/veh				0.4	0.0	15.2	13.6	1.6	0.0	0.0	6.7	0.5
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				2.1	0.0	7.7	3.4	0.6	0.0	0.0	21.0	2.1
LnGrp Delay(d), s/veh				30.3	0.0	49.7	33.2	1.6	0.0	0.0	18.3	6.6
LnGrp LOS				C		D	C	A			B	A
Approach Vol, veh/h					365			785			1225	
Approach Delay, s/veh					44.4			6.1			16.3	
Approach LOS					D			A			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		65.3				65.3		24.7
Change Period (Y+Rc), s		6.0				6.0		6.0
Max Green Setting (Gmax), s		53.0				53.0		25.0
Max Q Clear Time (g_c+I1), s		61.3				39.3		17.8
Green Ext Time (p_c), s		0.0				5.1		0.8

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	17.3
HCM 2010 LOS	B



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	251	5	170	0	0	0	0	439	62	422	438	0
Future Volume (vph)	251	5	170	0	0	0	0	439	62	422	438	0
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Storage Length (ft)	0		220	0		0	0		90	150		0
Storage Lanes	0		1	0		0	0		1	1		0
Taper Length (ft)	25			25			25			25		
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt			0.850						0.850			
Flt Protected		0.953								0.950		
Satd. Flow (prot)	0	1775	1458	0	0	0	0	1863	1458	1630	1863	0
Flt Permitted		0.953								0.455		
Satd. Flow (perm)	0	1775	1458	0	0	0	0	1863	1458	781	1863	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)			185						67			
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1076			2120			2339			645	
Travel Time (s)		13.3			26.3			29.0			8.0	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	273	5	185	0	0	0	0	477	67	459	476	0
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	278	185	0	0	0	0	477	67	459	476	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			12			12	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1	1					1	1	1	1	
Detector Template												
Leading Detector (ft)	50	50	50					50	50	50	50	
Trailing Detector (ft)	0	0	0					0	0	0	0	
Detector 1 Position(ft)	0	0	0					0	0	0	0	
Detector 1 Size(ft)	50	50	50					50	50	50	50	
Detector 1 Type	Cl+Ex	Cl+Ex	Cl+Ex					Cl+Ex	Cl+Ex	Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Detector 1 Queue (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Detector 1 Delay (s)	0.0	0.0	0.0					0.0	0.0	0.0	0.0	
Turn Type	Perm	NA	Perm					NA	Perm	Perm	NA	
Protected Phases		4						2			6	
Permitted Phases	4		4						2	6		
Detector Phase	4	4	4					2	2	6	6	
Switch Phase												
Minimum Initial (s)	4.0	4.0	4.0					4.0	4.0	4.0	4.0	
Minimum Split (s)	24.0	24.0	24.0					24.0	24.0	24.0	24.0	
Total Split (s)	24.0	24.0	24.0					66.0	66.0	66.0	66.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Total Split (%)	26.7%	26.7%	26.7%					73.3%	73.3%	73.3%	73.3%	
Maximum Green (s)	18.0	18.0	18.0					60.0	60.0	60.0	60.0	
Yellow Time (s)	5.0	5.0	5.0					5.0	5.0	5.0	5.0	
All-Red Time (s)	1.0	1.0	1.0					1.0	1.0	1.0	1.0	
Lost Time Adjust (s)		0.0	0.0					0.0	0.0	0.0	0.0	
Total Lost Time (s)		6.0	6.0					6.0	6.0	6.0	6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0	3.0					3.0	3.0	3.0	3.0	
Recall Mode	None	None	None					C-Max	C-Max	C-Max	C-Max	
Walk Time (s)	7.0	7.0	7.0					7.0	7.0	7.0	7.0	
Flash Don't Walk (s)	11.0	11.0	11.0					11.0	11.0	11.0	11.0	
Pedestrian Calls (#/hr)	0	0	0					0	0	0	0	
Act Effct Green (s)		16.9	16.9					61.1	61.1	61.1	61.1	
Actuated g/C Ratio		0.19	0.19					0.68	0.68	0.68	0.68	
v/c Ratio		0.84	0.44					0.38	0.07	0.87	0.38	
Control Delay (s/veh)		57.5	8.5					9.6	3.2	23.4	3.5	
Queue Delay		0.0	0.0					0.0	0.0	0.0	0.0	
Total Delay (s/veh)		57.5	8.5					9.6	3.2	23.4	3.5	
LOS		E	A					A	A	C	A	
Approach Delay (s/veh)		37.9						8.8			13.3	
Approach LOS		D						A			B	

Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBTL, Start of Green			
Natural Cycle: 90			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.87			
Intersection Signal Delay (s/veh): 17.9		Intersection LOS: B	
Intersection Capacity Utilization 77.7%		ICU Level of Service D	
Analysis Period (min) 15			

Splits and Phases: 2: Shirk St & SR 138 EB Ramps

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	251	5	170	0	0	0	0	439	62	422	438	0
Future Volume (veh/h)	251	5	170	0	0	0	0	439	62	422	438	0
Number	7	4	14				5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1750	1863	1716				0	1863	1716	1716	1863	0
Adj Flow Rate, veh/h	273	5	185				0	477	67	459	476	0
Adj No. of Lanes	0	1	1				0	1	1	1	1	0
Peak Hour Factor	0.92	0.92	0.92				0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2				0	2	2	2	2	0
Cap, veh/h	313	6	262				0	1280	1002	538	1280	0
Arrive On Green	0.18	0.18	0.18				0.00	0.69	0.69	1.00	1.00	0.00
Sat Flow, veh/h	1744	32	1458				0	1863	1458	791	1863	0
Grp Volume(v), veh/h	278	0	185				0	477	67	459	476	0
Grp Sat Flow(s),veh/h/ln	1776	0	1458				0	1863	1458	791	1863	0
Q Serve(g_s), s	13.7	0.0	10.7				0.0	9.7	1.4	52.2	0.0	0.0
Cycle Q Clear(g_c), s	13.7	0.0	10.7				0.0	9.7	1.4	61.8	0.0	0.0
Prop In Lane	0.98		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	319	0	262				0	1280	1002	538	1280	0
V/C Ratio(X)	0.87	0.00	0.71				0.00	0.37	0.07	0.85	0.37	0.00
Avail Cap(c_a), veh/h	355	0	292				0	1280	1002	538	1280	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	0.60	0.60	0.00
Uniform Delay (d), s/veh	35.9	0.0	34.7				0.0	5.9	4.6	4.9	0.0	0.0
Incr Delay (d2), s/veh	19.1	0.0	6.7				0.0	0.8	0.1	10.1	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.4	0.0	4.8				0.0	5.2	0.6	12.0	0.2	0.0
LnGrp Delay(d), s/veh	55.0	0.0	41.4				0.0	6.8	4.7	15.0	0.5	0.0
LnGrp LOS	E		D					A	A	B	A	
Approach Vol, veh/h		463						544			935	
Approach Delay, s/veh		49.6						6.5			7.6	
Approach LOS		D						A			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		
Phs Duration (G+Y+Rc), s		67.8		22.2		67.8		
Change Period (Y+Rc), s		6.0		6.0		6.0		
Max Green Setting (Gmax), s		60.0		18.0		60.0		
Max Q Clear Time (g_c+I1), s		11.7		15.7		63.8		
Green Ext Time (p_c), s		2.1		0.4		0.0		

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	17.3
HCM 2010 LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	16	188	78	37	73	131	44	273	59	301	321	12
Future Volume (vph)	16	188	78	37	73	131	44	273	59	301	321	12
Ideal Flow (vphpl)	1750	1900	1750	1750	1900	1750	1750	1900	1750	1750	1900	1750
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt		0.962			0.927			0.979			0.997	
Flt Protected		0.997			0.992			0.994			0.977	
Satd. Flow (prot)	0	1787	0	0	1713	0	0	1813	0	0	1814	0
Flt Permitted		0.958			0.734			0.877			0.665	
Satd. Flow (perm)	0	1717	0	0	1267	0	0	1599	0	0	1235	0
Right Turn on Red			Yes			Yes			Yes			Yes
Satd. Flow (RTOR)		20			61			22			2	
Link Speed (mph)		55			55			55			55	
Link Distance (ft)		1796			2695			2949			2654	
Travel Time (s)		22.3			33.4			36.6			32.9	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	17	204	85	40	79	142	48	297	64	327	349	13
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	306	0	0	261	0	0	409	0	0	689	0
Enter Blocked Intersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(ft)		0			0			0			0	
Link Offset(ft)		0			0			0			0	
Crosswalk Width(ft)		16			16			16			16	
Two way Left Turn Lane												
Headway Factor	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11	1.11	1.00	1.11
Turning Speed (mph)	15		9	15		9	15		9	15		9
Number of Detectors	1	1		1	1		1	1		1	1	
Detector Template												
Leading Detector (ft)	50	50		50	50		50	50		50	50	
Trailing Detector (ft)	0	0		0	0		0	0		0	0	
Detector 1 Position(ft)	0	0		0	0		0	0		0	0	
Detector 1 Size(ft)	50	50		50	50		50	50		50	50	
Detector 1 Type	Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex		Cl+Ex	Cl+Ex	
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Queue (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Detector 1 Delay (s)	0.0	0.0		0.0	0.0		0.0	0.0		0.0	0.0	
Turn Type	Perm	NA		Perm	NA		Perm	NA		Perm	NA	
Protected Phases		4			8			2			6	
Permitted Phases	4			8			2			6		
Detector Phase	4	4		8	8		2	2		6	6	
Switch Phase												
Minimum Initial (s)	4.0	4.0		4.0	4.0		4.0	4.0		4.0	4.0	
Minimum Split (s)	24.0	24.0		24.0	24.0		24.0	24.0		24.0	24.0	
Total Split (s)	25.0	25.0		25.0	25.0		65.0	65.0		65.0	65.0	
Total Split (%)	27.8%	27.8%		27.8%	27.8%		72.2%	72.2%		72.2%	72.2%	
Maximum Green (s)	19.0	19.0		19.0	19.0		59.0	59.0		59.0	59.0	
Yellow Time (s)	5.0	5.0		5.0	5.0		5.0	5.0		5.0	5.0	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
All-Red Time (s)	1.0	1.0		1.0	1.0		1.0	1.0		1.0	1.0	
Lost Time Adjust (s)		0.0			0.0			0.0			0.0	
Total Lost Time (s)		6.0			6.0			6.0			6.0	
Lead/Lag												
Lead-Lag Optimize?												
Vehicle Extension (s)	3.0	3.0		3.0	3.0		3.0	3.0		3.0	3.0	
Recall Mode	None	None		None	None		C-Max	C-Max		C-Max	C-Max	
Walk Time (s)	7.0	7.0		7.0	7.0		7.0	7.0		7.0	7.0	
Flash Don't Walk (s)	11.0	11.0		11.0	11.0		11.0	11.0		11.0	11.0	
Pedestrian Calls (#/hr)	0	0		0	0		0	0		0	0	
Act Effct Green (s)		17.7			17.7			60.3			60.3	
Actuated g/C Ratio		0.20			0.20			0.67			0.67	
v/c Ratio		0.86			0.88			0.38			0.83	
Control Delay (s/veh)		56.9			56.2			7.7			30.2	
Queue Delay		0.0			0.0			0.0			0.0	
Total Delay (s/veh)		56.9			56.2			7.7			30.2	
LOS		E			E			A			C	
Approach Delay (s/veh)		56.9			56.2			7.7			30.2	
Approach LOS		E			E			A			C	

Intersection Summary			
Area Type:	Other		
Cycle Length: 90			
Actuated Cycle Length: 90			
Offset: 0 (0%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green			
Natural Cycle: 80			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.88			
Intersection Signal Delay (s/veh): 33.6		Intersection LOS: C	
Intersection Capacity Utilization 95.3%		ICU Level of Service F	
Analysis Period (min) 15			

Splits and Phases: 5: Shirk St & Walnut Ave

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	188	78	37	73	131	44	273	59	301	321	12
Future Volume (veh/h)	16	188	78	37	73	131	44	273	59	301	321	12
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1750	1863	1750	1750	1863	1750	1750	1863	1750	1750	1863	1750
Adj Flow Rate, veh/h	17	204	85	40	79	142	48	297	64	327	349	13
Adj No. of Lanes	0	1	0	0	1	0	0	1	0	0	1	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	52	237	95	77	106	164	144	866	179	478	456	17
Arrive On Green	0.19	0.19	0.19	0.19	0.19	0.19	0.67	0.67	0.67	0.67	0.67	0.67
Sat Flow, veh/h	50	1233	494	160	554	853	148	1283	265	621	675	25
Grp Volume(v), veh/h	306	0	0	261	0	0	409	0	0	689	0	0
Grp Sat Flow(s),veh/h/ln	1777	0	0	1567	0	0	1696	0	0	1322	0	0
Q Serve(g_s), s	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.0
Cycle Q Clear(g_c), s	15.0	0.0	0.0	14.5	0.0	0.0	8.5	0.0	0.0	32.3	0.0	0.0
Prop In Lane	0.06		0.28	0.15		0.54	0.12		0.16	0.47		0.02
Lane Grp Cap(c), veh/h	383	0	0	347	0	0	1189	0	0	951	0	0
V/C Ratio(X)	0.80	0.00	0.00	0.75	0.00	0.00	0.34	0.00	0.00	0.72	0.00	0.00
Avail Cap(c_a), veh/h	416	0	0	377	0	0	1189	0	0	951	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	35.5	0.0	0.0	35.0	0.0	0.0	6.1	0.0	0.0	10.1	0.0	0.0
Incr Delay (d2), s/veh	9.8	0.0	0.0	7.7	0.0	0.0	0.8	0.0	0.0	4.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.4	0.0	0.0	7.0	0.0	0.0	4.5	0.0	0.0	12.8	0.0	0.0
LnGrp Delay(d), s/veh	45.3	0.0	0.0	42.7	0.0	0.0	6.9	0.0	0.0	14.9	0.0	0.0
LnGrp LOS	D			D			A			B		
Approach Vol, veh/h		306			261			409			689	
Approach Delay, s/veh		45.3			42.7			6.9			14.9	
Approach LOS		D			D			A			B	

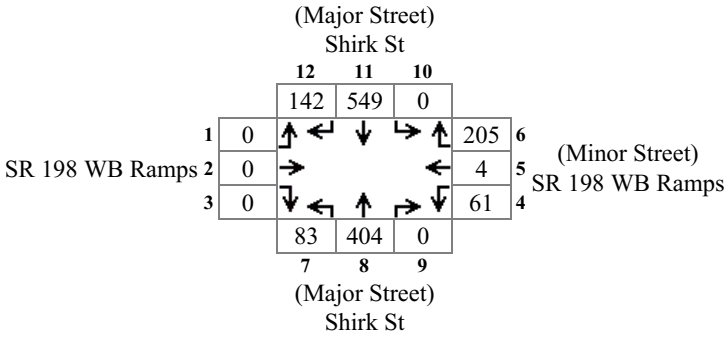
Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4		6		8
Phs Duration (G+Y+Rc), s		66.7		23.3		66.7		23.3
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0
Max Green Setting (Gmax), s		59.0		19.0		59.0		19.0
Max Q Clear Time (g_c+I1), s		10.5		17.0		34.3		16.5
Green Ext Time (p_c), s		1.7		0.2		3.6		0.2

Intersection Summary	
HCM 2010 Ctrl Delay, s/veh	22.9
HCM 2010 LOS	C

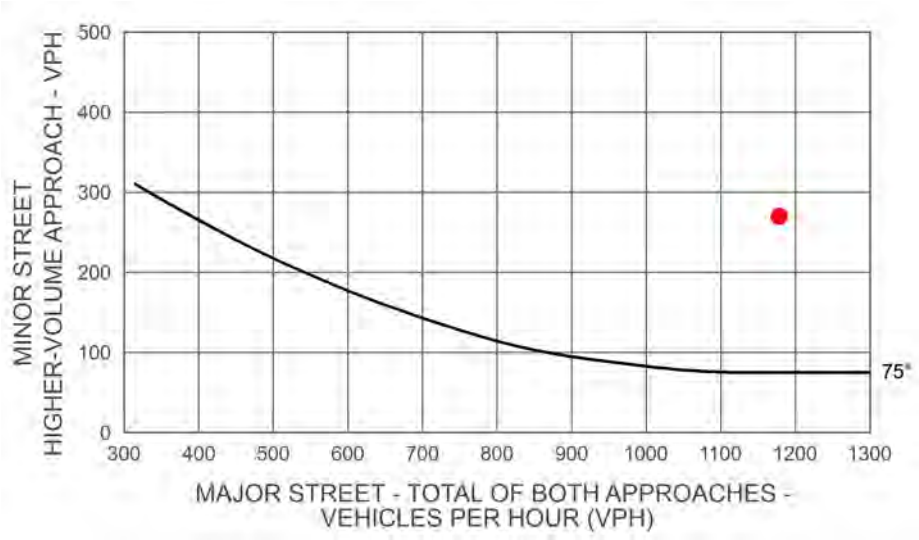
Intersection 1
Shirk St & SR 198 WB Ramps

Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Existing
Intersection #: 1

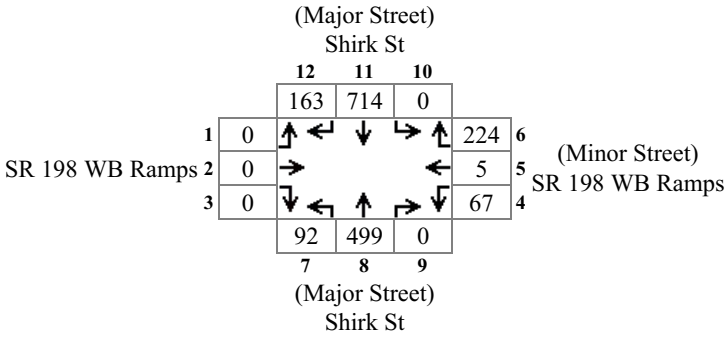


Major Total: 1178
Minor High Volume: 270

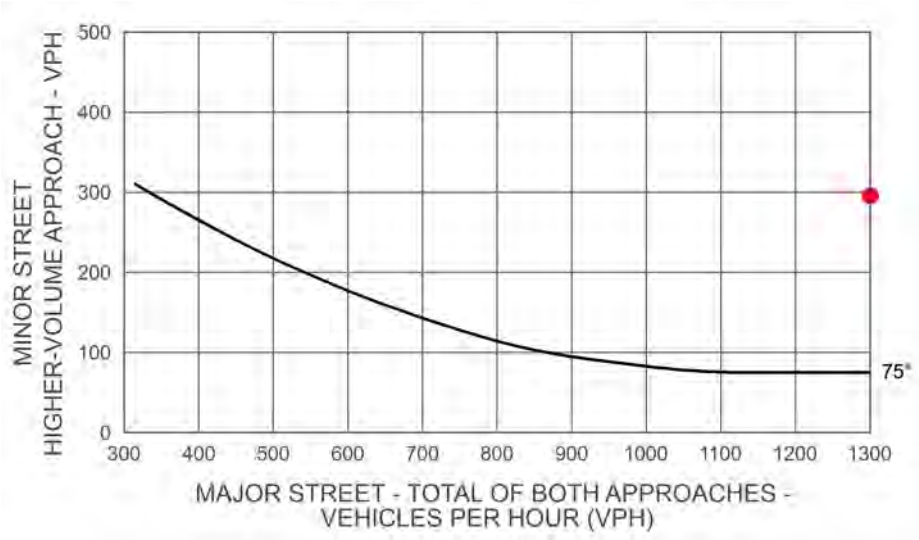


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future
Intersection #: 1

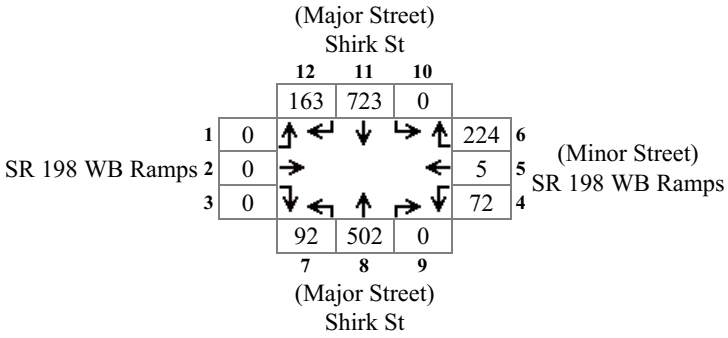


Major Total: 1468
Minor High Volume: 296

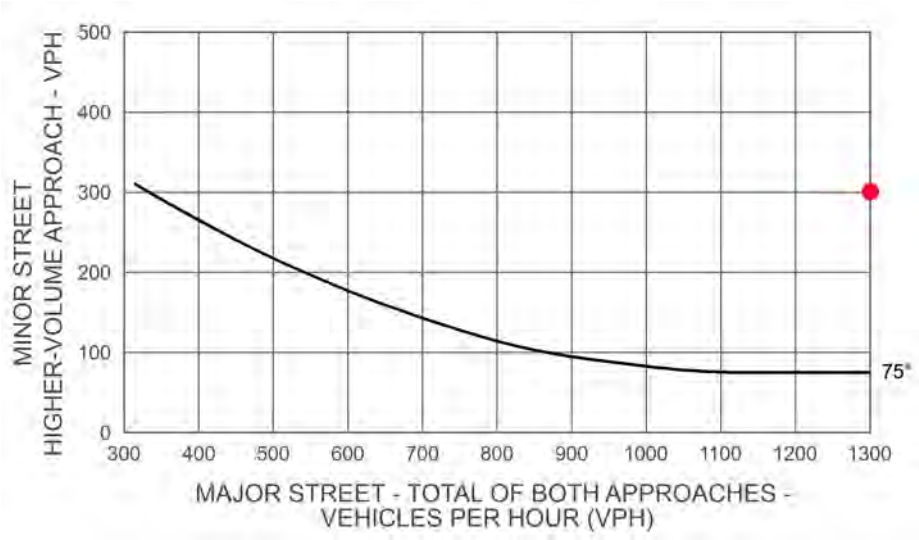


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future+Project
Intersection #: 1

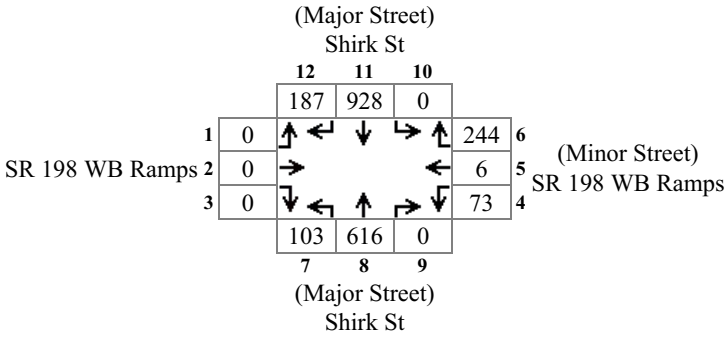


Major Total: 1480
Minor High Volume: 301

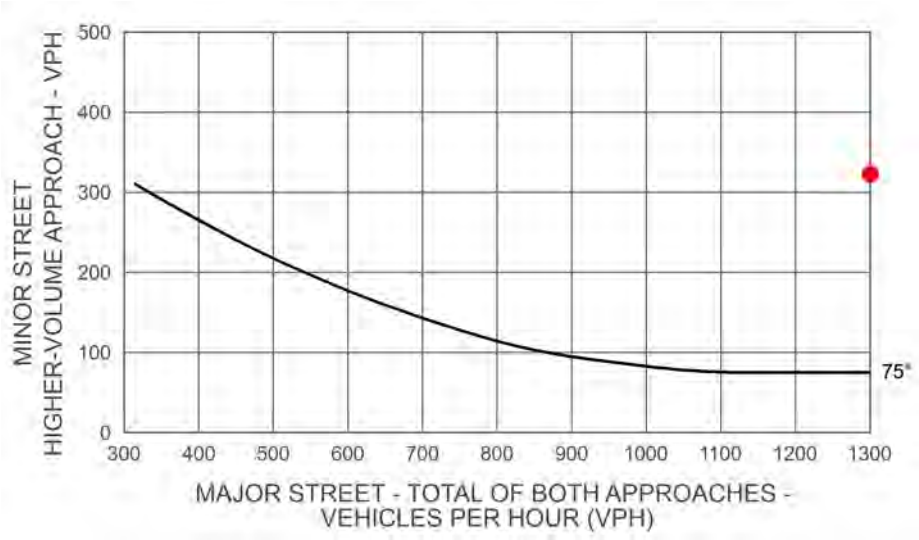


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future
Intersection #: 1

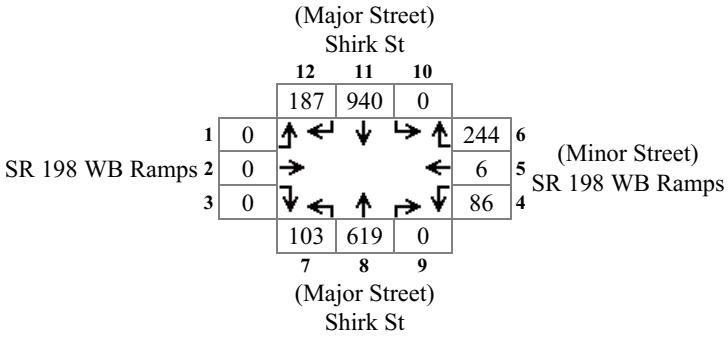


Major Total: 1834
Minor High Volume: 323

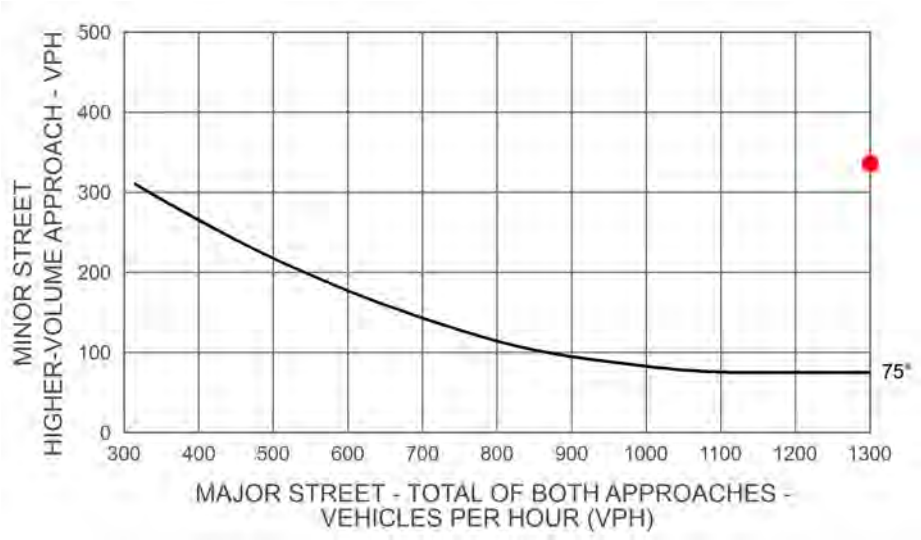


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future+Project (Future)
Intersection #: 1

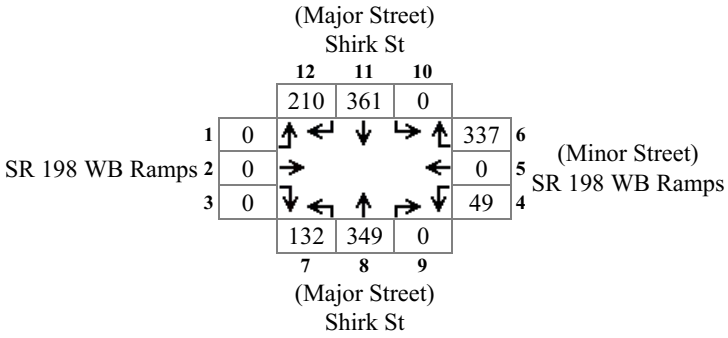


Major Total: 1849
Minor High Volume: 336

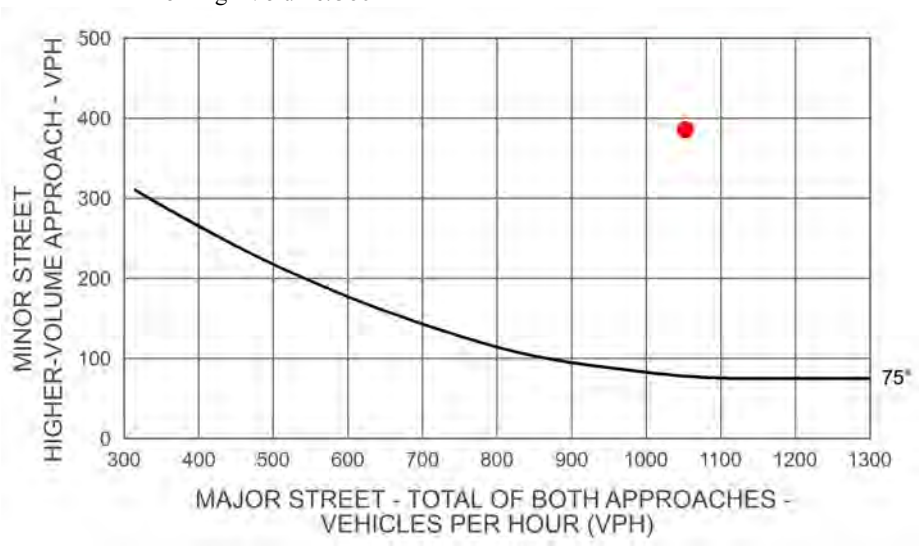


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Existing
Intersection #: 1

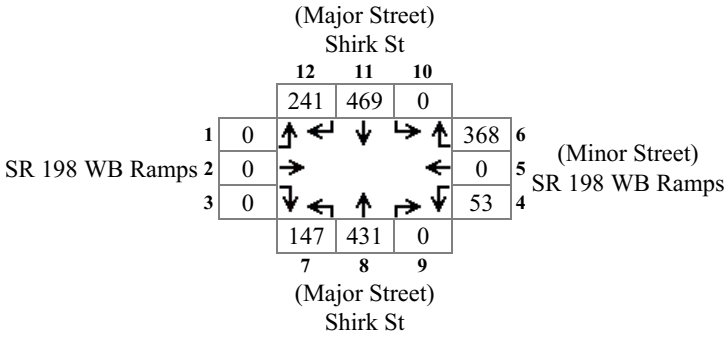


Major Total: 1052
Minor High Volume: 386

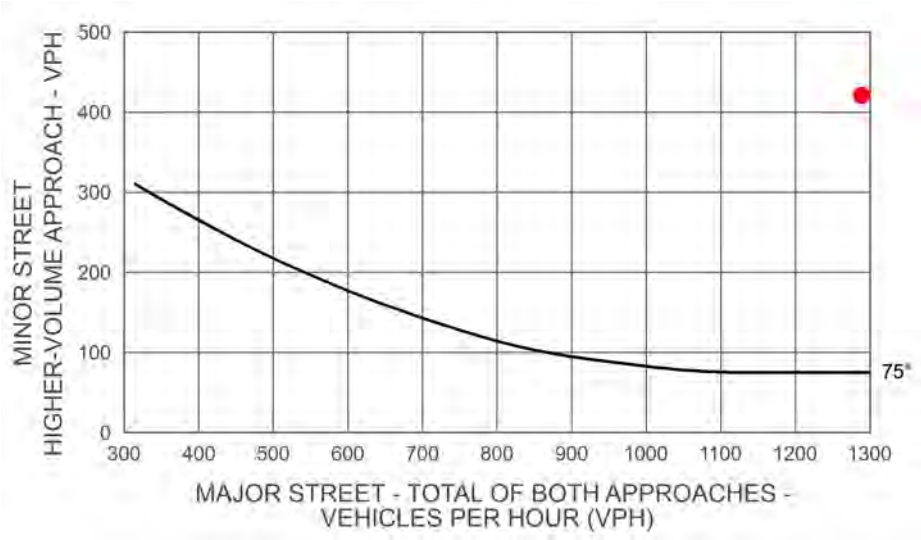


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future
Intersection #: 1

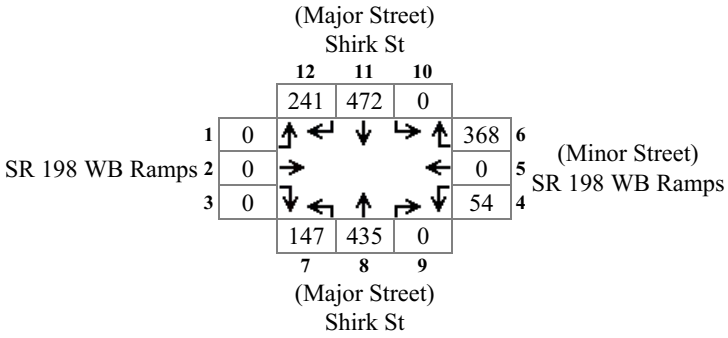


Major Total: 1288
Minor High Volume: 421

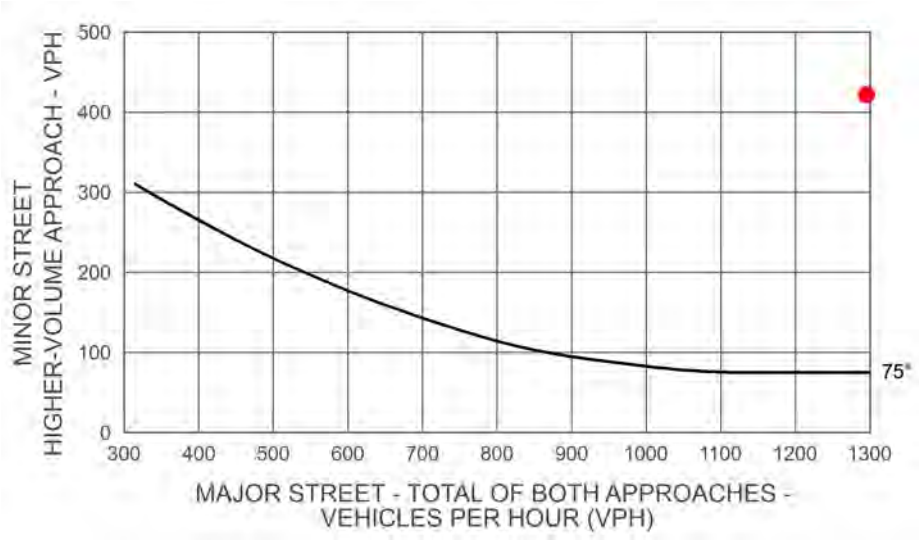


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future+Project
Intersection #: 1

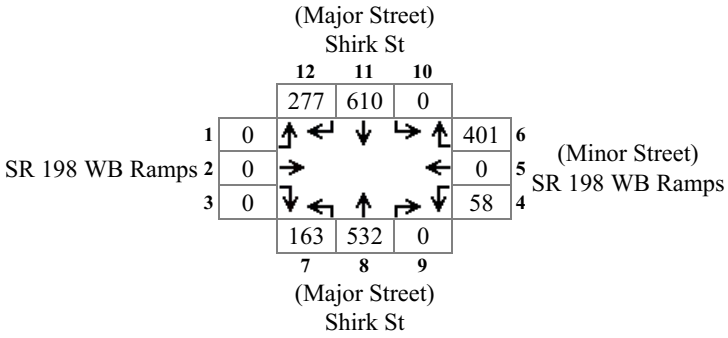


Major Total: 1295
Minor High Volume: 422

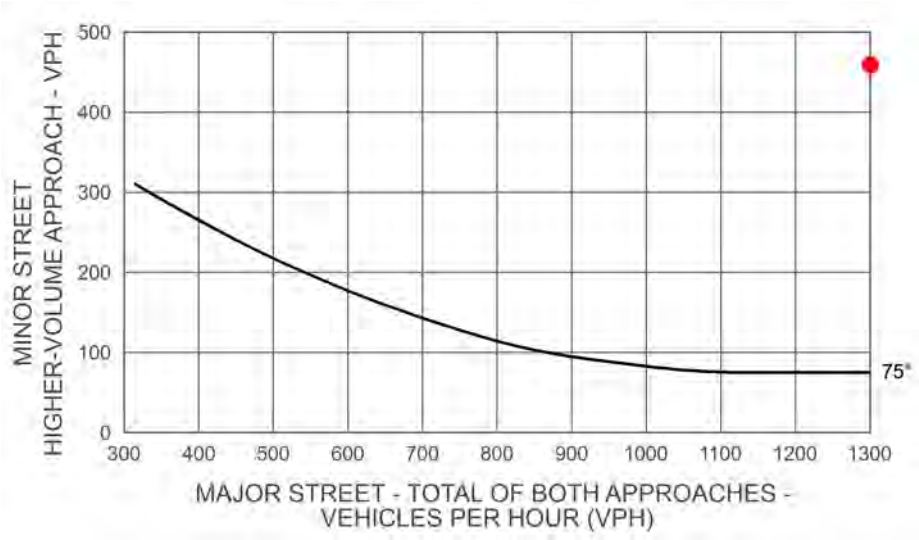


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future
Intersection #: 1

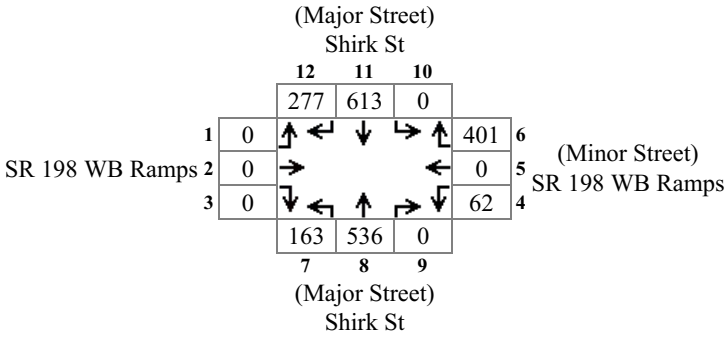


Major Total: 1582
Minor High Volume: 459

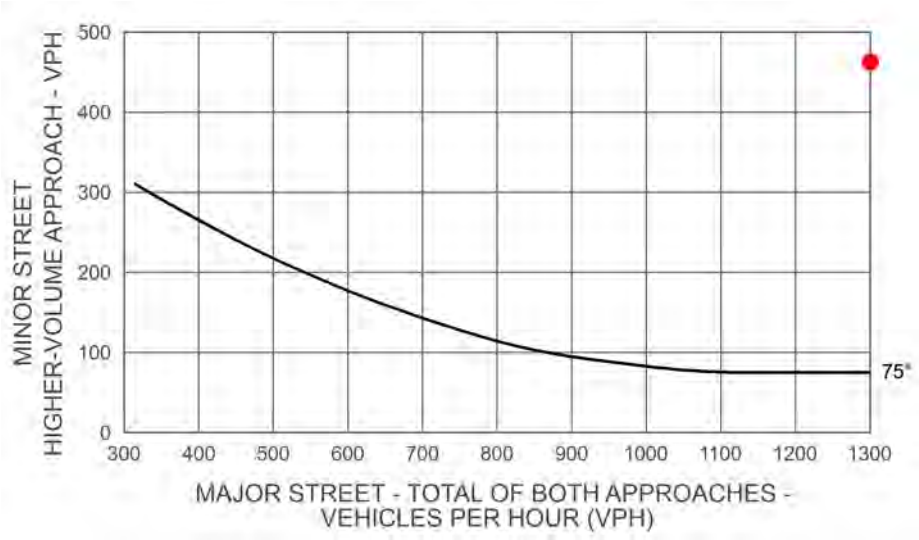


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future+Project (Future)
Intersection #: 1



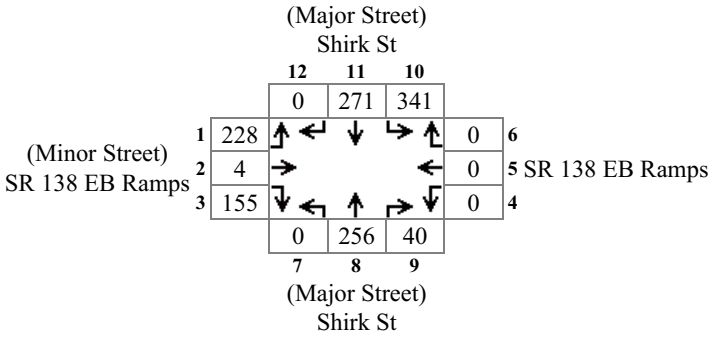
Major Total: 1589
Minor High Volume: 463



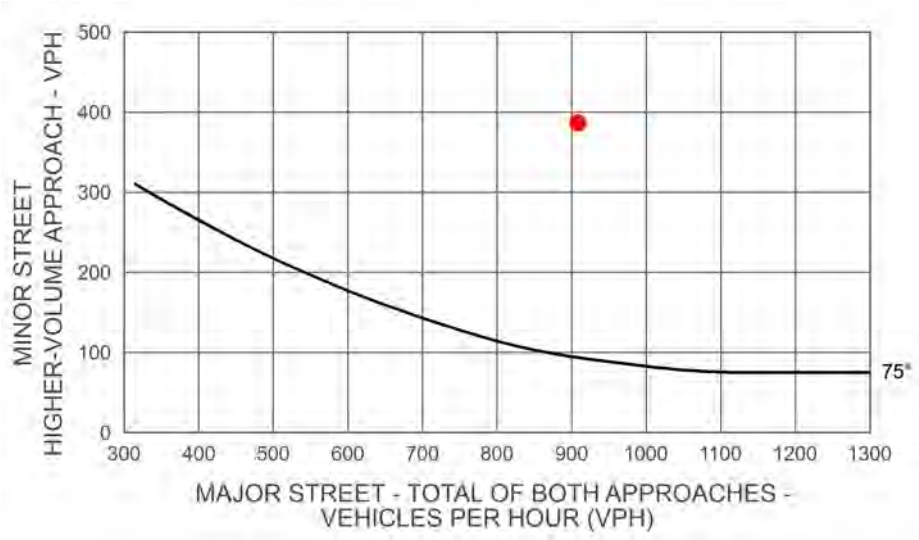
Intersection 2
Shirk St & SR 138 EB Ramps

Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Existing
Intersection #: 2

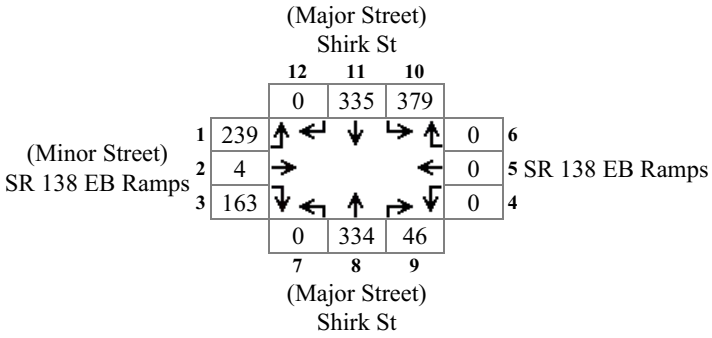


Major Total: 908
Minor High Volume: 387

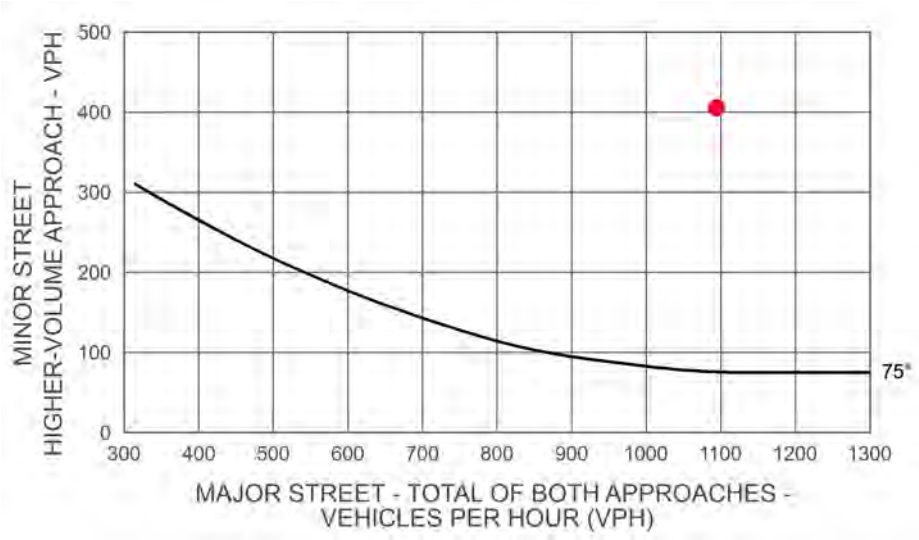


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future
Intersection #: 2

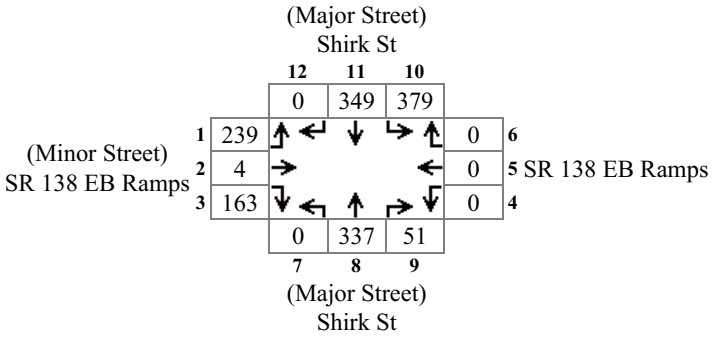


Major Total: 1094
Minor High Volume: 406

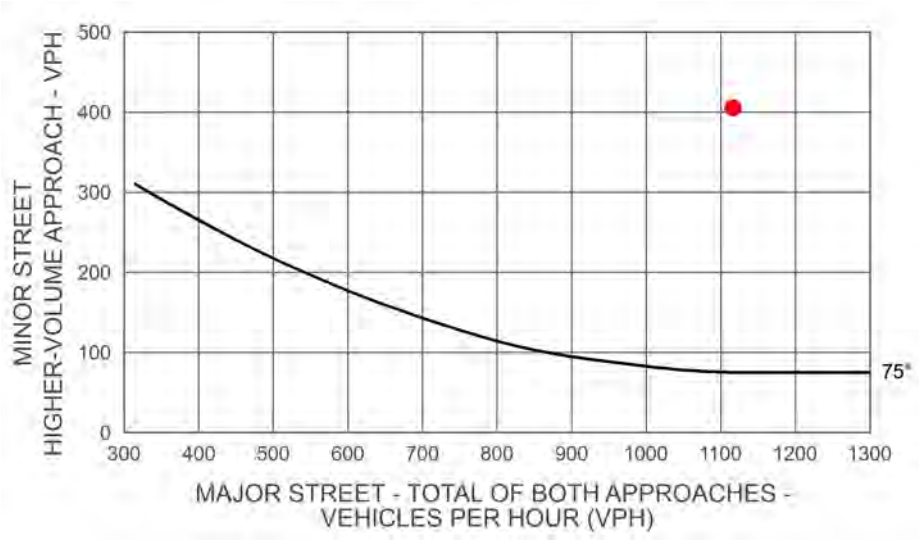


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future+Project
Intersection #: 2

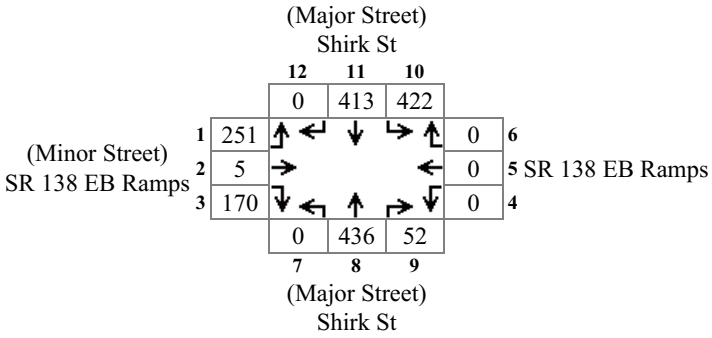


Major Total: 1116
Minor High Volume: 406

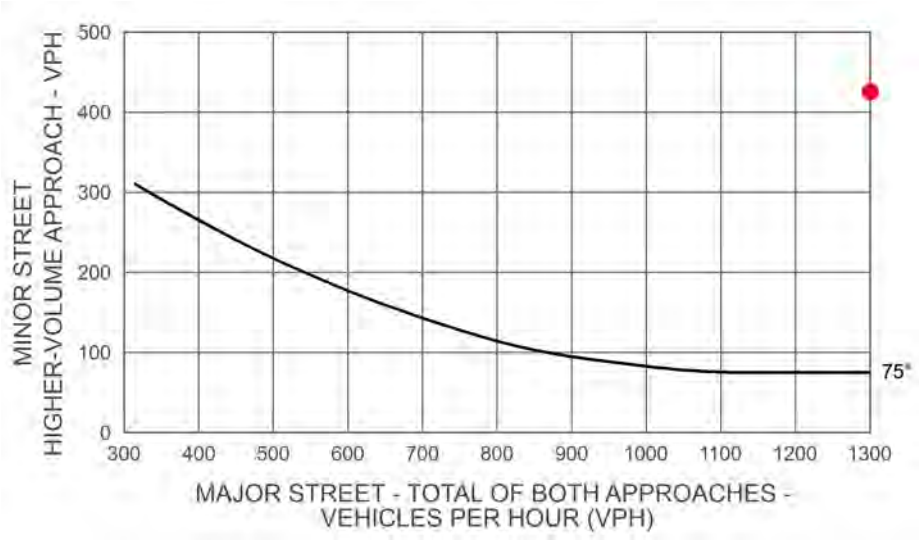


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future
Intersection #: 2

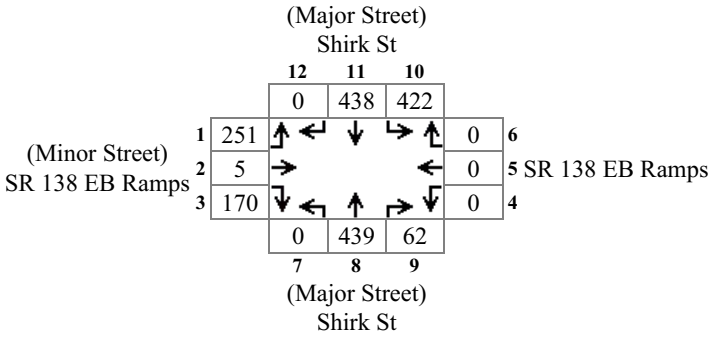


Major Total: 1323
Minor High Volume: 426

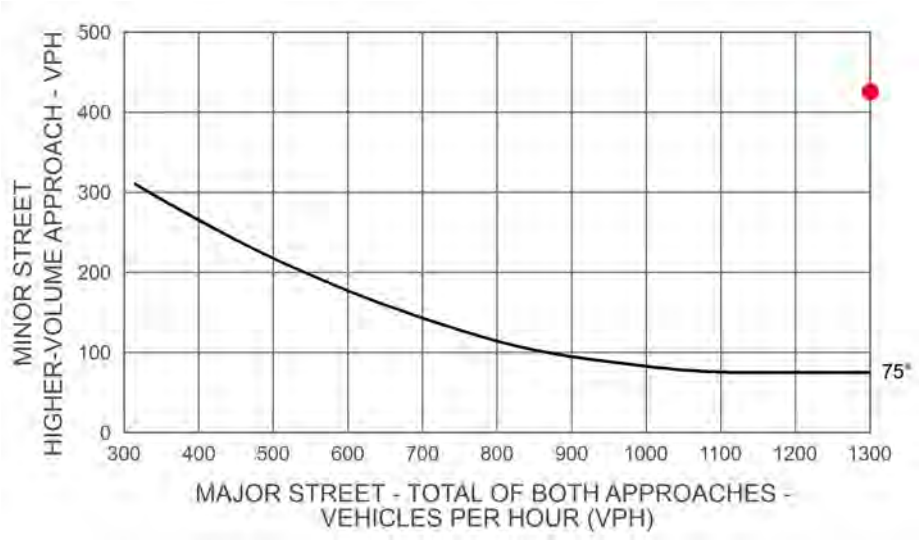


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future+Project (Future)
Intersection #: 2

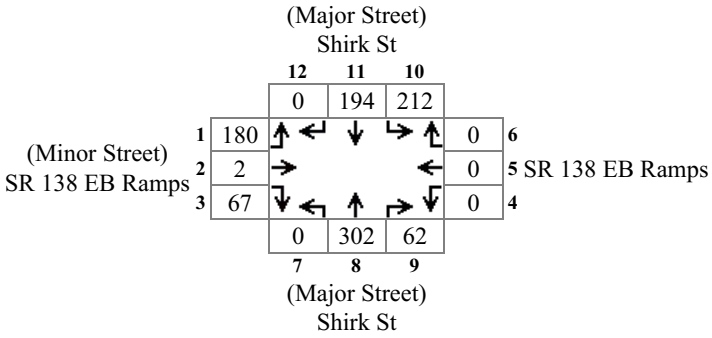


Major Total: 1361
Minor High Volume: 426

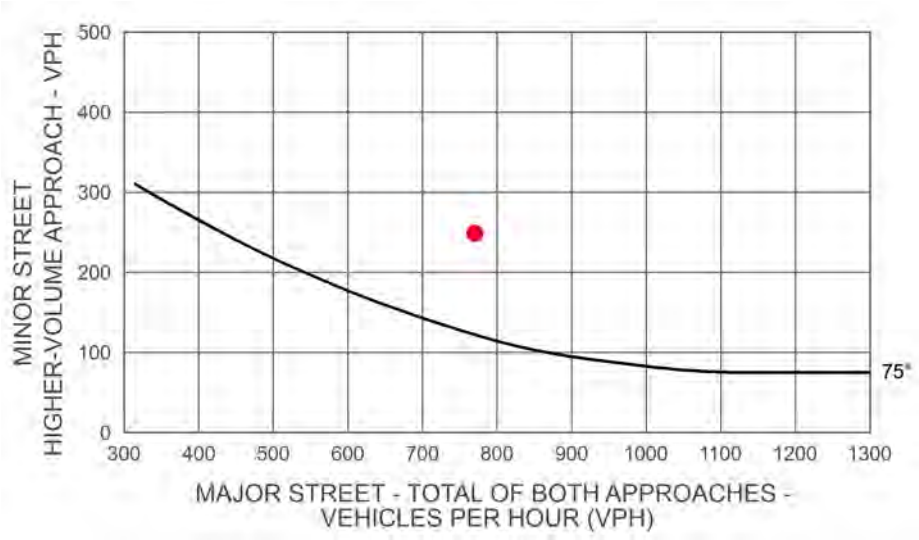


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Existing
Intersection #: 2

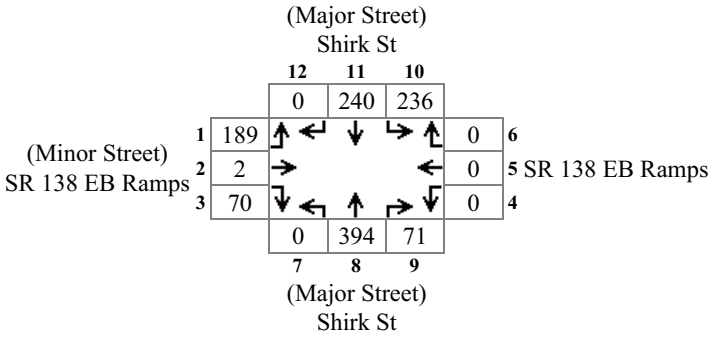


Major Total: 770
Minor High Volume: 249

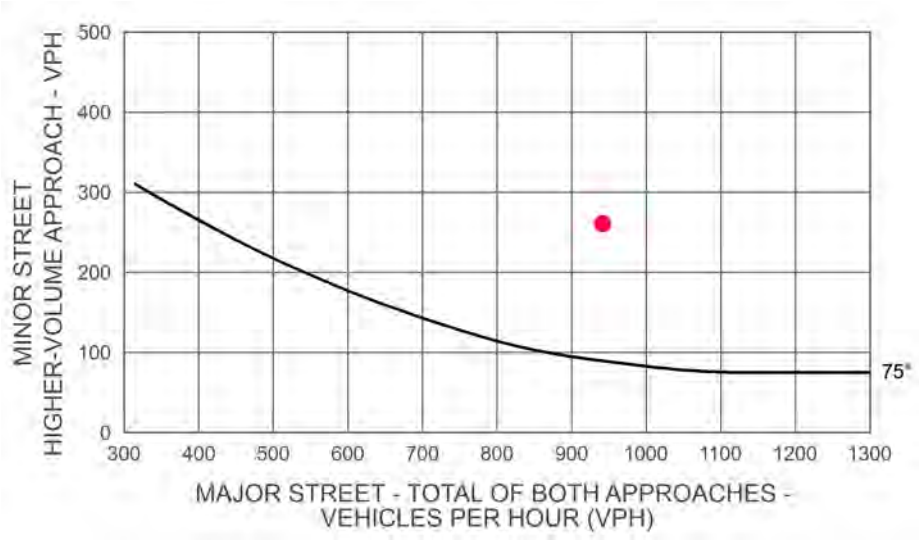


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future
Intersection #: 2

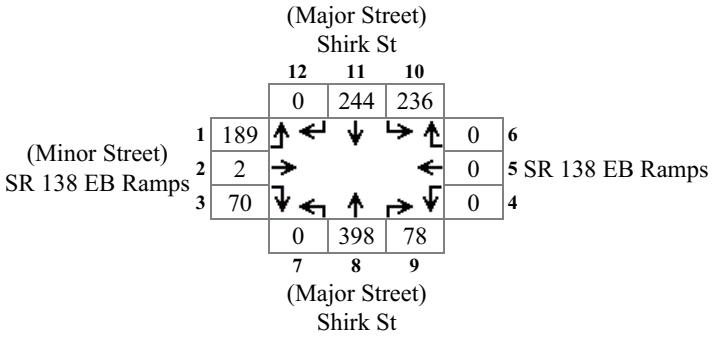


Major Total: 941
Minor High Volume: 261

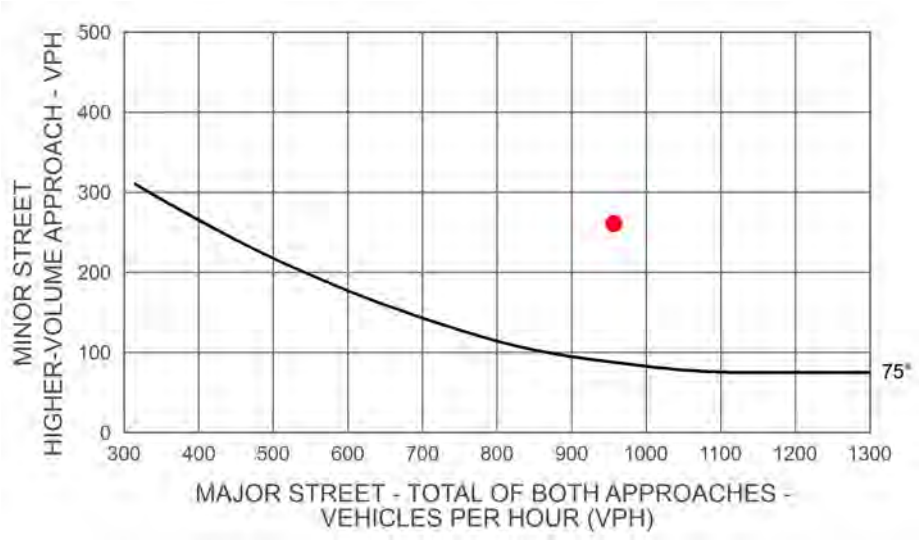


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future+Project
Intersection #: 2

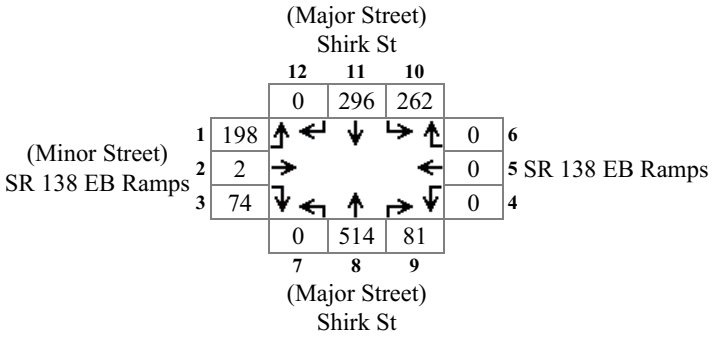


Major Total: 956
Minor High Volume: 261

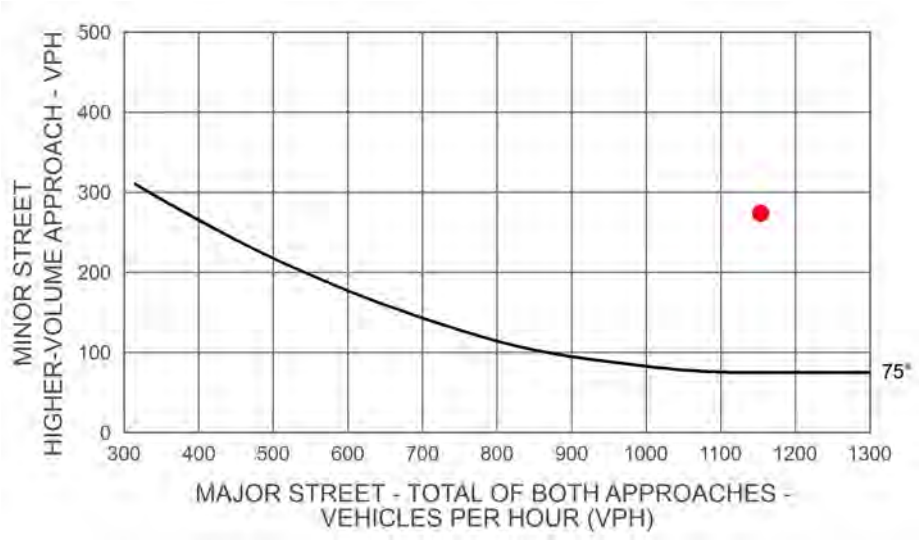


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future
Intersection #: 2

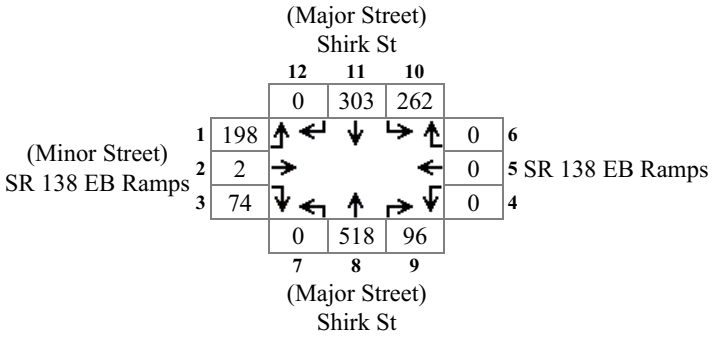


Major Total: 1153
Minor High Volume: 274

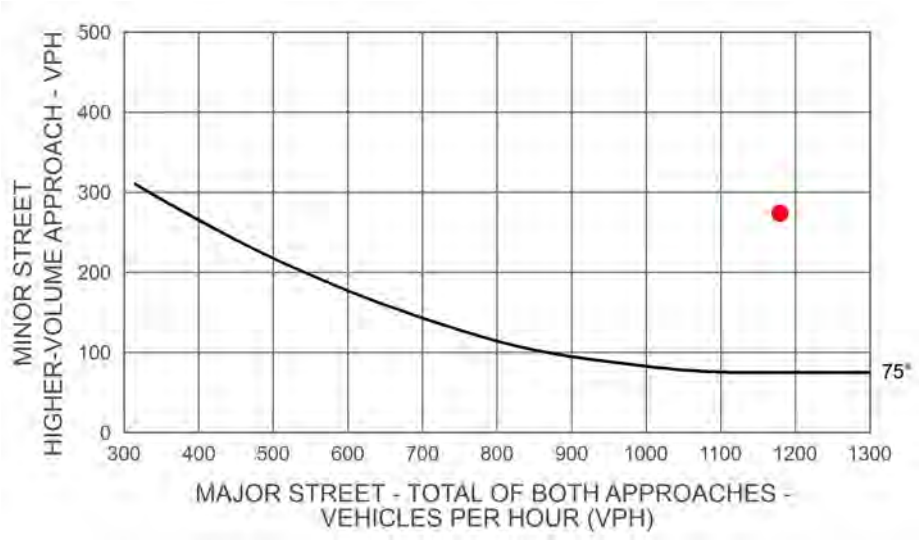


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future+Project (Future)
Intersection #: 2



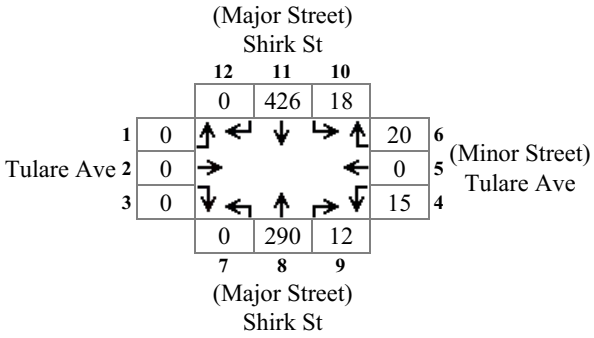
Major Total: 1179
Minor High Volume: 274



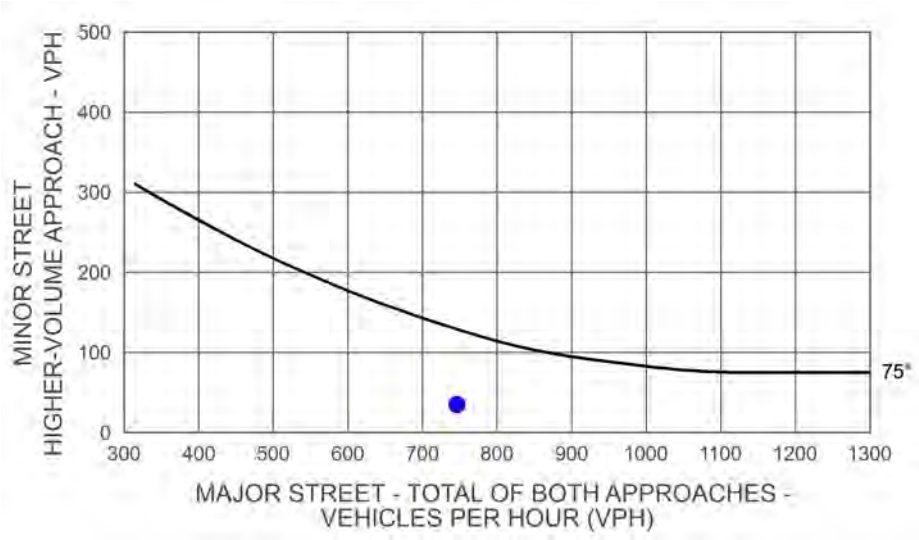
Intersection 3
Shirk St & Tulare Ave

Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future
Intersection #: 3

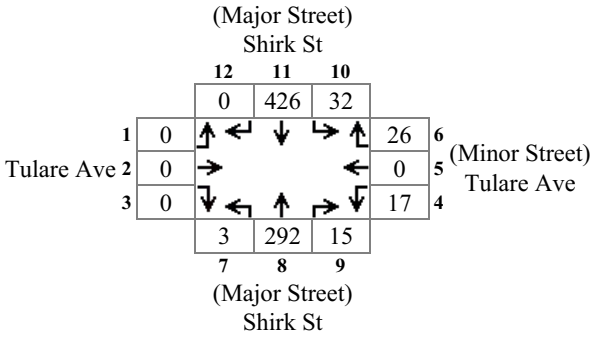


Major Total: 746
Minor High Volume: 35

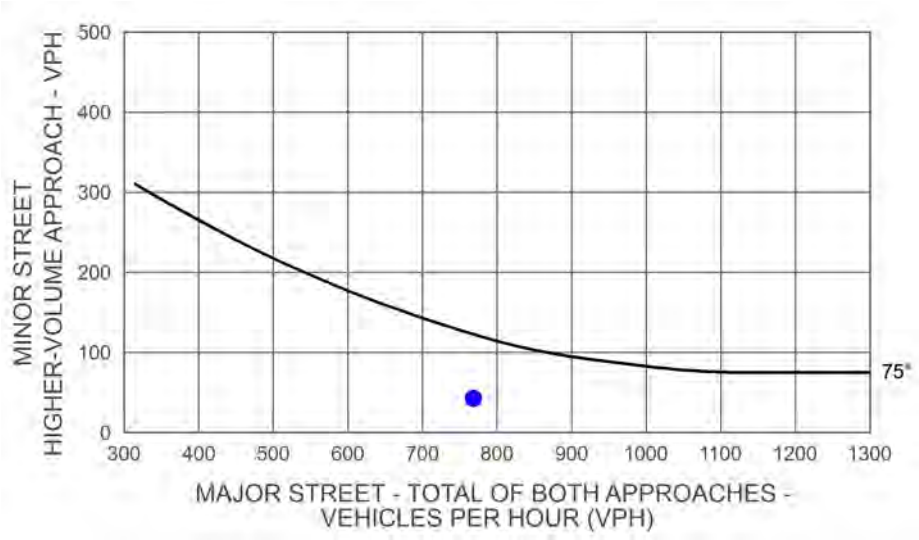


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future+Project
Intersection #: 3

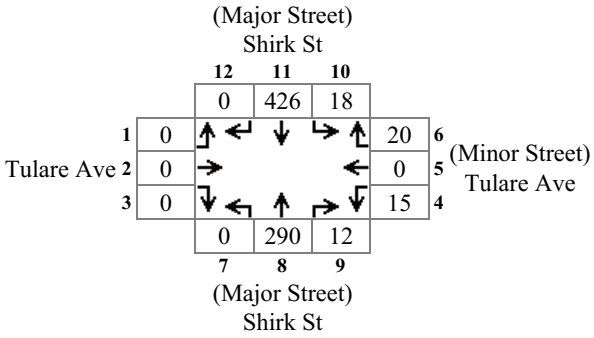


Major Total: 768
Minor High Volume: 43

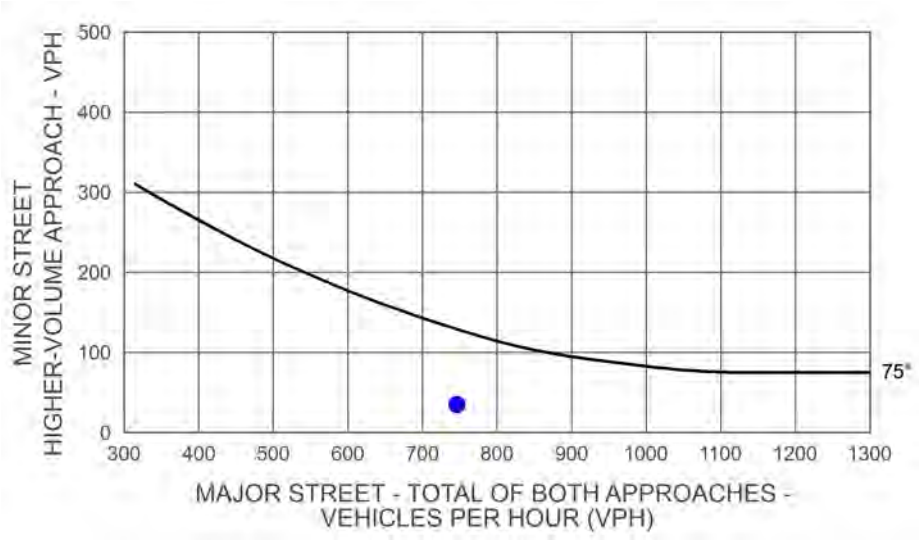


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future
Intersection #: 3

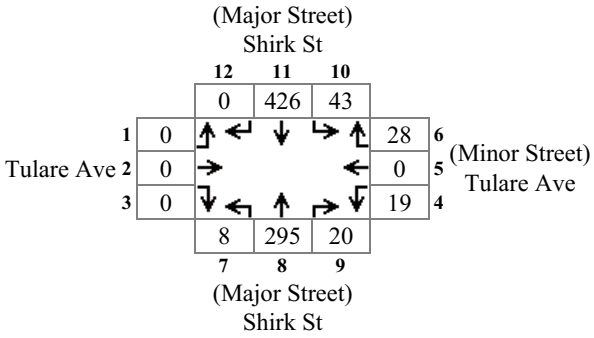


Major Total: 746
Minor High Volume: 35

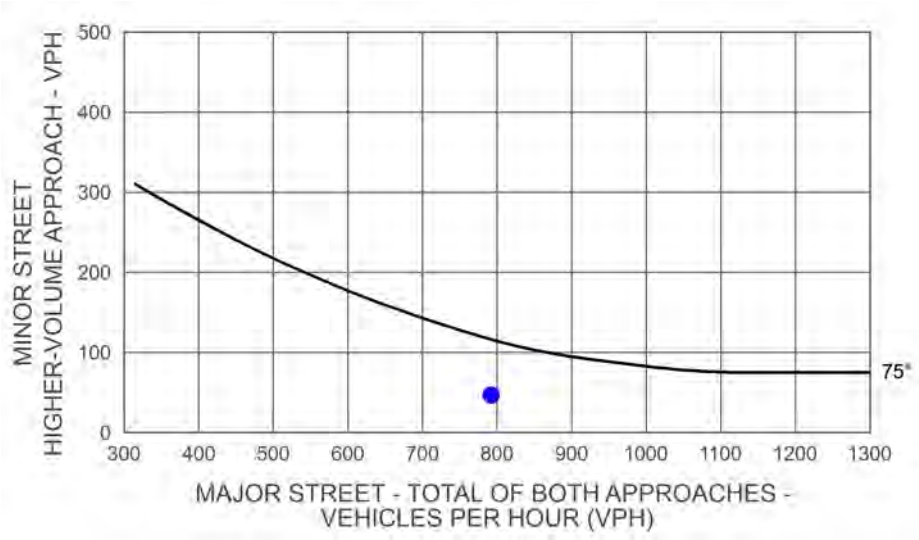


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future+Project (Future)
Intersection #: 3

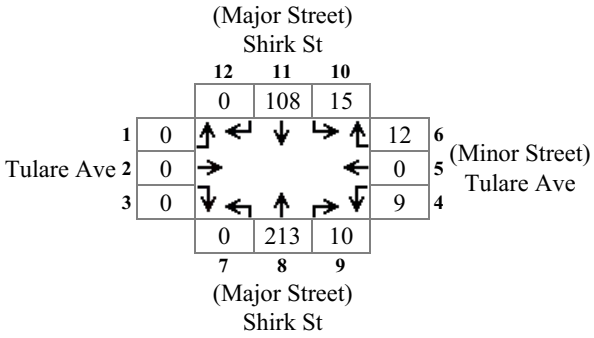


Major Total: 792
Minor High Volume: 47

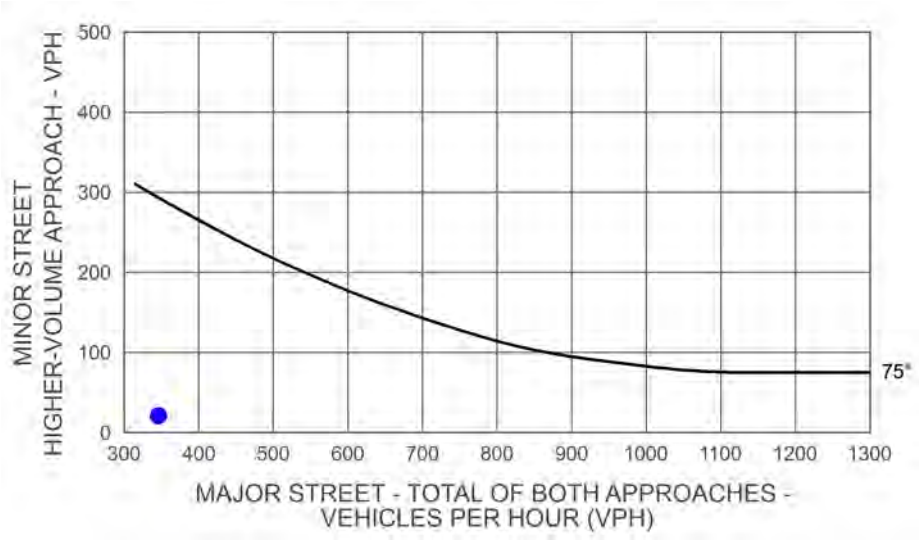


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future
Intersection #: 3

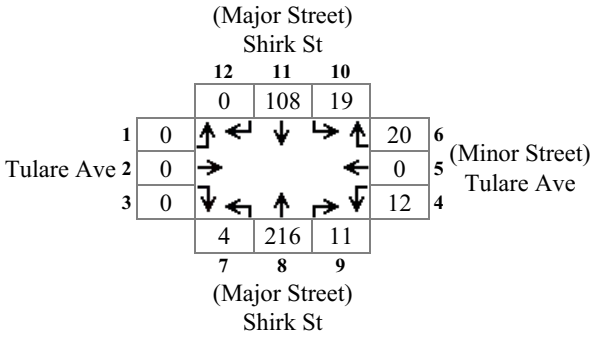


Major Total: 346
Minor High Volume: 21

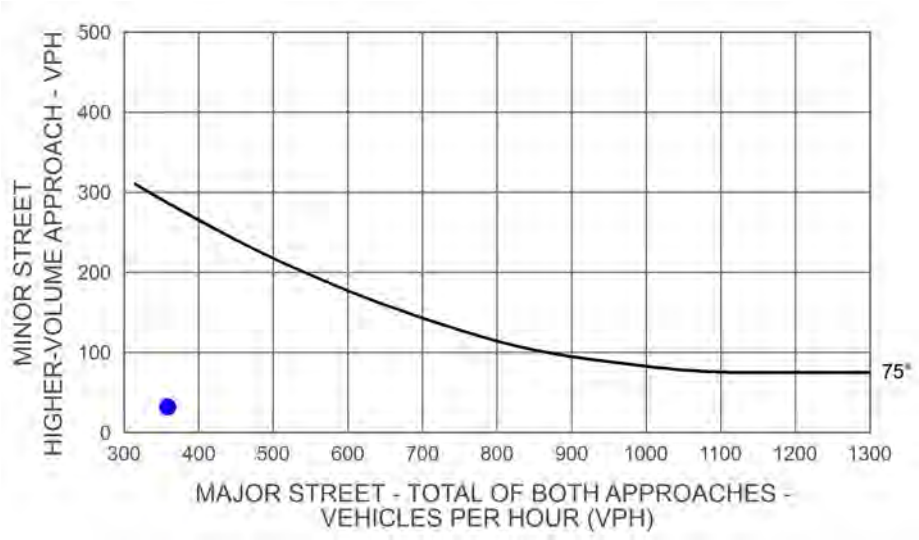


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future+Project
Intersection #: 3

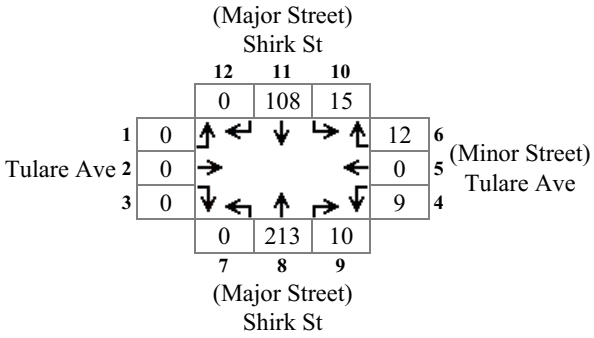


Major Total: 358
Minor High Volume: 32

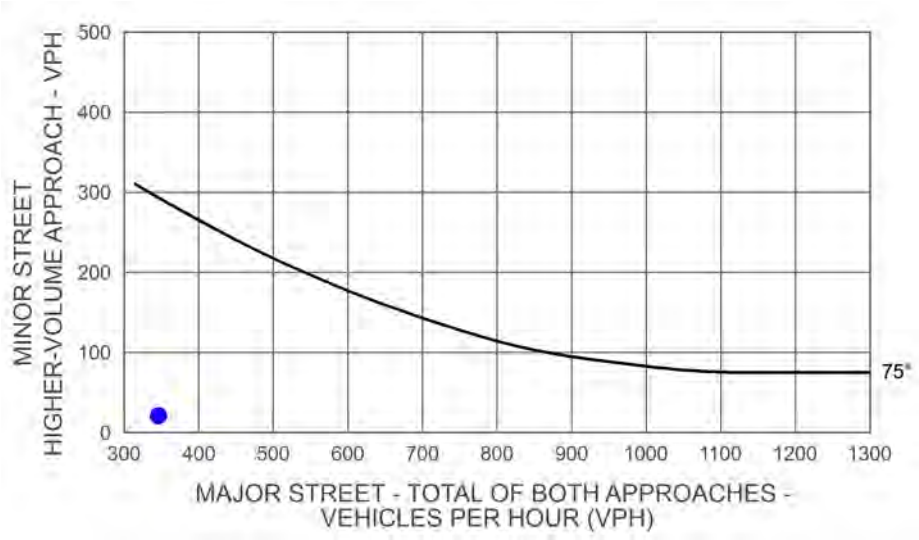


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future
Intersection #: 3

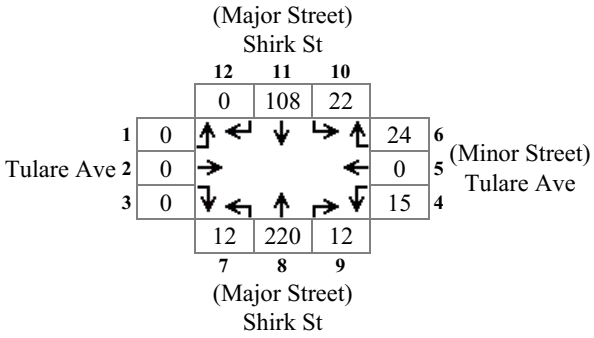


Major Total: 346
Minor High Volume: 21

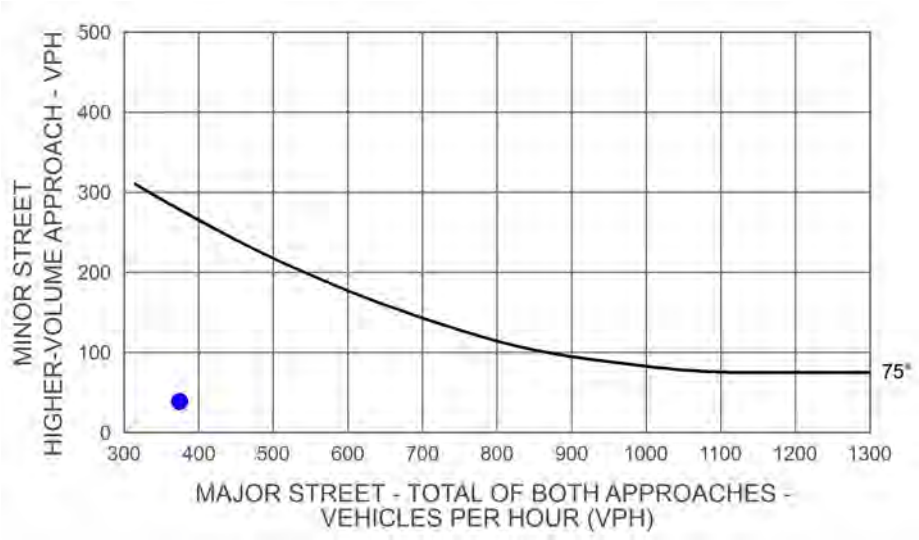


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future+Project (Future)
Intersection #: 3



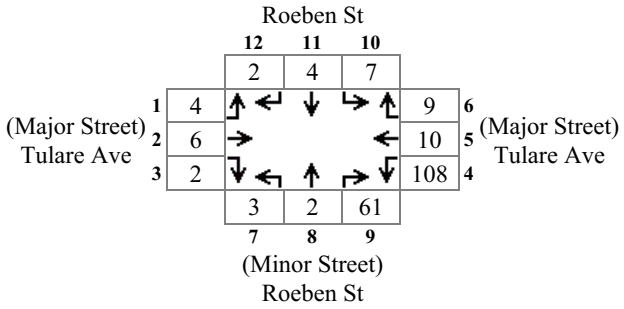
Major Total: 374
Minor High Volume: 39



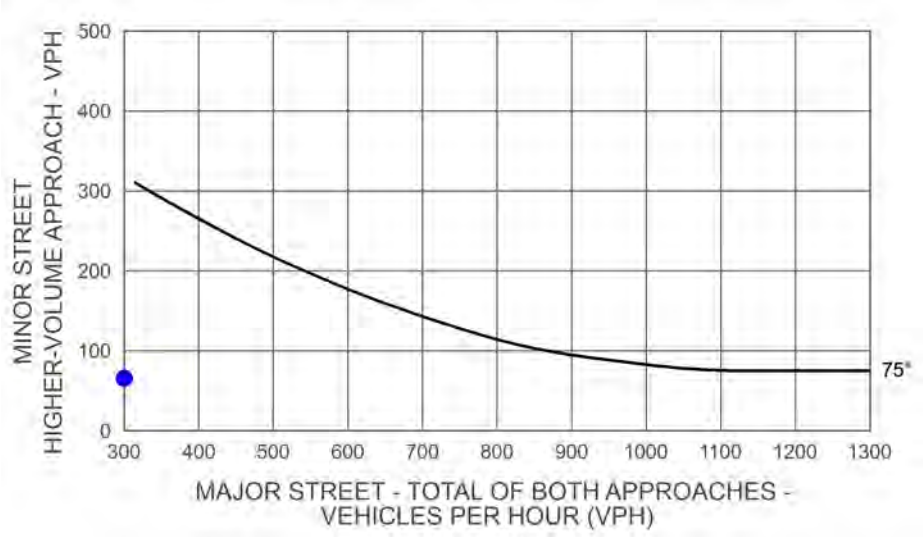
Intersection 4
Roeben St & Tulare Ave

Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Existing
Intersection #: 4

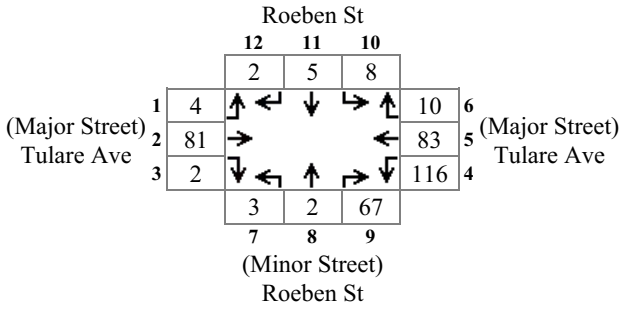


Major Total: 139
Minor High Volume: 66

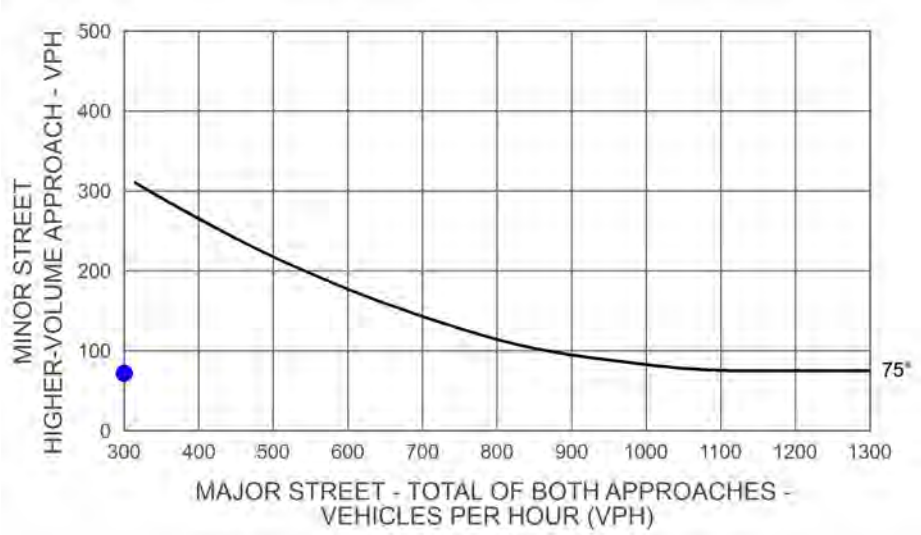


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future
Intersection #: 4

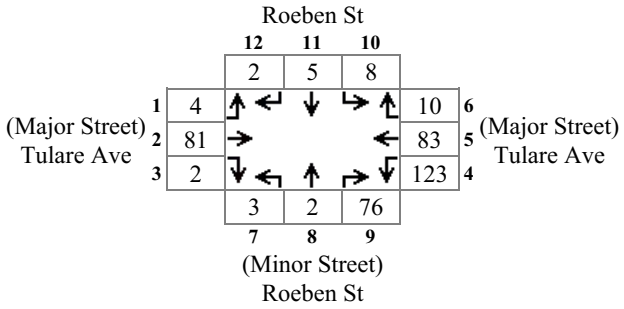


Major Total: 296
Minor High Volume: 72

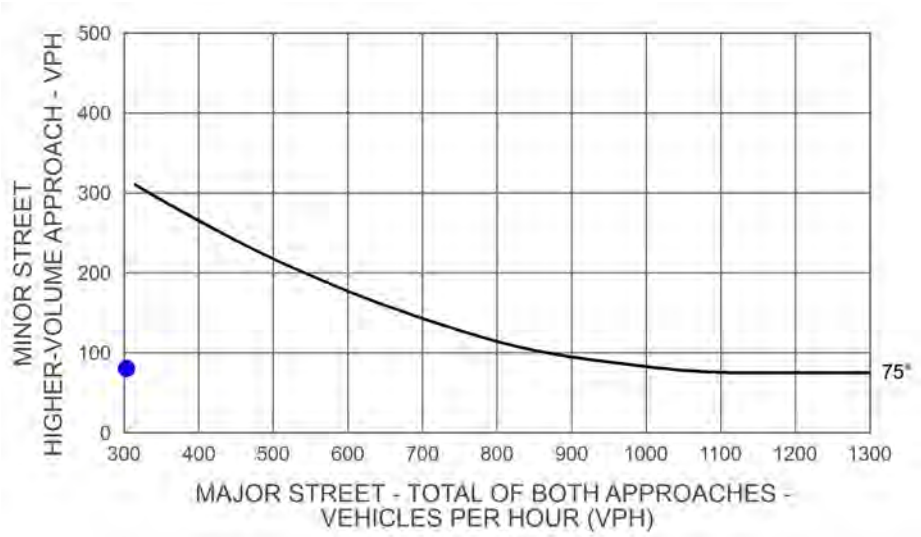


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future+Project
Intersection #: 4

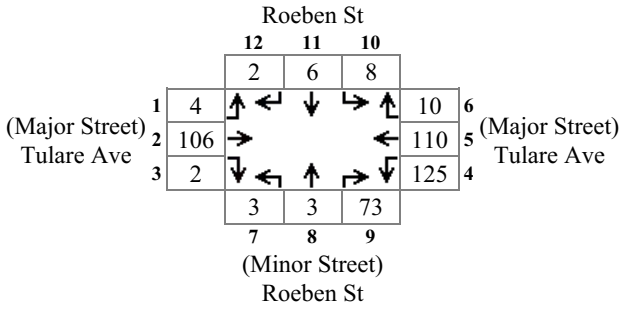


Major Total: 303
Minor High Volume: 81

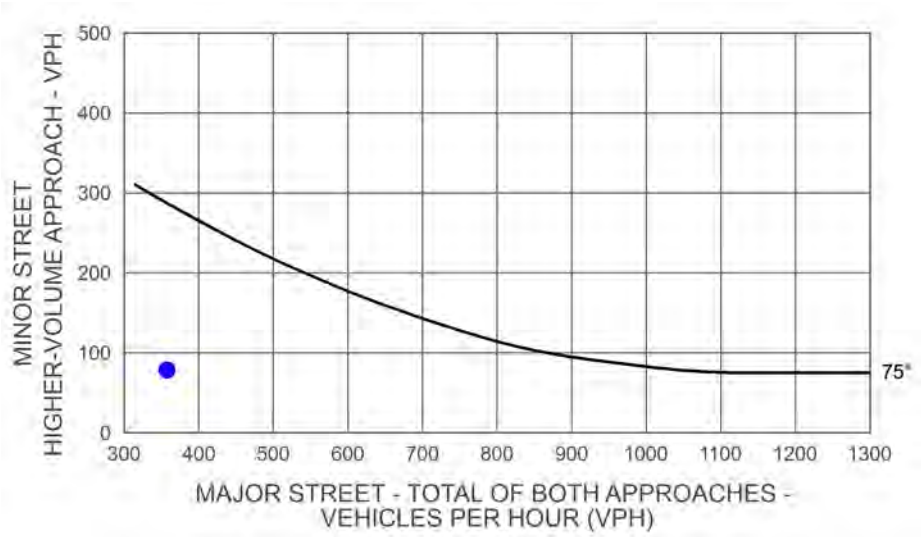


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future
Intersection #: 4

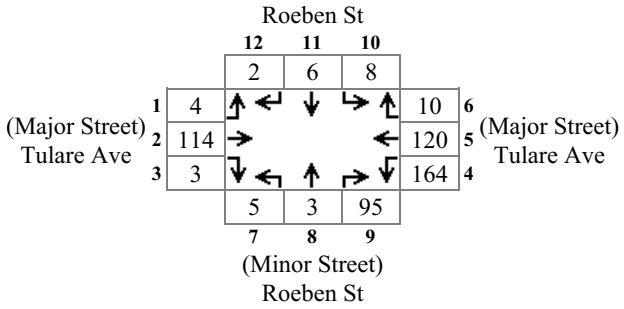


Major Total: 357
Minor High Volume: 79

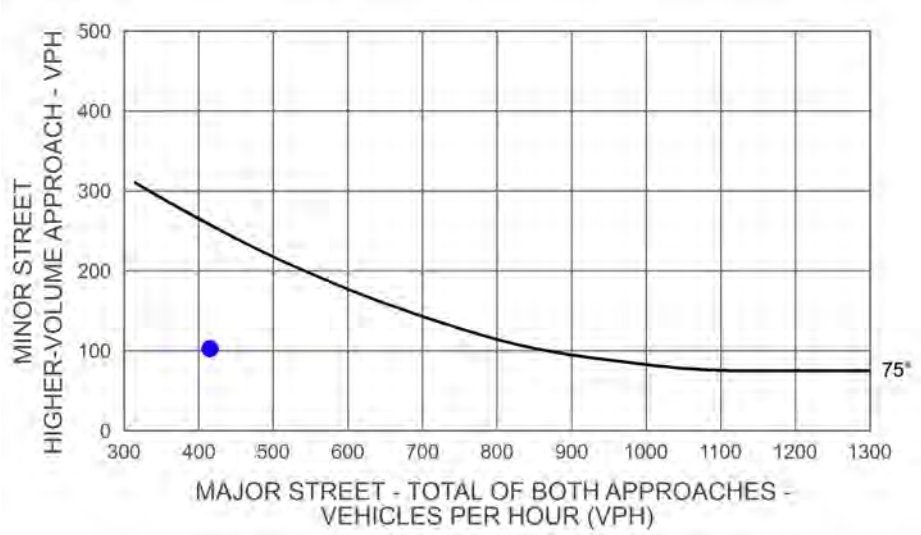


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future+Project (Future)
Intersection #: 4

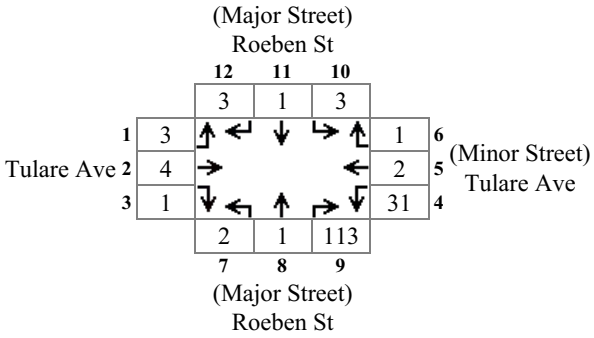


Major Total: 415
Minor High Volume: 103

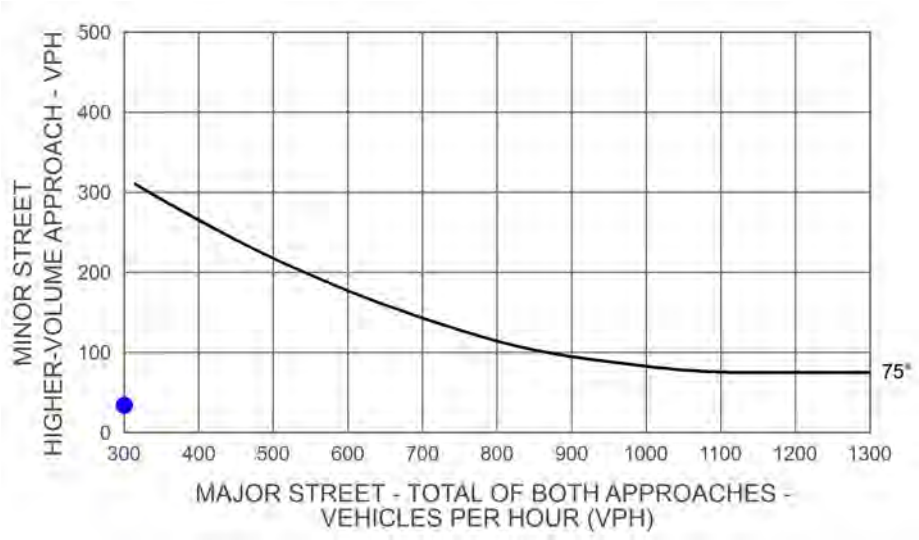


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Existing
Intersection #: 4

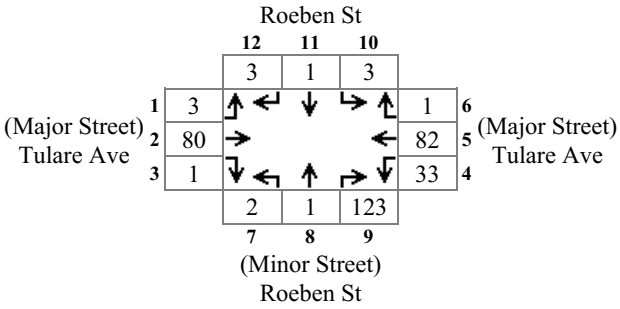


Major Total: 123
Minor High Volume: 34

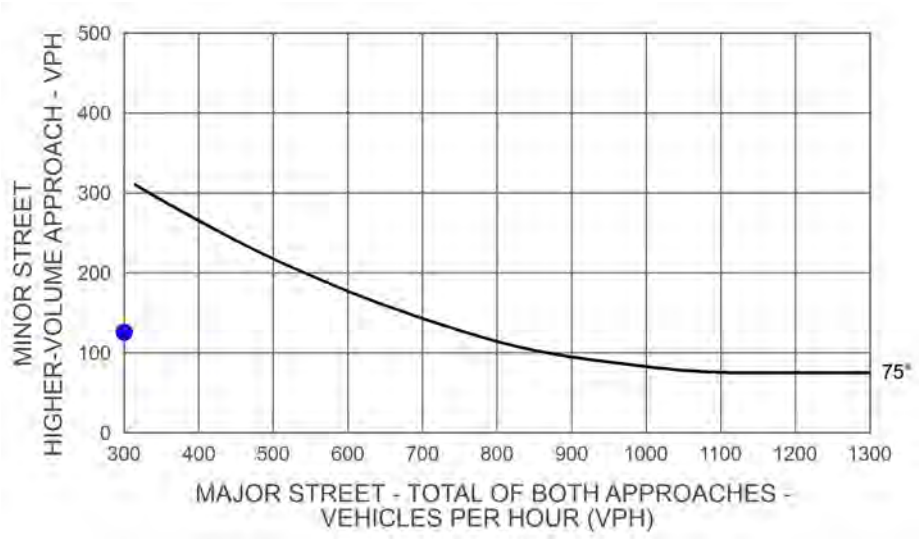


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future
Intersection #: 4

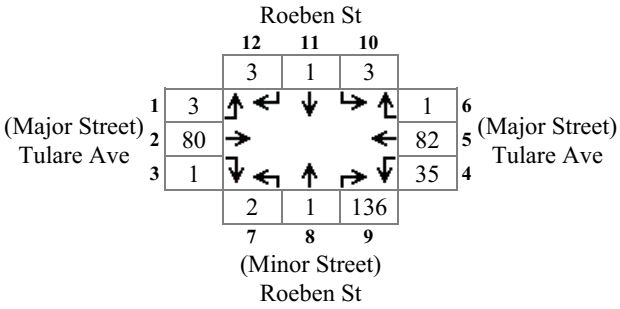


Major Total: 200
Minor High Volume: 126

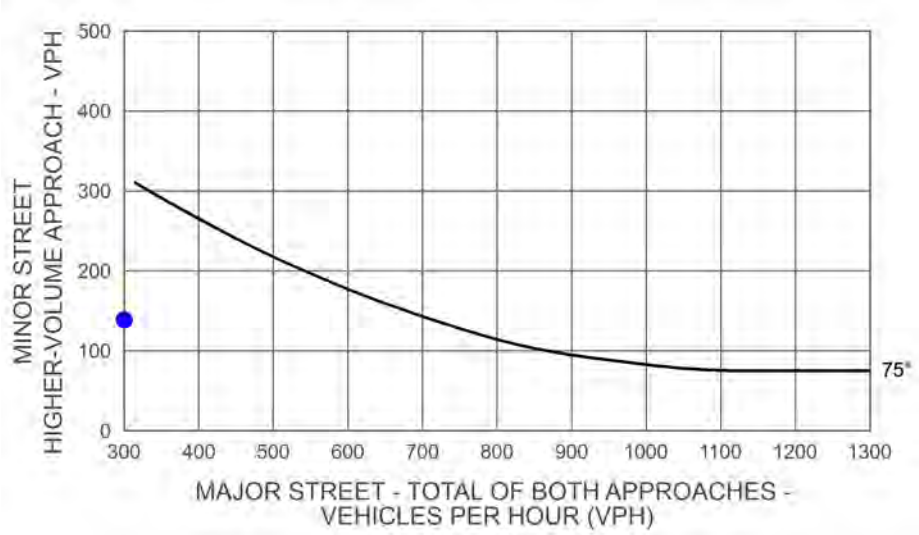


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future+Project
Intersection #: 4

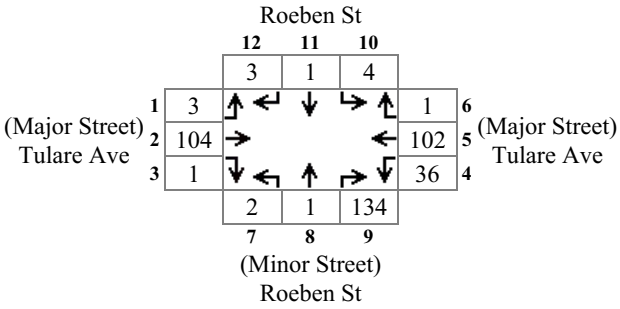


Major Total: 202
Minor High Volume: 139

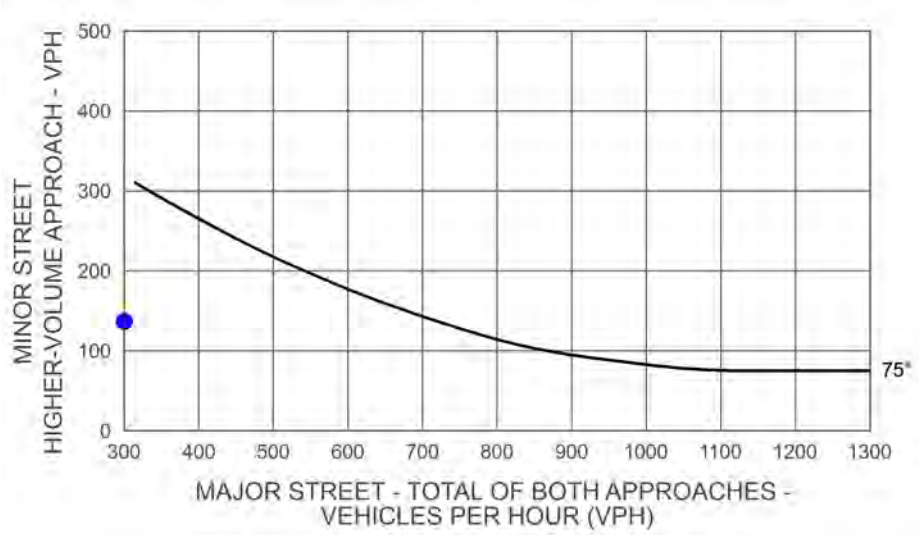


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future
Intersection #: 4

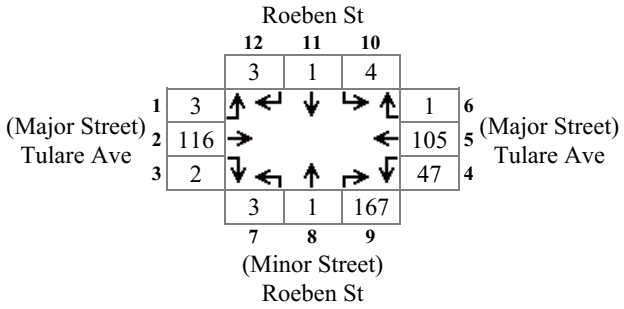


Major Total: 247
Minor High Volume: 137

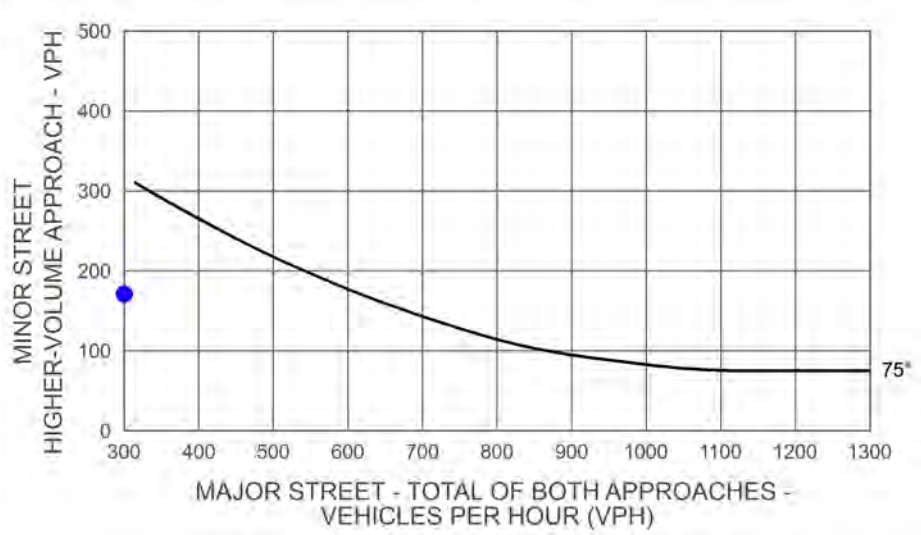


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future+Project (Future)
Intersection #: 4



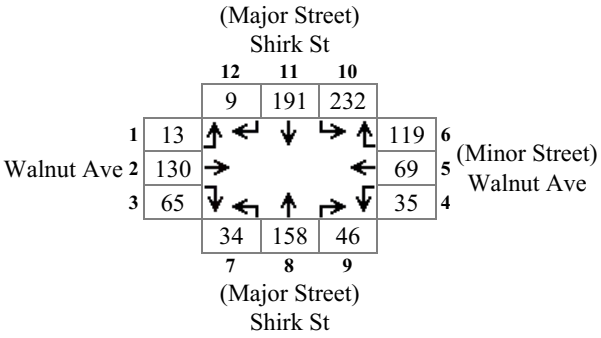
Major Total: 274
Minor High Volume: 171



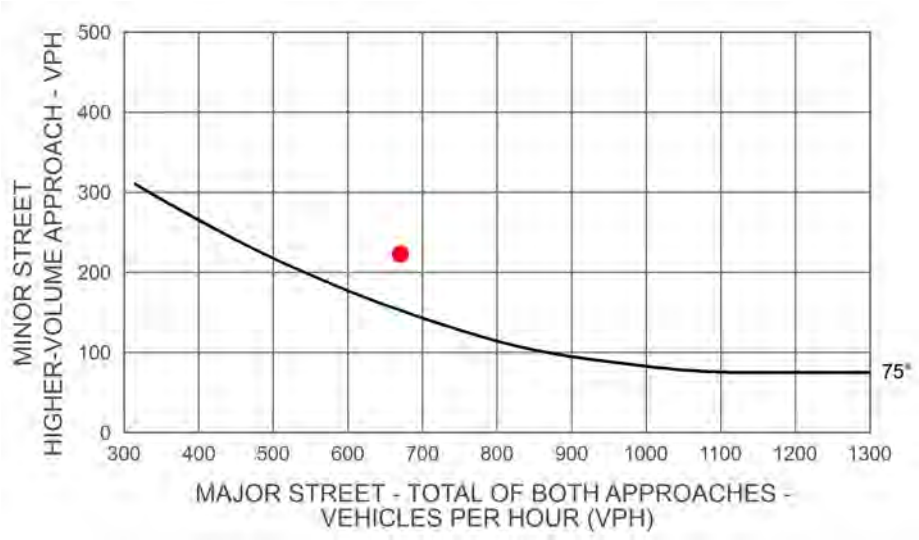
Intersection 5
Shirk St & Walnut Ave

Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Existing
Intersection #: 5

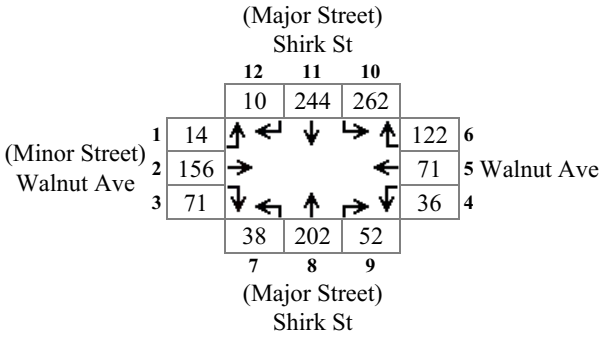


Major Total: 670
Minor High Volume: 223

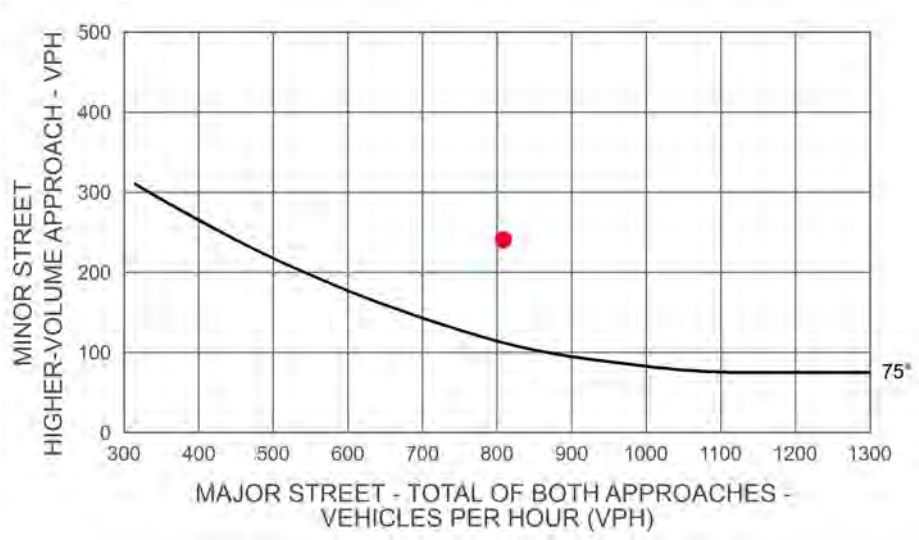


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future
Intersection #: 5

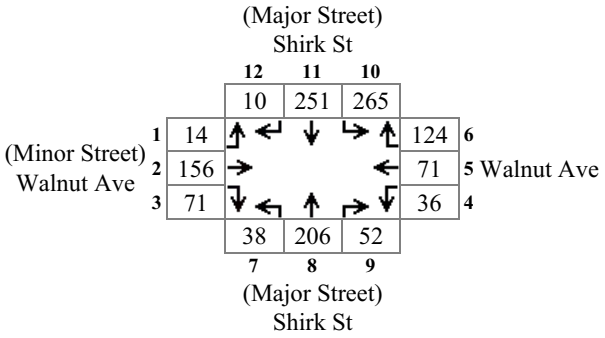


Major Total: 808
Minor High Volume: 241

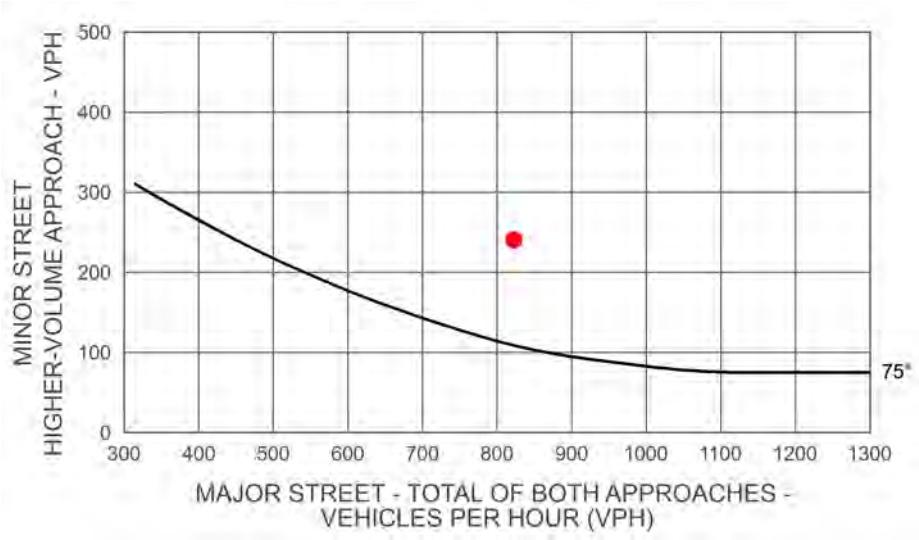


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future+Project
Intersection #: 5

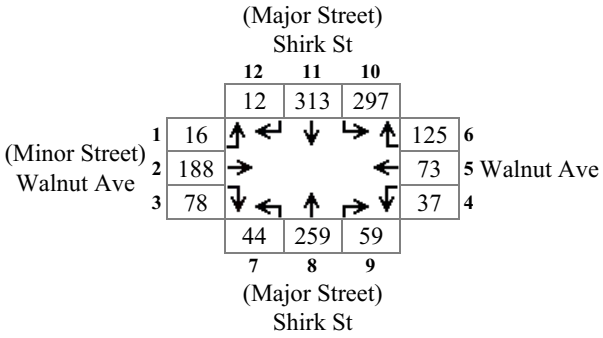


Major Total: 822
Minor High Volume: 241

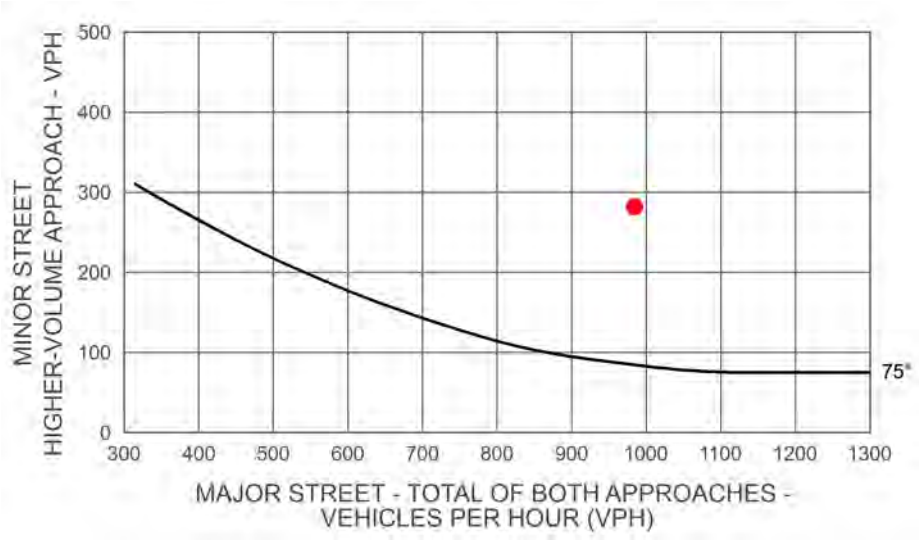


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future
Intersection #: 5

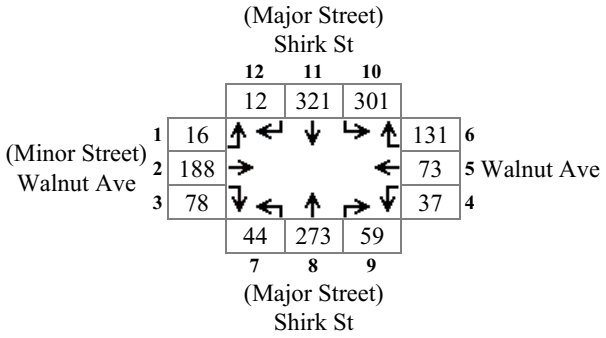


Major Total: 984
Minor High Volume: 282

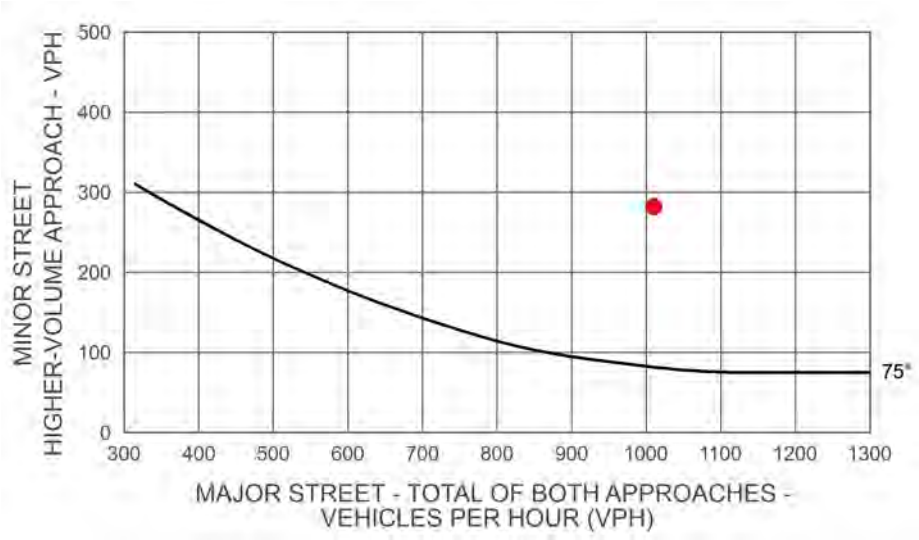


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future+Project (Future)
Intersection #: 5

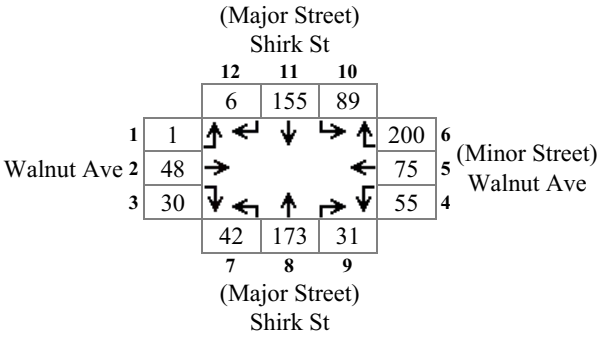


Major Total: 1010
Minor High Volume: 282

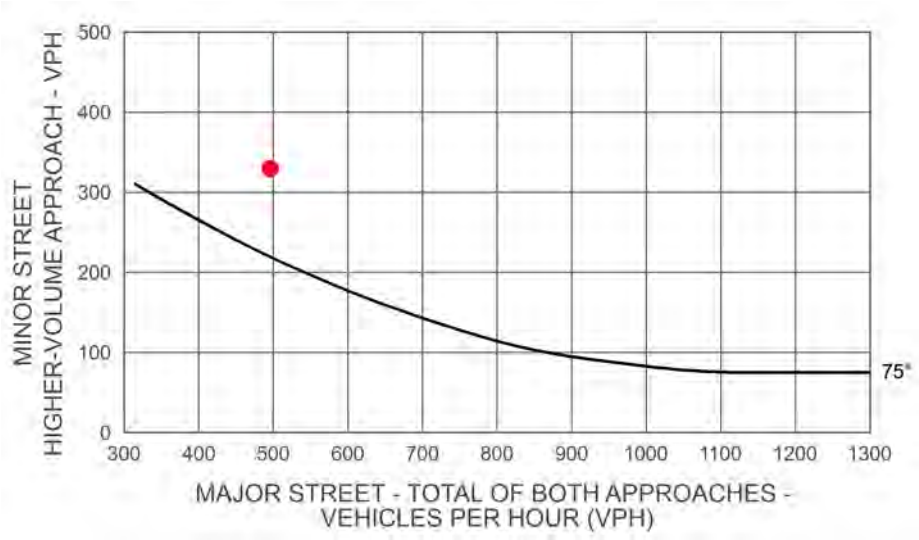


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Existing
Intersection #: 5

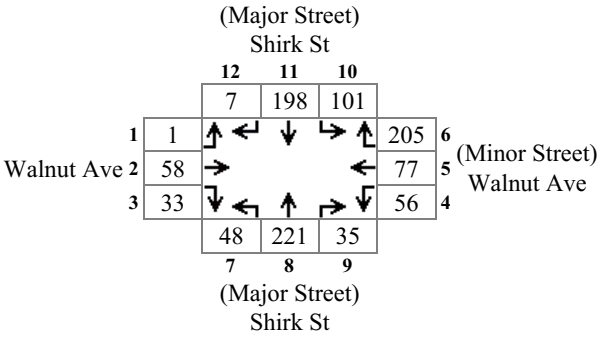


Major Total: 496
Minor High Volume: 330

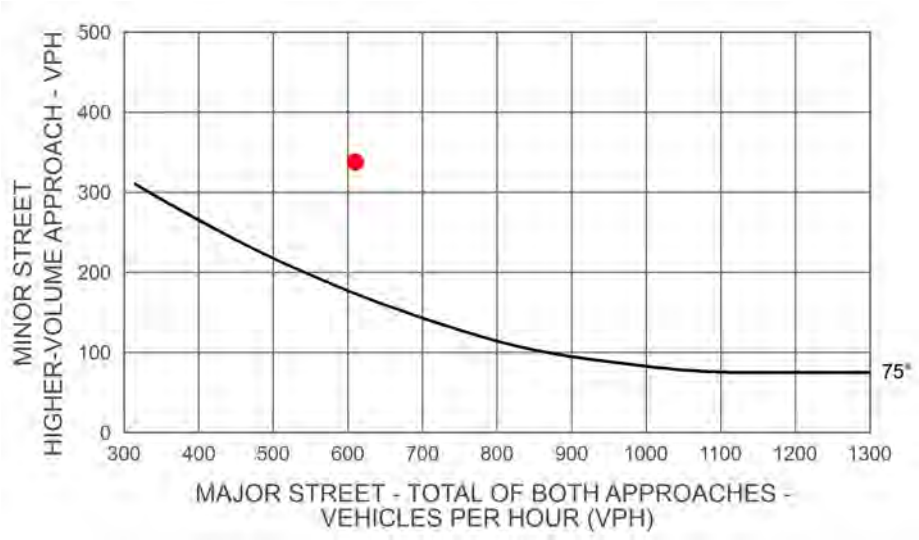


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future
Intersection #: 5

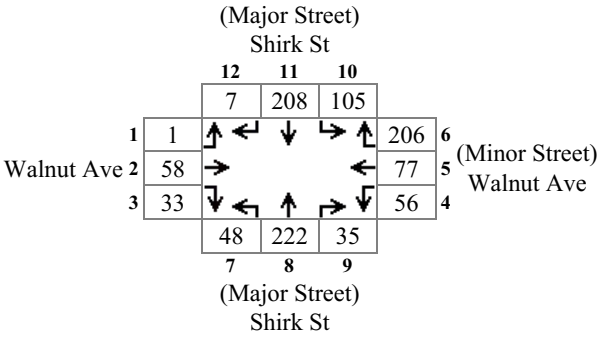


Major Total: 610
Minor High Volume: 338

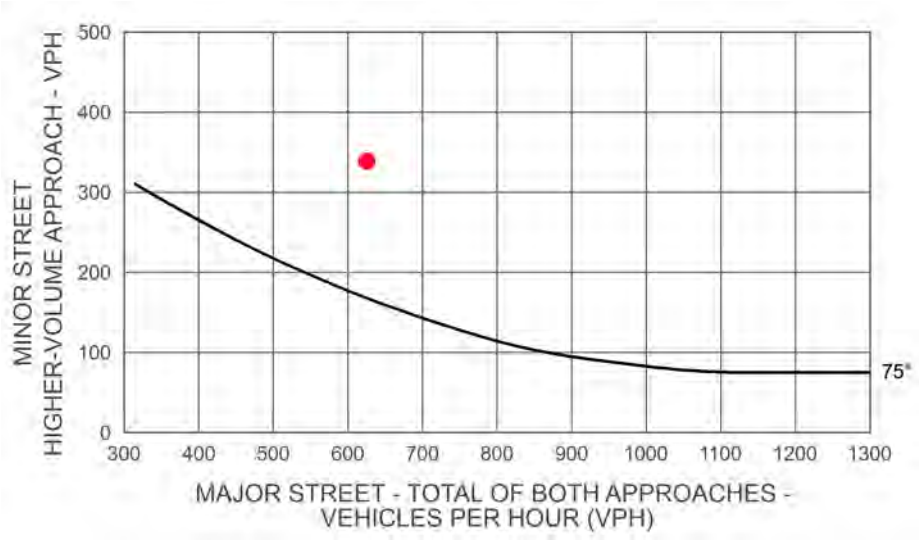


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future+Project
Intersection #: 5

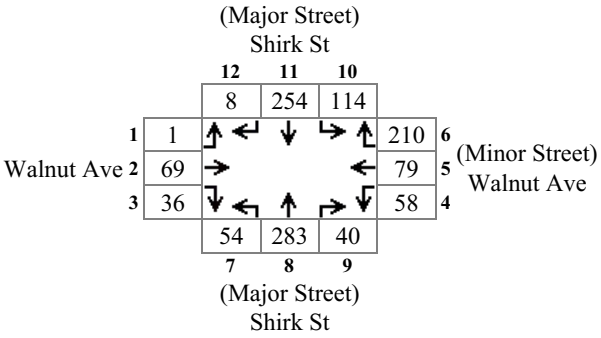


Major Total: 625
Minor High Volume: 339

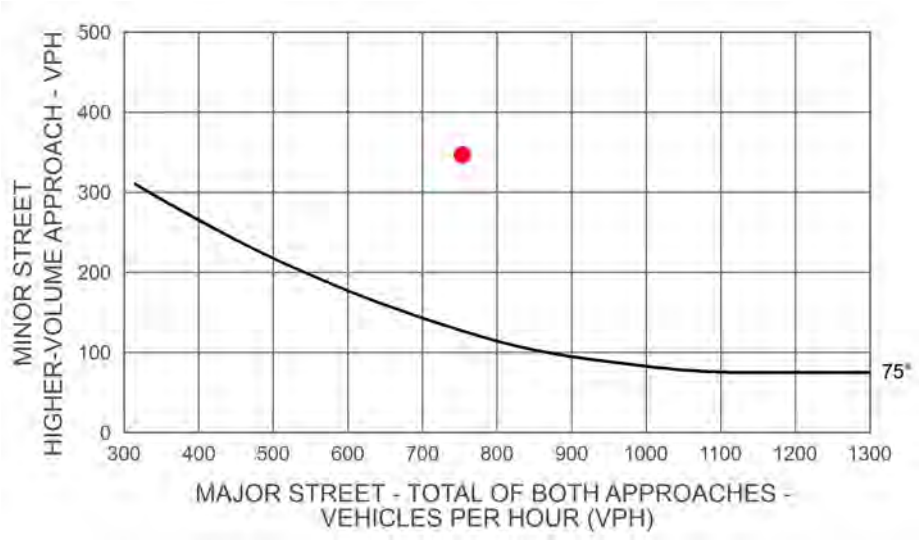


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future
Intersection #: 5

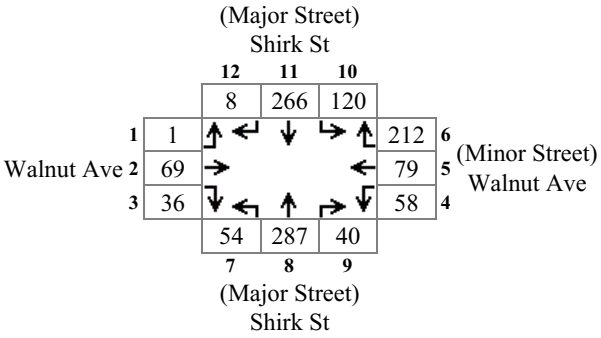


Major Total: 753
Minor High Volume: 347

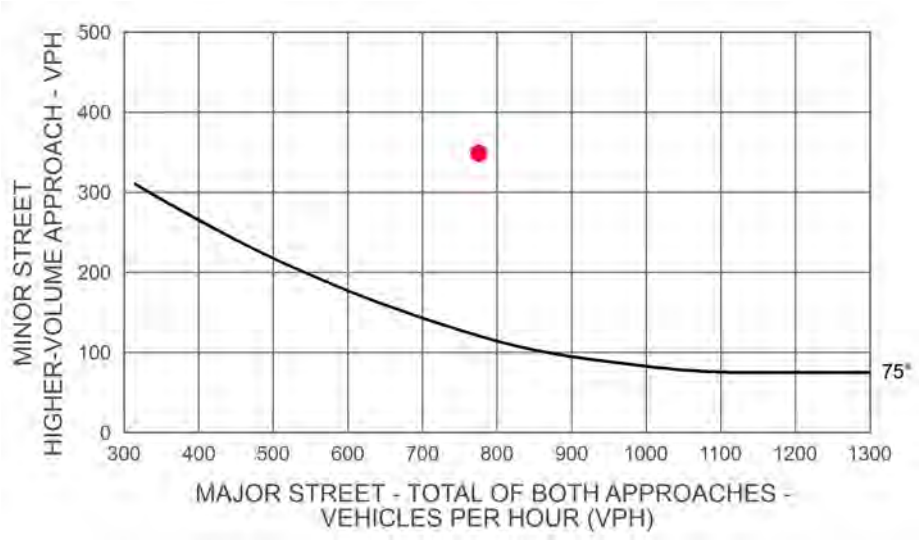


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future+Project (Future)
Intersection #: 5



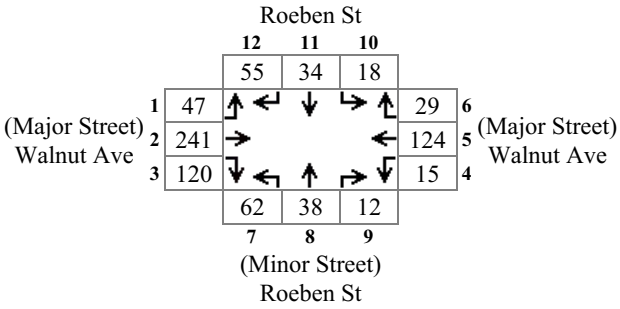
Major Total: 775
Minor High Volume: 349



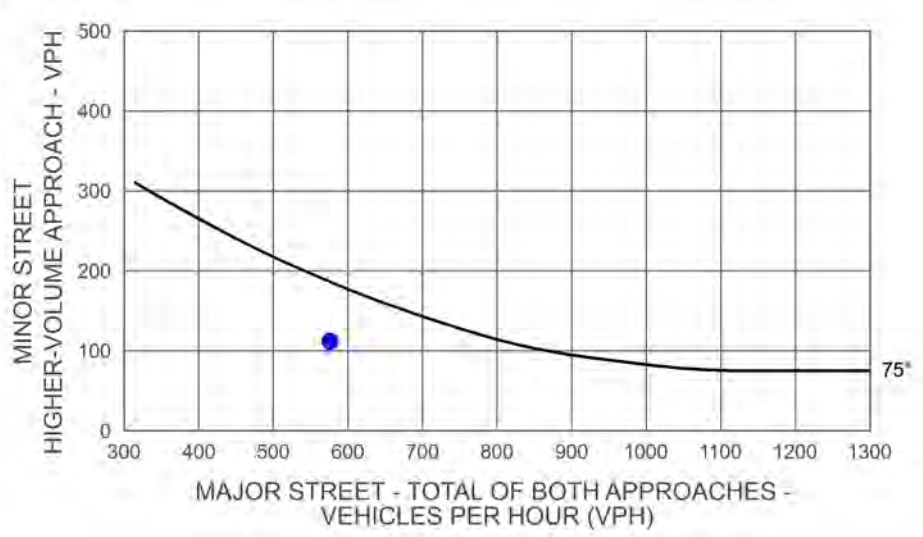
Intersection 6
Roeben St & Walnut Ave

Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Existing
Intersection #: 6

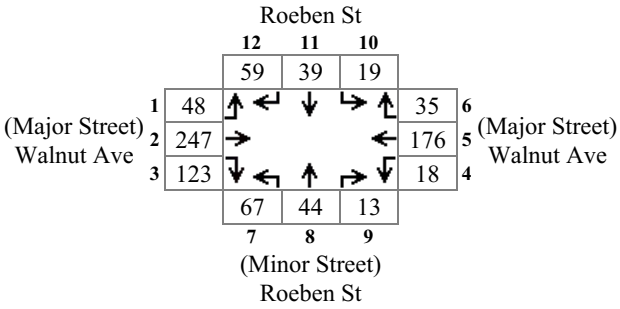


Major Total: 576
Minor High Volume: 112

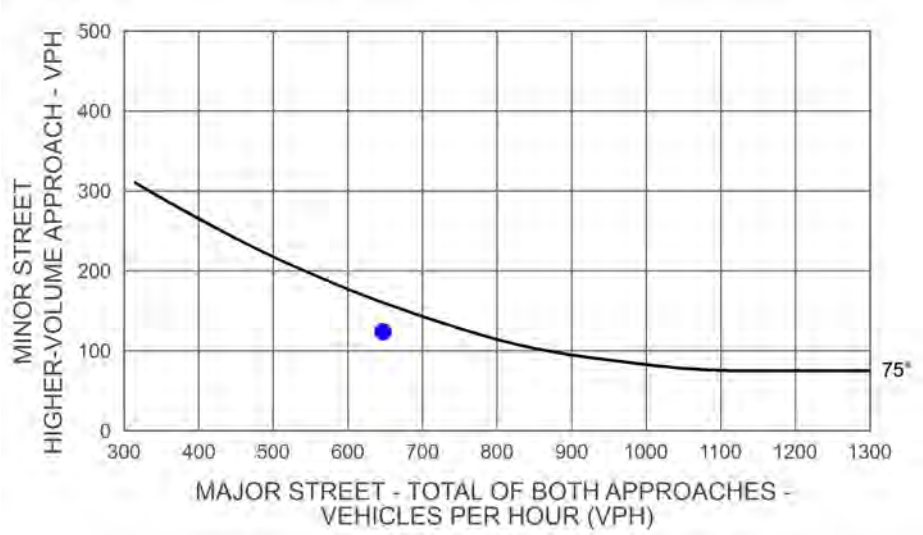


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future
Intersection #: 6

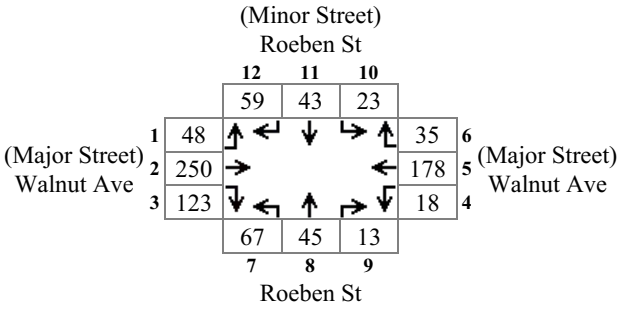


Major Total: 647
Minor High Volume: 124

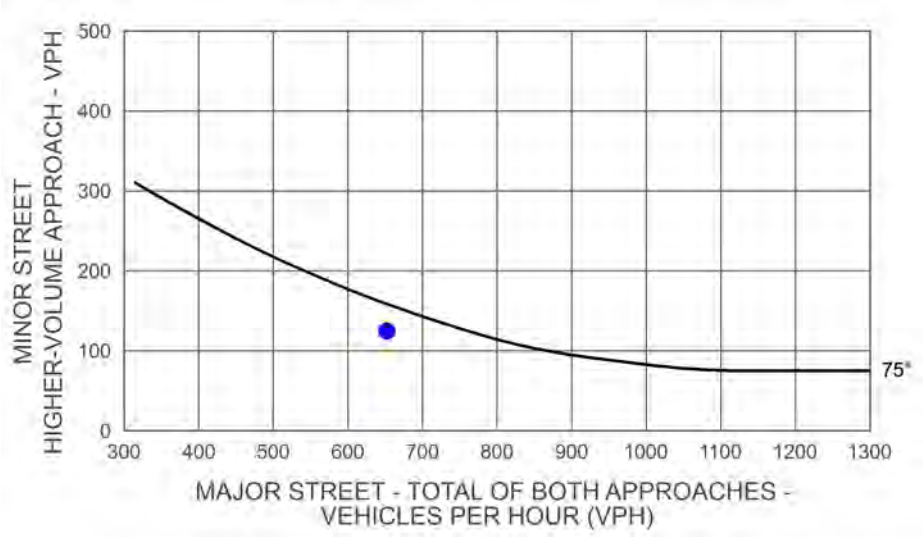


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: PM Future+Project
Intersection #: 6

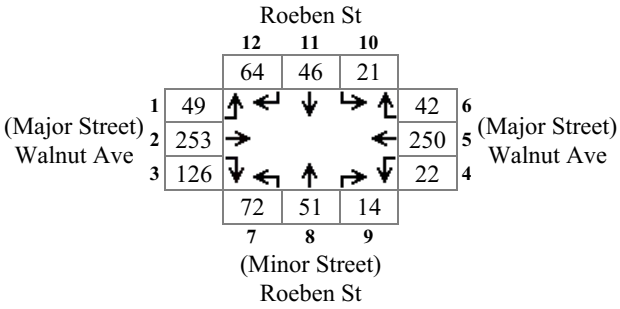


Major Total: 652
Minor High Volume: 125

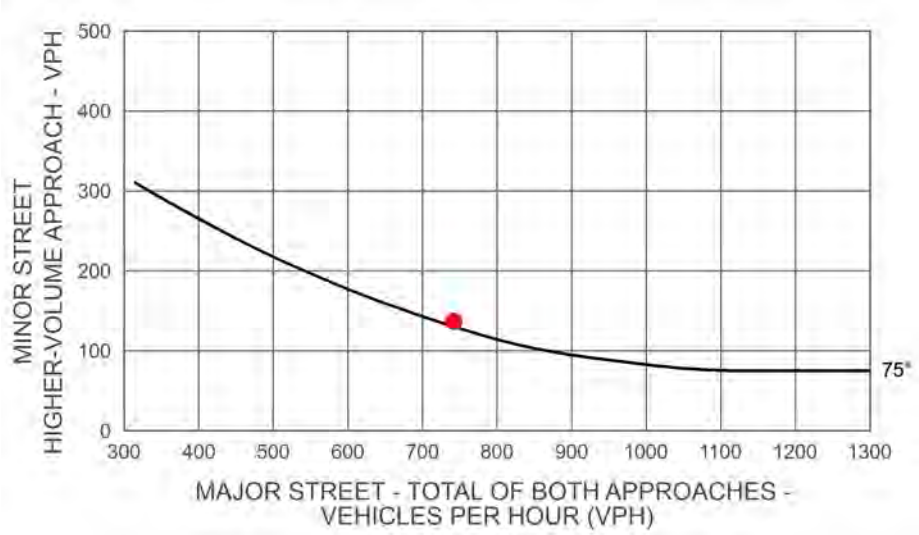


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future
Intersection #: 6

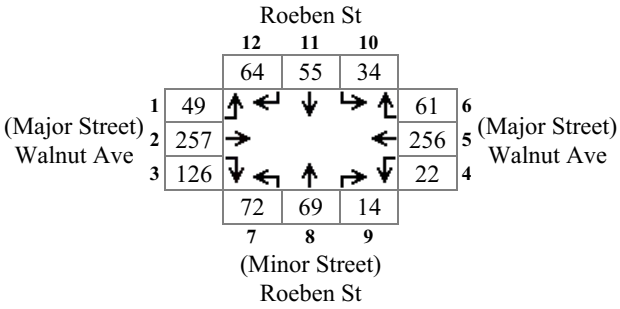


Major Total: 742
Minor High Volume: 137

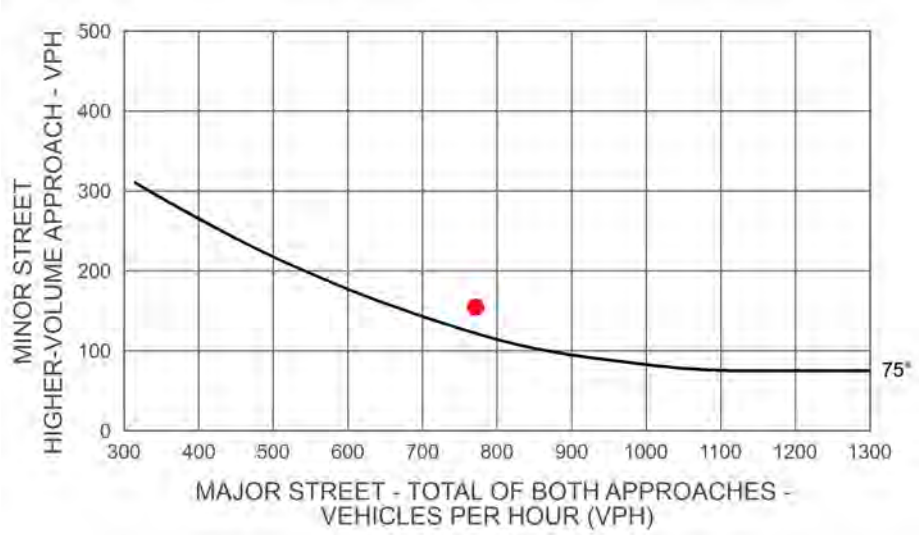


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: PM Future+Project (Future)
Intersection #: 6

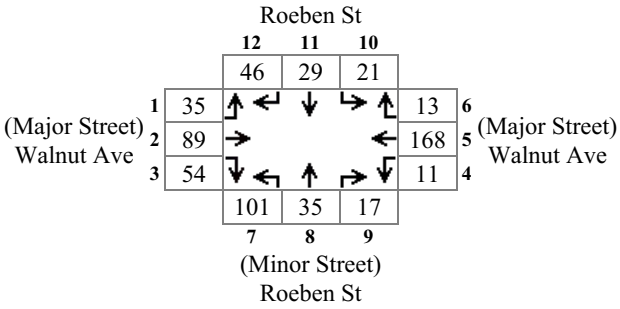


Major Total: 771
Minor High Volume: 155

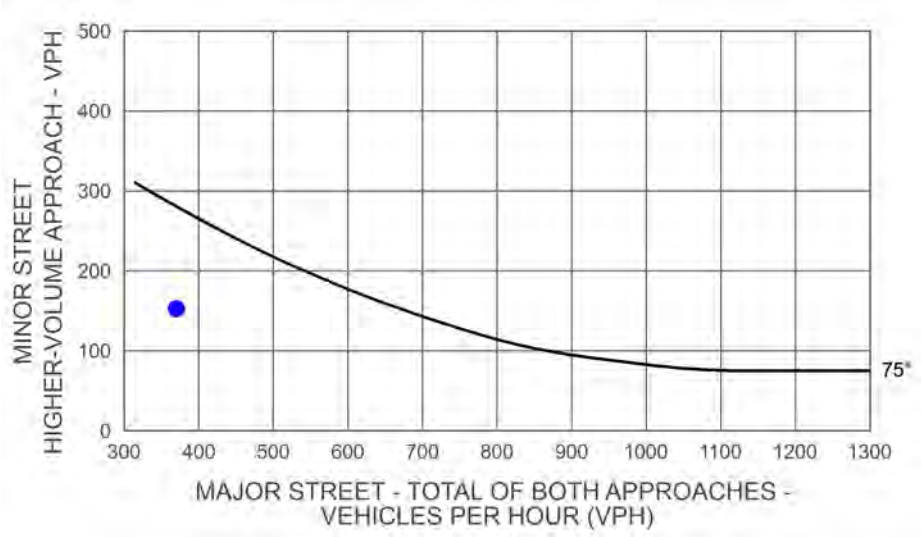


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Existing
Intersection #: 6

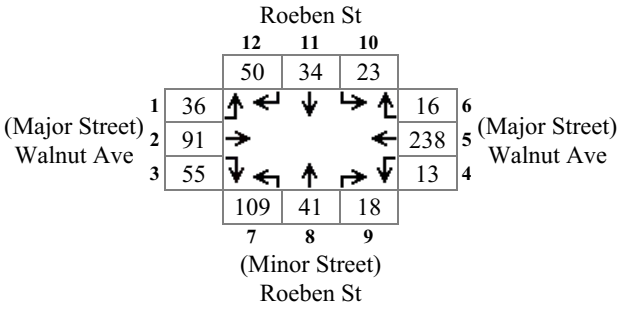


Major Total: 370
Minor High Volume: 153

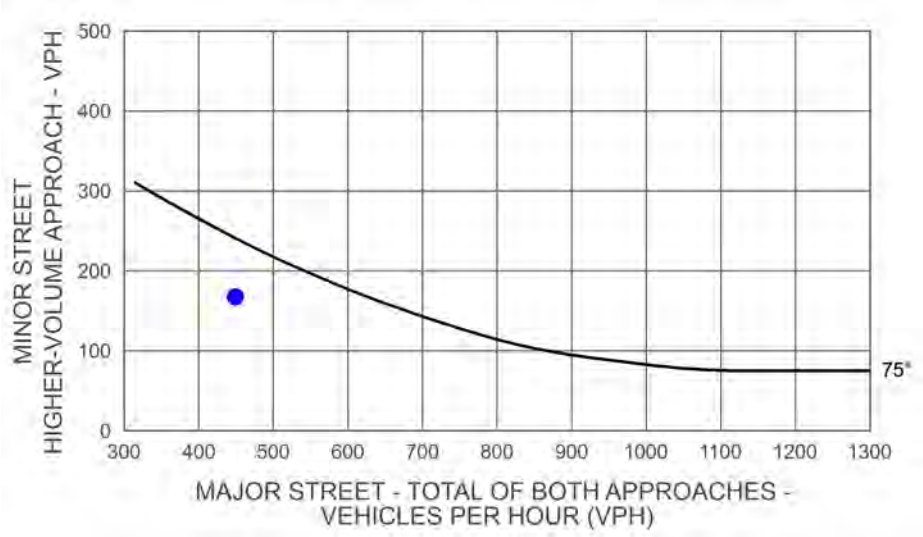


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future
Intersection #: 6

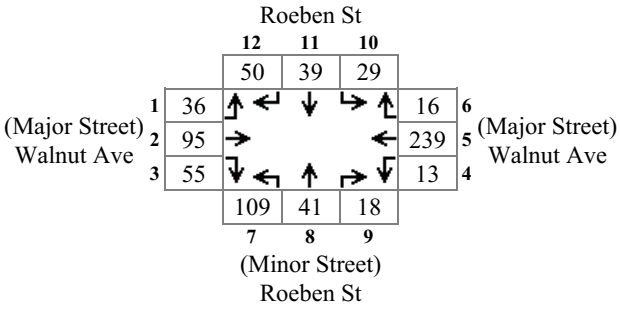


Major Total: 449
Minor High Volume: 168

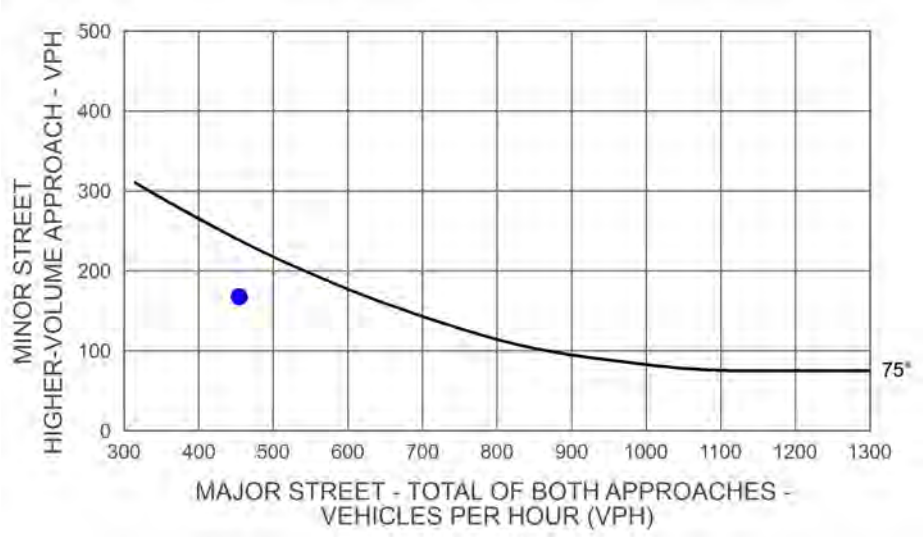


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future+Project
Intersection #: 6

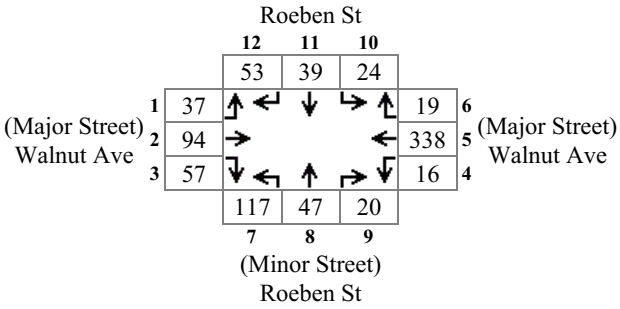


Major Total: 454
Minor High Volume: 168

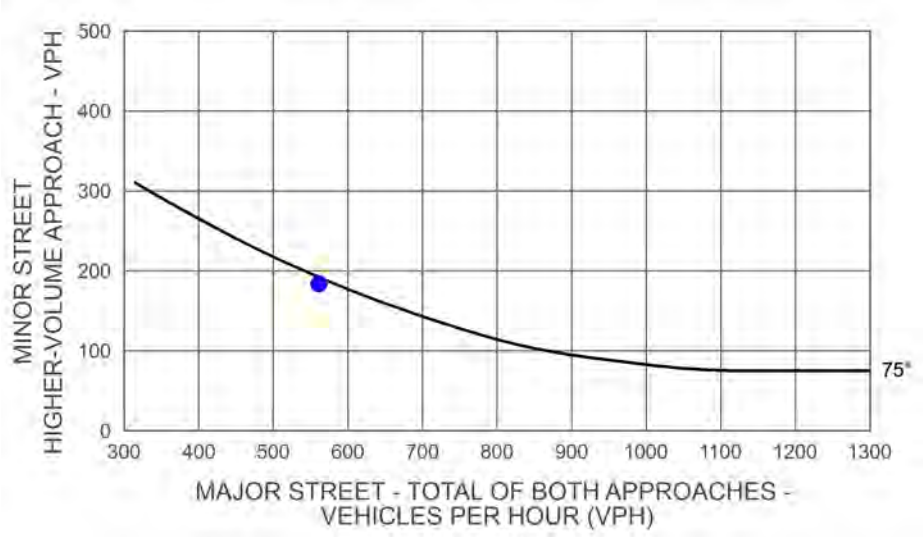


Rural Peak Hour Signal Warrant
Intersection Does Not Meet Signal Warrant

Scenario: AM Future
Intersection #: 6

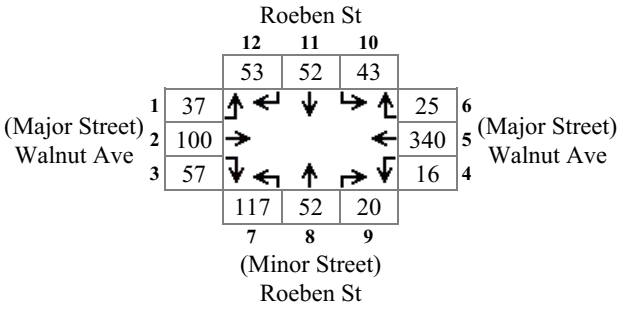


Major Total: 561
Minor High Volume: 184

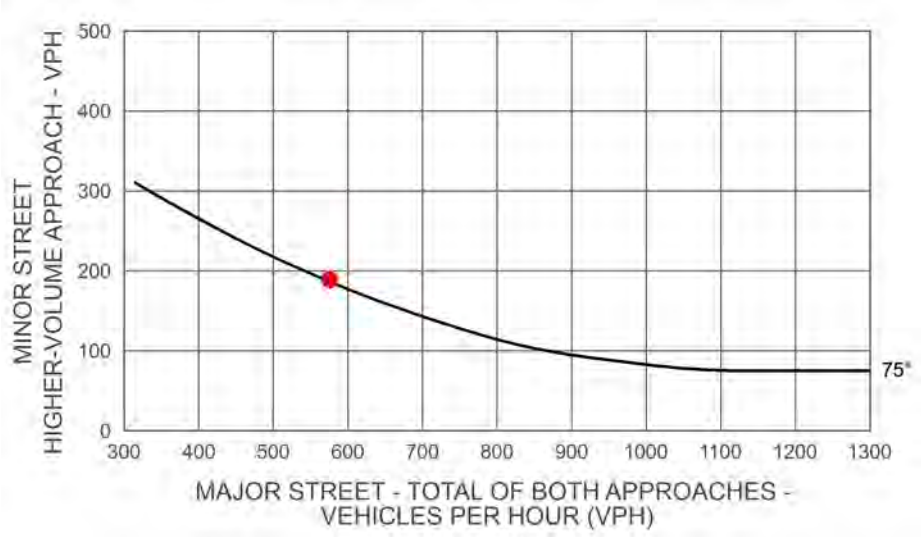


Rural Peak Hour Signal Warrant
Intersection Meets Signal Warrant

Scenario: AM Future+Project (Future)
Intersection #: 6



Major Total: 575
Minor High Volume: 189



Intersection 7
Street 3 & Tulare Ave

Intersection 8
Street 6 & Tulare Ave

Intersection 9
Shirk St & Avenue 4

Intersection 10
Roeben St & Avenue 6

2023

Warrant 1: Eight-hour Vehicular Volume

1: SR 198 WB Off Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	11 Hours met (8 required)
Condition B Met?	Yes	10 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**5106**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**126**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**1126**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**322**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		205		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	325		206		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	4329		122378		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	422		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		1758		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**380**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**186**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**126**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**165**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**222**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**205**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**116**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**92**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:30 to 11:30	**115**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:45 to 11:45	**63**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

11:15 to 12:15	**72**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

11:30 to 12:30	**83**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

11:45 to 12:45	**52**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**413**		**122**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	**418**		**119**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	**426**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	**432**		**100**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	**215**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	**266**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**209**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	**366**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	**426**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:30 to 15:30	**432**		**100**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:45 to 15:45	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

15:00 to 16:00	**215**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:15 to 16:15	**266**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

2: SR 198 EB Off-Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	8 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**0**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**5**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**3**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**24**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**23**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**28**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**33**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**85**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**201**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**318**		**210**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		222		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	305		152		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	322		148		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	405		222		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	482		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	465		209		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	415		201		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**132**		**64**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**185**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**199**		**35**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**66**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**68**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**78**		**5**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**69**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**22**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**69**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**65**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**105**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**119**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	222		44		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	336		85		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	426		215		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	432		232		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	466		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	326		221		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	315		176		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	226		120		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	205		54		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	206		26		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:30 to 15:30	65		20		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:45 to 15:45	91		15		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:00 to 16:00	102		10		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:15 to 16:15	102		9		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**55**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**62**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**19**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**21**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

4: Roeben St & Tulare Ave

Intersection Information

Major Street Name:	Tulare Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:30 to 07:30	**54**				No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

5: Shirk St & Walnut Ave

Intersection Information

Major Street Name:	Shirk St
Major Street Direction:	NB/SB
Minor Street Direction:	EB/WB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:30 to 07:30	**54**				No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

6: Roeben St & Walnut Ave

Intersection Information

Major Street Name:	Walnut Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**80**		**52**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:00 to 08:00	**64**		**41**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:15 to 08:15	**69**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:30 to 08:30	**63**		**21**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:45 to 08:45	**59**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:00 to 09:00	**62**		**8**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:15 to 09:15	**52**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	49		44		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	53		85		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	128		42		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	182		51		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	234		42		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	221		56		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	176		43		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

2023+Project

Warrant 1: Eight-hour Vehicular Volume

1: SR 198 WB Off Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	11 Hours met (8 required)
Condition B Met?	Yes	10 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**5106**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**126**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**1126**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**322**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		205		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	325		206		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	4329		122378		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	422		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		1758		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**380**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**186**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**126**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**165**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**222**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**205**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**116**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**92**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**115**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**72**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**83**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**52**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	413		122		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	418		119		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	426		117		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	432		100		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	466		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	215		221		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	266		86		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**209**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	**366**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	**426**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:30 to 15:30	**432**		**100**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:45 to 15:45	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

15:00 to 16:00	**215**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:15 to 16:15	**266**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

2: SR 198 EB Off-Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	8 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**0**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**5**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**3**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**24**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**23**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**28**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**33**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**85**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**201**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**318**		**210**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		222		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	305		152		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	322		148		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	405		222		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	482		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	465		209		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	415		201		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**132**		**64**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**185**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**199**		**35**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**66**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**68**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**78**		**5**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**69**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**22**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**69**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**65**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**105**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**119**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**222**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:15 to 13:15	**336**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:30 to 13:30	**426**		**215**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
12:45 to 13:45	**432**		**232**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
13:00 to 14:00	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
13:15 to 14:15	**326**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
13:30 to 14:30	**315**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	226		120		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	205		54		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	206		26		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:30 to 15:30	65		20		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:45 to 15:45	91		15		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:00 to 16:00	102		10		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:15 to 16:15	102		9		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**55**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**62**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**19**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**21**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

4: Roeben St & Tulare Ave

Intersection Information

Major Street Name:	Tulare Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? No

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:30 to 07:30	**54**				No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

5: Shirk St & Walnut Ave

Intersection Information

Major Street Name:	Shirk St
Major Street Direction:	NB/SB
Minor Street Direction:	EB/WB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:30 to 07:30	**54**				No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	58		120		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	61		54		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	69		26		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:30 to 15:30	76		20		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:45 to 15:45	91		15		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:00 to 16:00	102		10		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:15 to 16:15	102		9		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

6: Roeben St & Walnut Ave

Intersection Information

Major Street Name:	Walnut Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**80**		**52**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**41**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**21**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**8**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	49		44		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	53		85		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	128		42		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	182		51		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	234		42		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	221		56		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	176		43		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

2028

Warrant 1: Eight-hour Vehicular Volume

1: SR 198 WB Off Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	11 Hours met (8 required)
Condition B Met?	Yes	10 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**5106**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**126**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**1126**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**322**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		205		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	325		206		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	4329		122378		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	422		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		1758		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**380**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**186**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**126**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**165**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**222**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**205**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**116**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**92**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**115**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**72**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**83**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**52**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	413		122		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	418		119		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	426		117		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	432		100		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	466		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	215		221		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	266		86		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**209**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	**366**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	**426**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:30 to 15:30	**432**		**100**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:45 to 15:45	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

15:00 to 16:00	**215**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:15 to 16:15	**266**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

2: SR 198 EB Off-Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	8 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**0**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**5**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**3**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**24**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**23**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**28**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**33**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**85**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**201**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**318**		**210**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		222		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	305		152		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	322		148		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	405		222		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	482		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	465		209		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	415		201		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**132**		**64**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**185**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**199**		**35**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**66**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**68**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**78**		**5**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**69**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**22**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**69**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**65**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**105**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**119**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**222**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	**336**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	**426**		**215**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	**432**		**232**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	**326**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	**315**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**226**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**205**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**206**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**65**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**55**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**62**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**19**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**21**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

3: Shirk Rd & Tulare Ave

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	EB/WB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

4: Roeben St & Tulare Ave

Intersection Information

Major Street Name:	Tulare Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? No

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:30 to 07:30	**54**				No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

5: Shirk St & Walnut Ave

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	9 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**82**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**156**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**312**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		125		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	382		156		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	432		178		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	452		210		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		178		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**355**		**53**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:45 to 09:45	**386**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:00 to 10:00	**103**		**37**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:15 to 10:15	**64**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:30 to 10:30	**82**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:45 to 10:45	**95**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:00 to 11:00	**86**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**71**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**71**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**118**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**210**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**225**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:15 to 13:15	**386**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:30 to 13:30	**526**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
12:45 to 13:45	**532**		**185**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
13:00 to 14:00	**565**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
13:15 to 14:15	**342**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
13:30 to 14:30	**215**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	256		120		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	215		54		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	189		26		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:30 to 15:30	201		20		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:45 to 15:45	91		15		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:00 to 16:00	102		10		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:15 to 16:15	102		9		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

6: Roeben St & Walnut Ave

Intersection Information

Major Street Name:	Walnut Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? No

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**80**		**52**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**41**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**21**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**8**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:30 to 13:30	**128**		**42**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:45 to 13:45	**182**		**51**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
13:00 to 14:00	**234**		**42**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
13:15 to 14:15	**221**		**56**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
13:30 to 14:30	**176**		**43**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

2028+Project

Warrant 1: Eight-hour Vehicular Volume

1: SR 198 WB Off Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	11 Hours met (8 required)
Condition B Met?	Yes	10 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**5106**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**126**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**1126**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**322**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		205		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	325		206		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	4329		122378		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	422		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		1758		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**380**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**186**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**126**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**165**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**222**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**205**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**116**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**92**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**115**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**72**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**83**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**52**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	413		122		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	418		119		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	426		117		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	432		100		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	466		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	215		221		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	266		86		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**209**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**366**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**426**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
14:30 to 15:30	**432**		**100**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
14:45 to 15:45	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
15:00 to 16:00	**215**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
15:15 to 16:15	**266**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

2: SR 198 EB Off-Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	8 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**0**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**5**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**3**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**24**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**23**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**28**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**33**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**85**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**201**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**318**		**210**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		222		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	305		152		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	322		148		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	405		222		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	482		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	465		209		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	415		201		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**132**		**64**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**185**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**199**		**35**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**66**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**68**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**78**		**5**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**69**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**22**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**69**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**65**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**105**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**119**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**222**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:15 to 13:15	**336**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:30 to 13:30	**426**		**215**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
12:45 to 13:45	**432**		**232**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
13:00 to 14:00	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
13:15 to 14:15	**326**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
13:30 to 14:30	**315**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**226**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**205**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**206**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**65**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**55**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**62**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**19**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**21**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

3: Shirk Rd & Tulare Ave

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	EB/WB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

4: Roeben St & Tulare Ave

Intersection Information

Major Street Name:	Tulare Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? No

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:30 to 07:30	**54**				No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

5: Shirk St & Walnut Ave

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	9 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**82**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**156**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**312**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		125		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	382		156		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	432		178		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	452		210		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		178		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**355**		**53**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**386**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**103**		**37**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**64**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**82**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**95**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**86**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**71**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**71**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**118**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**210**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	225		44		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	386		85		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	526		117		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	532		185		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	565		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	342		221		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	215		176		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	256	120	No	No	No	No
Condition A	Volume >= 70% column (350)? No	Volume >= 70% column (525)? Yes				
	Volume >= 56% column (280)? No	Volume >= 56% column (420)? Yes				
Condition B	**Volume >= 70% column (525)?** No	**Volume >= 70% column (53)?** Yes				
	Volume >= 56% column (420)? No	**Volume >= 56% column (42)?** Yes				

14:00 to 15:00	215	54	No	No	No	No
Condition A	Volume >= 70% column (350)? No	Volume >= 70% column (525)? No				
	Volume >= 56% column (280)? No	Volume >= 56% column (420)? No				
Condition B	**Volume >= 70% column (525)?** No	**Volume >= 70% column (53)?** Yes				
	Volume >= 56% column (420)? No	**Volume >= 56% column (42)?** Yes				

14:15 to 15:15	189	26	No	No	No	No
Condition A	Volume >= 70% column (350)? No	Volume >= 70% column (525)? No				
	Volume >= 56% column (280)? No	Volume >= 56% column (420)? No				
Condition B	**Volume >= 70% column (525)?** No	**Volume >= 70% column (53)?** No				
	Volume >= 56% column (420)? No	**Volume >= 56% column (42)?** No				

14:30 to 15:30	201	20	No	No	No	No
Condition A	Volume >= 70% column (350)? No	Volume >= 70% column (525)? No				
	Volume >= 56% column (280)? No	Volume >= 56% column (420)? No				
Condition B	**Volume >= 70% column (525)?** No	**Volume >= 70% column (53)?** No				
	Volume >= 56% column (420)? No	**Volume >= 56% column (42)?** No				

14:45 to 15:45	91	15	No	No	No	No
Condition A	Volume >= 70% column (350)? No	Volume >= 70% column (525)? No				
	Volume >= 56% column (280)? No	Volume >= 56% column (420)? No				
Condition B	**Volume >= 70% column (525)?** No	**Volume >= 70% column (53)?** No				
	Volume >= 56% column (420)? No	**Volume >= 56% column (42)?** No				

15:00 to 16:00	102	10	No	No	No	No
Condition A	Volume >= 70% column (350)? No	Volume >= 70% column (525)? No				
	Volume >= 56% column (280)? No	Volume >= 56% column (420)? No				
Condition B	**Volume >= 70% column (525)?** No	**Volume >= 70% column (53)?** No				
	Volume >= 56% column (420)? No	**Volume >= 56% column (42)?** No				

15:15 to 16:15	102	9	No	No	No	No
Condition A	Volume >= 70% column (350)? No	Volume >= 70% column (525)? No				
	Volume >= 56% column (280)? No	Volume >= 56% column (420)? No				
Condition B	**Volume >= 70% column (525)?** No	**Volume >= 70% column (53)?** No				
	Volume >= 56% column (420)? No	**Volume >= 56% column (42)?** No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

6: Roeben St & Walnut Ave

Intersection Information

Major Street Name:	Walnut Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**80**		**52**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**41**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**21**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**8**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	49		44		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	53		85		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	128		42		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	182		51		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	234		42		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	221		56		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	176		43		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

2033

Warrant 1: Eight-hour Vehicular Volume

1: SR 198 WB Off Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	11 Hours met (8 required)
Condition B Met?	Yes	10 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**5106**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**126**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**1126**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**322**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		205		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	325		206		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	4329		122378		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	422		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		1758		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**380**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**186**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**126**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**165**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**222**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**205**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**116**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**92**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**115**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**72**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**83**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**52**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	413		122		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	418		119		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	426		117		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	432		100		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	466		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	215		221		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	266		86		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**209**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	**366**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	**426**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:30 to 15:30	**432**		**100**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:45 to 15:45	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

15:00 to 16:00	**215**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:15 to 16:15	**266**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

2: SR 198 EB Off-Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	8 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**0**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**5**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**3**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**24**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**23**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**28**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**33**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**85**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**201**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**318**		**210**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		222		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	305		152		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	322		148		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	405		222		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	482		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	465		209		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	415		201		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**132**		**64**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**185**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**199**		**35**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**66**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**68**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**78**		**5**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**69**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**22**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**69**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**65**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**105**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**119**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**222**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:15 to 13:15	**336**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
12:30 to 13:30	**426**		**215**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
12:45 to 13:45	**432**		**232**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
13:00 to 14:00	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				
13:15 to 14:15	**326**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
13:30 to 14:30	**315**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**226**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**205**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**206**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**65**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**55**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**62**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**19**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**21**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

3: Shirk Rd & Tulare Ave

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	EB/WB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

4: Roeben St & Tulare Ave

Intersection Information

Major Street Name:	Tulare Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? No

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:30 to 07:30	**54**				No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

5: Shirk St & Walnut Ave

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	9 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**82**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**156**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**312**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		125		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	382		156		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	432		178		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	452		210		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		178		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**355**		**53**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:45 to 09:45	**386**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:00 to 10:00	**103**		**37**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:15 to 10:15	**64**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:30 to 10:30	**82**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:45 to 10:45	**95**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:00 to 11:00	**86**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**71**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**71**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**118**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**210**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**225**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	**386**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	**526**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	**532**		**185**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	**565**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	**342**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	**215**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	256		120		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	215		54		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	189		26		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:30 to 15:30	201		20		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:45 to 15:45	91		15		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:00 to 16:00	102		10		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:15 to 16:15	102		9		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

6: Roeben St & Walnut Ave

Intersection Information

Major Street Name:	Walnut Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**80**		**52**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**41**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**21**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**8**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	49		44		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	53		85		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	128		42		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	182		51		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	234		42		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	221		56		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	176		43		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

2033+Project

Warrant 1: Eight-hour Vehicular Volume

1: SR 198 WB Off Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	11 Hours met (8 required)
Condition B Met?	Yes	10 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**5106**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**126**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**1126**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**322**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		205		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	325		206		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	4329		122378		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	422		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		1758		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**380**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**186**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**126**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**165**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**222**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**205**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**116**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**92**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**115**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**72**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**83**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**52**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	413		122		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	418		119		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	426		117		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	432		100		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	466		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	215		221		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	266		86		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	209		44		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	366		85		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	426		117		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:30 to 15:30	432		100		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

14:45 to 15:45	466		234		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

15:00 to 16:00	215		221		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:15 to 16:15	266		86		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

2: SR 198 EB Off-Ramp & Shirk St

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	8 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**0**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**5**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**3**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**24**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**23**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**28**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**33**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**85**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**201**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**318**		**210**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		222		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	305		152		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	322		148		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	405		222		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	482		225		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	465		209		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	415		201		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**132**		**64**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**185**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**199**		**35**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**66**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**68**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**78**		**5**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**69**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**22**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**69**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**65**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**105**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**119**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**222**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	**336**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	**426**		**215**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	**432**		**232**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	**466**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	**326**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	**315**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	226		120		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	205		54		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	206		26		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:30 to 15:30	65		20		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:45 to 15:45	91		15		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:00 to 16:00	102		10		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:15 to 16:15	102		9		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**55**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**62**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**19**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**21**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

3: Shirk Rd & Tulare Ave

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	EB/WB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

4: Roeben St & Tulare Ave

Intersection Information

Major Street Name:	Tulare Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? No

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:30 to 07:30	**54**				No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

06:45 to 07:45	**63**		**290**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**326**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**312**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**216**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**146**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**86**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**49**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:30 to 13:30	**47**		**128**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
12:45 to 13:45	**54**		**187**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:00 to 14:00	**58**		**234**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:15 to 14:15	**56**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
13:30 to 14:30	**60**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

13:45 to 14:45	58		120		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	61		54		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	69		26		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:30 to 15:30	76		20		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:45 to 15:45	91		15		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:00 to 16:00	102		10		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:15 to 16:15	102		9		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

5: Shirk St & Walnut Ave

Intersection Information

Major Street Name:	Shirk Rd
Major Street Direction:	NB/SB
Minor Street Direction:	WB/WB

WARRANT 1 MET? Yes

Details:

Condition A Met?	Yes	8 Hours met (8 required)
Condition B Met?	Yes	9 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**56**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**82**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**156**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**312**		**225**		No	No	Yes	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	362		125		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:00 to 08:00	382		156		Yes	No	Yes	No
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

07:15 to 08:15	432		178		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:30 to 08:30	452		210		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

07:45 to 08:45	421		192		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:00 to 09:00	422		178		Yes	No	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

08:15 to 09:15	285		152		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

08:30 to 09:30	**355**		**53**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:45 to 09:45	**386**		**62**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:00 to 10:00	**103**		**37**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:15 to 10:15	**64**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:30 to 10:30	**82**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

09:45 to 10:45	**95**		**18**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:00 to 11:00	**86**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**82**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**71**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**63**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**61**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**71**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**118**		**33**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**210**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**225**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	**386**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	**526**		**117**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	**532**		**185**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	**565**		**234**		Yes	Yes	Yes	Yes
Condition A	Volume >= 70% column (350)?	Yes	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	Yes	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	Yes	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	Yes	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	**342**		**221**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	**215**		**176**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	256		120		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:00 to 15:00	215		54		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

14:15 to 15:15	189		26		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:30 to 15:30	201		20		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

14:45 to 15:45	91		15		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:00 to 16:00	102		10		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:15 to 16:15	102		9		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

Warrant 1: Eight-hour Vehicular Volume

6: Roeben St & Walnut Ave

Intersection Information

Major Street Name:	Walnut Ave
Major Street Direction:	EB/WB
Minor Street Direction:	NB/SB

WARRANT 1 MET? **No**

Details:

Condition A Met?	No	0 Hours met (8 required)
Condition B Met?	No	0 Hours met (8 required)

Hour	Major Street Vehicles (Total of Both Approaches)		High Volume Minor Approach Vehicles		70% Standard Met? Cond. A OR Cond. B		56% Standard Met? Cond. A AND Cond. B	
					Condition A 70% Column	Condition B 70% Column	Condition A 56% Column	Condition B 56% Column
00:00 to 01:00	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
00:15 to 01:15	**1**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
01:30 to 02:30	**4**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
02:00 to 03:00	**3**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

02:15 to 03:15	**2**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:30 to 04:30	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
03:45 to 04:45	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:00 to 05:00	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:15 to 05:15	**9**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:30 to 05:30	**16**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
04:45 to 05:45	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

05:00 to 06:00	**21**		**2**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:15 to 06:15	**29**		**6**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:30 to 06:30	**29**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
05:45 to 06:45	**29**		**34**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
06:00 to 07:00	**41**		**70**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:15 to 07:15	**46**		**121**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
06:30 to 07:30	**54**		**225**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

06:45 to 07:45	**80**		**52**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:00 to 08:00	**64**		**41**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:15 to 08:15	**69**		**31**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:30 to 08:30	**63**		**21**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
07:45 to 08:45	**59**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:00 to 09:00	**62**		**8**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:15 to 09:15	**52**		**19**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

08:30 to 09:30	**48**		**38**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
08:45 to 09:45	**43**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:00 to 10:00	**35**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:15 to 10:15	**33**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:30 to 10:30	**32**		**28**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
09:45 to 10:45	**32**		**27**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:00 to 11:00	**35**		**29**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

10:15 to 11:15	**36**		**24**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:30 to 11:30	**43**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
10:45 to 11:45	**42**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:00 to 12:00	**45**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:15 to 12:15	**49**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:30 to 12:30	**51**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
11:45 to 12:45	**53**		**25**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

12:00 to 13:00	**49**		**44**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:15 to 13:15	**53**		**85**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:30 to 13:30	**128**		**42**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

12:45 to 13:45	**182**		**51**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:00 to 14:00	**234**		**42**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:15 to 14:15	**221**		**56**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:30 to 14:30	**176**		**43**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				

13:45 to 14:45	**58**		**120**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	Yes				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	Yes				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:00 to 15:00	**61**		**54**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	Yes				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	Yes				
14:15 to 15:15	**69**		**26**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:30 to 15:30	**76**		**20**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
14:45 to 15:45	**91**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:00 to 16:00	**102**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:15 to 16:15	**102**		**9**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

15:30 to 16:30	**105**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
15:45 to 16:45	**91**		**13**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:00 to 17:00	**88**		**14**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:15 to 17:15	**84**		**17**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:30 to 17:30	**82**		**16**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
16:45 to 17:45	**83**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:00 to 18:00	**72**		**15**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

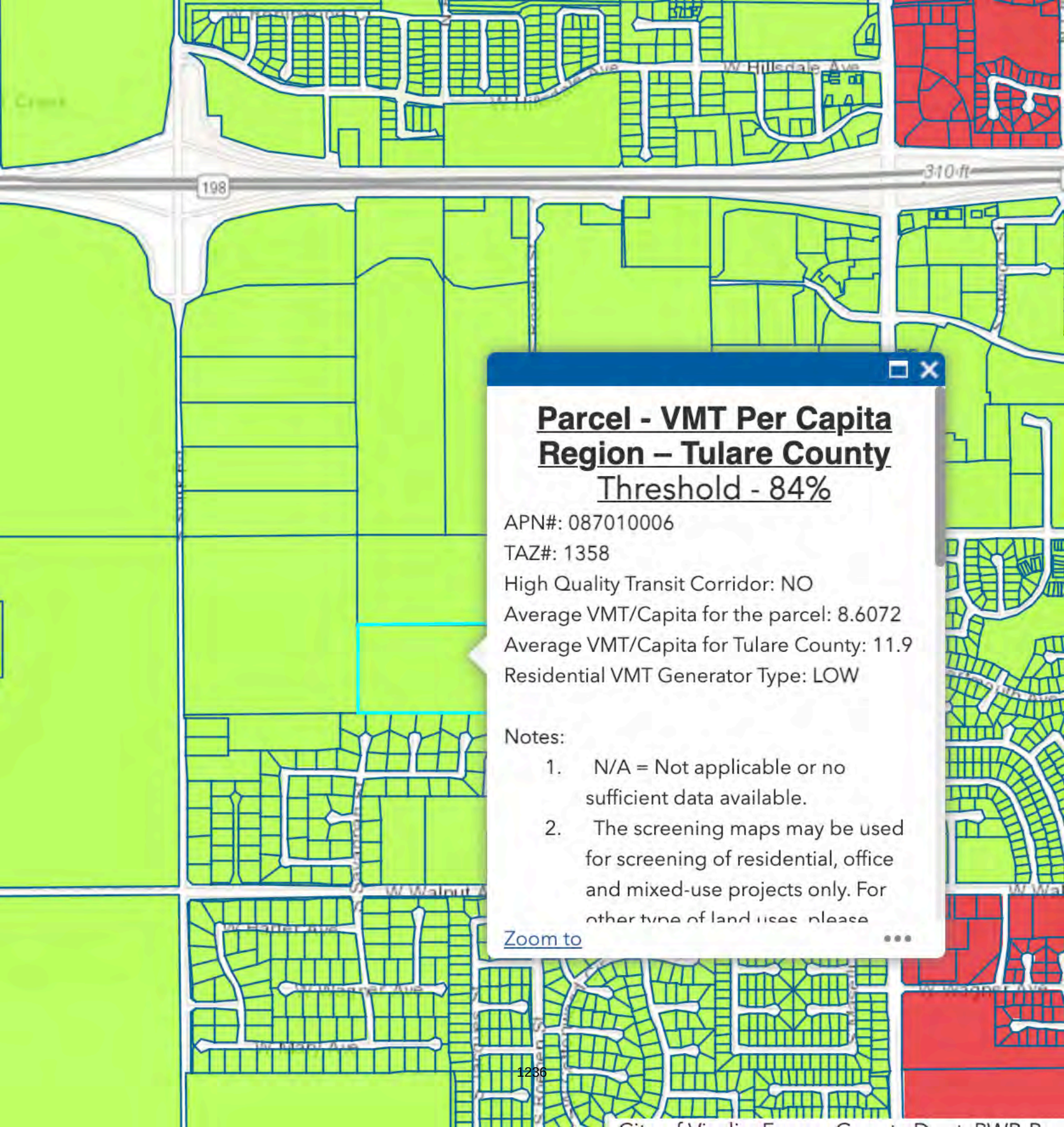
17:15 to 18:15	**68**		**10**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:30 to 18:30	**61**		**7**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
17:45 to 18:45	**51**		**3**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:00 to 19:00	**46**		**1**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:15 to 19:15	**43**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:30 to 19:30	**38**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
18:45 to 19:45	**33**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

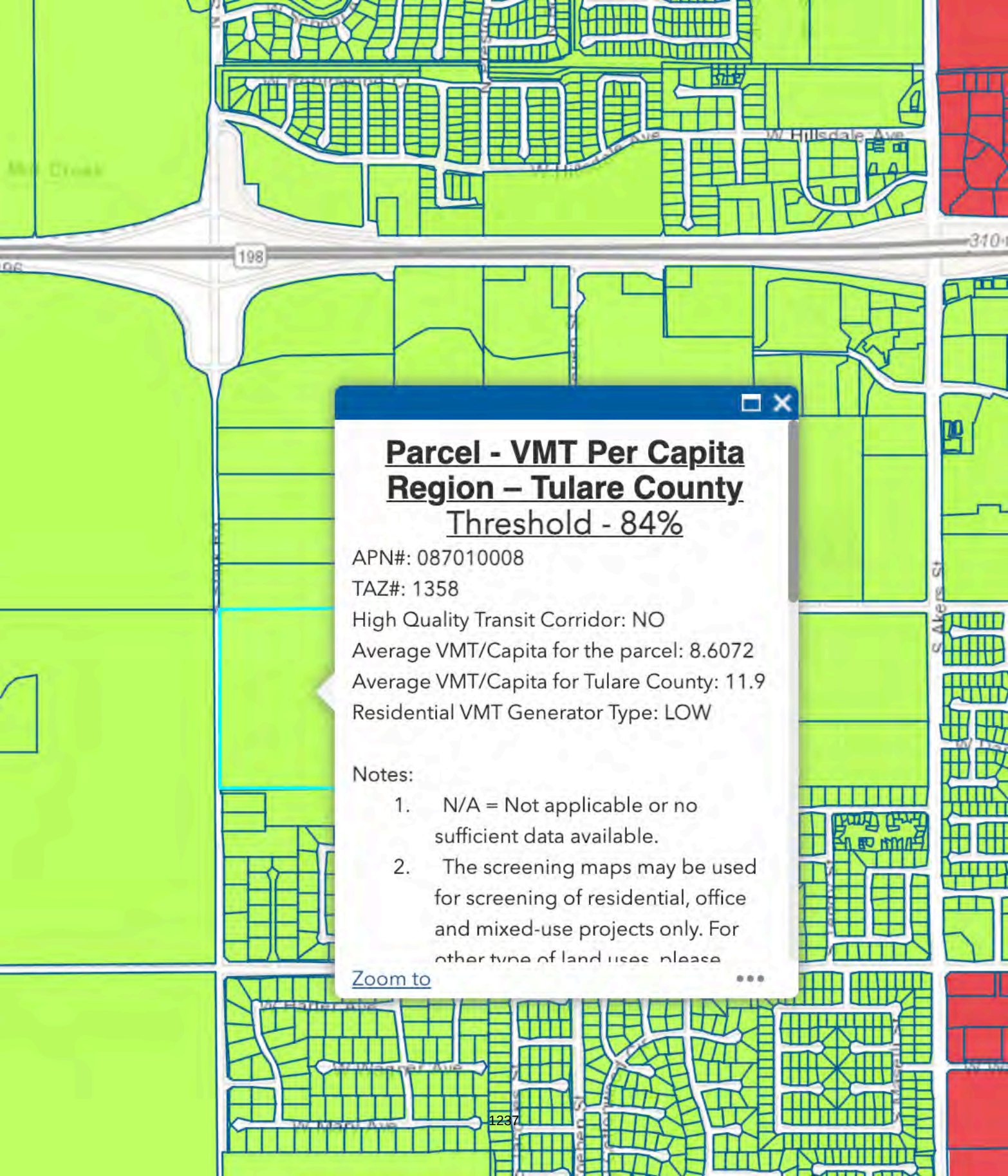
19:00 to 20:00	**28**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:15 to 20:15	**24**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:30 to 20:30	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
19:45 to 20:45	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:00 to 21:00	**26**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:15 to 21:15	**21**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
20:30 to 21:30	**18**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

20:45 to 21:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:00 to 22:00	**11**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:15 to 22:15	**12**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:30 to 22:30	**14**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
21:45 to 22:45	**13**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:00 to 23:00	**9**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				
22:15 to 23:15	**7**		**0**		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

22:30 to 23:30	2		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				

23:45 to 00:45	4		0		No	No	No	No
Condition A	Volume >= 70% column (350)?	No	Volume >= 70% column (525)?	No				
	Volume >= 56% column (280)?	No	Volume >= 56% column (420)?	No				
Condition B	**Volume >= 70% column (525)?**	No	**Volume >= 70% column (53)?**	No				
	Volume >= 56% column (420)?	No	**Volume >= 56% column (42)?**	No				


W Hillsdale Ave
198
310 ft
Parcel - VMT Per Capita
Region – Tulare County
Threshold - 84%
APN#: 087010006
TAZ#: 1358
High Quality Transit Corridor: NO
Average VMT/Capita for the parcel: 8.6072
Average VMT/Capita for Tulare County: 11.9
Residential VMT Generator Type: LOW
Notes:
1. N/A = Not applicable or no sufficient data available.
2. The screening maps may be used for screening of residential, office and mixed-use projects only. For
Zoom to
W Walnut Ave
W Main Ave


198
W Hillsdale Ave
S Akers St
Parcel - VMT Per Capita
Region – Tulare County
Threshold - 84%
APN#: 087010008
TAZ#: 1358
High Quality Transit Corridor: NO
Average VMT/Capita for the parcel: 8.6072
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Zoom to

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Hanford, CA 93230

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Turning Movement Report

Prepared For:
Ruettgers & Schuler Civil Engineers
1800 30th St, Ste 260
Bakersfield, CA 93301

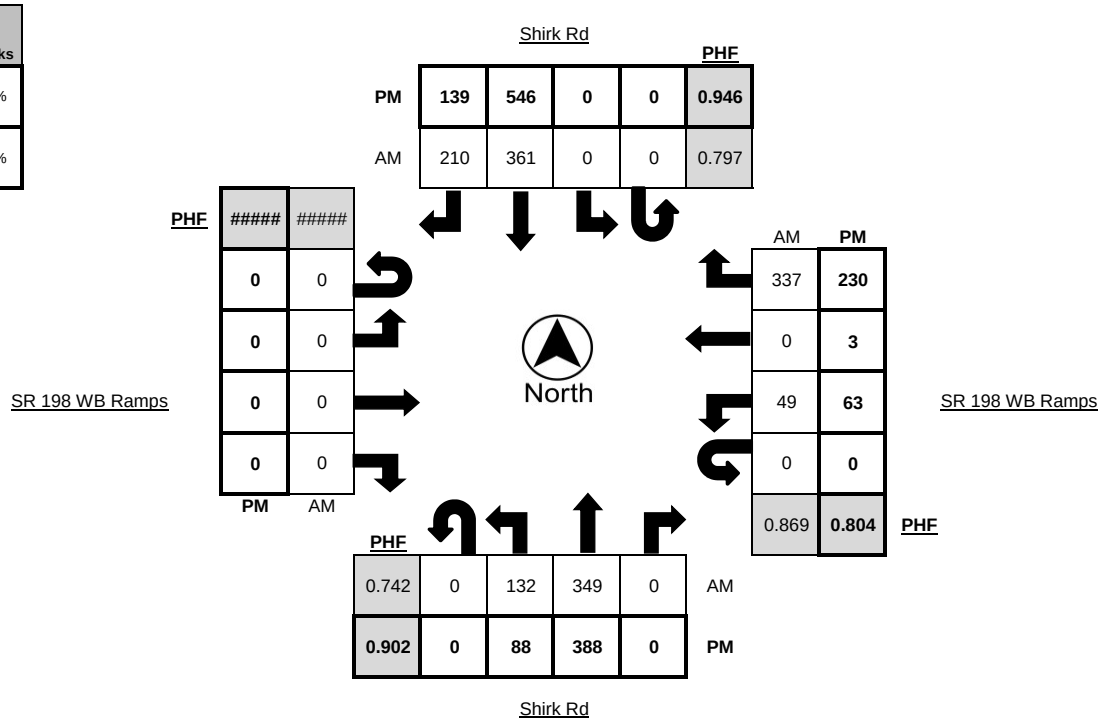
LOCATION Rd 92 @ SR 198 WB Ramps
LATITUDE 36.3281
COUNTY Tulare
LONGITUDE -119.3677
COLLECTION DATE Thursday, November 02, 2023
WEATHER Clear

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
6:00 AM - 6:15 AM	0	18	33	0	4	0	0	37	27	3	0	0	0	0	0	0	4	0	45	1
6:15 AM - 6:30 AM	0	17	35	0	1	0	0	32	25	7	0	0	0	0	0	0	6	0	48	1
6:30 AM - 6:45 AM	0	27	50	0	1	0	0	35	40	4	0	0	0	0	0	0	8	1	49	3
6:45 AM - 7:00 AM	0	29	75	0	3	0	0	51	31	4	0	0	0	0	0	0	10	0	85	3
7:00 AM - 7:15 AM	0	23	62	0	5	0	0	68	39	3	0	0	0	0	0	0	8	0	70	5
7:15 AM - 7:30 AM	0	32	79	0	2	0	0	68	53	4	0	0	0	0	0	0	12	0	85	0
7:30 AM - 7:45 AM	0	41	82	0	5	0	0	108	56	10	0	0	0	0	0	0	12	0	88	2
7:45 AM - 8:00 AM	0	36	126	0	4	0	0	117	62	11	0	0	0	0	0	0	17	0	94	3
TOTAL	**0**	**223**	**542**	**0**	**25**	**0**	**0**	**516**	**333**	**46**	**0**	**0**	**0**	**0**	**0**	**0**	**77**	**1**	**564**	**18**

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
4:00 PM - 4:15 PM	0	16	91	0	2	0	0	129	32	4	0	0	0	0	0	0	14	2	60	2
4:15 PM - 4:30 PM	0	24	85	0	8	0	0	126	33	4	0	0	0	0	0	0	15	0	69	0
4:30 PM - 4:45 PM	0	15	96	0	8	0	0	142	30	4	0	0	0	0	0	0	20	0	50	2
4:45 PM - 5:00 PM	0	23	101	0	2	0	0	134	39	2	0	0	0	0	0	0	11	2	37	4
5:00 PM - 5:15 PM	0	26	106	0	4	0	0	144	37	3	0	0	0	0	0	0	17	1	74	3
5:15 PM - 5:30 PM	0	19	101	0	2	0	0	129	36	3	0	0	0	0	0	0	13	1	44	0
5:30 PM - 5:45 PM	0	16	93	0	2	0	0	131	28	0	0	0	0	0	0	0	9	2	56	3
5:45 PM - 6:00 PM	0	16	82	0	4	0	0	92	27	2	0	0	0	0	0	0	4	1	41	0
TOTAL	**0**	**155**	**755**	**0**	**32**	**0**	**0**	**1027**	**262**	**22**	**0**	**0**	**0**	**0**	**0**	**0**	**103**	**9**	**431**	**14**

	Northbound					Southbound					Eastbound					Westbound				
PEAK HOUR	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
7:00 AM - 8:00 AM	0	132	349	0	16	0	0	361	210	28	0	0	0	0	0	0	49	0	337	10
4:15 PM - 5:15 PM	0	88	388	0	22	0	0	546	139	13	0	0	0	0	0	0	63	3	230	9

	PHF	Trucks
AM	0.795	3.8%
PM	0.899	3.0%



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Turning Movement Report

Prepared For:
Ruettgers & Schuler Civil Engineers
1800 30th St, Ste 260
Bakersfield, CA 93301

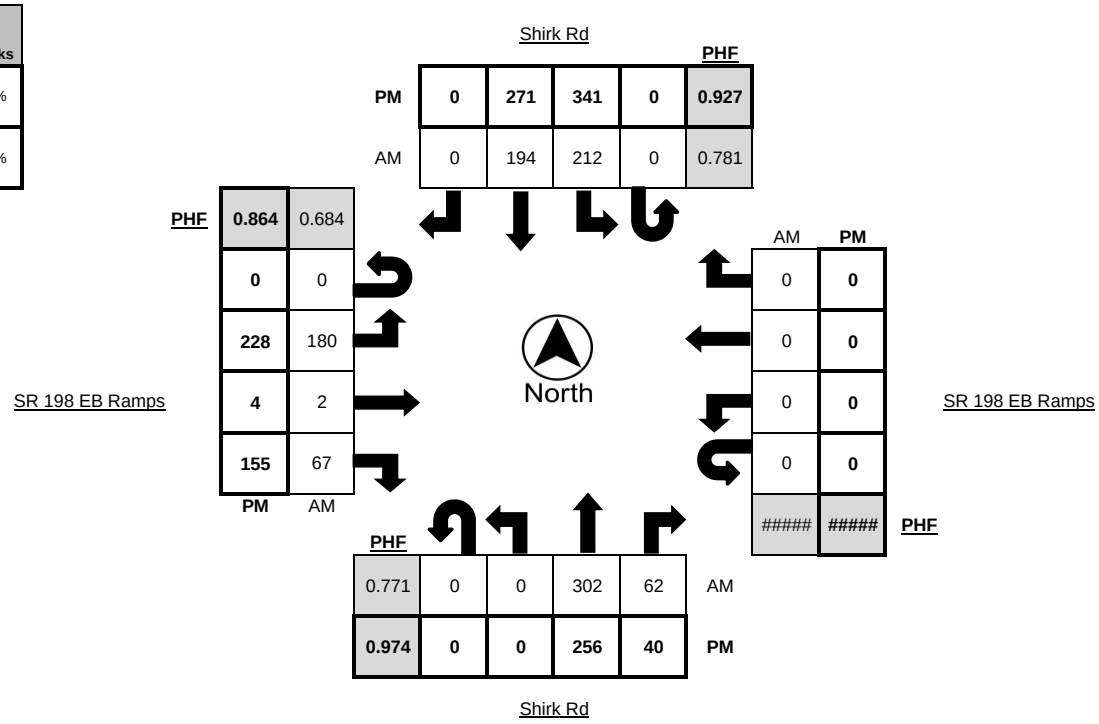
LOCATION Rd 92 @ SR 198 EB Ramps
LATITUDE 36.3265
COUNTY Tulare
LONGITUDE -119.3677
COLLECTION DATE Thursday, November 02, 2023
WEATHER Clear

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
6:00 AM - 6:15 AM	0	0	37	5	0	0	18	21	0	1	0	15	0	3	3	0	0	0	0	0
6:15 AM - 6:30 AM	0	0	33	7	0	0	26	14	0	2	0	18	0	2	1	0	0	0	0	0
6:30 AM - 6:45 AM	0	0	48	4	0	0	20	23	0	1	0	27	1	7	2	0	0	0	0	0
6:45 AM - 7:00 AM	0	0	69	5	1	0	29	32	0	3	0	36	0	6	3	0	0	0	0	0
7:00 AM - 7:15 AM	0	0	48	7	0	0	42	34	0	4	0	38	1	12	4	0	0	0	0	0
7:15 AM - 7:30 AM	0	0	74	10	1	0	36	45	0	3	0	33	0	13	3	0	0	0	0	0
7:30 AM - 7:45 AM	0	0	85	22	1	0	62	57	0	6	0	40	1	20	5	0	0	0	0	0
7:45 AM - 8:00 AM	0	0	95	23	0	0	72	58	0	6	0	69	0	22	4	0	0	0	0	0
TOTAL	**0**	**0**	**489**	**83**	**3**	**0**	**305**	**284**	**0**	**26**	**0**	**276**	**3**	**85**	**25**	**0**	**0**	**0**	**0**	**0**

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
4:00 PM - 4:15 PM	0	0	52	4	1	0	89	53	0	4	0	55	0	38	2	0	0	0	0	0
4:15 PM - 4:30 PM	0	0	59	11	3	0	78	66	0	0	0	53	0	34	5	0	0	0	0	0
4:30 PM - 4:45 PM	0	0	65	8	3	0	86	74	0	2	0	45	1	38	6	0	0	0	0	0
4:45 PM - 5:00 PM	0	0	65	11	1	0	84	62	0	1	0	56	2	37	0	0	0	0	0	0
5:00 PM - 5:15 PM	0	0	64	10	3	0	93	72	0	2	0	69	0	43	1	0	0	0	0	0
5:15 PM - 5:30 PM	0	0	62	11	1	0	78	63	0	1	0	58	1	37	1	0	0	0	0	0
5:30 PM - 5:45 PM	0	0	59	16	2	0	88	50	0	0	0	47	0	31	1	0	0	0	0	0
5:45 PM - 6:00 PM	0	0	50	9	1	0	52	48	0	1	0	52	1	28	2	0	0	0	0	0
TOTAL	**0**	**0**	**476**	**80**	**15**	**0**	**648**	**488**	**0**	**11**	**0**	**435**	**5**	**286**	**18**	**0**	**0**	**0**	**0**	**0**

	Northbound					Southbound					Eastbound					Westbound				
PEAK HOUR	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
7:00 AM - 8:00 AM	0	0	302	62	2	0	212	194	0	19	0	180	2	67	16	0	0	0	0	0
4:30 PM - 5:30 PM	0	0	256	40	8	0	341	271	0	6	0	228	4	155	8	0	0	0	0	0

	PHF	Trucks
AM	0.751	3.6%
PM	0.922	1.7%



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Prepared For:
Ruettgers & Schuler Civil Engineers
1800 30th St, Ste 260
Bakersfield, CA 93301

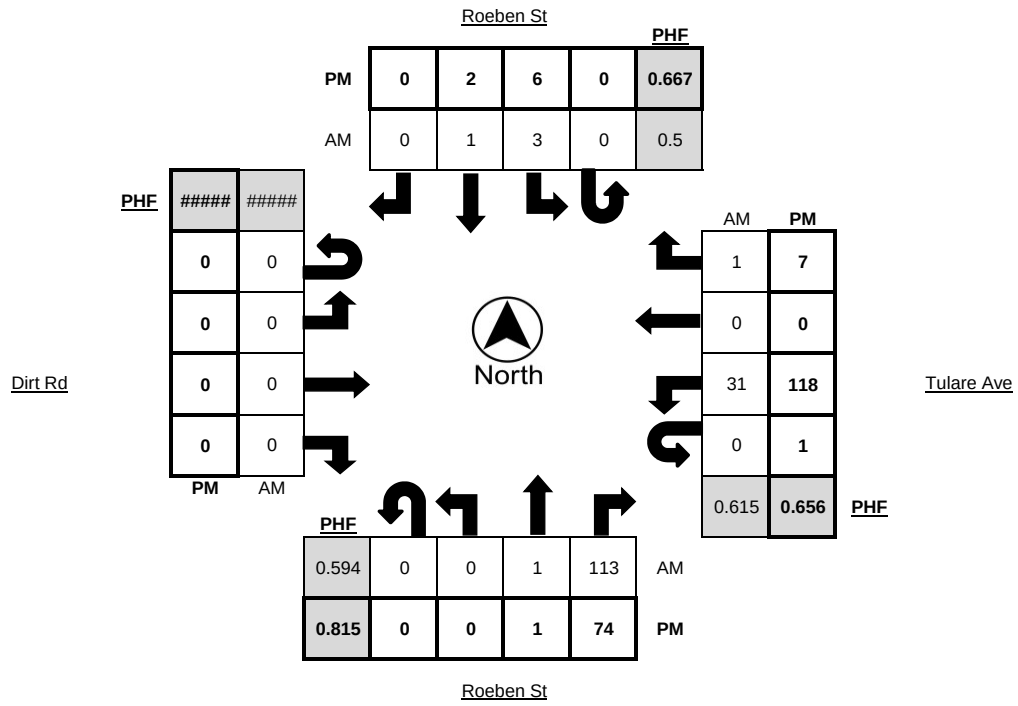
LOCATION Roeben St @ Tulare Ave
LATITUDE 36.3200
COUNTY Tulare
LONGITUDE -119.3586
COLLECTION DATE Thursday, November 02, 2023
WEATHER Clear

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
6:00 AM - 6:15 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0
6:15 AM - 6:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM - 6:45 AM	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
6:45 AM - 7:00 AM	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0
7:00 AM - 7:15 AM	0	0	0	18	0	0	0	1	0	0	0	0	0	0	0	0	3	0	0	0
7:15 AM - 7:30 AM	0	0	0	16	1	0	0	0	0	0	0	0	0	0	0	0	5	0	1	1
7:30 AM - 7:45 AM	0	0	0	32	0	0	2	0	0	1	0	0	0	0	0	0	10	0	0	0
7:45 AM - 8:00 AM	0	0	1	47	1	0	1	0	0	1	0	0	0	0	0	0	13	0	0	1
TOTAL	**0**	**0**	**2**	**134**	**2**	**0**	**3**	**1**	**0**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**48**	**0**	**1**	**2**

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
4:00 PM - 4:15 PM	0	0	1	18	0	0	0	3	0	0	0	0	0	0	0	0	22	0	0	0
4:15 PM - 4:30 PM	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	1
4:30 PM - 4:45 PM	0	0	0	17	0	0	2	2	0	0	0	0	0	0	0	0	21	0	2	0
4:45 PM - 5:00 PM	0	0	2	13	0	0	1	0	0	0	0	0	0	0	0	0	19	0	2	0
5:00 PM - 5:15 PM	0	0	0	8	0	0	2	1	0	0	0	0	0	0	0	0	45	0	3	1
5:15 PM - 5:30 PM	0	0	0	23	0	0	2	1	0	0	0	0	0	0	0	0	23	0	2	0
5:30 PM - 5:45 PM	0	0	1	22	0	0	0	0	0	0	0	0	0	0	0	0	23	0	2	0
5:45 PM - 6:00 PM	0	0	0	21	0	0	2	0	0	0	0	0	0	0	0	1	27	0	0	0
TOTAL	**0**	**0**	**4**	**136**	**0**	**0**	**9**	**7**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**206**	**0**	**11**	**2**

	Northbound					Southbound					Eastbound					Westbound				
PEAK HOUR	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
7:00 AM - 8:00 AM	0	0	1	113	2	0	3	1	0	2	0	0	0	0	0	0	31	0	1	2
5:00 PM - 6:00 PM	0	0	1	74	0	0	6	2	0	0	0	0	0	0	0	1	118	0	7	1

	PHF	Trucks
AM	0.605	4.0%
PM	0.886	0.5%



Metro Traffic Data Inc.
310 N. Irwin Street - Suite 20
Hanford, CA 93230

800-975-6938 Phone/Fax
www.metrotrafficdata.com

Turning Movement Report

Prepared For:
Ruettgers & Schuler Civil Engineers
1800 30th St, Ste 260
Bakersfield, CA 93301

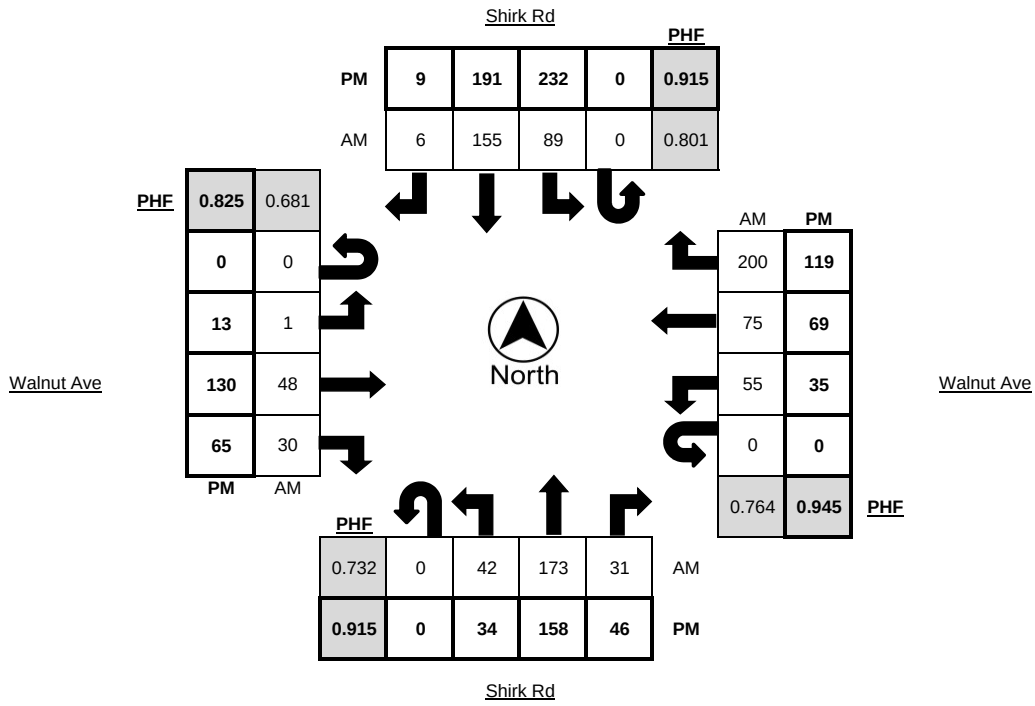
LOCATION Rd 92 @ Walnut Ave
LATITUDE 36.3127
COUNTY Tulare
LONGITUDE -119.3675
COLLECTION DATE Thursday, November 02, 2023
WEATHER Clear

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
6:00 AM - 6:15 AM	0	3	18	0	1	0	3	17	0	1	0	0	3	0	0	0	2	8	26	0
6:15 AM - 6:30 AM	0	0	14	4	0	0	3	14	0	1	0	2	2	0	0	0	15	7	24	0
6:30 AM - 6:45 AM	0	5	25	0	0	0	4	18	2	2	0	0	2	2	1	0	8	22	29	0
6:45 AM - 7:00 AM	0	8	41	2	1	0	9	32	1	1	0	0	3	6	0	0	10	17	34	0
7:00 AM - 7:15 AM	0	7	29	8	1	0	13	28	1	1	0	0	11	4	0	0	5	11	33	0
7:15 AM - 7:30 AM	0	10	28	6	0	0	19	34	0	1	0	1	9	5	0	0	15	15	48	0
7:30 AM - 7:45 AM	0	20	49	5	1	0	31	45	2	1	0	0	9	11	0	0	16	26	66	0
7:45 AM - 8:00 AM	0	5	67	12	0	0	26	48	3	1	0	0	19	10	0	0	19	23	53	1
TOTAL	**0**	**58**	**271**	**37**	**4**	**0**	**108**	**236**	**9**	**9**	**0**	**3**	**58**	**38**	**1**	**0**	**90**	**129**	**313**	**1**

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
4:00 PM - 4:15 PM	0	8	36	5	0	0	44	43	3	2	0	2	27	17	0	0	13	15	22	1
4:15 PM - 4:30 PM	0	8	45	10	1	0	48	48	1	0	0	3	24	13	0	0	6	13	25	2
4:30 PM - 4:45 PM	0	9	37	12	4	0	67	49	2	1	0	1	23	22	1	0	7	20	31	1
4:45 PM - 5:00 PM	0	13	41	11	0	0	54	43	3	1	0	4	34	9	0	0	9	14	32	1
5:00 PM - 5:15 PM	0	6	37	13	1	0	56	47	3	2	0	5	39	19	0	0	9	17	33	1
5:15 PM - 5:30 PM	0	6	43	10	1	0	55	52	1	0	0	3	34	15	2	0	10	18	23	3
5:30 PM - 5:45 PM	0	8	48	15	0	0	40	37	4	0	0	0	27	11	0	0	11	17	30	0
5:45 PM - 6:00 PM	0	11	31	10	0	0	40	36	1	1	0	2	24	9	1	0	3	12	26	0
TOTAL	**0**	**69**	**318**	**86**	**7**	**0**	**404**	**355**	**18**	**7**	**0**	**20**	**232**	**115**	**4**	**0**	**68**	**126**	**222**	**9**

	Northbound					Southbound					Eastbound					Westbound				
PEAK HOUR	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
7:00 AM - 8:00 AM	0	42	173	31	2	0	89	155	6	4	0	1	48	30	0	0	55	75	200	1
4:30 PM - 5:30 PM	0	34	158	46	6	0	232	191	9	4	0	13	130	65	3	0	35	69	119	6

	PHF	Trucks
AM	0.794	0.8%
PM	0.969	1.7%



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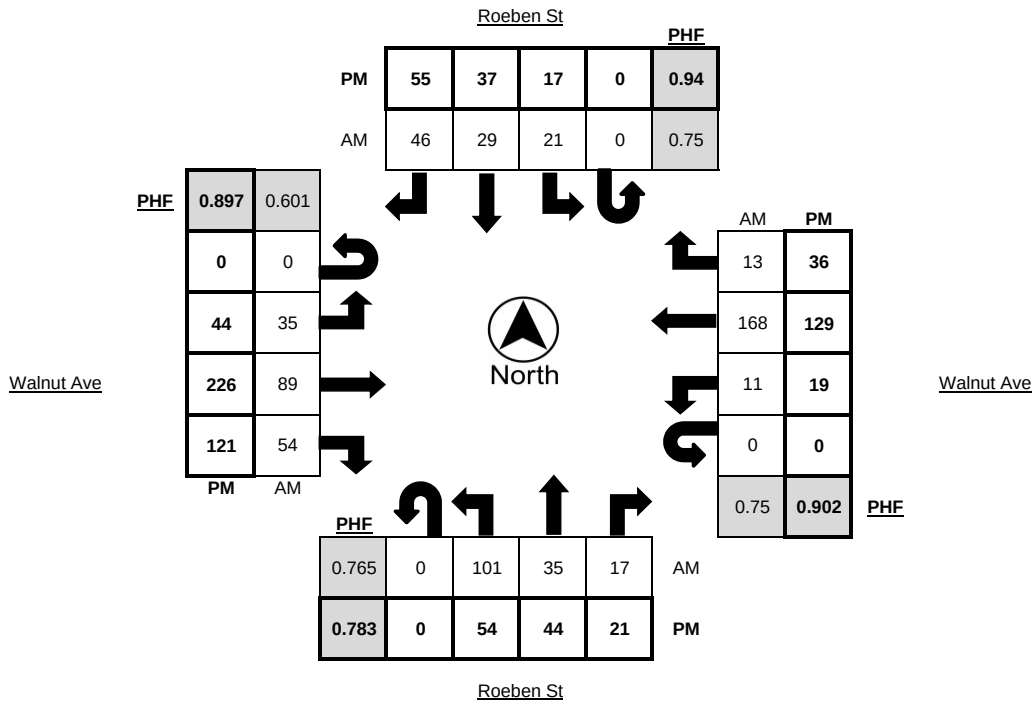
LOCATION Roeben St @ Walnut Ave
LATITUDE 36.3127
COUNTY Tulare
LONGITUDE -119.3586
COLLECTION DATE Thursday, November 02, 2023
WEATHER Clear

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
6:00 AM - 6:15 AM	0	14	0	0	0	0	0	2	0	0	0	1	6	1	0	0	1	15	1	0
6:15 AM - 6:30 AM	0	14	1	2	0	0	1	2	4	0	0	3	6	5	0	0	0	17	0	0
6:30 AM - 6:45 AM	0	19	3	1	0	0	3	3	9	0	0	0	4	5	0	0	2	35	3	0
6:45 AM - 7:00 AM	0	19	7	1	0	0	1	4	14	0	0	6	3	3	0	0	1	28	2	0
7:00 AM - 7:15 AM	0	15	4	2	0	0	4	7	10	0	0	6	16	9	0	0	3	21	2	0
7:15 AM - 7:30 AM	0	23	7	3	0	0	4	9	9	0	0	4	16	13	0	0	1	42	0	0
7:30 AM - 7:45 AM	0	33	10	6	0	0	10	7	15	1	0	4	21	15	0	0	3	57	4	3
7:45 AM - 8:00 AM	0	30	14	6	0	0	3	6	12	1	0	21	36	17	1	0	4	48	7	0
TOTAL	**0**	**167**	**46**	**21**	**0**	**0**	**26**	**40**	**73**	**2**	**0**	**45**	**108**	**68**	**1**	**0**	**15**	**263**	**19**	**3**

	Northbound					Southbound					Eastbound					Westbound				
Time	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
4:00 PM - 4:15 PM	0	6	7	2	1	0	11	9	11	0	0	12	43	17	2	0	6	40	11	0
4:15 PM - 4:30 PM	0	14	8	3	1	0	2	14	12	1	0	7	56	20	1	0	4	24	9	1
4:30 PM - 4:45 PM	0	13	7	4	0	0	6	8	13	0	0	13	53	29	1	0	3	30	2	1
4:45 PM - 5:00 PM	0	14	7	2	1	0	3	8	14	0	0	14	57	30	0	0	5	26	10	0
5:00 PM - 5:15 PM	0	24	12	2	1	0	4	8	17	0	0	10	66	27	0	0	4	38	8	0
5:15 PM - 5:30 PM	0	11	12	4	1	0	5	10	11	1	0	10	65	34	1	0	3	30	9	1
5:30 PM - 5:45 PM	0	5	13	13	0	0	5	11	13	0	0	10	38	30	0	0	7	35	9	0
5:45 PM - 6:00 PM	0	14	8	4	0	0	5	14	9	0	0	11	39	23	0	0	5	19	10	0
TOTAL	**0**	**101**	**74**	**34**	**5**	**0**	**41**	**82**	**100**	**2**	**0**	**87**	**417**	**210**	**5**	**0**	**37**	**242**	**68**	**3**

	Northbound					Southbound					Eastbound					Westbound				
PEAK HOUR	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**	**U-Turn**	**Left**	**Thru**	**Right**	**Trucks**
7:00 AM - 8:00 AM	0	101	35	17	0	0	21	29	46	2	0	35	89	54	1	0	11	168	13	3
4:45 PM - 5:45 PM	0	54	44	21	3	0	17	37	55	1	0	44	226	121	1	0	19	129	36	1

	PHF	Trucks
AM	0.759	1.0%
PM	0.913	0.7%



Traffic Accident Surveillance and Analysis System (TASAS)
Collision Data Summary

The data provided is protected by 23 U.S.C. § 407, and shall not be subject to discovery, nor admitted as evidence in any applicable legal proceeding against the State of California. By allowing the release of this information, the State of California, Department of Transportation does not waive any rights it has under 23 U.S.C. § 407.

Protected by 23 U.S.C. § 407

SR 198 PM 05.500 to PM 06.100

Table 1 summarizes collision rates for the SR 198 freeway ramps at Shirk Road interchange in the County of Tulare. The Table B reports were generated on April 17, 2024, and they depict existing collision rates per million vehicles for the most recent 36-month period from July 1, 2020, to June 30, 2023, from the Traffic Accident Surveillance and Analysis System (TASAS).

Table 1
TASAS Table B Collision Rates

06-Tul-198 PM 5.50/6.10	TOTAL No. of Collisions	ACTUAL (per million vehicles)			AVERAGE (per million vehicles)		
		Fatal Collisions	Fatal + Injury Collisions	Total (1)	Fatal Collisions	Fatal + Injury Collisions	Total (1)
PM 005.590 WB On From Shirk Road	0	0.000	0.00	0.00	0.002	0.23	0.63
PM 005.601 EB Off to Shirk Road	2	0.00	0.00	0.68	0.003	0.38	1.04
PM 005.901 EB On From Shirk Road	0	0.00	0.00	0.00	0.002	0.23	0.63
PM 005.965 WB Off to Shirk Road	0	0.00	0.00	0.00	0.003	0.38	1.04

(1) All reported collisions (includes Property Damage Only (PDO) Collisions)

Analysis of the TASAS Table B records shows 2 collisions within the EB off-ramp to Shirk Road and study periods summarized above. It reflects that the actual Fatal, Fatal + Injury, and Total collision rates are below the average for similar facilities statewide.

Detailed analysis per the TASAS Table B shows that the primary collision factors in the segment were:

- "Speeding" (2)

The types of collisions included:

- "Hit Object" (1), and
- "Rear End" (1)

The object hit in the "Hit Object" collision was reported as a dike or curb.

End of summary.
ER/CW

Protected by 23 U.S.C. § 407

PM Peak Hour Traffic Analysis

Street	2023		2023+Project Two-Way LOS		2028		2028+Project Two-Way LOS		2033 Two-Way LOS		2033+Project Two-Way LOS	
	VOL	LOS	VOL	LOS	VOL	LOS	VOL	LOS	VOL	LOS	VOL	LOS
Shirk St: Tulare Ave to Walnut Ave	722	C	753	C	854	C	870	C	1022	C	1054	C
Walnut Ave: Shirk St to Roeben St	-	C	-	C	159	C	184	C	205	C	250	C

AM Peak Hour Traffic Analysis

Street	2023		2023+Project Two-Way LOS		2028		2028+Project Two-Way LOS		2033 Two-Way LOS		2033+Project Two-Way LOS	
	VOL	LOS	VOL	LOS	VOL	LOS	VOL	LOS	VOL	LOS	VOL	LOS
Shirk St: Tulare Ave to Walnut Ave	624	C	648	C	733	C	749	C	870	C	879	C
Walnut Ave: Shirk St to Roeben St	-	C	-	C	150	C	166	C	207	C	234	C

Appendix E

Agricultural Mitigation Memo

ELLIOT PROPERTY

Agricultural Mitigation Memo

MITIGATION

Mitigation Measure AG-1: Following *Visalia Municipal Code Chapter 18.04: Agricultural Land Preservation Program,* the developer will acquire a minimum of 43.11 acres of Prime Farmland or Farmland of Statewide Importance. This land will be located in the southern San Joaquin Valley, but outside of Visalia's Sphere of Influence. This farmland will be preserved for long-term agricultural uses.

California Farmland Mapping and Monitoring Program (FMMP)

The FMMP is implemented by the California Department of Conservation (DOC) to conserve and protect agricultural lands within the State. Land is included in this program based on soil type, annual crop yields, and other factors that influence the quality of farmland. The FMMP mapping categories for the most important statewide farmland are as follows:

- *Prime Farmland* has the ideal physical and chemical composition for crop production. It has been used for irrigated production in the four years prior to classification and can produce sustained yields. 51% of the Visalia Planning Area is classified as Prime Farmland.
- *Farmland of Statewide Importance* has also been used for irrigated production in the four years prior to classification and is only slightly poorer quality than Prime Farmland. 11% of the Visalia Planning Area is classified as Farmland of Statewide Importance.
- *Unique Farmland* has been cropped in the four years prior to classification and does not meet the criteria for Prime Farmland or Farmland of Statewide Importance but has produced specific crops with high economic value. Less than 1% of the Visalia Planning Area is classified as Unique Farmland.
- *Farmland of Local Importance* encompasses farmland that does not meet the criteria for the previous three categories. These may lack irrigation, produce major crops, be zoned as agricultural, and/or support dairy. 2% of the Visalia Planning Area is classified as Farmland of Local Importance.

Visalia Municipal Code Chapter 18.04: Agricultural Land Preservation Program

Chapter 18.04 of the Visalia Municipal Code details the Agricultural Land Preservation Program (Program) in Visalia. The agricultural land preservation program intends to establish a process for the required preservation of agricultural land through the acquisition of agricultural conservation easements or the payment of an in-lieu fee for projects.

Easement Acquisition: The applicant shall convey, or arrange for the conveyance of, an area of land meeting its preserved land obligation to a qualified entity for execution of an agricultural conservation easement thereon. This shall include the conveyance of land within an agricultural land mitigation bank.

Determination of Preserved Land Obligation: The preserved land obligation shall be calculated at a ratio of one acre of preserved land for each acre of converted land. Converted land acreage shall be calculated by determining the applicable project acreage less the acreage of exclusions.

All projects authorized by the City that would result in the conversion of prime farmland or farmland of statewide importance are subject to the provisions detailed in the Program. Projects can be exempt or excluded from the Program due to:

1. *Location.* Projects, or portions thereof, located on lands that are not within the Tier II Urban Development Boundary or the Tier III Urban Growth Boundary.
2. *Size.* Projects of five acres or less in gross area. The City may disallow the use of this exemption if it finds that the subject property has been subdivided into five-acre or smaller parcels in whole or in part to avoid the preserved land obligation in accordance with this chapter.
3. *Prior Compliance.* Projects on sites that have demonstrated compliance with the provisions of this chapter for affected acreage.

Projects consistent with any of the following criteria are not subject to the provisions of this chapter and shall be excluded from the preserved land obligation Such exclusions may comprise the entire project area or may be a portion of the project area acreage. Only such portions of the project area that falls within any of the following categories shall be excluded.

1. *Farmland Designation.* Acreage not designated as prime farmland or farmland of statewide importance on the most recent Farmland Mapping and Monitoring Program (FMMP) map published by the California Department of Conservation.
2. *Farmland Designation.* Acreage that may be designated as prime farmland or farmland of statewide importance on the most recent Farmland Mapping and Monitoring Program (FMMP) map published by the California Department of Conservation but meets at least one of the following standards.
    - Land Use. The land is not currently and has not been used for irrigated agricultural production for a minimum of four consecutive calendar years.
    - Soils. The soil type is not listed on the Soil Candidate Listing for Prime Farmland and Farmland of Statewide Importance for Tulare County, as maintained by the Department of Conservation for purposes of the FMMP.
3. *Project Type or Use.* The following projects are exempt from the Program:
    - Affordable housing projects that comply with State Density Bonus Law.
    - Agricultural processing uses.
    - Agricultural buffers.
    - Public facilities.
    - Roadways.

Eligibility of Land for Easement. The preserved land shall meet all the following requirements to be eligible for placement in an agricultural conservation easement:

1. The preserved land shall be in the southern San Joaquin Valley, with preference afforded to preserved land located within 10 miles of the City limits. The preserved land must be located outside any city's limits and sphere of influence.
2. The preserved land shall be designated as prime farmland or farmland of statewide importance on the most recently published FMMP map.
3. The preserved land shall be a minimum of 20 contiguous acres in size.
4. The preserved land shall be zoned and planned for agricultural uses consistent with the purposes of an agricultural conservation easement.
5. The preserved land shall have at least one verified source of water.
6. The preserved land shall not be encumbered by any use or structure that would be incompatible with the purpose of the agricultural conservation easement. Such uses shall be deducted from the total acreage being preserved.

Eligibility of In-Lieu Fee Payment. To be eligible for payment of an in-lieu fee to satisfy the preserved land obligation, either of the following standards must be met.

1. The total preserved land obligation is less than 20 acres.
2. If the total preserved land obligation is 20 acres or more, the applicant must demonstrate at least one of the following to the satisfaction of the City:
    a. No qualified entity exists;
    b. The applicant has met with all qualified entities and all such entities are unable or unwilling to assist with the acquisition of an agricultural conservation easement, as certified in writing to the City; or
    c. Working with a qualified entity, the applicant has made at least one good faith offer to purchase an agricultural conservation easement, but any and all such offers have been declined by the potential seller, as certified in writing to the City.

City of Visalia General Plan

The 2030 General Plan includes the policies related to agricultural resources that correlate to the proposed Project:

- *LU-P-14*: Recognize the importance of agriculture-related business to the City and region, and support the continuation and development of agriculture and agriculture related enterprises in and around Visalia by:
    - Implementing growth boundaries and cooperating with the County on agricultural preservation efforts;
    - Accommodating agriculture-related industries in industrial districts;
    - Facilitating successful farmers' markets;
    - Helping to promote locally grown and produced agricultural goods, and the image of Visalia and Tulare County as an agricultural region.
- *LU-P-19*: Ensure that growth occurs in a compact and concentric fashion by implementing the General Plan's phased growth strategy.

- *LU-P-21*: Allow annexation and development of residential, commercial, and industrial land to occur within the Tier II UDB and the Tier III Urban Growth Boundary consistent with the City's Land Use Diagram, according to the stated phasing thresholds.
- *LU-P-30*: Maintain greenbelts, or agricultural/open space buffer areas, between Visalia and other communities by implementing growth boundaries and working with Tulare County and land developers to prevent premature urban growth north of the St. Johns River and in other sensitive locations within the timeframe of this General Plan.
- *LU-P-31*: Promote the preservation of permanent agricultural open space around the City by protecting viable agricultural operations and land within the City limits in the airport and wastewater treatment plant environs.
- *LU-P-32*: Continue to maintain a 20-acre minimum for parcel map proposals in areas designated for Agriculture to encourage viable agricultural operations in the Planning Area.
- *OSC-P-27*: To allow efficient cultivation, pest control and harvesting methods; require buffer and transition areas between urban development and adjoining or nearby agricultural land.
- *OSC-P-28*: Require new development to implement measures, as appropriate, to minimize soil erosion related to grading, site preparation, landscaping, and construction.

Tulare County General Plan

The 2030 Tulare County General Plan contains following policies related to agricultural resources that correlate to the proposed project:

- *AG-1.1*: The County shall maintain agriculture as the primary land use in the valley region of the County, not only in recognition of the economic importance of agriculture, but also in terms of agriculture's real contribution to the conservation of open space and natural resources.
- *AG-1.6*: The County shall consider developing an Agricultural Conservation Easement Program (ACEP) to help protect and preserve agricultural lands (including "Important Farmlands"), as defined in this Element. This program may require payment of an in-lieu fee sufficient to purchase a farmland conservation easement, farmland deed restriction, or other farmland conservation mechanism as a condition of approval for conservation of important agricultural land to non-agricultural use. If available, the ACEP shall be used for replacement lands determined to be of statewide significance (Prime or other Important Farmlands), or sensitive and necessary for the preservation of agricultural land, including land that may be a part of a community separator as part of a comprehensive program to establish community separators. The in-lieu fee or other conservation mechanism shall recognize the importance of land value and shall require equivalent mitigation.
- *AG*-1.7: The County shall promote the preservation of its agricultural economic base and open space resources through the implementation of resource management programs such as the Williamson Act, Rural Valley Lands Plan, Foothill Growth Management Plan or similar types of strategies and the identification of growth boundaries for all urban areas located in the County.
- *AG-1.8*: The County shall not approve applications for preserves or regular Williamson Act contracts on lands located within a UDB and/or HDB unless it is demonstrated that the restriction of such land will not detrimentally affect the growth of the community involved for the succeeding 10 years, that the property in question has special public values for open space, conservation, other comparable uses, or that the contract is consistent with the publicly

desirable future use and control of the land in question. If proposed within a UDB of an incorporated city, the County shall give written notice to the affected city pursuant to Government Code §51233.

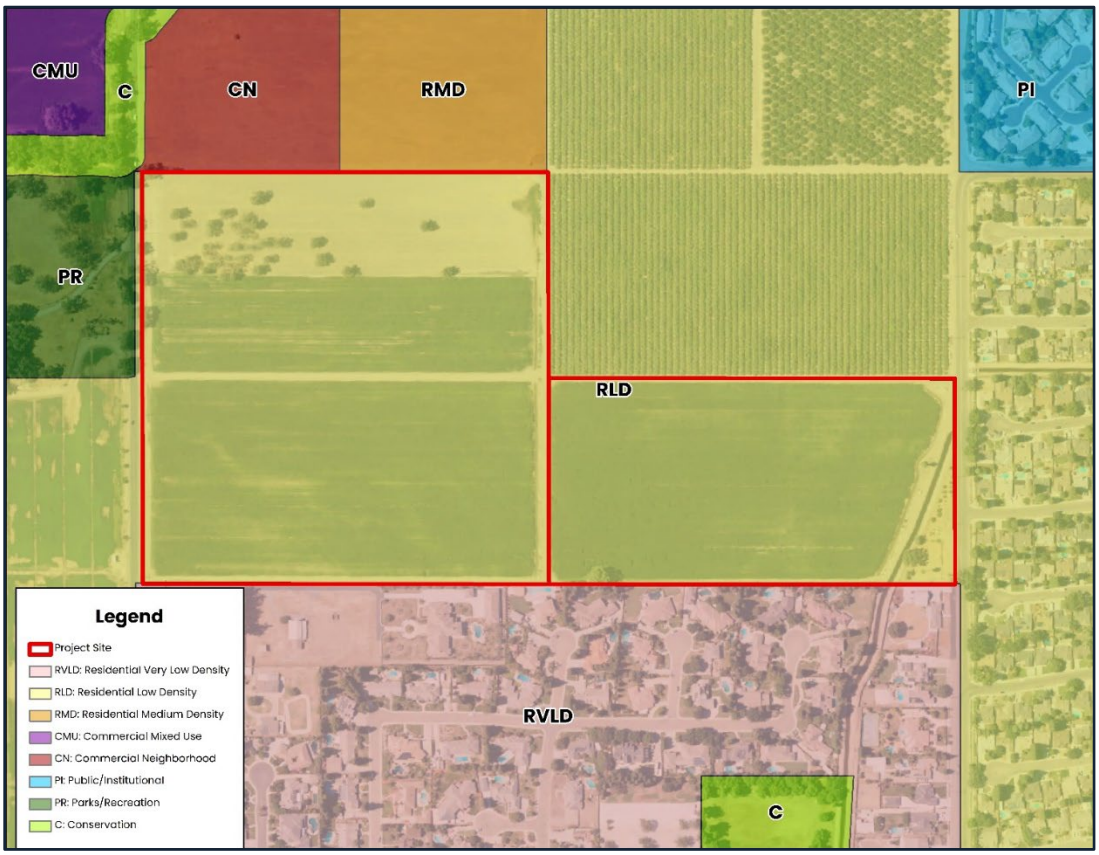
- *AG-1.10*: The County shall oppose extension of urban services, such as sewer lines, water lines, or other urban infrastructure, into areas designated for agriculture use unless necessary to resolve a public health situation. Where necessary to address a public health issue, services should be located in public rights-of-way in order to prevent interference with agricultural operations and to provide ease of access for operation and maintenance. Service capacity and length of lines should be designed to prevent the conversion of agricultural lands into urban/suburban uses.
- *AG-1.11*: The County shall examine the feasibility of employing agricultural buffers between agricultural and non-agricultural uses, and along the edges of UDBs and HDBs. Considering factors include the type of operation and chemicals used for spraying, building orientation, planting of trees for screening, location of existing and future rights-of-way (roads, railroads, canals, power lines, etc.), and unique site conditions.
- *LU-1.8*: The County shall encourage and provide incentives for infill development to occur in communities and hamlets within or adjacent to existing development in order to maximize the use of land within existing urban areas, minimize the conversion of existing agricultural land, and minimize environmental concerns associated with new development.
- *LU-2.1*: The County shall maintain agriculturally-designated areas for agriculture use by directing urban development away from valuable agricultural lands to cities, unincorporated communities, hamlets, and planned community areas where public facilities and infrastructure are available.
- *PF-1.2*: The County shall ensure that urban development only takes place in the following areas:
    - Within incorporated cities and CACUDBs
    - Within the UDBs of adjacent cities in other counties, unincorporated communities, planned community areas, and HDBs of hamlets
    - Within foothill development corridors as determined by procedures set forth in Foothill Growth Management Plan
    - Within areas set aside for urban use in the Mountain Framework Plan and the mountain sub-area plans; and
    - Within other areas suited for non-agricultural development, as determined by the procedures set forth in the Rural Valley Lands Plan.
- *PF-1.3*: The County shall encourage those types of urban land uses that benefit from urban services to develop within UDBs and HDBs. Permanent uses which do not benefit from urban services shall be discouraged within these areas. This shall not apply to agricultural or agricultural support uses, including the cultivation of land or other uses accessory to the cultivation of land provided that such accessory uses are time-limited through Special Use Permit procedures.
- *PF-1.4*: The County shall encourage urban development to locate in existing UDBs and HDBs where infrastructure is available or may be established in conjunction with development. The County shall ensure that development does not occur unless adequate infrastructure is available, that sufficient water supplies are available or can be made available, and that there are adequate provisions for long term management and maintenance of infrastructure and identified water supplies.

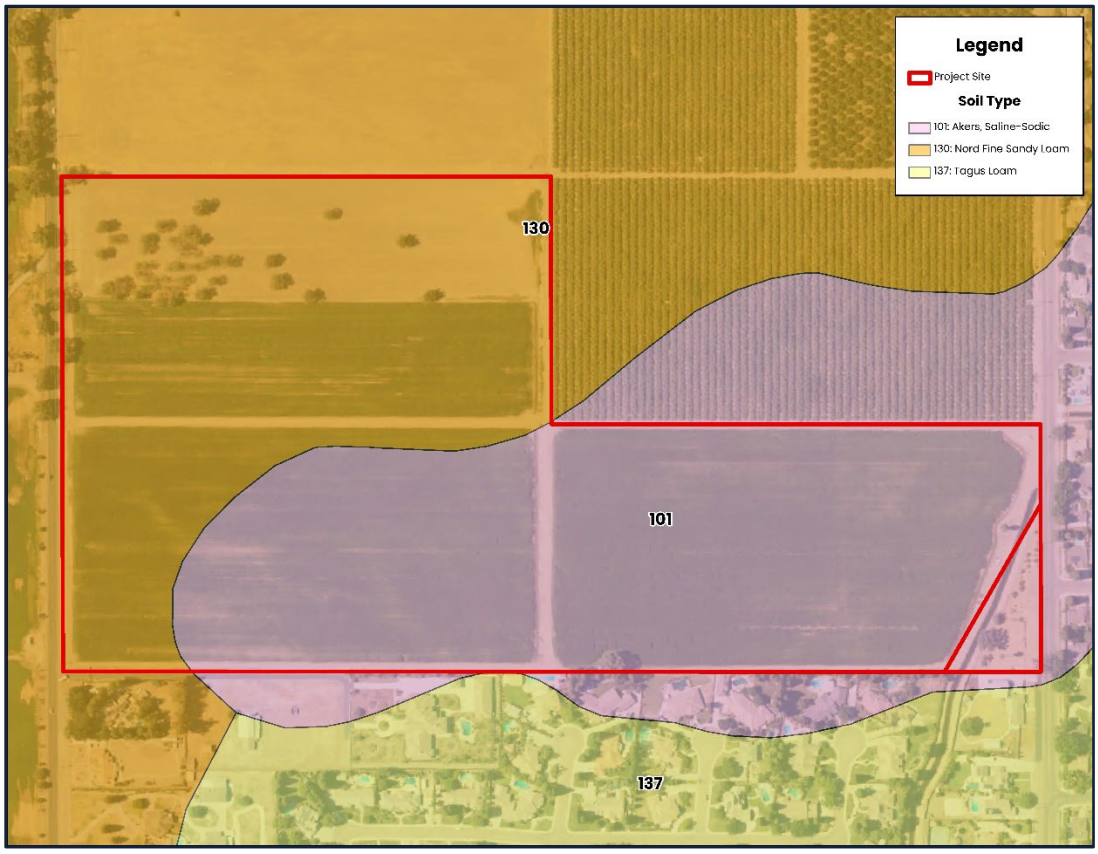
EXISTING FARMLAND

The proposed Project Site is located within the City of Visalia Planning Area in Tulare County. The Site is west of S Roeben Street, east of S Shirk Road, and south of Tulare Street. The Site is approximately 3.5 miles southwest of the Visalia downtown. The Project involves construction on APNs 087-010-006 and 087-010-008. The Site is topographically flat, with agricultural uses to the north and west and single-family housing to the south and east. The Site is zoned AE-20 (Exclusive Agriculture, 20 Acre Minimum Site Area) by Tulare County but will be zoned R-1-5, Single Family Residential, 5,000 square foot minimum site area, by the City of Visalia, pending annexation. The Visalia General Plan Designation is Low-Density Residential. The Site contains agricultural uses, vacant land, and an oak grove.

The site is 59.13 acres in total. 57.82 acres are designated as Prime Farmland by the 2018 FMMP. The remaining 1.31 acres are designated as Urban and Built-Up Land. Although the site is mostly Prime Farmland, it is designated for Low-Density Residential uses by the Visalia General Plan. The proposed project will follow this designation.

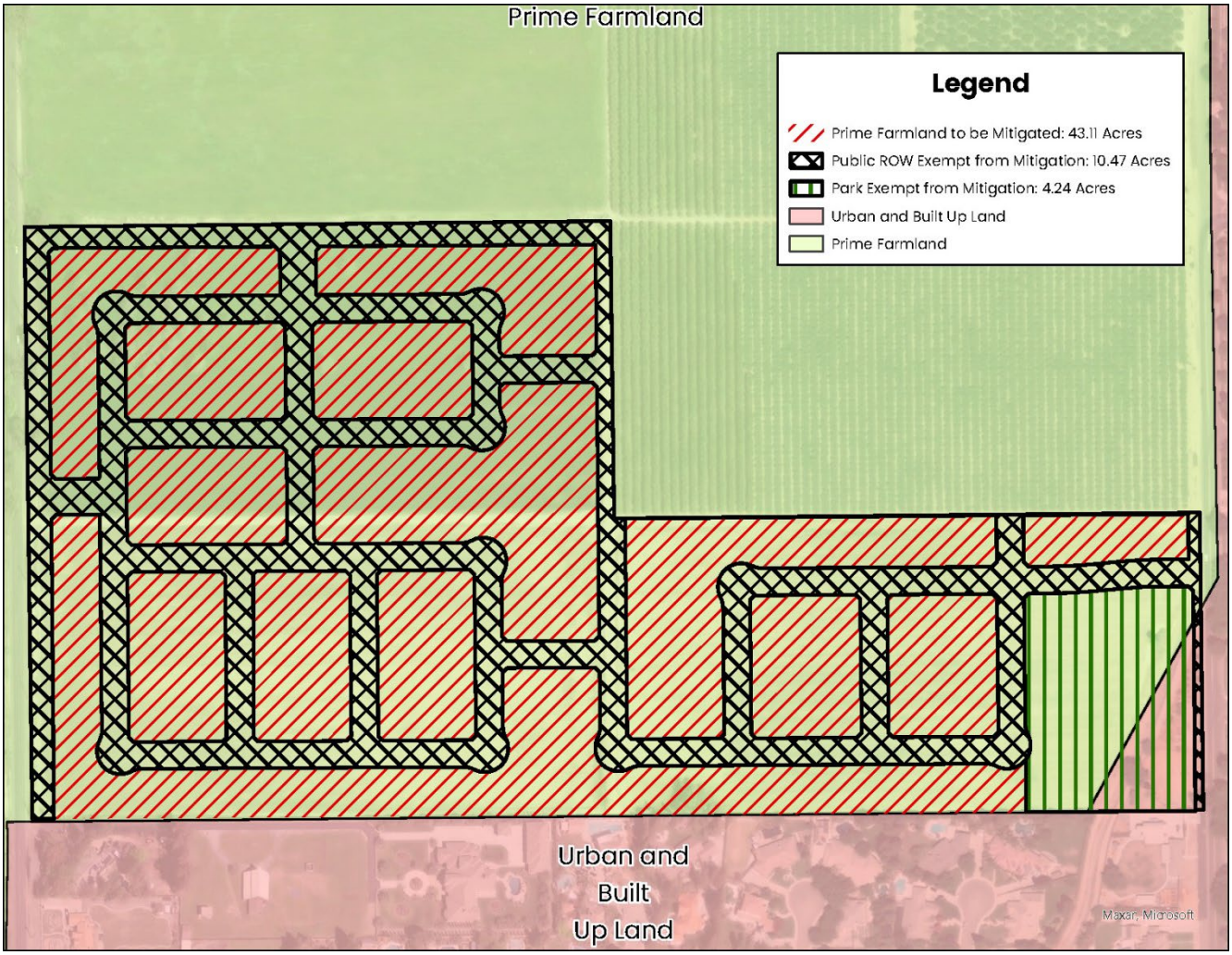
Visalia is planning for growth in this area due to its proximity to similar uses. Single-family homes currently exist to the east and south of the site. Farmland currently exists to the north and west of the site, however, these farmlands are designated as Low-Density Residential, Medium Density Residential, Neighborhood Commercial, and Parks/Recreation by the Visalia General Plan. The site borders the existing Visalia City boundaries to the east and is located within Visalia's Tier 2 Urban Development Boundary. These factors, along with the existing infrastructure and development in the surrounding area, make this site an ideal location for annexation and new development.


CMU
C
CN
RMD
PI
PR
RLD
RVLD
C
Legend
Project Site
RVLD: Residential Very Low Density
RLD: Residential Low Density
RMD: Residential Medium Density
CMU: Commercial Mixed Use
CN: Commercial Neighborhood
PI: Public/Institutional
PR: Parks/Recreation
C: Conservation


Legend
Project Site
Soil Type
101: Akers, Saline-Sodic
130: Nord Fine Sandy Loam
137: Tagus Loam
130
101
137

MITIGATED FARMLAND

The Project Site is not exempt from the Program. The Site is within the Tier 2 UBD and is larger than five acres. Following the Program's policies, the 1.31 acres designated as Urban and Built-up land will be exempt. The remaining 57.82 acres are Prime Farmland, which has been used for irrigated agricultural production in the past four years. However, of these 57.82 acres, 10.47 will be roadways and 4.24 acres will be a public park. According to the Program, public facilities, including roadways and parks, are excluded from the mitigation. The remaining 43.11 acres will need to be mitigated.



The farmland for the mitigation would follow all requirements set out in the Visalia Municipal Code Chapter 18.04. This includes:

1. The preserved land will be in the southern San Joaquin Valley and will be outside Visalia's City Limits/Sphere of Influence.
2. The preserved land will designated as prime farmland.
3. The preserved land shall be a minimum of 20 contiguous acres in size.
4. The preserved land will be zoned and planned for agricultural uses consistent with the purposes of an agricultural conservation easement.
5. The preserved land will have at least one verified source of water.

6. The preserved land will not be encumbered by any use or structure that would be incompatible with the purpose of the agricultural conservation easement.

IMPACTS OF PROJECT

The Project Site is currently occupied by agricultural land with field crops. Implementation of the proposed Project would result in the permanent conversion of approximately 57.82 acres of Prime Farmland to non-agricultural uses.

The loss of Prime Farmland on the Project Site would result in the decrease of Important Farmland inventory in the Visalia Planning Area. The Visalia Planning Area currently has an Important Farmland inventory of 43,155 acres, 33,991 acres of which were categorized as Prime Farmland. Implementation of the Project would convert 57.82 acres of Prime Farmland, which would result in a 0.13 percent decrease in the total Important Farmland inventory of the Visalia Planning Area and a 0.17 percent decrease in the Prime Farmland inventory.

Mitigation Measure AG-1 will secure 43.11 acres of permanent Prime Farmland outside of Visalia's development boundaries to reduce this impact.

BENEFITS OF PROJECT AND MITIGATION

While the Project will impact the farmland inventory, it will bring benefits to Visalia. The Project will add new housing close to the existing City. This will reduce the need for housing further away, which would potentially add transportation and infrastructure impacts. Additionally, separating farmland from existing residential neighborhoods is ideal for both the farmland and neighborhoods. It will reduce the amount of noise in the neighborhoods and reduce the potential for pollution on the farmland. This Project and mitigation will secure permanent farmland outside of Visalia's development boundaries. This will ensure that the agricultural uses will exist long-term and will not be impacted in the future.

ALTERNATIVES

Reduced Project Size

To remain under the Program's requirements, the Project would need to develop on less than 20 acres of Prime Farmland. If only 20 acres of the Prime Farmland were developed, the Project would be reduced to approximately 76 homes. This will reduce the amount of available housing in Visalia. This will not help Visalia's housing goals and will lead to development in other areas.

No Project

The No Project alternative would leave the site as it currently is. This would preserve the existing Prime Farmland; however, it would not add housing to Visalia. This will not help Visalia's housing goals and will lead to development in other areas. As previously discussed, this is an ideal location for new development and annexation into the City of Visalia. If the onsite farmland is preserved, it will eventually be surrounded by new development due to General Plan land designations and Visalia's housing demands.

Appendix F

Biochemical Oxygen Demand and Total Suspended Solids Calculations

April 5, 2024
Community Development Department
Planning Department
315 E. Acequia Ave.
Visalia, CA 93291

Re: Elliott Subdivision – Biochemical Oxygen Demand and Total Suspended Solids Calculations

To Whom It May Concern,

We have prepared the calculations below using the best available standards and practices that were able to find. Our calculations reference a report prepared by Provost and Prichard titled Local Discharge Limits Development, that was prepared for the City of Visalia in March 2011, see Appendix A. We have also utilized the City of Visalia's Sewer Master Plan, December 2005, to calculate an assumed volume of effluent for the proposed project. See below for the equation that will be utilized to calculate the assumed BOD and TSS that will be generated by the proposed project.

Equation 1 – AHL based on WDR limits

$$AHL_{wdr} = \frac{(8.34)(C_{wdr})(Q_{wwtf})}{(1-R_{wwtf})}$$

Where:

AHL_{wdr} = AHL based on WDR limit, lb/day
C_{wdr} = WDR permit limit, mg/L
Q_{wwtf} = WWTF average flow rate, MGD
R_{wwtf} = Plant removal efficiency, as decimal
8.34 = Conversion factor

Table 3-2 shows the allowable headworks loading for the POCs based upon the limitations contained in the WDR.

Table 3-2: WDR Based AHLs

Pollutant	WWTF Flow (MGD) (Qwwtf)	WDR Limit (mg/l) (Cwdr)	Select Removal Efficiency (from list)	Removal Efficiency (%) (Rwwtf)	Allowable Headworks (lbs/day)
Lead	12.18	0.05	User Entered	62.19	13.434
Ammonia	12.18	25	User Entered	43.89	4525.7652
BOD	12.18	30	User Entered	98.81	256354.5218
TSS	12.18	30	User Entered	98.65	226555.1037

324 S Santa Fe St Suite A
Visalia, CA 93292
559-802-3052
info@4-creeks.com

Elliott Subdivision is a new project being proposed by San Joaquin Valley Homes. The project is Located on Shirk Street, south of Highway 198. The project is proposing to develop 60 Gross Acres into a residential subdivision. Using Table 3.4 from the City of Visalia's Sewer Master Plan, the expected flow rates can be calculated using the Adjusted Flow Coefficients that have been provided.

Table 3.4 Average Sewer Flow Coefficients
Sewer System Master Plan
City of Visalia

Land Use Designation	Land Use Code	Urban Development Boundary [1,2] (ga)	Existing Sewered Service Area [3,4] (ga)	% of Total Service Area (%)	1994 Flow Coeff [5] (gpd/ga)	Calculated Flows (gpd)	Adjusted Flow Coefficient (gpd/ga)	2003 ADWF Balance (gpd)	% of Total ADWF (%)
Residential									
Rural	RA	1,007	413	2%	500	206,390	400	165,112	1%
Low Density	RLD	14,138	8,423	43%	1,000	8,422,750	800	6,738,200	55%
Medium Density	RMD	879	536	3%	1,800	964,296	1,300	696,436	6%
High Density	RHD	315	165	1%	2,500	413,200	2,000	330,560	3%
Commercial									
Commercial	COM	3,499	2,183	11%	1,000	2,183,180	650	1,419,067	12%

Table 1: Breakdown of Land Use for Phase 1

Land Use	Acreage	Adjusted Flow Coefficient	Expected Flow	Unit
Low Density Residential	60	800	48000	GPD
			Total Expected Flow: 48000 GPD	

Utilizing the equation and coefficients previously provided, we can calculate BOD as Follows:

$$AHL_{wdr} = \frac{(8.34)(C_{wdr})(Q_{wwtf})}{(1 - R_{wwtf})}$$

Where:

$$C_{wdr} = 30$$
$$Q_{wwtf} = .048\ MGD$$
$$R_{wwtf} = .9881$$

$$\boldsymbol{BOD = 1009.21\ Lb/Day}$$

Utilizing the equation and coefficients previously provided, we can calculate TSS as Follows

$$AHL_{wdr} = \frac{(8.34)(C_{wdr})(Q_{wwtf})}{(1 - R_{wwtf})}$$

Where:

$$C_{wdr} = 30$$
$$Q_{wwtf} = .048\ MGD$$
$$R_{wwtf} = .9865$$

$$\boldsymbol{TSS = 889.60\ Lb/Day}$$

Please review the calculations provided and if there are any additional questions or information needed, please feel free to contact me at (559)802-3052.

Jonathan J. Frausto
Project Manager

324 S Santa Fe St Suite A
Visalia, CA 93292

559-802-3052
info@4-creeks.com

Appendix A

324 S Santa Fe St Suite A
Visalia, CA 93292

559-802-3052
info@4-creeks.com

Department of Toxic Substances Control

Yana Garcia
Secretary for
Environmental Protection

Meredith Williams, Ph.D.
Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Gavin Newsom
Governor

SENT VIA ELECTRONIC MAIL

July 03, 2024

Cristobal Carrillo
Associate Planner
City of Visalia, Planning & Community Preservation Department
315 E. Acequia Avenue
Visalia. CA 93291
cristobal.carrillo@visalia.city

RE: MITIGATED NEGATIVE DECLARATION FOR THE ANNEXATION NO. 2024-01 AND ELLIOTT TENTATIVE SUBDIVISION MAP NO. 5597 PROJECT DATED JUNE 27, 2024, STATE CLEARINGHOUSE NUMBER 2024061280

Dear Cristobal Carrillo,

The Department of Toxic Substances Control (DTSC) received a Mitigated Negative Declaration for the Annexation No. 2024-01 and Elliott Tentative Subdivision Map No. 5597 project (project). The proposed project is divided into two parts. The first part is the Annexation No. 2024-01 requested by Jonathan Frausto/San Joaquin Valley Homes to annex two parcels totaling approximately 59.13-acres into the city limits of Visalia. Upon annexation the area would be zoned R-1-5 (Single-Family Residential, 5,000 square foot minimum site area), which is consistent with the General Plan Land Use Designation of Residential Low Density. Secondly, the Elliot Tentative Subdivision Map No. 5597: requested by Jonathan Frausto/San Joaquin Valley Homes to subdivide two parcels totaling approximately 59.13-acres into 225 lots for single-family residential use

and additional out lots for landscaping and a neighborhood park, to be located within the R-1-5 (Single-Family Residential, 5,000 square foot minimum site area) zone.

After reviewing the Project, DTSC recommends and requests consideration of the following comments:

1. When agricultural crops and/or land uses are proposed or rezoned for residential use, a number of contaminants of concern (COCs) can be present. The Lead Agency shall identify the amounts of Pesticides and Organochlorine Pesticides (OCPs) historically used on the property. If present, OCPs requiring further analysis are Dichlorodiphenyltrichloroethane, toxaphene, and dieldrin. Additionally, any level of arsenic present would require further analysis and sampling and must meet HHRA NOTE NUMBER 3, DTSC-SLs approved thresholds. If they are not, remedial action must take place to mitigate them below those thresholds.
2. Additional COCs may be found in mixing/loading/storage areas, drainage ditches, farmhouses, or any other outbuildings and should be sampled and analyzed. If smudge pots had been routinely utilized, additional sampling for Polycyclic Aromatic Hydrocarbons and/or Total Petroleum Hydrocarbons may be required
3. If buildings or other structures are to be demolished on any project sites included in the proposed project, surveys should be conducted for the presence of lead-based paints or products, mercury, asbestos containing materials, and polychlorinated biphenyl caulk. Removal, demolition, and disposal of any of the above-mentioned chemicals should be conducted in compliance with California environmental regulations and policies. In addition, sampling near current and/or former buildings should be conducted in accordance with DTSC's Preliminary Endangerment Assessment (PEA) Guidance Manual.
4. DTSC recommends that all imported soil and fill material should be tested to assess any COCs meet screening levels as outlined in the PEA Guidance Manual. Additionally, DTSC advises referencing the DTSC Information

Advisory Clean Imported Fill Material Fact Sheet if importing fill is necessary. To minimize the possibility of introducing contaminated soil and fill material there should be documentation of the origins of the soil or fill material and, if applicable, sampling be conducted to ensure that the imported soil and fill material are suitable for the intended land use. The soil sampling should include analysis based on the source of the fill and knowledge of the prior land use. Additional information can be found by visiting DTSC's Human and Ecological Risk Office (HERO) webpage.

DTSC appreciates the opportunity to comment on the MND for the Annexation No. 2024-01 and Elliott Tentative Subdivision Map No. 5597 project. Thank you for your assistance in protecting California's people and environment from the harmful effects of toxic substances. If you have any questions or would like clarification on DTSC's comments, please respond to this letter or via email for additional guidance.

Sincerely,

Tamara Purvis

Tamara Purvis
Associate Environmental Planner
HWMP - Permitting Division – CEQA Unit
Department of Toxic Substances Control
Tamara.Purvis@dtsc.ca.gov

cc: (via email)

Governor's Office of Planning and
Research State Clearinghouse
State.Clearinghouse@opr.ca.gov

Steven Macias
Engineering Manager - Project Applicant
San Joaquin Valley Homes
smacias@sjvhomes.com

Jonathan Frausto
Project Manager
4Creeks Consulting Firm
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Scott Wiley
Associate Governmental Program Analyst
HWMP - Permitting Division – CEQA Unit
Department of Toxic Substances Control
Scott.Wiley@dtsc.ca.gov

California Department of Transportation

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July 16, 2024

TUL-198-5.927
MND/IS
ELLIOT SUBDIVISION
TENTATIVE SUBDIVISION MAP #5597
GTS: 02833

SENT VIA EMAIL

Mr. Cristobal Carrillo, Associate Planner
City of Visalia, Planning and
Community Preservation Dept. - Planning Division
315 East Acequia Avenue
Visalia, CA 93291

Dear Mr. Carrillo:

Thank you for the opportunity to review the Mitigated Negative Declaration/Initial Study (MND/IS) for the Elliot Subdivision proposing to divide 59.13 acres into 225 residential units (Project). The Project is located on the south side of Tulare Avenue, between Road 92 (Shirk Road) and Roeben Street, approximately ½ mile south of the State Route (SR) 198/Road 92 (Shirk Road) interchange, in the City of Visalia.

Caltrans provides the following comments consistent with the State's smart mobility goals that support a vibrant economy and sustainable communities:

1. The MND Transportation section XVII, (pg. 3-114) identifies that a Traffic Impact Study (TIS) was prepared for the Project in Appendix D of the MND and concluded that the Project would not result in a significant increase in vehicle or truck trips. Table 3-18 in the MND shows the estimated vehicle trips generated for the Project is expected to generate approximately 2,119 daily trips, including 155 AM peak hour trips (39 inbound, 116 outbound) and 212 PM peak hour trips (134 inbound, 78 outbound).

2. Caltrans reviewed and provided comments on the TIS in a letter dated June 13, 2024, submitted to the City.

3. The MND includes the mitigation measures TRAN-1 that indicates based on the results of the Level of Service (LOS) analysis and the eight-hour vehicular volume warrants, *signals* shall be constructed at three intersections by 2028 to operate at an acceptable level of service by year 2033. The Project will pay its fair share of

traffic impact fees for the signals at the following intersections:

a. Shirk Street and SR 198 WB Ramps.

b. Shirk Street and SR 138 EB Ramps. (*Please note that the State Route indicated needs to be revised from SR 138 to SR 198*)

c. Shirk Street and Walnut Avenue.

4. An evaluation of Project vehicle miles traveled (VMT) was conducted based on VMT analysis guidelines adopted by the City of Visalia. The guidelines provide "screening thresholds" for identifying whether a land use project should be expected to result in a less than significant transportation impact under CEQA. Projects meeting one or more of these criteria would not be required to undergo a detailed VMT analysis. One of the screening criteria is "Project Location Screening". Development projects that are in a low VMT zone would be expected to generate similar low vehicle miles travelled. Using the City of Visalia online VMT screening application, the project was determined to be in TAZ 1358. Utilizing the "VMT Per Capita" metric due to residential project, the average VMT was determined to be 8.61 miles per capita. The average VMT per service population for Tulare County is 11.9. Therefore, the project is determined to be in a low VMT zone, and the project would be expected to result in a less than significant transportation impact under CEQA, per MND Figures 3-8 and 3-9.

5. Regarding signalization of any State Highway System ramp intersection, it is Caltrans policy to analyze all potential intersection improvement solutions. An Intersection Control Evaluation (ICE) report is required for any proposed intersection improvement, in accordance with Traffic Operations Policy Directive No. 13-02, dated: August 30, 2013. The TOPD #13-02 can be found at (Traffic Operations Policy Directive (TOPD) 13-02, Intersection Control Evaluation (ICE).

6. Please note that any new project that may require employing full control at state highway intersections (i.e. to control all approaching traffic via use of signal, stop or yield control) must consider all three intersection control strategies (stop, roundabout and signal) and the supporting design configurations per the Intersection Control Evaluation (ICE) guidelines. ICE establishes a context and performance-based evaluation process to produce engineering recommendations on intersection traffic control strategies and geometric configurations for location specific needs and conditions. The first step of the ICE process will constitute conceptual approval by Caltrans Traffic Operations Office. The project opening day mitigation at an intersection must be evaluated per the ICE procedure. This new policy will affect the engineering process to determine the intersection improvement on State Route (SR) 198. The ICE requirements can be found on the Caltrans website: https://dot.ca.gov/programs/traffic-operations/ice (ICE Process

Information Guide (PDF).

7. As a point of information, any work completed in the State's right-of-way will require a Caltrans encroachment permit. An encroachment permit must be obtained for all proposed activities for placement of encroachments within, under or over the State highway rights-of-way. Activity and work planned in the State right-of-way shall be performed to State standards and specifications, at no cost to the State. Engineering plans, calculations, specifications, and reports (documents) shall be stamped and signed by a licensed Engineer or Architect. Engineering documents for encroachment permit activity and work in the State right-of-way may be submitted using English Units. The Permit Department and the Environmental Planning Branch will review and approve the activity and work in the State right-of-way before an encroachment permit is issued. The Streets and Highways Code Section 670 provides Caltrans discretionary approval authority for projects that encroach on the State Highway System. Encroachment permits will be issued in accordance with Streets and Highway Codes, Section 671.5, "Time Limitations." Encroachment permits do not run with the land. A change of ownership requires a new permit application. Only the legal property owner or his/her authorized agent can pursue obtaining an encroachment permit.

8. Prior to an encroachment permit application submittal, the project proponent is required to schedule a "Pre-Submittal" meeting with District 6 Encroachment Permit Office. To schedule this meeting, please call the Caltrans Encroachment Permit Office - District 6: 1352 W. Olive, Fresno, CA 93778, **at (559) 383-5047 or (559) 383-5235.**

9. **Please review the permit application - required document checklist at:** https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=TR0402&distpath=MAOTO&brapath=PERM.

10. **Please also review the permit application - processing checklist at:** https://dot.ca.gov/programs/traffic-operations/ep, **and the** Applicant's Check List to determine appropriate review process (form TR-0416) (Rev 01/23) **at:** https://forms.dot.ca.gov/v2Forms/servlet/FormRenderer?frmid=DOTTR0416

If you have any other questions, please call me at (559) 981-1041.

Sincerely,

David Deel

Mr. David Deel, Acting Branch Chief, Transportation Planning – South

California Department of Transportation

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June 13, 2024

TUL-198-5.927
SPR #23131
ELLIOT SUBDIVISION
TRAFFIC IMPACT STUDY (REVISED APRIL 2024)
GTS: 02833

SENT VIA EMAIL

Mr. Cristobal Carrillo, Associate Planner
City of Visalia, Planning and
Community Preservation Dept. - Planning Division
315 East Acequia Avenue
Visalia, CA 93291

Dear Mr. Carrillo:

Thank you for the opportunity to review the Traffic Impact Study (TIS) revised April 2024 proposing to divide 59.13 acres into 224 residential units (Project). The Project is located on the south side of Tulare Avenue, between Road 92 and Roeben Street, approximately ½ mile from the State Route (SR) 198/Road 92 interchange, in the City of Visalia.

Caltrans provides the following comments consistent with the State's smart mobility goals that support a vibrant economy and sustainable communities:

1. In Table 5a (Analysis of PM Queue Length) and Table 5b (Analysis of AM Queue Length), it's observed that the WBL movement shows identical volume and queue values during both AM and PM peak hours. Please verify the volumes for each scenario and make any necessary revisions to the tables accordingly.

2. On page 24, second sentence in 2nd paragraph, the TIS states, "In all cases future 2028 background traffic exceed the storage length prior to the addition of project traffic." Based on Tables 5a and 5b, this statement appears incorrect. The tables appear to indicate for year 2028, there is sufficient storage length for the background traffic prior to the addition of Project traffic. Please verify and correct as needed. Please resubmit the updated TIS to Caltrans for review.

3. Caltrans has processed the Safety Crash Data Request received from the Project consultant. The consultant should now use the provided crash data to complete the safety review, as mentioned in our previous letter, dated March 22, 2024. The safety review should identify and analyze any potential safety impacts due to the increased conflicts. The safety review should include, but is not limited to, the following: conflict avoidance (weaving, existing maneuvers), correlation between collisions and design

standards such as widths and alignment, separation of vulnerable road users from vehicle traffic, and prevention of wrong-way driving. The safety review should be included within the TIS. Please submit the updated TIS for Caltrans review.

4. Alternative transportation policies should be applied to the development. An assessment of multi-modal facilities should be conducted to develop an integrated multi-modal transportation system to serve and help alleviate traffic congestion caused by the project and related development in this area of the City. The assessment should include the following:

   a. Pedestrian walkways should link this proposal to an internal project area walkway, transit facilities, as well as other walkways in the surrounding area.

   b. The Project might also consider coordinating connections to local and regional bicycle pathways to further encourage the use of bicycles for commuter and recreational purposes.

   c. If transit is not available within ¼-mile of the site, transit should be extended to provide services to what will be a high activity center.

5. Caltrans recommends the Project implement "smart growth" principles regarding parking solutions, providing alternative transportation choices to residents and employees. Alternative transportation choices may include but are not limited to parking for carpools/vanpools, car-share and/or ride-share programs. Active Transportation Plans and Smart Growth efforts support the state's 2050 Climate goals.

6. Caltrans supports reducing Vehicle Miles Traveled (VMT) and Green House Gas (GHG) emissions in ways that increase the likelihood people will use and benefit from a multimodal transportation network. Based on Caltrans VMT-Focused Transportation Impact Study Guide, dated May 20, 2020, and effective as of July 1, 2020, Caltrans seeks to reduce single occupancy vehicle trips, provide a safe transportation system, reduce per capita Vehicle Miles Traveled (VMT), increase accessibility to destinations via cycling, walking, carpooling, transit and reduce greenhouse gas (GHG) emissions. Caltrans recommends that the project proponent continue to work with the City or County to further implement improvements to reduce vehicles miles traveled and offer a variety of transportation modes for its employees.

If you have any other questions, please call me at (559) 981-1041.

Sincerely,

David Deel

Mr. David Deel, Acting Branch Chief, Transportation Planning – South

California Department of Transportation

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March 22, 2024

TUL-198-5.927
SPR #23131
ELLIOT SUBDIVISION
TRAFFIC IMPACT STUDY
GTS: 02833

SENT VIA EMAIL

Ms. Susan Currier – Senior Administrative Assistant
City of Visalia
315 East Acequia Avenue
Visalia, CA 93291

Dear Ms. Currier:

Thank you for the opportunity to review the Traffic Impact Study (TIS) proposing to divide 59.13 acres into 224 residential units (Project). The Project is located on the south side of Tulare Avenue, between Road 92 and Roeben Street, approximately 0.5 miles from State Route (SR) 198 on and off-ramps at Road 92, in the City of Visalia.

Caltrans provides the following comments consistent with the State's smart mobility goals that support a vibrant economy and sustainable communities:

1. Caltrans requests the Project to provide queuing analysis for the westbound left-turn movement at the westbound SR 198 off-ramp for Table 5a – PM Queue Length Analysis.

2. According to the Caltrans Local Development Review Safety Practitioner's Guidance, a safety review is required because the Project will be adding trips to the State Highway System. The safety review should identify and analyze any potential safety impacts due to the increased conflicts.

For questions, please contact Scott Lau, Associate Transportation Planner, at (559) 981-7341 or scott.lau@dot.ca.gov.

Sincerely,

BRADEN DURAN, Acting Branch Chief
Transportation Planning – South

Shirk Road is a two lane road with telephone poles on the east side of the road and very large oak trees on both sides of the road (from Walnut Avenue to Highway 198). There is already so much traffic up and down this road and it is getting dangerous. A large home subdivision here will even make this problem worse. Roeben would also be congested with Central Valley Christian Schools being already around the corner (buses, parents, students, and staff) and the retirement subdivision.

Wildlife coming from across Shirk (east to fields that are supposed to be where new home division is going in) will suffer dramatically and possibly make them extinct in this area. It is very common for us to see a Grey Fox and cubs at dawn, dusk, and night. They walk on the fence line and come into my yard. They are part of this environment and ecosystem.

Also, many Great Horned and Barn Owls come out and are visible at dusk and night. Peacocks are also in this area, as well as Red Tailed Hawks that perch up in the oak trees in the proposed open field. We routinely see opossums (possums) in the open property during dusk and night. I've also seen skunks wandering in the open field where the subdivision is supposed to be going in.

What happens to this wildlife now? Who is going to lobby for them? They were here way before us. We would hope that you take into consideration their natural habitat, which is where this supposed subdivision is proposed.

Sincerely,

Jim & Carmen Martinez
1548 South Shirk Road
Visalia, CA 93277

Annexation

A

andradefamily93291 <andradefamily93291@gmail.com>

To Planning

Reply | Reply All | Forward | ...

Tue 07/16/2024 5:08 PM

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To whom it may concern,
I'm writing to express my strong opposition regarding the proposed new housing development near my home on Shirk Rd.
The increased housing would severely increase the traffic through Shirk. Shirk Rd is already congested with traffic day and night The rural two lane road poses a severe safety concern with an increase of traffic from the proposed project. As indicated in the notification I received, the new subdivision contains a park posing a concer due to the severe increase of the homeless population to frequent such parks during non buisness hours. For example the frontage road of 198 between Roben and shirk as well as plaza park have had an increase in homeless encampments. Over the past several years we have interacted with multiple homeless living or setting up camp on private property along Shirk Rd. With limited options from State and city ordinances or laws, the potential for illegal camping and criminal activity seems likely an outcome of a new subdivision.
Shirk Rd. Being the outter most Western road of visalia, is a thoroughfare between numerous acres of wildlife habitat (fox, coyotes, skunks, opossums and varies birds of prey). The increased traffic and new construction would severely impact their habitat.
In regards to the annexation of the indicated properties, our information indicates the majority of the property owners being affected are not in favor of the properties being annexed. We are currently satisfied with the current County supports provided, nor do we desire to be impacted financially with the cost associated with an annexation.
We thank you for the opportunity to express our concerns and look forward to a just decision.
Joe and Juanita Andrade

Visalia City Planning Commission- Comments on Annexation 2024-1

JS John Schouten <jschoute@wwsires.com>
To Planning

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Wed 07/17/2024 1:21 PM

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You forwarded this message on 07/17/2024 2:16 PM.

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This email is input to the Visalia City Planning Commission in regard to Annexation No 2024-01.

We live in Savannah Heights which is the subdivision to the south of the proposed annexation property.
We would like to have a better understanding of the following:

1- Has a review been done regarding impact of significantly more automobiles using Shirk and Roeben? Shirk Avenue is already a heavily trafficked area. It would seem to us that the road infrastructure needs to be in place before a new housing project is started in this area. What will the city do to improve the roads in this area?

2- We have health issues. As such, we hope that some controls on dust will be considered. Our home backs up to the wall that is the south end of the proposed project. This is a big concern as there is already a lot of dirt and dust that blows from these fields into the Savannah Heights neighborhood.

3- As mentioned, our home located in Savannah Heights is the south border of the proposed project. We built our home in 1999 and are the original owners. We believe that our property line extends 5 feet to the north beyond the wall that is at the south end of the project. The block retaining wall was built 5 feet south from our property line to allow for agriculture use and tractor turnaround area. We like to have clarity on the border of the proposed project.

Thank you for considering our comments and requests.
Sincerely,
John and Denise Schouten
1617 S. Jacques Ct.
Visalia, CA 93277
jschoute@wwsires.com
559-280-1269

We feel that with the wildlife situation being affected in a negative manner with a proposed subdivision and with the increase in traffic on Shirk and oak trees (between Walnut Ave. and 198), Shirk is becoming more dangerous; the subdivision should not be developed here.

However, if the city planners have already conceded to the subdivision; wildlife and high traffic are not a concern to them. We would request single story homes going in along Savannah Heights and my property at 1548 South Shirk Road (from Shirk to Roeben).

I understand that they are proposing 2 story houses with no back windows facing the rear of the property, but side windows would still invade our privacy. We have been there for years, I would hope you understand this request.

So again, is it possible if the city has conceded to the subdivision and does not take our other major concerns of wildlife and high traffic; that the city **only** allows single story houses on the **southern border** of proposed property (Savannah Heights and our property at 1548 S. Shirk Road). The subdivision could potentially have 2 story houses "north" **in** the proposed property, but not on the southern border next to ours. This way our privacy will not be invaded.

Sincerely,

Jim & Carmen Martinez
1548 South Shirk Road
Visalia CA, 93277

City of Visalia

315 E. Acequia Ave., Visalia, CA 93291

Site Plan Review

September 13, 2023

Site Plan Review No. 2023-131:

Pursuant to Zoning Ordinance Chapter 17.28 the Site Plan Review process has found that your application complies with the general plan, municipal code, policies, and improvement standards of the city. A copy of each Departments/Divisions comments that were discussed with you at the Site Plan Review meeting are attached to this document.

Based upon Zoning Ordinance Section 17.28.070, this is your Site Plan Review determination. However, your project requires discretionary action as stated on the attached Site Plan Review comments. You may now proceed with filing discretionary applications to the Planning Division.

This is your Site Plan Review Permit; your Site Plan Review became effective **August 16, 2023**. A site plan review permit shall lapse and become null and void one year following the date of approval unless, prior to the expiration of one year, a building permit is issued by the building official, and construction is commenced and diligently pursued toward completion.

If you have any questions regarding this action, please call the Community Development Department at (559) 713-4359.

Respectfully,

Paul Bernal
Community Development Director
315 E. Acequia Ave.
Visalia, CA 93291

Attachment(s):

- Site Plan Review Comments

City of Visalia
315 E. Acequia Ave., Visalia, CA 93291
Planning Division
Tel: (559) 713-4359; Fax: (559) 713-4814

MEETING DATE August 16, 2023
SITE PLAN NO. 2023-131
PARCEL MAP NO.
SUBDIVISION
LOT LINE ADJUSTMENT NO.

Enclosed for your review are the comments and decisions of the Site Plan Review committee. Please review all comments since they may impact your project.

☐ **RESUBMIT** Major changes to your plans are required. Prior to accepting construction drawings for building permit, your project must return to the Site Plan Review Committee for review of the revised plans.

☐ During site plan design/policy concerns were identified, schedule a meeting with

☐ Planning ☐ Engineering prior to resubmittal plans for Site Plan Review.

☐ Solid Waste ☐ Parks and Recreation ☐ Fire Dept.

☒ **REVISE AND PROCEED** (see below)

☐ A revised plan addressing the Committee comments and revisions must be submitted for Off-Agenda Review and approval prior to submitting for building permits or discretionary actions.

☐ Submit plans for a building permit between the hours of 9:00 a.m. and 4:00 p.m., Monday through Friday.

☒ Your plans must be reviewed by:

☐ CITY COUNCIL ☐ REDEVELOPMENT

☒ PLANNING COMMISSION ☐ PARK/RECREATION

☒ ANX, TSM

☐ HISTORIC PRESERVATION ☐ OTHER

☒ **ADDITIONAL COMMNTS:**

If you have any questions or comments, please call the Site Plan Review Hotline at (559) 713-4440
Site Plan Review Committee

SITE PLAN REVIEW COMMENTS

Cristobal Carrillo, Planning Division (559) 713-4443
Date: August 16, 2023

SITE PLAN NO:	2023-131
PROJECT:	Elliot Subdivision
DESCRIPTION:	SITE PLAN NO. 2023-077
APPLICANT:	JONATHAN FRAUSTO
PROP. OWNER:	MARGARET KENYON ELLIOTT
LOCATION TITLE:	1537 S. ROEBEN STREET
APN TITLE:	087-010-006, 008
GENERAL PLAN	Residential Low Density
ZONING:	Tulare County Jurisdiction (AE-20)

Planning Division Recommendation:

☒ Revise and Proceed
☐ Resubmit

Reference Site Plan Review No. 2023-077.

Project Requirements

- Annexation
- Tentative Subdivision Map
- CEQA Initial Study and environmental determination
- Tribal Consultation under AB 52
- Cultural/ Ag. / and Bio Studies will be required

PROJECT SPECIFIC INFORMATION: August 16, 2023

1. The proposal to develop a residential subdivision will require the applicant to file for the following:
   a. Annexation of the project site into the Visalia City Limits;
   b. Tentative Subdivision Map, including the following:
      i. Phasing Plan and operational statement.
2. The proposal will require CEQA Initial Study and environmental determination:
   a. Tribal consultation as required by AB 52 shall be conducted for the project.
   b. Records search with the Native American Heritage Commission and CHRIS survey required.
   c. Submittal of the following studies shall be required:
      i. Cultural Resource;
      ii. Agricultural (the project is subject to the Agricultural Preservation Ordinance);
      iii. Biological;
      iv. Oak Tree Evaluation;
      v. Traffic Impact Analysis, including a Vehicle Miles Traveled analysis.
3. The applicant shall provide building footprints for all residences located on parcels with atypical lot dimensions.
4. The applicant shall consult with the Consolidated Peoples Ditch Co. regarding the South Fork Persian Ditch location and to obtain any information on required setbacks as well as any other improvements that may have to be incorporated as part of the subdivision.
5. The applicant shall consult with the City of Visalia Parks and Recreation Department regarding the proposed park.
6. The applicant shall consult with the City of Visalia Urban Forestry Division regarding the Valley Oak trees located onsite.
7. The project shall comply with the Tulare County Airport Land Use Plan.
8. A sewer analysis shall be provided.
9. A City of Visalia CEQA indemnity agreement shall be required to be submitted with the project.

10. Cross sections for all local, collector, arterial streets and ditches shall be provided.
11. The applicant shall flesh out details for the temporary ponding basin, including how solid waste and emergency vehicles will circulate though that portion of the project site while the temporary ponding basin is in place.
12. Staff will recommend a condition of approval requiring the temporary ponding basin to remain in place until the regional ponding basin is established.
13. Provide a detail showing what the lots within the temporary ponding basin will look like, including dimensions and size, once the basin is removed.
14. Caltrans comments shall be provided and incorporated into the project prior to the scheduling of a public hearing before the Visalia Planning Commission.
15. The site plan shall depict the location of all existing and proposed fencing, including material and height.
16. Provide a color version of the map highlighting the park and any other open space areas to be provided within the subdivision. The map shall also depict amenities to be provided in the park.

PROJECT SPECIFIC INFORMATION: June 28, 2023 (SPR No. 2023-077)

1. There is concern for the proposed remainders and their use.
2. Consult with the Parks Department regarding the proposed park, its location, and size.
3. The TSM exhibit shall include parceling on the temporary basin area.
4. The submittal is still subject to the requirements of the Agricultural Preservation Ordinance (APO).
5. Address all other comments from engineering and traffic, specifically.
6. All previous comments are still required.

PROJECT SPECIFIC INFORMATION: May 17, 2023 (SPR No. 2023-077)

1. The proposal to develop a residential subdivision will require the applicant to file for the following:
   a. Annexation of the project site into the Visalia City Limits;
   b. Tentative Subdivision Map, including the following:
      i. Phasing Plan and operational statement.
2. The proposal will require CEQA Initial Study and environmental determination:
   a. Tribal consultation as required by AB 52 shall be conducted for the project.
   b. Records search with the Native American Heritage Commission and CHRIS survey required.
   c. Submittal of the following studies shall be required:
      i. Cultural Resource
      ii. Agricultural
      iii. Biological
      iv. Oak Tree Evaluation
3. The applicant shall provide building footprints for all residences located on parcels with atypical lot dimensions.
4. The applicant shall consult with the Consolidated Peoples Ditch Co. regarding the South Fork Persian Ditch location and to obtain any information on required setbacks as well as any other improvements that may have to be incorporated as part of the subdivision.
5. Provide an expanded view on the site plan with additional detail of the ditch, and homes or improvements abutting the ditch.
6. Staff would recommend the applicant reorient the proposed larger lots to the southern end of the map, nearest existing larger lots in the Savannah Heights Unit 3.
7. The applicant shall work with CIP engineering to flush out details on the basin and nearby future regional basin, and with the parks director regarding open space/ park area.
8. Meet all other Codes and Ordinances.

Note:

1. **The applicant shall contact the San Joaquin Valley Air Pollution Control District to verify whether additional permits are required through the District.**

2. **Prior to a final for the project, a signed Certificate of Compliance for the MWELO standards is required indicating that the landscaping has been installed to MWELO standards.**

Sections of the Municipal Code to review:

Title 16 Subdivisions

17.12 Single-Family Residential Zone

17.12.135 Lot area less than 5,000 square feet.

17.32.080 Maintenance of landscaped areas.

17.34 Off-street parking and loading facilities.

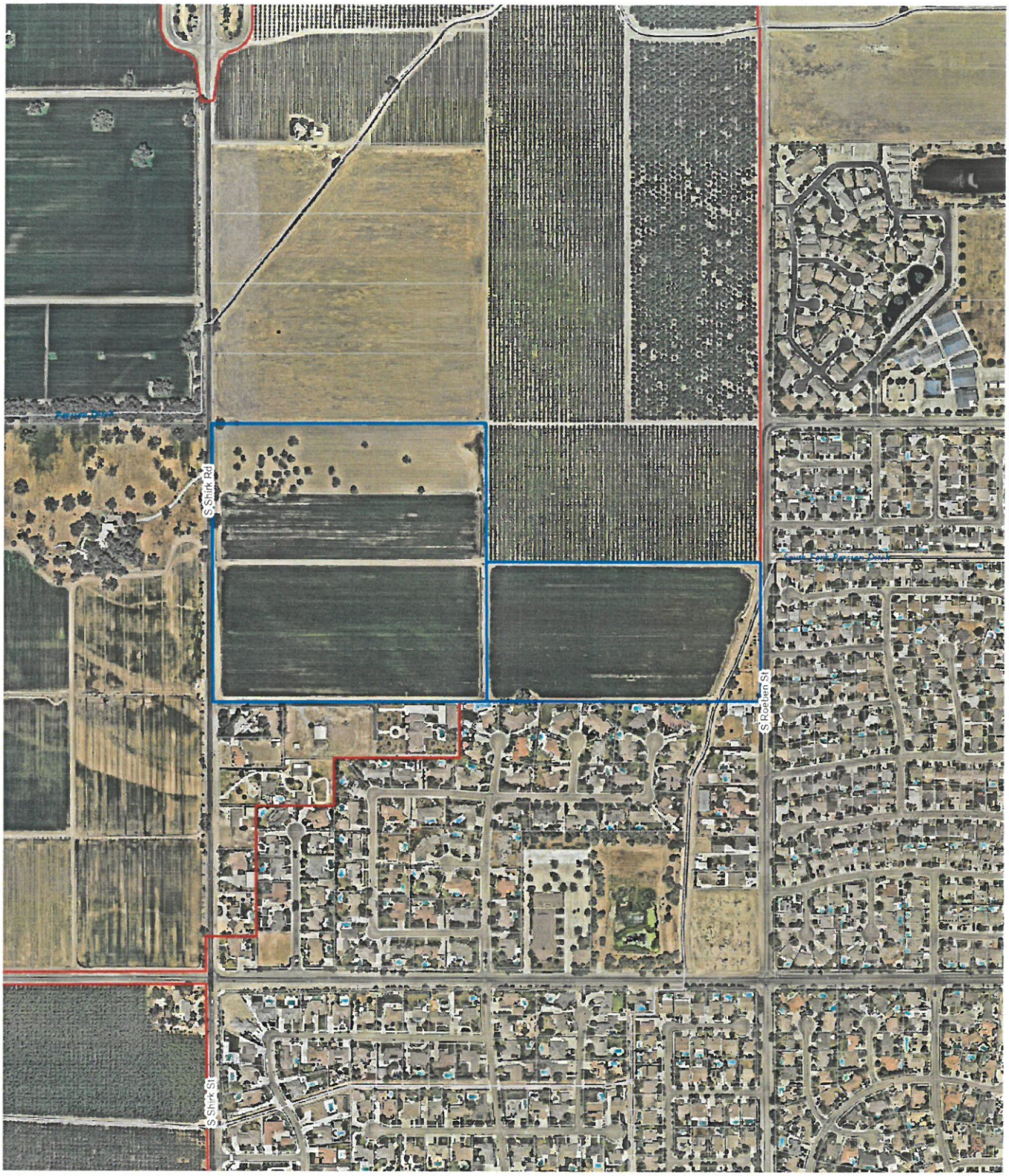
17.34.020(A)(1) Single-family dwelling

17.36 Fences Walls and Hedges

17.36.030 Single-family residential zones

NOTE: Staff recommendations contained in this document are not to be considered support for a particular action or project unless otherwise stated in the comments. The comments found on this document pertain to the site plan submitted for review on the above referenced date. Any changes made to the plan submitted must be submitted for additional review.

Signature: _____



4
SITE PLAN No. 2023-131

SUBDIVISION & PARCEL MAP REQUIREMENTS
ENGINEERING DIVISION

☐ Luqman Ragabi	713-4362
☐ Edelma Gonzalez	713-4364
☒ Keyshawn Ford	713-4268

ITEM NO: 3 DATE: AUGUST 16th, 2023

SITE PLAN NO.:	**23-131**
PROJECT TITLE:	**ELLIOT SUBDIVISION**
DESCRIPTION:	**A TENTATIVE SUBDIVISION FOR 224 LOTS**
APPLICANT:	**JONATHAN FRAUSTO**
PROP. OWNER:	**ELLIOTT MARGARET KENYON**
LOCATION:	**1537 S ROEBEN ST**
APN:	**087-010-006 & 087-010-008**

SITE PLAN REVIEW COMMENTS

☒ REQUIREMENTS (Indicated by checked boxes)

☒ Submit improvements plans detailing all proposed work; ☒ Subdivision Agreement will detail fees & bonding requirements

☒ Bonds, certificate of insurance, cash payment of fees/inspection, and approved map & plan required prior to approval of Final Map.

☒ The Final Map & Improvements shall conform to the Subdivision Map Act, the City's Subdivision Ordinance and Standard Improvements.

☒ A preconstruction conference is required prior to the start of any construction.

☒ Right-of-way dedication required. A title report is required for verification of ownership. ☒ by map ☐ by deed

☒ City Encroachment Permit Required which shall include an approved traffic control plan.

☐ CalTrans Encroachment Permit Required. ☐ CalTrans comments required prior to tentative parcel map approval. CalTrans contacts: David Deel (Planning) 488-4088

☒ Landscape & Lighting District/Home Owners Association required prior to approval of Final Map. Landscape & Lighting District will maintain common area landscaping, street lights, street trees and local streets as applicable. Submit completed Landscape and Lighting District application and filing fee a min. of 75 days before approval of Final Map. ***LLD TO BE FORMED***

☒ Landscape & irrigation improvement plans to be submitted for each phase. Landscape plans will need to comply with the City's street tree ordinance. The locations of street trees near intersections will need to comply with Plate SD-1 of the City improvement standards. A street tree and landscape master plan for all phases of the subdivision will need to be submitted with the initial phase to assist City staff in the formation of the landscape and lighting assessment district.

☒ Dedicate landscape lots to the City that are to be maintained by the Landscape & Lighting District.

☐ Northeast Specific Plan Area: Application for annexation into Northeast District required 75 days prior to Final Map approval.

☒ Written comments required from ditch company. ***PERSIAN*** Contacts: James Silva 747-1177 for Modoc, Persian, Watson, Oakes, Flemming, Evans Ditch and Peoples Ditches; Paul Hendrix 686-3425 for Tulare Irrigation Canal, Packwood and Cameron Creeks; Bruce George 747-5601 for Mill Creek and St. John's River.

☒ Final Map & Improvements shall conform to the City's Waterways Policy. ☒ Access required on ditch bank, 12' minimum. ☐ Provide wide riparian dedication from top of bank. ***SEE ADDITIONAL COMMENTS***

☒ Sanitary Sewer master plan for the entire development shall be submitted for approval prior to approval of any portion of the system. The sewer system will need to be extended to the boundaries of the development where future connection and extension is anticipated. The sewer system will need to be sized to serve any future developments that are anticipated to connect to the system. ***EXTEND EXISTING SS ACROSS ALL STREET FRONTAGES. SUBJECT TO CHANGE PER ONGOING MASTER PLAN UPDATES. SEE ADDL COMMENTS.***

☒ Grading & Drainage plan required. If the project is phased, then a master plan is required for the entire project area that shall include pipe network sizing and grades and street grades. ☒ Prepared by registered civil engineer or project architect. ☒ All elevations shall be based on the City's benchmark network. Storm run-off from the project shall be handled as follows: a) ☒ directed to the City's existing storm drainage system; b) ☐ directed to a permanent on-site basin; or c) ☒ directed to a temporary on-site basin is required until a

connection with adequate capacity is available to the City's storm drainage system. On-site basin: : maximum side slopes, perimeter fencing required, provide access ramp to bottom for maintenance. ***EXTEND EXISTING SD MAINS ACCORDINGLY, SUBJECT TO CHANGE PER ONGOING MASTER PLAN UPDATES. SEE ADDITIONAL COMMENTS.***

☒Show Valley Oak trees with drip lines and adjacent grade elevations. ☒ Protect Valley Oak trees during construction in accordance with City requirements. ☒A permit is required to remove Valley Oak trees. Contact Public Works Admin at (559)713-4428 for a Valley Oak tree evaluation or permit to remove. ☒ Valley Oak tree evaluations by a certified arborist are required to be submitted to the City in conjunction with the tentative map application. ☒ A pre-construction conference is required.

☒Show adjacent property grade elevations on improvement plans. A retaining wall will be required for grade differences greater than 0.5 feet at the property line.

☒Relocate existing utility poles and/or facilities. ***AS NECESSARY PER LAYOUT. REQUIRED ON SHIRK ST***

☒Underground all existing overhead utilities within the project limits. Existing overhead electrical lines over 50kV shall be exempt from undergrounding. ***REQUIRED ONSITE, ROEBEN ST.***

☒Provide "R" value tests: ***1*** each at ***300' INTERVALS AT CENTER LINE, REFER TO CITY PAVEMENT STANDARDS.***

☒Traffic indexes per city standards: ***REFER TO CITY PAVEMENT STDS***

☒All public streets within the project limits and across the project frontage shall be improved to their full width, subject to available right of way, in accordance with City policies, standards and specifications. ***ROEBEN, TULARE, AND SHIRK ST.***

☒All lots shall have separate drive approaches constructed to City Standards.

☒Install street striping as required by the City Engineer. ***REFER TO TRAFFIC SAFETY DEPT.***

☒Install sidewalk: ***6-7*** ft. wide, with ***5*** ft. wide parkway on ***SHIRK & ROEBEN.***

☒Cluster mailbox supports required at 1 per 2 lots, or use postal unit (contact the Postmaster at 732-8073).

☒Subject to existing Reimbursement Agreement to reimburse prior developer:

☒Abandon existing wells per City of Visalia Code. A building permit is required.

☒Remove existing irrigation lines & dispose off-site. ☒Remove existing leach fields and septic tanks.

☒ Fugitive dust will be controlled in accordance with the applicable rules of San Joaquin Valley Air District's Regulation VIII. Copies of any required permits will be provided to the City.

☒ If the project requires discretionary approval from the City, it may be subject to the San Joaquin Valley Air District's Rule 9510 Indirect Source Review per the rule's applicability criteria. A copy of the approved AIA application will be provided to the City.

☒If the project meets the one acre of disturbance criteria of the State's Storm Water Program, then coverage under General Permit Order 2009-0009-DWQ is required and a Storm Water Pollution Prevention Plan (SWPPP) is needed. A copy of the approved permit and the SWPPP will be provided to the City.

☒Comply with prior comments ☐Resubmit with additional information ☒Redesign required

Additional Comments:

1. ***Development will be subject to impact fees due at time of final map and building permit issuance.***

2. ***Project is outside of City limits. Coordinate with Planning Dept. for requirements and procedures for annexation.***

3. ***Site plan to show out-lot width and to indicate location of block wall. A 2-foot block wall footing easement will be required along all lots adjacent to the block walls.***

4. ***Site plan to provide cross-section of arterial and collector roads and shall show proposed frontage improvements. In addition, show what the intersection design looks like at Shirk and Roeben St.***

5. ***Written comments required from ditch company for Persian Ditch. Ditch dedication area shall be at least 25' minimum from centerline of ditch, except that you must maintain a minimum 15' wide access and maintenance road along ditch channel. Coordinate with utility company for existing power poles along this area.***

6. *Drive approach improvements for access to the ditch embankments are required, typical width is 18-foot per City Stds. Applicant to further coordinate requirements for maintenance access road with ditch company for City staff review. Required improvements along the culvert street frontage to include culvert crossing, headwall relocation, sidewalk, access drive approaches for maintenance, fencing, and gates. Provide detail of improvements with site plan resubmittal.*

7. *Site plan to evaluate and coordinate all oak trees identified onsite with City arborist. Indicate those to be removed. All improvements in and around crown drip lines to comply with adopted City improvement stds around Valley Oaks.*

8. *Refer to Building Dept. conditions for FEMA regulations regarding parcels located in the high-risk flood plain.*

9. *Site plan does not identify phasing of desired improvements. Provide phasing exhibit for further review and consideration by City staff. Tentative map submittal to indicate phase level of improvements.*

10. *The exterior public roadways shall be improved per City arterial and collector street standards. Improvements to include, but may not be limited to, pavement, sidewalk, curb & gutter, utility relocations, SD & SS infrastructure, curb ramps, street lighting, striping and signage, road transitions, and culvert crossings.*

11. *Install 30' radius curb ramp returns at local street connections to Roeben, and Shirk. Install 20' radius curb ramp returns at connections of two local streets. Call out radius on site plan.*

12. *Public street lighting to be installed per City Standards. An electrical plan with voltage drop calcs shall be submitted with civil plans. City will own and maintain the street lighting therefore a service pedestal will need to be installed.*

13. *Public street cul-de-sac design to comply with City standards.*

14. *Public street striping to be determined at time of civil plan review.*

15. *The ongoing Sanitary Sewer master plan update is indicating a 48" SS trunk line in Shirk across project frontage going south to Walnut Ave. There is an existing 6" SS Force main along project frontage and a lift station north of project site. Applicant shall show that there is sufficient capacity for the project to tie-into the City's sewer system, otherwise, installation of the 48" SS trunk line would be required.*

16. *Existing power poles along Shirk will need to be relocated as part of project road improvement requirements. Shirk is identified in the City's Circulation Element and Transportation Impact Fee progam as a funded arterial therefore specific improvement costs (travel lanes) qualify for reimbursement in the form of impact fee credits. Further coordination with City Engineer is required.*

17. *The project area is currently under the City's Storm Drain master plan update and further coordination with City Engineer will be required as part of subdivision development. The master plan update has identified a 60" SD RCP on Shirk all the way south to a Future Storage Regional Basin located at the northwest corner of Shirk and Walnut.*

18. *Subdivision will be required to provide a temporary retention basin onsite in the interim, including a SD stub on Shirk for Master Plan SD main connection/tie-in. The temp basin shall be designed with proper infrastructure to abandon once regional basin is excavated. Tentative map shall indicate desired temp basin area with tentative map layout. Basin site will require an easement to the City for storm water retention, and is developer's responsibility to maintain, backfill and abandon in the future, when regional basin is constructed. Applicant must also show that there is adequate space for turnaround along Street 1 and Avenue 8 near the basin.*

19. ***Roeben St. is required to be widened per City 84' collector P-3 standards. Restriping will be required south of the project to eliminate existing temporary striping layout and include bike lanes. Median improvements do not exist south of project therefore median may be deferred - to be further determined depending outcome of Tulare and Roeben intersection alignment. Roeben is an existing half collector street therefore widening improvement costs, specifically the travel lanes, can be reimbursable in the form of fee credits. Further coordinate with City Engineer.***

20. ***Per the on-going SD Master Plan, Further coordinate with City Engineer for SD requirements along Roeben.***

21. ***A building permit is required, standard plan check and inspection fees apply.***

SUMMARY OF APPLICABLE DEVELOPMENT IMPACT FEES

Site Plan No: **23-131**
Date: **08/16/2023**

Summary of applicable Development Impact Fees to be collected at the time of final/parcel map recordation:

(Preliminary estimate only! Final fees will be based on approved subdivision map & improvements plans and the fee schedule in effect at the time of recordation.)

(Fee Schedule Date:**07/01/2023**)
(Project type for fee rates:**Tentative Subdivision Map**)

☐ Existing uses may qualify for credits on Development Impact Fees.

FEE ITEM	FEE RATE
☒ Trunk Line Capacity Fee	**$952/UNIT**
☒ Sewer Front Foot Fee	**$52/LF**
☒ Storm Drainage Acquisition Fee	**$3,780/AC**
☒ Park Acquisition Fee	**$1,872/UNIT**
☐ Northeast Acquisition Fee Total Storm Drainage Block Walls Parkway Landscaping Bike Paths	
☒ Waterways Acquisition Fee	**$3,086/AC**

Additional Development Impact Fees will be collected at the time of issuance of building permits.

City Reimbursement:

1.) No reimbursement shall be made except as provided in a written reimbursement agreement between the City and the developer entered into prior to commencement of construction of the subject planned facilities.
2.) Reimbursement is available for the development of arterial/collector streets as shown in the City's Circulation Element and funded in the City's transportation impact fee program. The developer will be reimbursed for construction costs and right of way dedications as outlined in Municipal Code Section 16.44. Reimbursement unit costs will be subject to those unit costs utilized as the basis for the transportation impact fee.
3.) Reimbursement is available for the construction of storm drain trunk lines and sanitary sewer trunk lines shown in the City's Storm Water Master Plan and Sanitary Sewer System Master Plan. The developer will be reimbursed for construction costs associated with the installation of these trunk lines.

Keyshawn Ford
Keyshawn Ford

SPR 23131
ELLIOT SUBDIVISION
15375 ROEBEN

City of Visalia

Building: Site Plan Review Comments

NOTE: These are general comments and DO NOT constitute a complete plan check for your specific project Please refer to the applicable California Code & local ordinance for additional requirements.

- ☐ A building permit will be required. — *For information call (559) 713-4444*
- ☐ Submit 1 digital set of professionally prepared plans and 1 set of calculations. (Small Tenant Improvements)
- ☐ Submit 1 digital set of plans prepared by an architect or engineer. Must comply with 2016 California Building Cod Sec. 2308 for conventional light-frame construction or submit 1 digital set of engineered calculations.
- ☐ Indicate abandoned wells, septic systems and excavations on construction plans.

You are responsible to ensure compliance with the following checked items:

- ☐ Meet State and Federal requirements for accessibility for persons with disabilities.
- ☐ A path of travel, parking and common area must comply with requirements for access for persons with disabilities.
- ☐ All accessible units required to be adaptable for persons with disabilities.
- ☐ Maintain sound transmission control between units minimum of 50 STC.
- ☐ Maintain fire-resistive requirements at property lines.
- ☐ A demolition permit & deposit is required. — *For information call (559) 713-4444*
- ☐ Obtain required permits from San Joaquin Valley Air Pollution Board. — *For information call (661) 392-5500*
- ☐ Plans must be approved by the Tulare County Health Department. — *For information call (559) 624-8011*
- ☒ Project is located in flood zone AE. ☐ Hazardous materials report. MEET FEMA FLOOD REQUIREMENTS.
- ☐ Arrange for an on-site inspection. (Fee for inspection $157.00) — *For information call (559) 713-4444*
- ☐ School Development fees.
- ☐ Park Development fee $_____, per unit collected with building permits.
- ☐ Additional address may be required for each structure located on the site. — *For information call (559) 713-4320*
- ☐ Acceptable as submitted
- ☐ No comments at this time

Additional comments: ALL NEW DWELLINGS SHALL BE PROTECTED WITH TYPE 13D SPRINKLER SYSTEM.

VAL GARCIA 8/15/23
Signature

Site Plan Comments Visalia Fire Department Corbin Reed, Fire Marshal 420 N. Burke Visalia CA 93292 559-713-4272 office prevention.division@visalia.city	Date Item # Site Plan # APN:	August 16, 2023 3 23131 07010006 & 8

- The Site Plan Review comments are issued as **general overview** of your project. With further details, additional requirements will be enforced at the Plan Review stage. Please refer to the 2022 California Fire Code (CFC), 2022 California Building Codes (CBC) and City of Visalia Municipal Codes.

- Construction and demolition sites prior to and during construction shall comply with the attached **Access & Water Guidelines.**

- Residential developments shall be provided with **fire hydrants** every six hundred (600) lineal feet of residential frontage. In isolated developments, no less than two (2) fire hydrants shall be provided. The exact location and number of fire hydrants shall be at the discretion of the fire marshal, fire chief and/or their designee. VMC 16.36.120(5); 2022 CFC §507, App B and C

- **All streets** shall meet the City of Visalia's Design & Improvement Standards for streets to ensure that fire apparatus can make access to all structures in the event of an emergency.

Corbin Reed
Fire Marshal

City of Visalia
420 N. Burke Visalia, California 932912
Fire Department
Telephone (559) 713-4266 Fax: (559) 713-4808

Visalia Fire Department Access and Water Guidelines for Residential Construction

Effective July 1, 2019

Model Homes & Non-Model Homes

Model and Non-Model homes may be constructed once **all** of the following conditions have been met:

1. All portions of proposed residential construction shall be located and accessible within 150 feet of an existing, paved, city street.

2. **Exceptions:** If any portion of a model home or a non-model is located greater than 150 feet from an existing city street, a fire apparatus access road shall be installed and maintained unobstructed at all times. The fire access road, including curb and gutter, shall be installed per City Specifications and City Standard P-1 excluding the Asphalt Concrete layer, but in no circumstance shall have a structural section less than required under City Standard P-25 based on R-Value of existing subgrade unless otherwise specified on approved plans. Compaction tests, including testing of the aggregate base layer, shall be performed under City inspection and reports shall be submitted to the Public Works Inspector prior to City acceptance for the road to be used for fire access. The fire access roads shall be usable and maintained in place until permanent paved access has been provided meeting City standards and specifications.

3. All required fire hydrants shall be installed in the approved locations per the stamped and approved plans and shall be fully operational.

   Exception: If fire hydrant installation has not been completed an onsite elevated water tank shall be provided. The minimum size of provided water tank shall be 10,000 gallons, and shall be designated as "Fire Department use only". Tanks shall be located within 300 feet travel distance of each structure being developed. Tanks shall remain in place until all fire hydrant installation has been completed and all hydrants are fully operational. Travel distance shall be measured by an approved fire apparatus access route.

   Connection provided on water tanks shall be a four and one half inch National Hose thread male fitting and shall be gravity fed, with connection point located between 18 and 36 inches above ground level.

***If at any time the conditions of these guidelines are not being met the Fire Marshal/Fire Chief or his/her designee have the authority to issue a "Stop Work Order" until corrections have been made.**

*** This information is intended to be a guideline. The Fire Marshal and/or Fire Chief shall have the discretion to modify requirements at any time as set forth under CFC Appendix D.**

City of Visalia
Police Department
303 S. Johnson St.
Visalia, CA 93292
(559) 713-4370

Date: 08/16/23
Item: 3
Site Plan: SPR23131
Name: Robert Avalos

Site Plan Review Comments

☑ No Comment at this time.

☐ Request opportunity to comment or make recommendations as to safety issues as plans are developed.

☐ Public Safety Impact Fee:
Ordinance No. 2001-11 Chapter 16.48 of Title 16 of the Visalia Municipal Code
Effective date - August 17, 2001.

☐ Impact fees shall be imposed by the City pursuant to this Ordinance as a condition of or in conjunction with the approval of a development project. "New Development or Development Project" means any new building, structure or improvement of any parcels of land, upon which no like building, structure of improvement previously existed. *Refer to Engineering Site Plan comments for fee estimation.

☐ Not enough information provided. Please provide additional information pertaining to:

☐ Territorial Reinforcement: Define property lines (private/public space).

☐ Access Controlled/ Restricted etc.

☐ lighting Concerns:

☐ Traffic Concerns:

☐ Surveillance Issues:

☐ Line of Sight Issues:

☐ Other Concerns:

SITE PLAN REVIEW COMMENTS

CITY OF VISALIA TRAFFIC SAFETY DIVISION

August 16, 2023

ITEM NO: 3 **Added to Agenda** **MEETING TIME: 09:30**

SITE PLAN NO: SPR23131 ASSIGNED TO: Cristobal Carrillo Cristobal.Carrillo@visalia.city
PROJECT TITLE: Elliot Subdivision
DESCRIPTION: Site Plan No. 2023-077
Proposed low density subdivision with a total of 224 units. The project fronts S Shirk Rd, Roeben St, and Tulare Ave and features a 4 acre park and a temporary retention basin.
APPLICANT: Jonathan Frausto - Applicant
OWNER: ELLIOTT MARGARET KENYON
ELLIOTT MARGARET KENYON
APN: 087010006
087010008
ADDRESS: 1537 S ROEBEN ST

THE TRAFFIC DIVISION WILL PROHIBIT ON-STREET PARKING AS DEEMED NECESSARY

☐ No Comments

☐ See Previous Site Plan Comments

☒ Install Street Light(s) per City Standards at time of development.

☒ Install Street Name Blades at Locations at time of development.

☒ Install Stop Signs at ***local road intersection with collector/arterial*** Locations.

☐ Construct parking per City Standards PK-1 through PK-4 at time of development.

☒ Construct drive approach per City Standards at time of development.

☒ Traffic Impact Analysis required (CUP)

- ☐ Provide more traffic information such as . Depending on development size, characteristics, etc., a TIA may be required.

☐ Additional traffic information required (Non Discretionary)

- ☐ Trip Generation - Provide documentation as to concurrence with General Plan.
- ☐ Site Specific - Evaluate access points and provide documentation of conformance with COV standards. If noncomplying, provide explanation.
- ☐ Traffic Impact Fee (TIF) Program - Identify improvments needed in concurrence with TIF.

Additional Comments:

- Raised intersection design for intersection of Street 9 & Avenue 6, Avenue 1 & Street 3, Avenue 3 & Street 3.
- Traffic calming measures required on Street 6. Roadway is too long and will induce speed.
- Road access off of Shirk will be restricted to right in/out only with future build of center median.
- What is the plan to connect with parcel to the north, and access off Roeben?

- Will the development be phased? Phasing of development?

Leslie Blair

Leslie Blair

CITY OF VISALIA
SOLID WASTE DIVISION
336 N. BEN MADDOX
VISALIA CA. 93291
713 - 4532
COMMERCIAL BIN SERVICE

23131

August 16, 2023

	No comments.
XX	See comments below
XX	Revisions required prior to submitting final plans. See comments below.
	Resubmittal required. See comments below.
XX	Customer responsible for all cardboard and other bulky recyclables to be broken down before disposing of in recycle containers
	ALL refuse enclosures must be R-3 OR R-4
XX	Customer must provide combination or keys for access to locked gates/bins
	Type of refuse service not indicated.
	Location of bin enclosure not acceptable. See comments below.
	Bin enclosure not to city standards double.
	Inadequate number of bins to provide sufficient service. See comments below.
	Drive approach too narrow for refuse trucks access. See comments below.
XX	Area not adequate for allowing refuse truck turning radius of : Commercial 50 ft. outside 36 ft. inside; Residential 35 ft. outside, 20 ft. inside.
XX	Paved areas should be engineered to withstand a 55,000 lb. refuse truck.
XX	Bin enclosure gates are required
XX	Hammerhead turnaround must be built per city standards.
	Cul - de - sac must be built per city standards.
	Bin enclosures are for city refuse containers only. Grease drums or any other items are not allowed to be stored inside bin enclosures.
	Area in front of refuse enclosure must be marked off indicating no parking
	Enclosure will have to be designed and located for a STAB service (DIRECT ACCESS) with no less than 38' clear space in front of the bin, included the front concrete pad.
	Customer will be required to roll container out to curb for service.
	Must be a concrete slab in front of enclosure as per city standards, the width of the enclosure by ten(10) feet, minimum of six(6) inches in depth.
	Roll off compactor's must have a clearance of 3 feet from any wall on both sides and there must be a minimum of 53 feet clearance in front of the compactor to allow the truck enough room to provide service.
XX	City ordinance 8.28.120-130 (effective 07/19/18) requires contractor to contract with City for removal of construction debris unless transported in equipment owned by contractor or unless contracting with a franchise permittee for removal of debris utilizing roll-off boxes.
Comment	Solid waste services to include trash, recycle, and organic collections per the State of California's mandatory recycling laws (AB341 & AB1826). City standard (3-can) residential services to be assigned per address. Customer to identify a temporary turnaround at the south end of Street 1 near the proposed ponding basin, to allow for solid waste vehicles to safely turnaround.

Jason Serpa, Solid Waste Manager, 559-713-4533
Edward Zuniga, Solid Waste Supervisor, 559-713-4338

Nathan Garza, Solid Waste,559-713-4532

City of Visalia
7579 Ave. 288, Visalia, CA 93277
Public Works
(559) 713-4465 Fax (559) 713-4501

SITE PLAN REVIEW DATE: 08/16/2023

WASTEWATER COLLECTIONS AND PRETREATMENT DIVISION (QUALITY ASSURANCE)
SITE PLAN REVIEW COMMENTS

SITE PLAN REVIEW NO: 23131

PROJECT NAME: ELLIOT SUBDIVISON

THE PROJECT IS SUBJECT TO THE FOLLOWING REQUIREMENTS FROM WASTEWATER PRETREATMENT DIVISION (QUALITY ASSURANCE):

- [x] SUBMISSION OF WASTEWATER DISCHARGE PERMIT APPLICATION/QUESTIONAIRRE/OTHER REGULATORY FORMS
  - FORM REQUIRED SEE BELOW
  - FORM REQUIRED _____
  - FORM REQUIRED _____
- [ ] INSTALLATION OF SAND AND GREASE INTERCEPTOR
- [ ] INSTALLATION GREASE INTERCEPTOR
- [ ] OTHER _____
- [ ] SITE PLAN REVIEWED-NO COMMENTS

CONTACT THE WASTEWATER PRETREATMENT DIVISION (QUALITY ASSURANCE) AT (559) 713-4529 OR JESSICA.SANDOVAL@VISALIA.CITY, IF YOU HAVE ANY QUESTIONS.

COMMENTS:

Provide an estimate of wastewater flow/bod/tss using Wastewater Engineering (3rd Edition)by Metcalf & Eddy. Provide an estimated timeline of project start/completion, and rate of development (e.g 4 houses per month, starting in 2025, ending in 2032)

DATE REVIEWED: 08/15/2023

CALIFORNIA WATER SERVICE

Visalia District 216 North Valley Oaks Drive
Visalia, CA 93292 *Tel:* (559) 624-1600

Site Plan Review Comments From: California Water Service Scott McNamara, Superintendent 216 N Valley Oaks Dr. Visalia, CA 93292 559-624-1622 Office 559-735-3189 Fax smcnamara@calwater.com	Date: 08/16/2023 Item # 3 Site Plan # 23-131 (23-077) Project: Elliott Subdivision Description: Applicant: Location: APN: 087-010-008

The following comments are applicable when checked:

☐ Re-submit
☐ No Comments at this time

☒ **Fire Hydrants**
Comments- Per Visalia Fire Department requirements. If street frontage hydrants are required off existing water main, Cal Water will utilize our own contractor for that work and that work will be paid for by the developer/customer. The location of those hydrants is to be approved by Visalia Fire.

☒ **Services**
Comments- Service(s) will be needed for this development.

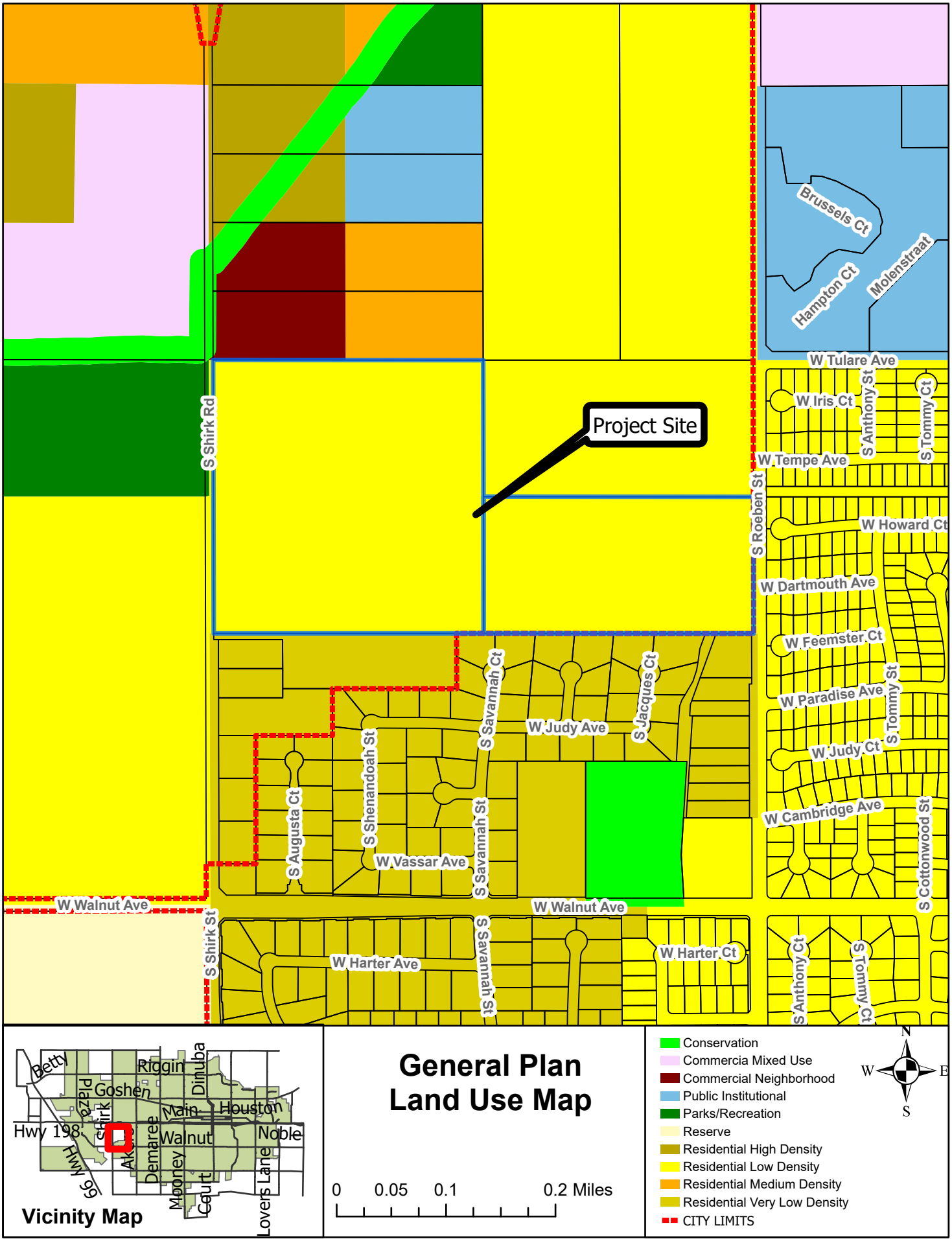
☒ **Mains**
Comments- Existing water main on Roeben. Will need water main installed on Tulare, west of Roeben to Shirk, and brought from the north property line on Shirk to the south property line on Shirk and installed within the proposed development.

☒ **Backflow Requirements**
Comments- Will be required if any parcel is for multi-family, commercial, or has multiple services on one parcel. Please contact Cross Connection Control Specialist, Juan Cisneros at 559-624-1670 or visaliabackfow@calwater.com for a backflow install packet.

Additional Comments:

☒ Please contact New Business Superintendent Sedelia Sanchez at 559-624-1621 or ssanchez@calwater.com to start your project with Cal Water.

- **Cal Water may work with the developer of this subdivision to purchase a piece of property for a tank/well site.**


Project Site
Brussels Ct
Hampton Ct
Molenstraat
W Tulare Ave
W Iris Ct
S Anthony St
S Tommy Ct
W Tempe Ave
S Shirk Rd
S Roeben St
W Howard Ct
W Dartmouth Ave
W Feemster Ct
S Savannah Ct
S Jacques Ct
W Paradise Ave
S Tommy St
W Judy Ave
W Judy Ct
S Shenandoah St
S Augusta Ct
S Savannah St
W Cambridge Ave
S Cottonwood St
W Vassar Ave
W Walnut Ave
W Walnut Ave
S Shirk St
W Harter Ave
S Savannah St
W Harter Ct
S Anthony Ct
S Tommy Ct
Vicinity Map
Betty
Riggin
Dinuba
Plaza
Goshen
Shirk
Main
Houston
Hwy 198
Akers
Demaree
Walnut
Noble
Hwy 99
Mooney
Court
Lovers Lane
General Plan
Land Use Map
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Conservation
Commercia Mixed Use
Commercial Neighborhood
Public Institutional
Parks/Recreation
Reserve
Residential High Density
Residential Low Density
Residential Medium Density
Residential Very Low Density
CITY LIMITS
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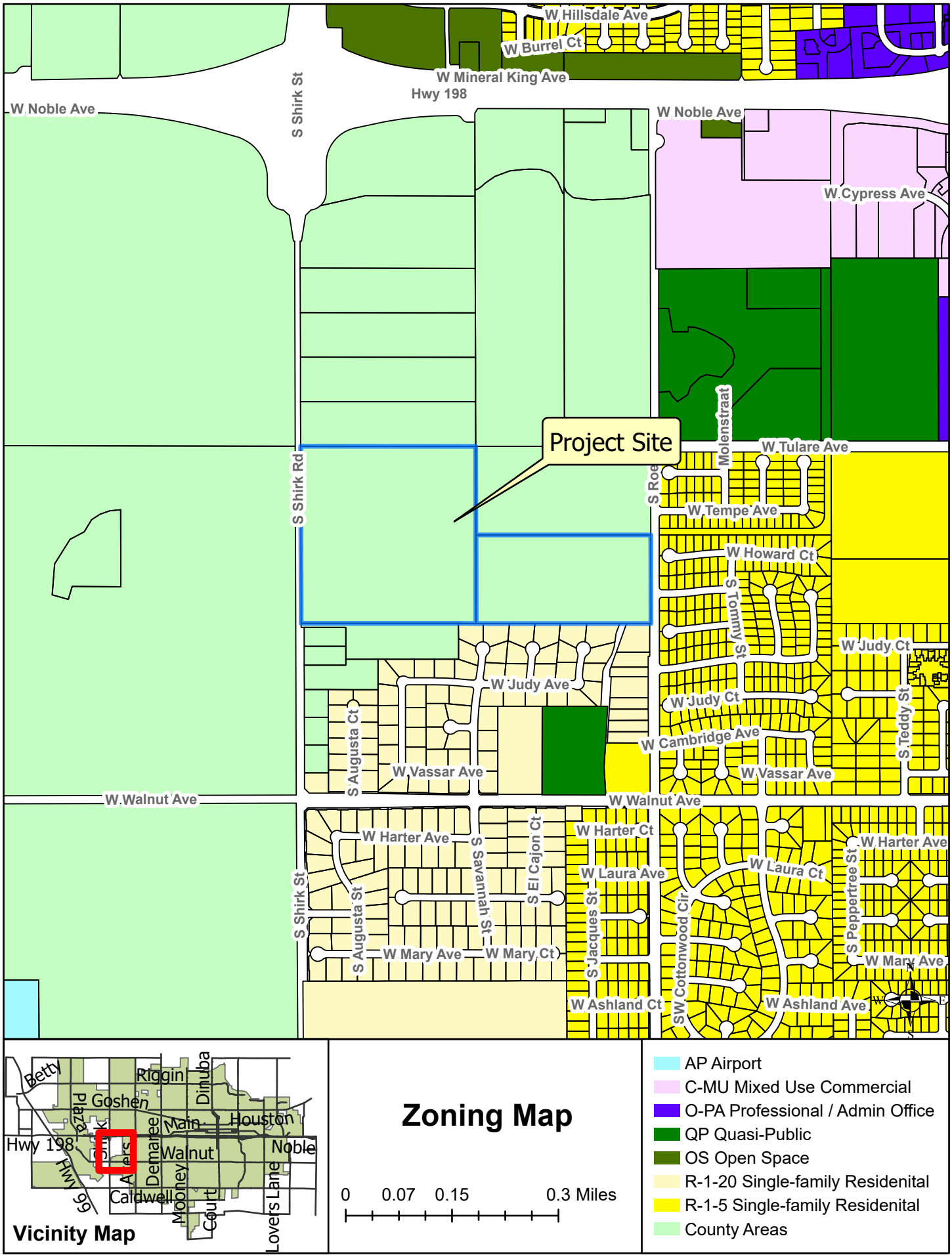
W Hillsdale Ave
W Burrel Ct
W Mineral King Ave
Hwy 198
S Shirk St
W Noble Ave
W Noble Ave
W Cypress Ave
Project Site
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Molenstraat
W Tulare Ave
S Roe
W Tempe Ave
W Howard Ct
S Tommy St
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S Teddy St
S Augusta Ct
W Cambridge Ave
W Vassar Ave
W Vassar Ave
W Walnut Ave
W Walnut Ave
W Harter Ave
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W Laura Ave
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S Shirk St
S Augusta St
S Jacques St
SW Cottonwood Cir
S Peppertree St
W Mary Ave
W Mary Ct
W Mary Ave
W Ashland Ct
W Ashland Ave
Betty
Riggin
Dinuba
Goshen
Plaza
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Noble
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Caldwell
Mooney
Court
Lovers Lane
Vicinity Map
Zoning Map
0
0.07
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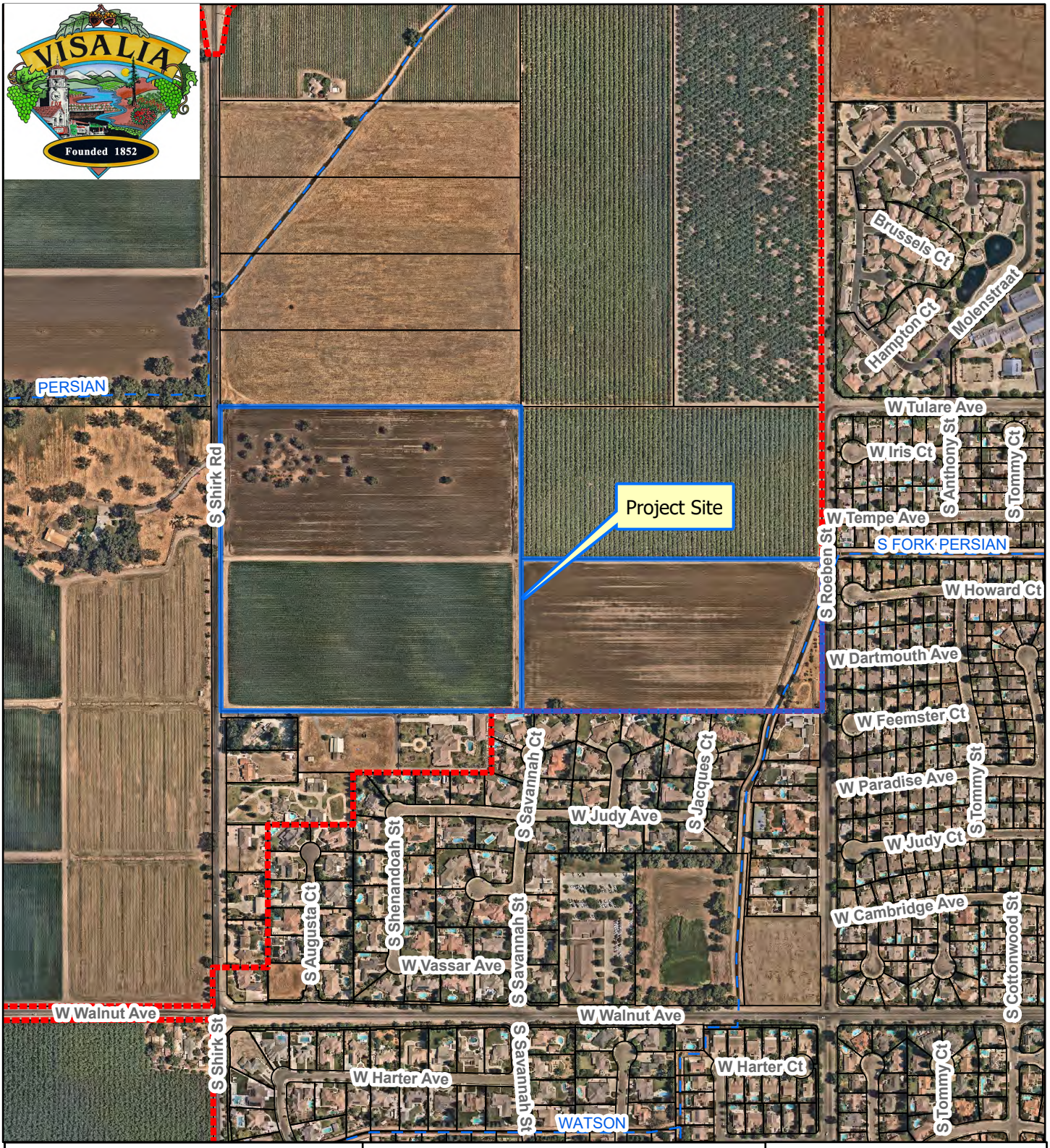
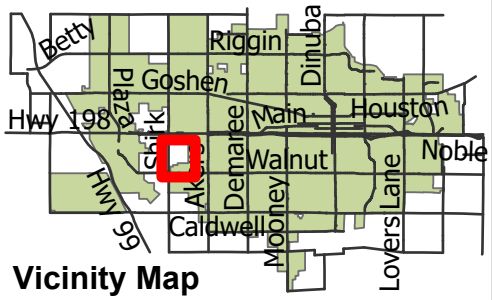
AP Airport
C-MU Mixed Use Commercial
O-PA Professional / Admin Office
QP Quasi-Public
OS Open Space
R-1-20 Single-family Residenital
R-1-5 Single-family Residenital
County Areas





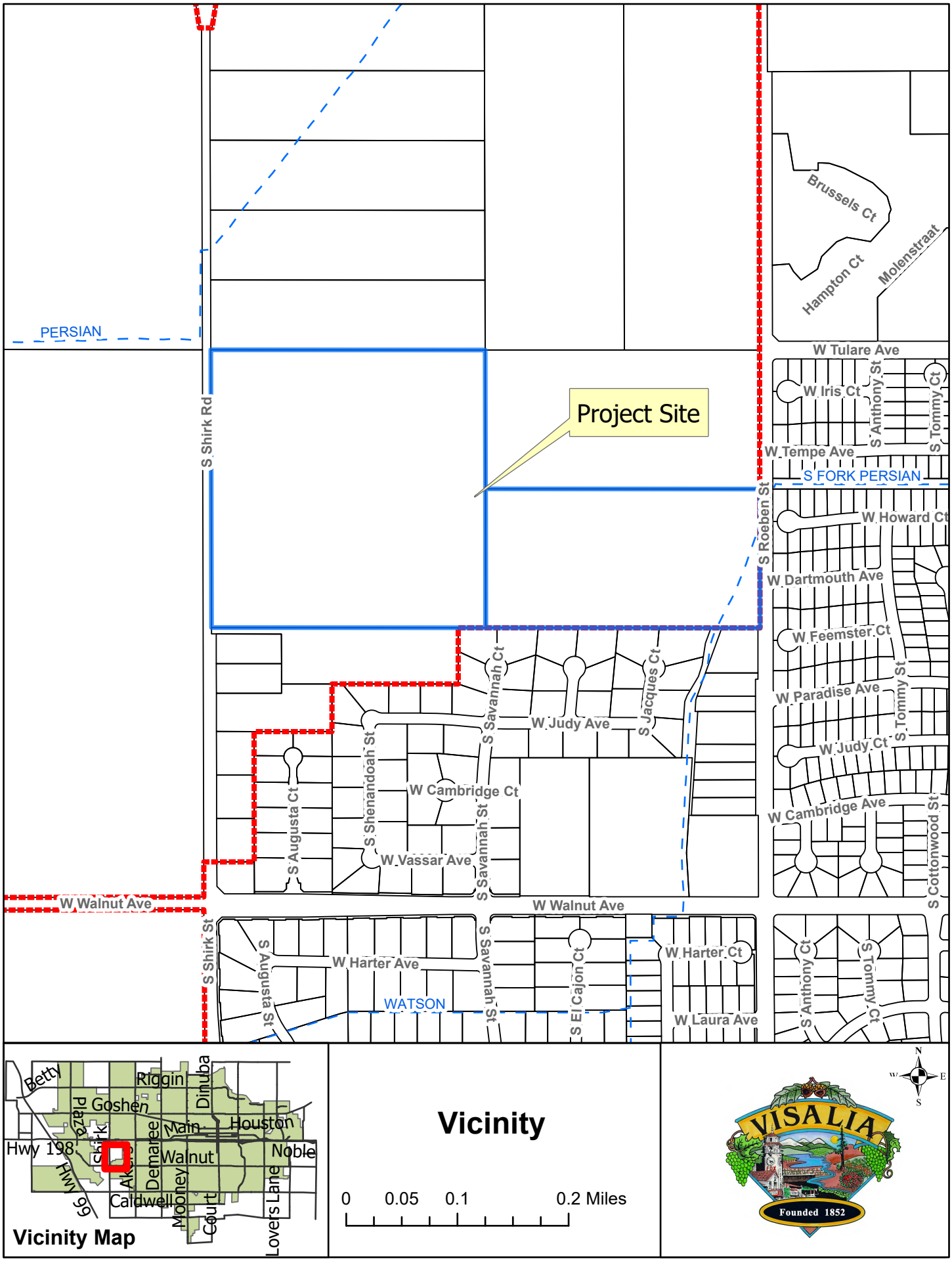
Vicinity Map

Aerial Map

0 0.05 0.1 0.2 Miles

Legend

Street Names
WATERWAYS
CITY LIMITS
PARCELS
Aerial Map
RGB
Red: Band_1
Green: Band_2


Project Site
PERSIAN
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Hampton Ct
Molenstraat
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W Tempe Ave
S FORK PERSIAN
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W Harter Ave
S Augusta St
WATSON
S El Cajon Ct
W Harter Ct
W Laura Ave
S Anthony Ct
S Tommy Ct
Betty
Riggin
Dinuba
Goshen
Plaza
Shirk
Demaree
Main
Houston
Hwy 198
Walnut
Noble
Akers
Hwy 99
Caldwell
Mooney
Court
Lovers Lane
Vicinity Map
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VISALIA
Founded 1852

REPORT TO CITY OF VISALIA PLANNING COMMISSION

HEARING DATE: August 12, 2024

PROJECT PLANNER: Nathan Perez, Planning Intern
Phone No. (559) 713-4449
E-Mail: nathan.perez@visalia.city

SUBJECT: Tentative Parcel Map No. 2024-07: A request by Corwyn Oldfield to divide a 12-acre parcel into 4 parcels sized 2.28 acres, 3.90 acres, 1.75 acres, and 4.09 acres respectively in the R-1-5 (Single-Family Residential, 5,000 sq. ft. minimum lot area) zone.

Conditional Use Permit No. 2024-22: A request by Corwyn Oldfield to create three residential parcels without direct street access in the R-1-5 (Single-Family Residential, 5,000 sq. ft. minimum lot area) zone.

Project Location: The project site is located at 4222 West Ferguson Avenue (APN: 077-190-015).

STAFF RECOMMENDATION

Staff recommends approval of Tentative Parcel Map No. 2024-07 based on the findings and conditions in Resolution No. 2024-32. Staff's recommendation is based on the conclusion that the parcel map, as conditioned, is consistent with the City's, Housing Element, Zoning and Subdivision Ordinance.

Staff recommends approval of Conditional Use Permit No. 2024-22 based on the findings and conditions in Resolution No. 2024-38. Staff's recommendation is based on the conclusion that the project is consistent with the Zoning Ordinance.

RECOMMENDED MOTION

I move to approve Tentative Parcel Map No. 2024-07, based on the findings and conditions in Resolution No. 2024-32.

I move to approve Conditional Use Permit No. 2024-22 based on the findings and conditions in Resolution No. 2024-38.

PROJECT DESCRIPTION

Tentative Parcel Map No. 2024-07 is a request to subdivide a 12-acre parcel into four parcels. The proposed parcel sizes are as follows: 2.28 acres for Parcel 1, 3.90 acres for Parcel 2, 1.75 acres for Parcel 3, and 4.09 acres for Parcel 4 (see Exhibit A). The entire site is zoned R-1-5 (Single Family Residential, 5,000 minimum site area) and is currently developed with two single-family homes and additional accessory structures. An asphalt private drive aisle that spans the length of the parcel on the west side of the property provides access to the two existing single-family homes on the parcel and will continue to provide access to the additional parcels once subdivided. Due to the private access drive aisle from Ferguson Avenue, Parcels 2, 3, and 4 are considered "landlocked" therefore requiring a conditional use permit.

The subdivision of Parcels 1 through 4 will comply with the R-1-5 development standards, with the exception for those parcels that do not abut a public street. The parcels' size range from 76,230 square feet to 221,720 square feet which complies with the minimum 5,000 square foot

lot size requirement in the R-1-5 zone. The applicant is proposing a single-family residence on Parcel 3, while no development on Parcel 1 is proposed at this time.

Improvements along West Ferguson Avenue are to be completed by the residential development to the east. The neighboring subdivision, Victory Oaks, has been conditioned to develop offsite sidewalk improvements on Ferguson west along adjacent parcels up to the Linwood Street intersection, which includes this project site.

BACKGROUND INFORMATION

General Plan:	Residential Low Density	
Zoning:	R-1-5 Single-family Residential	
Surrounding Zoning and Land Use:	North:	R-1-5 / Single-family Residential (Kayenta Crossing Subdivision)
	South:	Oak Grove School and R-1-5 / Single-family Residential (Silver Oaks)
	East:	R-1-5 / Construction of future Single-family Residential subdivision (Victory Oaks)
	West:	R-1-20 / Large-lot Single-family Residential
Environmental Review:	Categorical Exemption No. 2024-32	
Site Plan:	Site Plan Review No. 2024-045	

PROJECT EVALUATION

Consistency with General Plan, Zoning and Subdivision Ordinances

Staff supports the proposed tentative parcel map based on the project's consistency with the intent of the Land Use Element of the General Plan and the Zoning Ordinance.

Policy LU-P-45 of the Land Use Element encourages the City to promote development of vacant, underdeveloped, and/or re-developable land within the City limits where urban services are available and adopt a bonus/incentive program to promote and facilitate infill development in order to reduce the need for annexation and conversion of prime agricultural land, while achieving objectives of compact development as established in the General Plan. Staff supports the project because it meets the overall intent of this policy.

The division of the site provides the potential for two additional residences on the project site, doubling the density of the existing single parcel. At this time, the applicant outlines only one new residential structure to be built on Parcel 3, after recordation of the final parcel map. The proposed division and lot configuration is also consistent with the existing development pattern of the surrounding neighborhood, consisting of large residential properties with substantial setbacks from the public right of way.

Access and Site Improvements

The site is located on the northside of West Ferguson Avenue, which provides direct vehicular access to the site, between North Linwood and North Demaree Streets. While proposed Parcel 1 will be adjacent to the collector street (Ferguson Avenue), all current structures are accessible by the shared private drive aisle located along the westside of the property.

Staff is recommending Condition No. 3 be adopted for the Tentative Parcel Map and Condition No. 2 be adopted for the Conditional Use Permit. These conditions require the recordation of an agreement addressing shared vehicular access, utilities, and any other pertinent infrastructure

or services for all parcels including Parcels 2, 3, and 4, which can only be accessible from the public right-of-way via the existing shared access driveway. This agreement shall be recorded with the final parcel map. The agreement shall address property owners' responsibility for repair and maintenance of the easement, repair and maintenance of shared public or private utilities, and shall be kept free and clear of any structures excepting solid waste enclosures. In addition to the shared access drive, the applicant has also marked underground electrical and fire turnaround within the hatched reciprocal access and utility easement occupying at least the westernmost 46 feet of all four parcels.

It should be noted that any substantial improvements to existing or newly created parcels would typically require the applicant to improve the remainder of their frontage to City standard curb, sidewalk, and parkway landscaping. However, as mentioned above, improvements along West Ferguson Avenue are to be completed by the subdivision to the east. Engineering comment No. 9 in Site Plan Review 2021-207 stipulates that the Victory Oaks development "will require offsite sidewalk improvements on Ferguson along west adjacent parcels, up to Linwood intersection," which includes this project site and modifications to its drive approach to match City standards. Should the applicant return to improve his site with the structure proposed on Parcel 3 in Exhibit A prior to the completion of Victory Oak's improvements, then the applicant would be responsible for improving his own frontage.

Subdivision Map Act Findings

California Government Code Section §66474 lists seven findings for which a legislative body of a city or county shall deny approval of a tentative map if it is able to make any of these findings. These seven "negative" findings have come to light through a recent California Court of Appeal decision (*Spring Valley Association v. City of Victorville*) that has clarified the scope of findings that a city or county must make when approving a tentative map under the California Subdivision Map Act.

Staff has reviewed the seven findings for a cause of denial and finds that none of the findings can be made for the proposed project. The seven findings and staff's analysis are below. Recommended findings in response to this Government Code section are included in the recommended findings for the approval of the tentative parcel map.

GC Section 66474 Finding	Analysis
(a) That the proposed map is not consistent with applicable general and specific plans as specified in Section 65451.	The proposed map has not been found to conflict with the City's General Plan. This is included as recommended Finding No. 1 of the Tentative Parcel Map. There are no specific plans applicable to the proposed map.
(b) That the design or improvement of the proposed subdivision is not consistent with applicable general and specific plans.	The proposed design and improvement of the map has not been found to conflict with the City's General Plan. This is included as recommended Finding No. 1 of the Tentative Parcel Map.
(c) That the site is not physically suitable for the type of development.	The site is not physically unsuitable for the proposed map and its affiliated development plan, which as of now includes only one extra

	residential structure. This is included as recommended Finding No. 2 of the Tentative Parcel Map.
(d) That the site is not physically suitable for the proposed density of development.	The site is not physically unsuitable for the proposed density of development in the Low-Density Residential land use designation and R-1-5 zone. This is included as recommended Finding No. 3 of the Tentative Parcel Map.
(e) That the design of the subdivision or the proposed improvements are likely to cause substantial environmental damage or substantially and avoidably injure fish or wildlife or their habitat.	The proposed design and improvement of the map has not been found to cause substantial environmental damage or avoidable injury of fish wildlife or their habitat. This finding is further supported by Categorical Exemption No. 2024-32 and included as recommended Finding No. 4 of the Tentative Parcel Map.
(f) That the design of the subdivision or type of improvements is likely to cause serious public health problems.	The proposed design of the map has not been found to cause serious public health problems. This is included as recommended Finding No. 5 of the Tentative Parcel Map.
(g) That the design of the subdivision or the type of improvements will conflict with easements, acquired by the public at large, for access through or use of, property within the proposed subdivision.	The proposed design of the map does not conflict with any existing or proposed easements located on or adjacent to the subject property. This is included as recommended Finding No. 6 of the Tentative Parcel Map.

Environmental Review

The project is considered to be categorically exempt under Section 15315 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA) for the subdivision of certain properties in urban areas into four or fewer parcels (Categorical Exemption No. 2024-32).

RECOMMENDED FINDINGS

Tentative Parcel Map No. 2024-07

1. That the proposed tentative parcel map, as conditioned, is consistent with the policies and intent of the General Plan, Zoning Ordinance, and Subdivision Ordinance.
2. The site is suitable for the proposed map and its affiliated development plan.
3. The site is suitable for the proposed density of development in the Low-Density Residential land use designation and R-1-5 zone.
4. The proposed design and improvement of the map has not been found cause substantial environmental damage or avoidable injury of fish wildlife or their habitat per Categorical Exemption 2024-32.
5. The proposed design of the map has not been found to cause serious public health problems.
6. The proposed design of the map does not conflict with any existing or proposed easements located on or adjacent to the subject property.

Conditional Use Permit No. 2024-22

1. That the proposed project will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements within the vicinity.
2. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance.
3. The proposed location of the conditional use is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located.
4. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity.
5. That the project is considered Categorically Exempt under Section 15315 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA). (Categorical Exemption No. 2024-32)

RECOMMENDED CONDITIONS OF APPROVAL

Tentative Parcel Map No. 2024-07

1. That the project be developed consistent with the comments and conditions of the Site Plan Review No. 2024-045.
2. That Tentative Parcel Map No. 2024-07 be prepared in substantial compliance with Exhibit "A".
3. That an agreement addressing vehicular access, utilities, and any other pertinent infrastructure or services shall be recorded with the final parcel map. The agreement shall address property owners' responsibility for repair and maintenance of the easement, repair and maintenance of shared public or private utilities, and shall be kept free and clear of any structures. The City Planner and City Engineer shall review for approval this agreement verifying compliance with these requirements prior to recordation. The agreement shall be recorded prior to the issuance of any building permits.
4. That the setbacks for the single-family residential lots shall comply with the R-1-5 (Single-Family Residential 5,000 sq. ft. min. site area) standards for the front, side, and rear yard setbacks.
5. That Parcels 1 through 4 be annexed into existing landscaping and lighting district and open space district as part of the final map recording.
6. That all other federal, state and city codes, ordinances and laws be met.

Conditional Use Permit No. 2024-22

1. That the site be developed consistent with the comments and conditions of the Site Plan Review Committee as set forth under Site Plan Review No. 2024-045.
2. That an agreement addressing vehicular access, utilities, and any other pertinent infrastructure or services shall be recorded with the final parcel map. The agreement shall address property owners' responsibility for repair and maintenance of the easement, repair and maintenance of shared public or private utilities, and shall be kept free and clear of any structures. The City Planner and City Engineer shall review for approval this agreement verifying compliance with these requirements prior to recordation. The agreement shall be recorded prior to the issuance of any building permits.
3. That parcels 1 and 3 be connected to the city sewer per Site Plan Review No. 2024-045.
4. That Conditional Use Permit No. 2024-22 shall be null and void unless Tentative Parcel Map No. 2024-07 is approved.

APPEAL INFORMATION

According to the City of Visalia Ordinance Section 16.04.040, an appeal to the City Council may be submitted within ten calendar days following the date of a decision by the Planning Commission on a tentative subdivision map or tentative parcel map application. An appeal with applicable fees shall be in writing and shall be filed with the City Clerk at 220 N. Santa Fe Street. The appeal shall specify errors or abuses of discretion by the Planning Commission, or decisions not supported by the evidence in the record. The appeal form can be found on the city's website www.visalia.city or from the City Clerk.

Attachments:

- Related Plans and Policies
- Resolution No. 2024-32
- Resolution No. 2024-38
- Exhibit "A" –Tentative Parcel Map No. 2024-07
- Site Plan Review Comments No. 2024-045
- General Plan Land Use Map
- Zoning Map
- Aerial Map
- Location Map

RELATED PLANS AND POLICIES

Zoning: The following Zoning Ordinance policies apply to the proposed project:

Section 17.12.010 Purpose and intent.

In the R-1 single-family residential zones (R-1-5, R-1-12.5, and R-1-20), the purpose and intent is to provide living area within the city where development is limited to low density concentrations of one-family dwellings where regulations are designed to accomplish the following: to promote and encourage a suitable environment for family life; to provide space for community facilities needed to compliment urban residential areas and for institutions that require a residential environment; to minimize traffic congestion and to avoid an overload of utilities designed to service only low density residential use. (Ord. 2017-01 (part), 2017: Ord. 9717 § 2 (part), 1997: prior code § 7270)

In the R-1 single-family residential zone, the minimum site area shall be as follows:

ZONE	Permitted or Conditional Use
R-1-5	5,000 square feet
R-1-12.5	12,500 square feet
R-1-20	20,000 square feet

A. Each site shall have not less than forty (40) feet of frontage on the public street. The minimum width shall be as follows:

ZONE	Interior Lot	Corner Lot
R-1-6	50 feet	60 feet
R-1-12.5	90 feet	100 feet
R-1-20	100 feet	110 feet

B. Minimum width for corner lot on a side on cul-de-sac shall be eighty (80) feet, when there is no landscape lot between the corner lot and the right of way. (Ord. 2017-01 (part), 2017: Ord. 9717 § 2 (part), 1997: prior code § 7274)

Environmental Document # 2024-32

NOTICE OF EXEMPTION

City of Visalia
315 E. Acequia Ave.
Visalia, CA 93291

To: County Clerk
County of Tulare
County Civic Center
Visalia, CA 93291-4593

Tentative Parcel Map No. 2024-07
PROJECT TITLE

The project site is located at 4222 W. Ferguson Avenue (APN: 077-190-015).
PROJECT LOCATION – SPECIFIC

Visalia
PROJECT LOCATION – CITY

Tulare
COUNTY

Tentative Parcel Map to divide a 12-acre parcel into 4 parcels sized 2.28 acres, 3.90 acres, 1.75 acres, and 4.09 acres respectively.
DESCRIPTION - Nature, Purpose, & Beneficiaries of Project

City of Visalia
NAME OF PUBLIC AGENCY APPROVING PROJECT

Corwyn Oldfield, 1345 N. American St., Visalia, CA 93291
NAME AND ADDRESS OF APPLICANT CARRYING OUT PROJECT

Lane Engineers, Inc., P.O. Box 1059, Tulare, CA 93275
NAME AND ADDRESS OF AGENT CARRYING OUT PROJECT

EXEMPT STATUS: (Check one)

☐ Ministerial - Section 15073
☐ Emergency Project - Section 15071
☒ Categorical Exemption - State type and Section number: **Section 15315**
☐ Statutory Exemptions- State code number:

The creation of four or fewer parcels in an urban area.
REASON FOR PROJECT EXEMPTION

Nathan Perez, Planning Intern
CONTACT PERSON

(559)713-4449
AREA CODE/PHONE

July 30, 2024
DATE

Brandon Smith
ENVIRONMENTAL COORDINATOR

RESOLUTION NO. 2024-32

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING TENTATIVE PARCEL MAP NO. 2024-07, A REQUEST BY CORWYN OLDFIELD TO DIVIDE A 12-ACRE PARCEL INTO 4 PARCELS SIZED 2.28 ACRES, 3.90 ACRES, 1.75 ACRES, AND 4.09 ACRES RESPECTIVELY IN THE R-1-5 (SINGLE-FAMILY RESIDENTIAL, 5,000 SQ. FT. MINIMUM LOT AREA) ZONE. THE PROJECT SITE IS LOCATED AT 4222 WEST FERGUSON AVENUE (APN: 077-190-015).

WHEREAS, Tentative Parcel Map No. 2024-07, A request by Corwyn Oldfield to divide a 12-acre parcel into 4 parcels sized 2.28 acres, 3.90 acres, 1.75 acres, and 4.09 acres respectively in the R-1-5 (Single-Family Residential, 5,000 sq. ft. minimum lot area) zone. The project site is located at 4222 West Ferguson Avenue. (APN: 077-190-015); and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice scheduled a public hearing before said commission on August 12, 2024; and

WHEREAS, the Planning Commission of the City of Visalia finds Tentative Parcel Map No. 2024-07, as conditioned, in accordance with Section 16.28.070 of the Ordinance Code of the City of Visalia based on the evidence contained in the staff report and testimony presented at the public hearing; and,

WHEREAS, the project is considered Categorically Exempt under Section 15315 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA) (Categorical Exemption No. 2024-32).

NOW, THEREFORE, BE IT RESOLVED, that Categorical Exemption No. 2024-32 was prepared finding the project exempt under CEQA Section 15315 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA), as amended.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Planning Commission of the City of Visalia makes the following specific finding based on the evidence presented:

1. That the proposed tentative parcel map, as conditioned, is consistent with the policies and intent of the General Plan, Zoning Ordinance, and Subdivision Ordinance.
2. The site is suitable for the proposed map and its affiliated development plan.
3. The site is suitable for the proposed density of development in the Low-Density Residential land use designation and R-1-5 zone.
4. The proposed design and improvement of the map has not been found cause substantial environmental damage or avoidable injury of fish wildlife or their habitat per Categorical Exemption 2024-32.
5. The proposed design of the map has not been found to cause serious public health problems.

6. The proposed design of the map does not conflict with any existing or proposed easements located on or adjacent to the subject property.

BE IT FURTHER RESOLVED that the Planning Commission hereby approved the parcel map on the real property herein above described in accordance with the terms of this resolution under the provision of Section 17.12.010 of the Ordinance Code of the City of Visalia, subject to the following conditions:

1. That the project be developed consistent with the comments and conditions of the Site Plan Review No. 2024-045.
2. That Tentative Parcel Map No. 2024-07 be prepared in substantial compliance with Exhibit “A”.
3. That an agreement addressing vehicular access, utilities, and any other pertinent infrastructure or services shall be recorded with the final parcel map. The agreement shall address property owners’ responsibility for repair and maintenance of the easement, repair and maintenance of shared public or private utilities, and shall be kept free and clear of any structures. The City Planner and City Engineer shall review for approval this agreement verifying compliance with these requirements prior to recordation. The agreement shall be recorded prior to the issuance of any building permits.
4. That the setbacks for the single-family residential lots shall comply with the R-1-5 (Single-Family Residential 5,000 sq. ft. min. site area) standards for the front, side, and rear yard setbacks.
5. That Parcels 1 through 4 be annexed into existing landscaping and lighting district and open space district as part of the final map recording.
6. That all other federal, state and city codes, ordinances and laws be met.

RESOLUTION NO. 2024-38

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING CONDITIONAL USE PERMIT NO. 2024-22, A REQUEST BY CORWYN OLDFIELD TO CREATE THREE RESIDENTIAL PARCELS WITHOUT DIRECT STREET ACCESS IN THE R-1-5 (SINGLE-FAMILY RESIDENTIAL, 5,000 SQ. FT. MINIMUM LOT AREA) ZONE. THE PROJECT SITE IS LOCATED AT 4222 WEST FERGUSON AVENUE (APN: 077-190-015).

WHEREAS, Conditional Use Permit No. 2024-22, is A request by Corwyn Oldfield to create three residential parcels without direct street access in the R-1-5 (Single-Family Residential, 5,000 sq. ft. minimum lot area) zone. The project is located on the southwest corner of South Santa Fe Street and East Walnut Avenue The project site is located at 4222 West Ferguson Avenue. (APN: 077-190-015); and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice did hold a public hearing before said Commission on August 12, 2024; and

WHEREAS, the Planning Commission of the City of Visalia finds the Conditional Use Permit No. 2024-22, as conditioned by staff, to be in accordance with Chapter 17.38.110 of the Zoning Ordinance of the City of Visalia based on the evidence contained in the staff report and testimony presented at the public hearing; and

WHEREAS, the Planning Commission finds the project to be Categorically Exempt consistent with the California Environmental Quality Act (CEQA) and City of Visalia Environmental Guidelines.

NOW, THEREFORE, BE IT RESOLVED that the project is exempt from further environmental review pursuant to CEQA Section 15315.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Planning Commission of the City of Visalia makes the following specific findings based on the evidence presented:

1. That the proposed project will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements within the vicinity.
2. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance.
3. The proposed location of the conditional use is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located.
4. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity.
5. That the project is considered Categorically Exempt under Section 15315 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA). (Categorical Exemption No. 2024-32)

BE IT FURTHER RESOLVED that the Planning Commission hereby approves the Conditional Use Permit on the real property here described in accordance with the terms of this resolution under the provisions of Section 17.38.110 of the Ordinance Code of the City of Visalia, subject to the following conditions:

1. That the site be developed consistent with the comments and conditions of the Site Plan Review Committee as set forth under Site Plan Review No. 2024-045.
2. That an agreement addressing vehicular access, utilities, and any other pertinent infrastructure or services shall be recorded with the final parcel map. The agreement shall address property owners' responsibility for repair and maintenance of the easement, repair and maintenance of shared public or private utilities, and shall be kept free and clear of any structures. The City Planner and City Engineer shall review for approval this agreement verifying compliance with these requirements prior to recordation. The agreement shall be recorded prior to the issuance of any building permits.
3. That parcels 1 and 3 be connected to the city sewer per Site Plan Review No. 2024-045.
4. That Conditional Use Permit No. 2024-22 shall be null and void unless Tentative Parcel Map No. 2024-07 is approved.

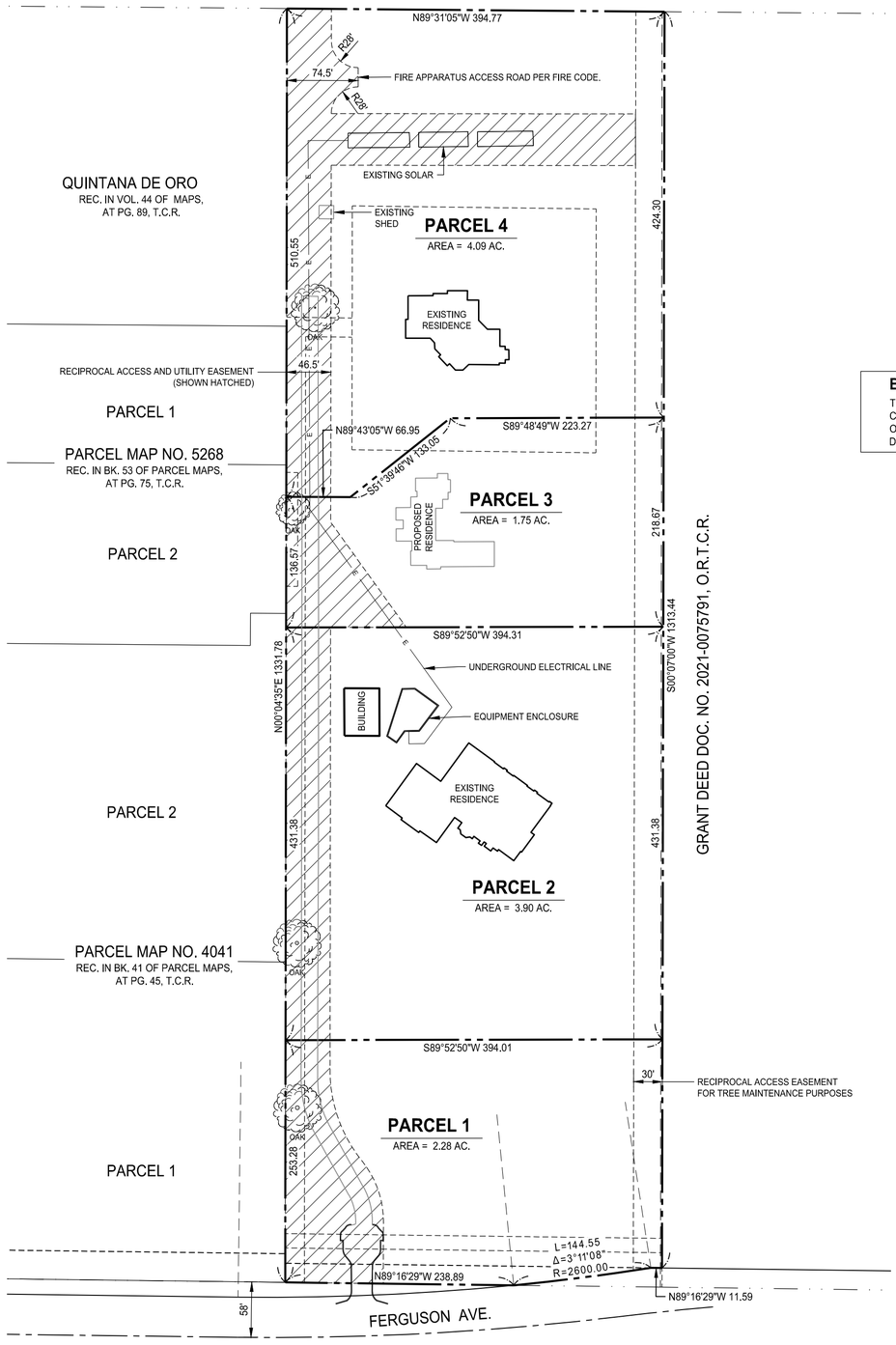
TENTATIVE PARCEL MAP

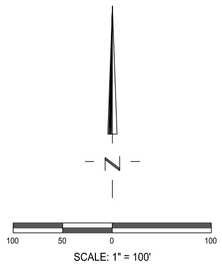
BEING A DIVISION OF THE E1/2 OF THE SW1/4 OF THE NE1/4 OF SECTION 23-18-24, IN THE CITY OF VISALIA, COUNTY OF TULARE, STATE OF CALIFORNIA.

OWNER: CORWYN OLDFIELD
4324 W. FERGUSON AVE.
VISALIA, CA. 93291
559-730-6910

ENGINEER: LANE ENGINEERS, INC.
979 N. BLACKSTONE STREET
TULARE, CA 93274
PH. (559) 688-5263

MAY 2024





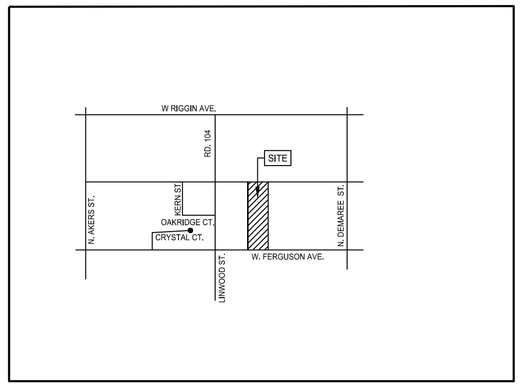
SCALE: 1" = 100'

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 4, NAD 83, AS DETERMINED BY GPS OBSERVATIONS RELATIVE TO THE CALIFORNIA SURVEYING AND DRAFTING, INC. VIRTUAL SURVEY NETWORK, EPOCH DATE 2011.

SITE DATA

PROPOSED USE	RESIDENTIAL
EXISTING USE	RESIDENTIAL
EXISTING ZONING	R-1-5
PROPOSED ZONING	R-1-5
WATER	CITY OF VISALIA
SOLID WASTE	CITY OF VISALIA
GAS	THE GAS COMPANY
POWER	EDISON
APN:	077-190-015
FLOOD ZONE	X (UNSHADED)



VICINITY MAP

NOT TO SCALE

ONE SHEET ONLY

JOB NO. 24001

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City of Visalia

315 E. Acequia Ave., Visalia, CA 93291

Site Plan Review

April 17, 2024

Site Plan Review No. 2024-045:

Pursuant to Zoning Ordinance Chapter 17.28 the Site Plan Review process has found that your application complies with the general plan, municipal code, policies, and improvement standards of the city. A copy of each Departments/Divisions comments that were discussed with you at the Site Plan Review meeting are attached to this document.

Based upon Zoning Ordinance Section 17.28.070, this is your Site Plan Review determination. However, your project requires discretionary action as stated on the attached Site Plan Review comments. You may now proceed with filing discretionary applications to the Planning Division.

This is your Site Plan Review Permit; your Site Plan Review became effective **March 20, 2024**. A site plan review permit shall lapse and become null and void one year following the date of approval unless, prior to the expiration of one year, a building permit is issued by the building official, and construction is commenced and diligently pursued toward completion.

If you have any questions regarding this action, please call the Community Development Department at (559) 713-4359.

Respectfully,

Paul Bernal
Community Development Director
315 E. Acequia Ave.
Visalia, CA 93291

Attachment(s):

- Site Plan Review Comments

City of Visalia

315 E. Acequia Ave., Visalia, CA 93291

Planning Division

Tel: (559) 713-4359; Fax: (559) 713-4814

MEETING DATE March 20, 2024

SITE PLAN NO. SPR 2024-045

PARCEL MAP NO.

SUBDIVISION

LOT LINE ADJUSTMENT NO.

Enclosed for your review are the comments and decisions of the Site Plan Review committee. Please review all comments since they may impact your project.

☐ **RESUBMIT** Major changes to your plans are required. Prior to accepting construction drawings for building permit, your project must return to the Site Plan Review Committee for review of the revised plans.

☐ During site plan design/policy concerns were identified, schedule a meeting with

☐ Planning ☐ Engineering prior to resubmittal plans for Site Plan Review.

☐ Solid Waste ☐ Parks and Recreation ☐ Fire Dept.

☑ **REVISE AND PROCEED** (see below)

☐ A revised plan addressing the Committee comments and revisions must be submitted for Off-Agenda Review and approval prior to submitting for building permits or discretionary actions.

☐ Submit plans for a building permit between the hours of 9:00 a.m. and 4:00 p.m., Monday through Friday.

☐ Your plans must be reviewed by:

☐ CITY COUNCIL ☐ REDEVELOPMENT

☑ PLANNING COMMISSION ☐ PARK/RECREATION

☑ TPM & CUP

☐ HISTORIC PRESERVATION ☐ OTHER:

☐ **ADDITIONAL COMMENTS:**

If you have any questions or comments, please call the Site Plan Review Hotline at (559) 713-4440
Site Plan Review Committee

SITE PLAN REVIEW COMMENTS

Josh Dan, Planning Division, 559-713-4003
Date: March 20, 2024

SITE PLAN NO:	2024-045
PROJECT TITLE:	Divide lot into four parcels for the development of new single-family home.
APPLICANT:	Ernesto J Aceves
LOCATION:	1344 S. Liberty Street
APN TITLE:	097-242-014

Planning Division Recommendation:

☒ Revise and Proceed
☐ Resubmit

Project Requirements

- Tentative Parcel Map (TPM)
- Conditional Use Permit (CUP)

PROJECT SPECIFIC INFORMATION: March 20, 2024

1. The applicant shall apply for a Tentative Parcel Map (TPM) to divide the parcel, and a Conditional Use Permit (CUP) for the creation of "land-locked" parcels.
2. As shown, the proposal does comply with the minimum lot size provisions of 17.12.
3. Comply with the requirements of the other divisions.

Note:

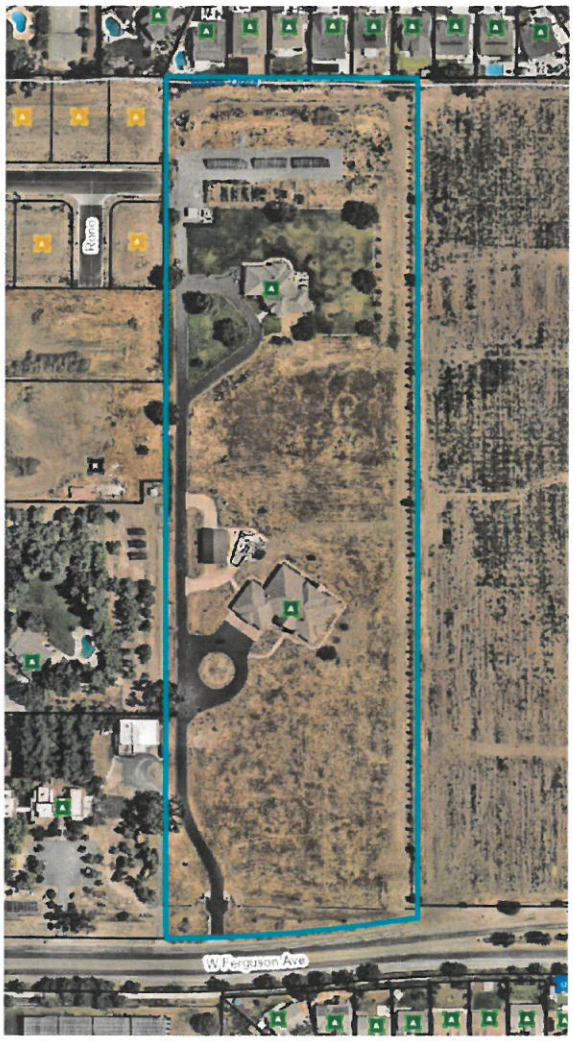
1. **The applicant shall contact the San Joaquin Valley Air Pollution Control District to verify whether additional permits are required through the District.**
2. **Prior to a final for the project, a signed Certificate of Compliance for the MWELO standards is required indicating that the landscaping has been installed to MWELO standards.**

Applicable sections of the Visalia Municipal Code, Title 17 (Zoning):

- **17.12 Single-Family Residential Zone**
- **17.34 Off-street parking and loading facilities**

NOTE: Staff recommendations contained in this document are not to be considered support for a particular action or project unless otherwise stated in the comments. The comments found on this document pertain to the site plan submitted for review on the above referenced date. Any changes made to the plan submitted must be submitted for additional review.

Signature:



SUBDIVISION & PARCEL MAP REQUIREMENTS
ENGINEERING DIVISION

☐	Lupe Garcia	713-4197
☒	Keyshawn Ford	713-4268
☐	Edelma Gonzalez	713-4364
☐	Sarah MacLennan	713-4271
☐	Luqman Ragabi	713-4362

ITEM NO: 4 DATE: MARCH 20, 2024

SITE PLAN NO.:	**24-045**
PROJECT TITLE:	**OLDFIELD TENTATIVE PARCEL MAP**
DESCRIPTION:	**SPLIT PROPERTY INTO 4 PARCELS TO ALLOW A SEPARATE PARCEL FOR THE TWO EXISTING HOMES**
APPLICANT:	**BEN MULLINS**
PROP. OWNER:	**CORWYN D & LOIS L OILFIELD**
LOCATION:	**4324 W FERGUSON AVE**
APN:	**077-190-015**

SITE PLAN REVIEW COMMENTS

☒ REQUIREMENTS (Indicated by checked boxes)

☐ Submit improvements plans detailing all proposed work; ☐ Subdivision Agreement will detail fees & bonding requirements

☐ Bonds, certificate of insurance, cash payment of fees/inspection, and approved map & plan required prior to approval of Final Map.

☒ The Final Map & Improvements shall conform to the Subdivision Map Act, the City's Subdivision Ordinance and Standard Improvements.

☐ A preconstruction conference is required prior to the start of any construction.

☐ Right-of-way dedication required. A title report is required for verification of ownership. ☐ by map ☐ by deed

☐ City Encroachment Permit Required which shall include an approved traffic control plan.

☐ CalTrans Encroachment Permit Required. ☐ CalTrans comments required prior to tentative parcel map approval. CalTrans contacts: David Deel (Planning) 488-4088

☐ Landscape & Lighting District/Home Owners Association required prior to approval of Final Map. Landscape & Lighting District will maintain common area landscaping, street lights, street trees and local streets as applicable. Submit completed Landscape and Lighting District application and filing fee a min. of 75 days before approval of Final Map.

☐ Landscape & irrigation improvement plans to be submitted for each phase. Landscape plans will need to comply with the City's street tree ordinance. The locations of street trees near intersections will need to comply with Plate SD-1 of the City improvement standards. A street tree and landscape master plan for all phases of the subdivision will need to be submitted with the initial phase to assist City staff in the formation of the landscape and lighting assessment district.

☐ Dedicate landscape lots to the City that are to be maintained by the Landscape & Lighting District.

☐ Northeast Specific Plan Area: Application for annexation into Northeast District required 75 days prior to Final Map approval.

☐ Written comments required from ditch company. Contacts: James Silva 747-1177 for Modoc, Persian, Watson, Oakes, Flemming, Evans Ditch and Peoples Ditches; Paul Hendrix 686-3425 for Tulare Irrigation Canal, Packwood and Cameron Creeks; Bruce George 747-5601 for Mill Creek and St. John's River.

☐ Final Map & Improvements shall conform to the City's Waterways Policy. ☐ Access required on ditch bank, 12' minimum. ☐ Provide wide riparian dedication from top of bank.

☒ Sanitary Sewer master plan for the entire development shall be submitted for approval prior to approval of any portion of the system. The sewer system will need to be extended to the boundaries of the development where future connection and extension is anticipated. The sewer system will need to be sized to serve any future developments that are anticipated to connect to the system. ***FUTURE PARCELS 1 & 3 TO INSTALL NEW SS LATERAL FOR SERVICE***

☒ Grading & Drainage plan required. If the project is phased, then a master plan is required for the entire project area that shall include pipe network sizing and grades and street grades. ☐ Prepared by registered civil engineer or project architect. ☒ All elevations shall be based on the City's benchmark network. Storm run-off from the project shall be handled as follows: a) ☒ directed to the City's existing storm drainage system; b) ☐ directed to a permanent on-site basin; or c) ☐ directed to a temporary on-site basin is required until a connection with adequate capacity is available to the City's storm drainage system. On-site basin:

: maximum side slopes, perimeter fencing required, provide access ramp to bottom for maintenance.

☐Show Valley Oak trees with drip lines and adjacent grade elevations. ☒ Protect Valley Oak trees during construction in accordance with City requirements. ☐A permit is required to remove Valley Oak trees. Contact Public Works Admin at (559)713-4428 for a Valley Oak tree evaluation or permit to remove. ☐ Valley Oak tree evaluations by a certified arborist are required to be submitted to the City in conjunction with the tentative map application. ☐ A pre-construction conference is required.

☐Show adjacent property grade elevations on improvement plans. A retaining wall will be required for grade differences greater than 0.5 feet at the property line.

☐Relocate existing utility poles and/or facilities.

☐Underground all existing overhead utilities within the project limits. Existing overhead electrical lines over 50kV shall be exempt from undergrounding.

☐Provide "R" value tests: each at

☐Traffic indexes per city standards:

☒All public streets within the project limits and across the project frontage shall be improved to their full width, subject to available right of way, in accordance with City policies, standards and specifications. ***SANTA FE BUILD-OUT AT TIME OF PARCEL DEVELOPMENT***

☒All lots shall have separate drive approaches constructed to City Standards. ***REFER TO CITY STDS***

☒Install street striping as required by the City Engineer. ***TO BE DETERMINED AT TIME OF CIVIL REVIEW***

☒Install sidewalk: ***6'*** ft. wide, with ***5'*** ft. wide parkway on ***ON FERGUSON***

☐Cluster mailbox supports required at 1 per 2 lots, or use postal unit (contact the Postmaster at 732-8073).

☐Subject to existing Reimbursement Agreement to reimburse prior developer:

☐Abandon existing wells per City of Visalia Code. A building permit is required.

☐Remove existing irrigation lines & dispose off-site. ☐Remove existing leach fields and septic tanks.

☒ Fugitive dust will be controlled in accordance with the applicable rules of San Joaquin Valley Air District's Regulation VIII. Copies of any required permits will be provided to the City.

☒ If the project requires discretionary approval from the City, it may be subject to the San Joaquin Valley Air District's Rule 9510 Indirect Source Review per the rule's applicability criteria. A copy of the approved AIA application will be provided to the City.

☒If the project meets the one acre of disturbance criteria of the State's Storm Water Program, then coverage under General Permit Order 2009-0009-DWQ is required and a Storm Water Pollution Prevention Plan (SWPPP) is needed. A copy of the approved permit and the SWPPP will be provided to the City.

☐Comply with prior comments ☐Resubmit with additional information ☒Redesign required

Additional Comments:

1. ***Coordinate with city staff for City parcel map requirements and processing fees.***

2. ***Project shall be required to complete frontage improvements on Ferguson Ave which may include but not be limited to sidewalk, parkway landscaping with street trees and a street light. Applicant shall coordinate necessary improvements with the subdivision to the east as it appears the subdivision will install sidewalk and parkway.***

3. ***Parcel map shall ensure that all rights and encumberances are conveyed correctly. Ensure that if the solar panels are to be utilized by only one parcel, the rights are conveyed that way on the parcel map.***

4. ***Parcels 1 & 3 shall be required to connect to City sewer at the time of development.***

SUMMARY OF APPLICABLE DEVELOPMENT IMPACT FEES

Site Plan No: **24-045**
Date: **03/20/2024**

Summary of applicable Development Impact Fees to be collected at the time of final/parcel map recordation:

(Preliminary estimate only! Final fees will be based on approved subdivision map & improvements plans and the fee schedule in effect at the time of recordation.)

(Fee Schedule Date:**08/19/2023**)
(Project type for fee rates:**(TENTATIVE PARCEL MAP**)

☐ Existing uses may qualify for credits on Development Impact Fees.

FEE ITEM	FEE RATE
☒ Trunk Line Capacity Fee	**DEFERRED UNTIL TIME OF DEVELOPMENT**
☒ Sewer Front Foot Fee	
☐ Storm Drainage Acquisition Fee	
☒ Park Acquisition Fee	
☐ Northeast Acquisition Fee Total Storm Drainage Block Walls Parkway Landscaping Bike Paths	
☒ Waterways Acquisition Fee	

Additional Development Impact Fees will be collected at the time of issuance of building permits.

City Reimbursement:

1.) No reimbursement shall be made except as provided in a written reimbursement agreement between the City and the developer entered into prior to commencement of construction of the subject planned facilities.
2.) Reimbursement is available for the development of arterial/collector streets as shown in the City's Circulation Element and funded in the City's transportation impact fee program. The developer will be reimbursed for construction costs and right of way dedications as outlined in Municipal Code Section 16.44. Reimbursement unit costs will be subject to those unit costs utilized as the basis for the transportation impact fee.
3.) Reimbursement is available for the construction of storm drain trunk lines and sanitary sewer trunk lines shown in the City's Storm Water Master Plan and Sanitary Sewer System Master Plan. The developer will be reimbursed for construction costs associated with the installation of these trunk lines.

Keyshawn Ford
Keyshawn Ford

SPR 24045
OLDFIELD TENTATIVE PARCEL MAP
077190015

City of Visalia

Building: Site Plan Review Comments

NOTE: These are general comments and DO NOT constitute a complete plan check for your specific project Please refer to the applicable California Code & local ordinance for additional requirements.

- ☐ A building permit will be required. ***For information call (559) 713-4444***
- ☐ Submit 1 digital set of professionally prepared plans and 1 set of calculations. (Small Tenant Improvements)
- ☐ Submit 1 digital set of plans prepared by an architect or engineer. Must comply with 2016 California Building Cod Sec. 2308 for conventional light-frame construction or submit 1 digital set of engineered calculations.
- ☐ Indicate abandoned wells, septic systems and excavations on construction plans.

You are responsible to ensure compliance with the following checked items:

- ☐ Meet State and Federal requirements for accessibility for persons with disabilities.
- ☐ A path of travel, parking and common area must comply with requirements for access for persons with disabilities.
- ☐ All accessible units required to be adaptable for persons with disabilities.
- ☐ Maintain sound transmission control between units minimum of 50 STC.
- ☐ Maintain fire-resistive requirements at property lines.
- ☐ A demolition permit & deposit is required. ***For information call (559) 713-4444***
- ☐ Obtain required permits from San Joaquin Valley Air Pollution Board. ***For information call (661) 392-5500***
- ☐ Plans must be approved by the Tulare County Health Department. ***For information call (559) 624-8011***
- ☐ Project is located in flood zone _____ * ☐ Hazardous materials report.
- ☐ Arrange for an on-site inspection. (Fee for inspection $157.00) ***For information call (559) 713-4444***
- ☐ School Development fees.
- ☐ Park Development fee $_____, per unit collected with building permits.
- ☐ Additional address may be required for each structure located on the site. ***For information call (559) 713-4320***
- ☐ Acceptable as submitted
- ☐ No comments at this time

Additional comments: VERIFY THE FOLLOWING WITH THE CITY OF VISALIA FIRE MARSHAL COREIN REED: THE WIDTH OF THE REQUIRED FIRE ACCESS ROAD AND ON-SITE FIRE HYDRANTS.

VAL GARCIA 3/19/24
Signature

Site Plan Comments
Visalia Fire Department
Corbin Reed, Fire Marshal
420 N. Burke
Visalia CA 93292
559-713-4272 office
prevention.division@visalia.city

Date	March 18, 2024
Item #	4
Site Plan #	24045
APN:	077190015

- The Site Plan Review comments are issued as **general overview** of your project. With further details, additional requirements will be enforced at the Plan Review stage. Please refer to the 2022 California Fire Code (CFC), 2022 California Building Codes (CBC) and City of Visalia Municipal Codes.

- Fire protection items are not required to be installed for **parcel map or lot line adjustment** at this time; however, any developments taking place on these parcels will be subject to fire & life safety requirements including fire protection systems and fire hydrants in accordance with all applicable sections of the California Fire Code.

Corbin Reed
Fire Marshal

City of Visalia
Police Department
303 S. Johnson St.
Visalia, CA 93292
(559) 713-4370

Date: 03/19/24
Item: 4
Site Plan: SPR24045
Name: Austin Huerta

Site Plan Review Comments

☑ No Comment at this time.

☐ Request opportunity to comment or make recommendations as to safety issues as plans are developed.

☐ Public Safety Impact Fee:
Ordinance No. 2001-11 Chapter 16.48 of Title 16 of the Visalia Municipal Code
Effective date - August 17, 2001.

☐ Impact fees shall be imposed by the City pursuant to this Ordinance as a condition of or in conjunction with the approval of a development project. "New Development or Development Project" means any new building, structure or improvement of any parcels of land, upon which no like building, structure of improvement previously existed. *Refer to Engineering Site Plan comments for fee estimation.

☐ Not enough information provided. Please provide additional information pertaining to:

☐ Territorial Reinforcement: Define property lines (private/public space).

☐ Access Controlled/ Restricted etc.

☐ lighting Concerns:

☐ Traffic Concerns:

☐ Surveillance Issues:

☐ Line of Sight Issues:

☐ Other Concerns:

SITE PLAN REVIEW COMMENTS

CITY OF VISALIA TRAFFIC SAFETY DIVISION

March 20, 2024

ITEM NO: 4 **Added to Agenda** **MEETING TIME: 09:45**

SITE PLAN NO: SPR24045 ASSIGNED TO: Josh Dan Josh.Dan@visalia.cit

PROJECT TITLE: Oldfield Tentative Parcel Map

DESCRIPTION: Owner desires to split property into 4 parcels to allow a separate parcel for the two existing homes, and allow for a third proposed home to be constructed. The last parcel will be developed at a future unknow time.

APPLICANT: Ben Mullins - Applicant

APN: 077190015

LOCATION: 4324 W. Ferguson Ave. Visalia, CA

THE TRAFFIC DIVISION WILL PROHIBIT ON-STREET PARKING AS DEEMED NECESSARY

☐ No Comments

☐ See Previous Site Plan Comments

☐ Install Street Light(s) per City Standards at time of development.

☐ Install Street Name Blades at Locations at time of development.

☐ Install Stop Signs at ***local road intersection with collector/arterial*** Locations.

☐ Construct parking per City Standards PK-1 through PK-4 at time of development.

☐ Construct drive approach per City Standards at time of development.

☐ Traffic Impact Analysis required (CUP)

- ☐ Provide more traffic information such as . Depending on development size, characteristics, etc., a TIA may be required.

☐ Additional traffic information required (Non Discretionary)

- ☐ Trip Generation - Provide documentation as to concurrence with General Plan.
- ☐ Site Specific - Evaluate access points and provide documentation of conformance with COV standards. If noncomplying, provide explanation.
- ☐ Traffic Impact Fee (TIF) Program - Identify improvments needed in concurrence with TIF.

Additional Comments:

- Deleware turnaround needed. Streetlight required at end of culdesac.

Leslie Blair

Leslie Blair

Susan Currier

From: Jessica Sandoval
Sent: Tuesday, March 19, 2024 8:48 AM
To: Josh Dan; Susan Currier
Cc: Ben Litwack; Nick Bartsch; Val Garcia; Rick Paredez
Subject: SPR 03/20/22024- WASTEWATER COMMENTS
Attachments: 03.06.23 SPR 24038 AMERICAN SPORT CENTER.pdf; 03.20.24 SPR 24050 Commercial Development.pdf

Good Morning,

Please see below for the comments for this week's SPR projects

SPR 23197-1 No comment
SPR 240381 American Sport Center, see prev. comments attached
SPR 24050 Commercial Development-FSE Questionnaire and possibly a grease trap. See attached
SPR 24045 Oldfield Tentative Parcel: No comment on parcel split
SPR 24047-Bloom Group- No comments

Sincerely,

Jessica Sandoval

Jessica Sandoval
Pretreatment Program Coordinator
City of Visalia WRF, QA Division
7579 Avenue 288
Visalia, CA 93277
Phone: 559-713-4529
Cell: 559 309-5170
Fax: 559-713-4501

CITY OF VISALIA
SOLID WASTE DIVISION
336 N. BEN MADDOX
VISALIA CA. 93291
713 - 4532
COMMERCIAL BIN SERVICE

24045

March 20, 2024

	No comments.
XX	See comments below
	Revisions required prior to submitting final plans. See comments below.
	Resubmittal required. See comments below.
XX	Customer responsible for all cardboard and other bulky recyclables to be broken down before disposing of in recycle containers
	ALL refuse enclosures must be city standard R-1 OR R-2 & R-3 OR R-4
	Customer must provide combination or keys for access to locked gates/bins
XX	Type of refuse service not indicated.
	Location of bin enclosure not acceptable. See comments below.
	Bin enclosure insufficient to comply with state recycling mandates. See comments for suggestions.
	Inadequate number of bins to provide sufficient service. See comments below.
	Drive approach too narrow for refuse trucks access. See comments below.
	Area not adequate for allowing refuse truck turning radius of : Commercial 50 ft. outside 36 ft. inside; Residential 35 ft. outside, 20 ft. inside.
	Paved areas should be engineered to withstand a 55,000 lb. refuse truck.
	Bin enclosure gates are required
	Hammerhead turnaround must be built per city standards.
	Cul - de - sac must be built per city standards.
	Bin enclosures are for city refuse containers only. Grease drums or any other items are not allowed to be stored inside bin enclosures.
	Area in front of refuse enclosure must be marked off indicating no parking
	Enclosure will have to be designed and located for a STAB service (DIRECT ACCESS) with no less than 38' clear space in front of the bin, included the front concrete pad.
XX	Customer will be required to roll container out to curb for service.
	Must be a concrete slab in front of enclosure as per city standards, the width of the enclosure by ten(10) feet, minimum of six(6) inches in depth.
	Roll off compactor's must have a clearance of 3 feet from any wall on both sides and there must be a minimum of 53 feet clearance in front of the compactor to allow the truck enough room to provide service.
	City ordinance 8.28.120-130 (effective 07/19/18) requires contractor to contract with City for removal of construction debris unless transported in equipment owned by contractor or unless contracting with a franchise permittee for removal of debris utilizing roll-off boxes.
Comment	Solid waste has no comments regarding the proposed parcel split but does want to remind the customer that city standard (3 can) residential services to be assigned per address and that all cans will be required to be rolled to W. Ferguson for their scheduled collections.

Jason Serpa, Solid Waste Manager, 559-713-4533
Edward Zuniga, Solid Waste Supervisor, 559-713-4338
Nathan Garza, Solid Waste, 559-713-4532

CALIFORNIA WATER SERVICE

Visalia District 216 North Valley Oaks Drive
Visalia, CA 93292 *Tel:* (559) 624-1600

Site Plan Review Comments From: California Water Service Scott McNamara, Superintendent 216 N Valley Oaks Dr. Visalia, CA 93292 559-624-1622 Office smcnamara@calwater.com	Date: 03/20/2024 Item # 4 Site Plan # 24-045 Project: Oldfield Tentative Parcel Map Description: Split into four parcels Applicant: Ben Mullens APN: 077-190-015 Address: 4324 W Ferguson

The following comments are applicable when checked:

☐ No New Comments

☐ **Water Mains:**
Comments:

☒ **Water Services:**
Comments: One existing service at this location as the parcel currently sits. With the proposed parcel split, each parcel will be required to have its own individual service. Cal Water will need to see that there is cross-access agreement between the parcels as the house lines will be crossing multiple parcels.

☒ **Fire Hydrants:**
Comments: Fire hydrants will be installed per the Visalia Fire Departments requirements. If fire hydrants are required for your project off an existing water main, Cal Water will utilize our own contractor (West Valley) for installation. This work will be paid for by the property owner/developer.

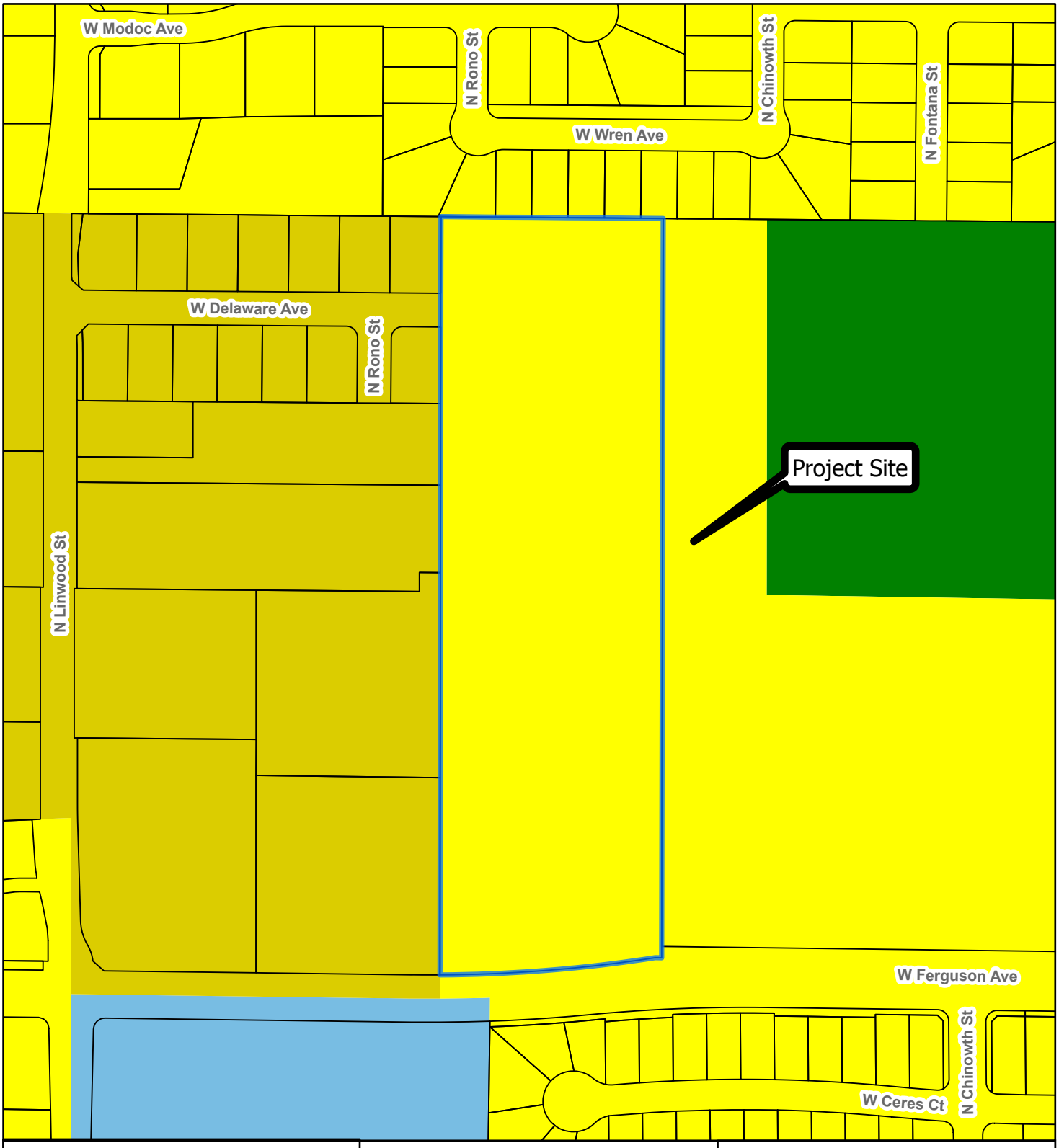
☒ **Backflow Requirements:**
Comments: A backflow is required if any parcel is for multi-family, commercial, or has multiple services. Please contact Cross Connection Control Specialist Juan Cisneros at *559-624-1670* or *visaliabackflow@calwater.com* for a backflow install packet.

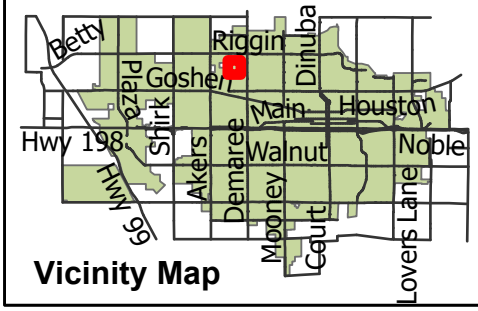
Additional Comments:

☒ Please contact New Business Superintendent Sedelia Sanchez at *559-624-1621 or ssanchez@calwater.com* to start you project with Cal Water.

☐

☐





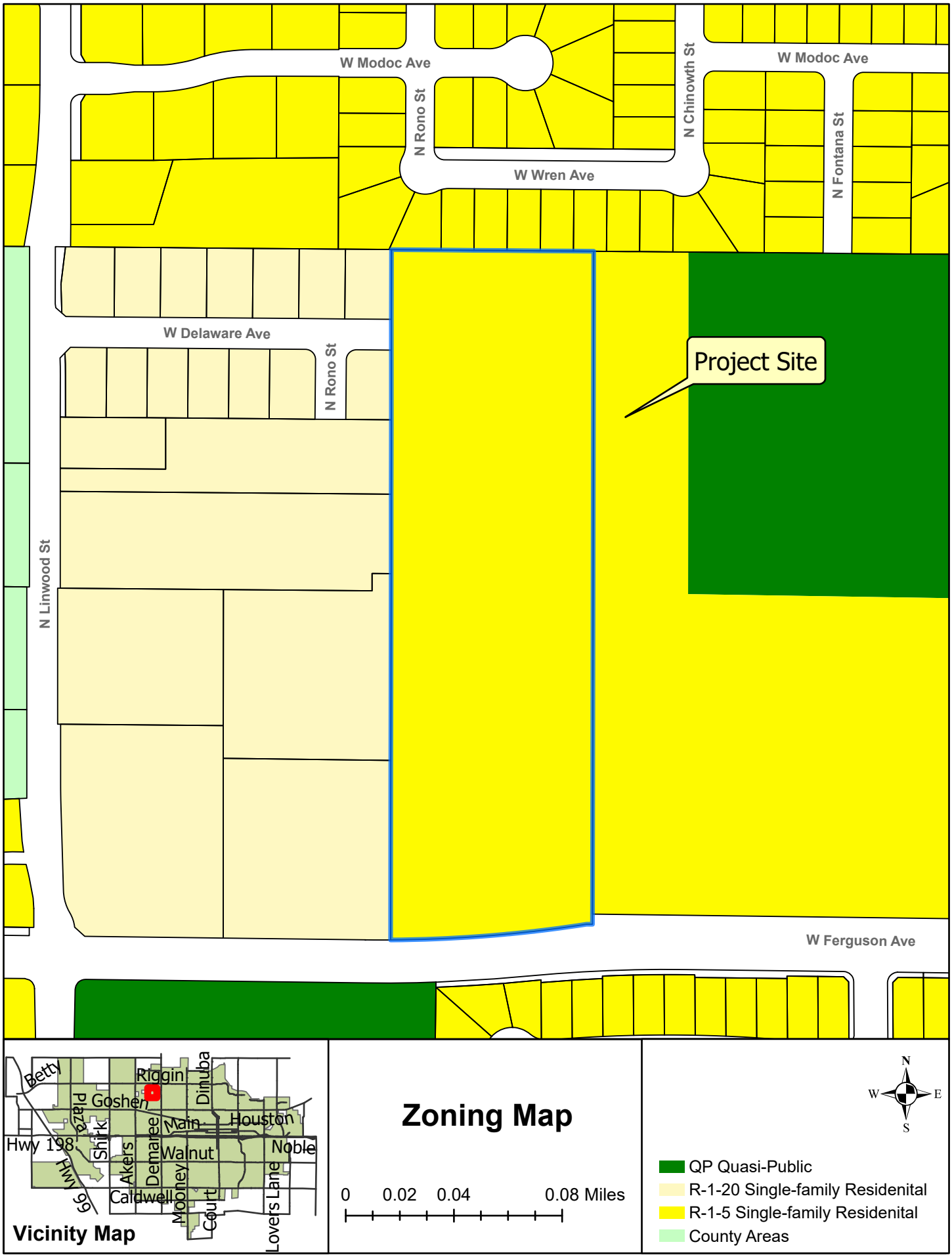
Vicinity Map

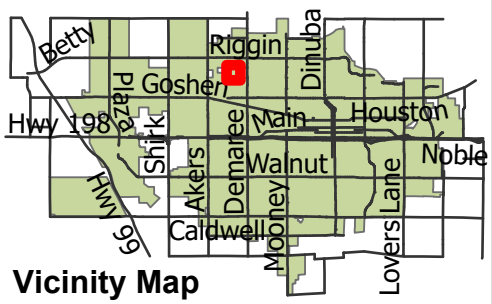
General Plan Land Use Map

0 0.02 0.04 0.09 Miles

N
W E
S

- Public Institutional
- Parks/Recreation
- Residential Low Density
- Residential Very Low Density


W Modoc Ave
W Modoc Ave
N Rono St
N Chinowth St
N Fontana St
W Wren Ave
W Delaware Ave
N Rono St
Project Site
N Linwood St
W Ferguson Ave
Vicinity Map
Betty
Riggin
Dinuba
Goshen
Plaza
Shirk
Main
Houston
Hwy 198
Akers
Demaree
Walnut
Noble
Hwy 99
Caldwell
Mooney
Court
Lovers Lane
Zoning Map
0
0.02
0.04
0.08 Miles
N
W
E
S
QP Quasi-Public
R-1-20 Single-family Residenital
R-1-5 Single-family Residenital
County Areas



Vicinity Map

Aerial Map

0 0.03 0.06 0.11 Miles

N
W E
S

VISALIA

Founded 1852

N Rono St
W Wren Ave
N Fontana St
MODOC
W Delaware Ave
N Rono St
N Linwood St
Project Site
W Ferguson Ave
W Ceres Ct
N Chinowth St
Betty
Riggin
Dinuba
Goshen
Plaza
Shirk
Main
Houston
Hwy 198
Akers
Demaree
Walnut
Noble
Hwy 99
Caldwell
Mooney
Court
Lovers Lane
Vicinity Map
Vicinity
0
0.02
0.04
0.09 Miles
N
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VISALIA
Founded 1852

REPORT TO CITY OF VISALIA PLANNING COMMISSION

HEARING DATE: August 12, 2024

PROJECT PLANNER: Fabian Urena, Planning Intern
Phone: (559) 713-4031
Email: fabian.urena@visalia.city

SUBJECT: **Conditional Use Permit No. 2024-25**: A request by RBL Aesthetics to establish an aesthetic treatment academy in the D-MU (Downtown Mixed Use) zone. The project is located at 220 South Bridge Street (APN: 094-304-006).

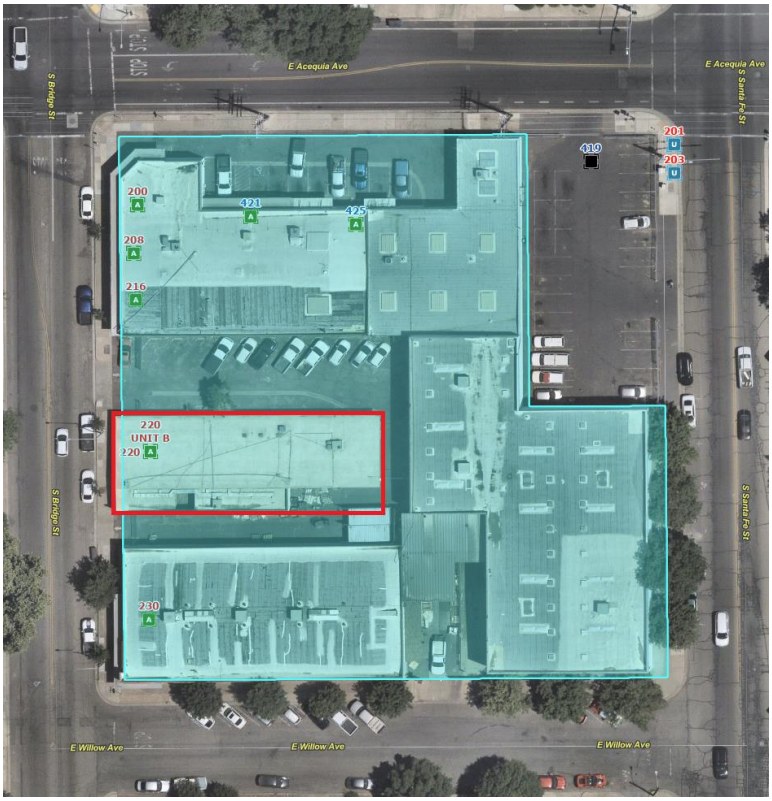
STAFF RECOMMENDATION

Staff recommends approval of Conditional Use Permit No. 2024-25 based upon the findings and conditions in Resolution No. 2024-42. Staff's recommendation is based on the project's consistency with the City's General Plan and Zoning Ordinance.

RECOMMENDED MOTION

I move to approve Conditional Use Permit No. 2024-25 based on the findings and conditions in Resolution No. 2024-42.

PROJECT DESCRIPTION



Conditional Use Permit No. 2024-25 is a request by RBL Aesthetics to establish an aesthetic academy within an existing 3,496 square foot building located at 220 South Bridge Street. RBL Aesthetics is a beauty studio specializing in permanent makeup and various beauty services. The applicant is seeking to expand on the services provided by offering training services in the form of an academy to assist those interested in enhancing their current beauty business or those starting new ventures in the beauty service industry. Training academies and similar uses are conditionally allowed in the zone therefore requiring a conditional use permit.

Per the Operational Statement (Exhibit "B") RBL Aesthetics seeks to provide courses with an internship component every six months, anticipating enrollment of three to ten students. Additionally, short-term training courses ranging from one to seven days a week monthly will also be offered concurrently with a maximum enrollment of 5 students per instructor. For both the six-month

academy and the short-term sessions, two instructors will be utilized to instruct the training courses. All courses will operate out of the salon location.

The floor plan (Exhibit “A”) details the layout of the tenant space to be utilized by both the salon use and instructional academy. The main entrance of the building is on the north side of the space and leads to an open floor plan with additional break out rooms and spaces utilized for the following use:

- Three (3) Beauty Service rooms located in the main area utilized for clients
- Two (2) single stall restrooms located on the east side of the building
- One (1) kitchen space utilized for staff located on the east side of the building
- Three (3) rooms utilized for Esthetician use located on the south side of the building
- Two (2) rooms utilized as office use located on the south side of the building
- One (1) large room utilized as classroom space located on the southeast side of the building

The rear of the building is not included in the use and is labeled as “Not a Part” per the submitted site plan and is a separate tenant space with dividing walls. There is no access to this neighboring use from the space to be utilized by the applicant. There are no exterior modifications proposed to this space.

BACKGROUND INFORMATION

General Plan Land Use Designation	Downtown Mixed Use
Zoning	D-MU (Downtown Mixed Use)
Surrounding Zoning and Land Use	North: D-MU (Downtown Mixed Use) – Smith Auto Parts South: D-MU (Downtown Mixed Use) – Genuine Paints Automotive Industrial East: D-MU (Downtown Mixed Use) – NAPA Auto Parts West: D-MU (Downtown Mixed Use) – City of Visalia, City Hall East
Environmental Review	Categorical Exemption No. 2024-35
Site Plan	SPR No. 2024-024

PROJECT EVALUATION

Staff recommends approval of Conditional Use Permit No. 2024-25, as conditioned, based on the project’s consistency with the General Plan Land Use and Zoning Ordinance.

Land Use Compatibility

The Visalia Zoning Matrix identifies specialized schools as conditionally allowed in the Downtown Mixed-Use zone. Based on the operational statement provided by the applicant (Exhibit “B”) the frequency and the number of students potentially enrolled in the academy sessions conducted at the site, staff determined the academy to not be ancillary but rather identified as a specialized

school therefore requiring a conditional use permit. Through the CUP process, potential impacts can be addressed thereby ensuring compatibility between the proposed use and existing surrounding uses.

Additionally, as staff mentioned, the site will also operate as a beauty studio providing beauty services for customers, which is permitted by right within the Downtown Mixed-Use Zone.

The training academy provided by RBL Aesthetics seeks to conduct courses to enhance established business or to assist individuals embarking on new ventures. This is similar to other types of trade schools that seek to provide job opportunities for those interested in different, non-traditional types of careers. Furthermore, the City of Visalia General Plan contains land use policies that promote economic development that captures "*emerging market sectors*" that "*provide opportunities for skill training, complement existing goods and services, and have minimal negative impact on the environment and require minimal public investment*" (LU-P-1). Additionally, this type of academy supports policy PSCU-P-39 of the General Plan by promoting the location of development of alternative education programs. This project will provide both skill and workforce training through classes and internship opportunities provided by the beauty studio.

Operation

RBL Aesthetics academy will run concurrently with the beauty studio and will operate Monday through Saturday, starting at 9:00 AM to 5:00 PM. Front gates will be accessible and open during those hours. RBL Aesthetics comprises three committed employees who provide assistance, training and support during operational hours. The academy offers courses with an internship every 6 months, operated by 2 instructors for a maximum of 10 students. Courses offered would range from one to seven days monthly with a maximum of 5 students per instructor. Practitioners operating as independent contractors, will administer permanent makeup procedures. Aside from the students being taught there may be up to 4 independent non students using the existing open floor space for beauty studio clients.

Parking

The subject site provides a total of ten (10) parking stalls located on the north side of the property in a gated area. Per the VMC parking ordinance, the required parking spaces for trade schools is one (1) parking space for each beautician or employee plus ten (10) spaces for each classroom. RBL Aesthetics proposes the use of one classroom and 2 instructors on site therefore requiring a total of 12 stalls which is more than what the site has to offer (10 parking stalls).

However, pursuant to Assembly Bill 2097, which went into effect January 1, 2023, prohibits public agencies from imposing minimum parking requirements on sites that are located within a half-mile radius of a major transit stop.

The City of Visalia Transit operates bus service along Route 1 with bus stops located on Main Street and Mooney Boulevard. Route 1 meets the definition of a "major transit stop" and the project site is within a half mile of Route 1 bus stops and the transit center. Therefore, the site meets parking provisions per AB 2097,as the site is located close to Main Street, approximately 0.07 miles, which is considered a major transit line therefore not allowing the city to require sites to meet minimum parking requirements.

Environmental Review

The requested action is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA). (Categorical Exemption No. 2024-35). Projects determined to meet this classification consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of the use beyond that existing at the time of the lead agency's determination. The types of "existing facilities" itemized in the Class 1 are not intended to be all-inclusive of the types of projects.

RECOMMENDED FINDINGS

1. That the proposed project will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
2. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance. Specifically, the project is consistent with the required findings of Zoning Ordinance Section 17.38.110:
    a. The proposed location of the conditional use permit is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located.
    b. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity.
3. That the project is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA). (Categorical Exemption No. 2023-35).

RECOMMENDED CONDITIONS OF APPROVAL

1. That the Conditional Use Permit shall be developed consistent with the comments and conditions of Site Plan Review No. 2024-024, incorporated herein by reference.
2. That the use shall be operated in substantial compliance with the site plan, floor plan, and operational statement, in Exhibits "A", and "B". Any changes or intensification of the use are subject to review by the City Planner and may subsequently be required to be reviewed by the Planning Commission.
3. All new building signage shall require a separate building permit and shall be designated consistent with the Sign Ordinance of the City of Visalia Chapter 17.48.
4. That all other federal, state and city laws, codes and ordinances be complied with.

APPEAL INFORMATION

According to the City of Visalia Zoning Ordinance Section 17.02.145, an appeal to the City Council may be submitted within ten days following the date of a decision by the Planning Commission. An appeal form with applicable fees shall be filed with the City Clerk at 220 N. Santa Fe Street, Visalia, CA. The appeal shall specify errors or abuses of discretion by the Planning Commission, or decisions not supported by the evidence in the record. The appeal form can be found on the city's website www.visalia.city or from the City Clerk.

Attachments:

- Related Plans and Policies
- Resolution No. 2024-42
- Exhibit "A" – Site Plan and Floor Plan
- Exhibit "B" – Operational Statement
- Site Plan Review Comments No. 2024-024
- General Plan Land Use Map
- Zoning Map
- Aerial Photo
- Vicinity Map

Environmental Document # 2024-35

NOTICE OF EXEMPTION

City of Visalia
315 E. Acequia Ave.
Visalia, CA 93291

To: County Clerk
County of Tulare
County Civic Center
Visalia, CA 93291-4593

Conditional Use Permit No. 2024-25
PROJECT TITLE

The site is located at 220 S. Bridge St (APN: 094-304-006)
PROJECT LOCATION

Visalia	Tulare
PROJECT LOCATION - CITY	**COUNTY**

A request by RBL Aesthetics to establish an aesthetic treatment academy in the D-MU (Downtown Mixed Use) zone.
DESCRIPTION - Nature, Purpose, & Beneficiaries of Project

City of Visalia
NAME OF PUBLIC AGENCY APPROVING PROJECT

Jessica Bautista, RBL Aesthetics, 2931 S Mooney Blvd, Visalia 93277
NAME AND ADDRESS OF APPLICANT CARRYING OUT PROJECT

Same as above
NAME AND ADDRESS OF AGENT CARRYING OUT PROJECT

EXEMPT STATUS: (Check one)

☐ Ministerial - Section 15073
☐ Emergency Project - Section 15071
☒ Categorical Exemption - State type and Section number: **Section 15301**
☐ Statutory Exemptions- State code number:

A request by RBL Aesthetics to establish an aesthetic treatment academy in the D-MU (Downtown Mixed Use) zone, constituting only minor changes to existing facilities with similar neighboring uses.
REASON FOR PROJECT EXEMPTION

Colleen A. Moreno, Assistant Planner	**(**559) 713-4031
CONTACT PERSON	**AREA CODE/PHONE**

July 23, 2024	
DATE	**Brandon Smith, AICP** **Environmental Coordinator**

RELATED PLANS AND POLICIES

Related Plans & Policies
Conditional Use Permits
(Section 17.38)

17.38.010 Purposes and powers

In certain zones conditional uses are permitted subject to the granting of a conditional use permit. Because of their unusual characteristics, conditional uses require special consideration so that they may be located properly with respect to the objectives of the zoning ordinance and with respect to their effects on surrounding properties. In order to achieve these purposes and thus give the zone use regulations the flexibility necessary to achieve the objectives of this title, the planning commission is empowered to grant or deny applications for conditional use permits and to impose reasonable conditions upon the granting of such permits. (Prior code § 7525)

17.38.020 Application procedures

A. Application for a conditional use permit shall be made to the planning commission on a form prescribed by the commission which shall include the following data:

1. Name and address of the applicant;
2. Statement that the applicant is the owner of the property or is the authorized agent of the owner;
3. Address and legal description of the property;
4. The application shall be accompanied by such sketches or drawings as may be necessary by the planning division to clearly show the applicant's proposal;
5. The purposes of the conditional use permit and the general description of the use proposed;
6. Additional information as required by the historic preservation advisory committee.

B. The application shall be accompanied by a fee set by resolution of the city council sufficient to cover the cost of handling the application. (Prior code § 7526)

17.38.030 Lapse of conditional use permit

A conditional use permit shall lapse and shall become void twenty-four (24) months after the date on which it became effective, unless the conditions of the permit allowed a shorter or greater time limit, or unless prior to the expiration of twenty-four (24) months a building permit is issued by the city and construction is commenced and diligently pursued toward completion on the site which was the subject of the permit. A permit may be renewed for an additional period of one year; provided, that prior to the expiration of twenty-four (24) months from the date the permit originally became effective, an application for renewal is filed with the planning commission. The commission may grant or deny an application for renewal of a conditional use permit. In the case of a planned residential development, the recording of a final map and improvements thereto shall be deemed the same as a building permit in relation to this section. (Ord. 2001-13 § 4 (part), 2001: prior code § 7527)

17.38.040 Revocation

Upon violation of any applicable provision of this title, or, if granted subject to a condition or conditions, upon failure to comply with the condition or conditions, a conditional use permit shall be suspended automatically. The planning commission shall hold a public hearing within sixty (60) days, in accordance with the procedure prescribed in Section 17.38.080, and if not satisfied that the regulation, general provision or condition is being complied with, may revoke the permit or take such action as may be necessary to insure compliance with the regulation, general provision or condition. Appeals of the decision of the planning commission may be made to the city council as provided in Section 17.38.120. (Prior code § 7528)

17.38.050 New application

Following the denial of a conditional use permit application or the revocation of a conditional use permit, no application for a conditional use permit for the same or substantially the same conditional use on the same or substantially the same site shall be filed within one year from the date of denial or revocation of the permit unless such denial was a denial without prejudice by the planning commission or city council. (Prior code § 7530)

17.38.060 Conditional use permit to run with the land

A conditional use permit granted pursuant to the provisions of this chapter shall run with the land and shall continue to be valid upon a change of ownership of the site or structure which was the subject of the permit application subject to the provisions of Section 17.38.065. (Prior code § 7531)

17.38.065 Abandonment of conditional use permit

If the use for which a conditional use permit was approved is discontinued for a period of one hundred eighty (180) days, the use shall be considered abandoned and any future use of the site as a conditional use will require the approval of a new conditional use permit.

17.38.070 Temporary uses or structures

A. Conditional use permits for temporary uses or structures may be processed as administrative matters by the city planner and/or planning division staff. However, the city planner may, at his/her discretion, refer such application to the planning commission for consideration.

B. The city planner and/or planning division staff is authorized to review applications and to issue such temporary permits, subject to the following conditions:

1. Conditional use permits granted pursuant to this section shall be for a fixed period not to exceed thirty (30) days for each temporary use not occupying a structure, including promotional enterprises, or six months for all other uses or structures.

2. Ingress and egress shall be limited to that designated by the planning division. Appropriate directional signing, barricades, fences or landscaping shall be provided where required. A security officer may be required for promotional events.

3. Off-street parking facilities shall be provided on the site of each temporary use as prescribed in Section 17.34.020.

4. Upon termination of the temporary permit, or abandonment of the site, the applicant shall remove all materials and equipment and restore the premises to their original condition.

5. Opening and closing times for promotional enterprises shall coincide with the hours of operation of the sponsoring commercial establishment. Reasonable time limits for other uses may be set by the city planner and planning division staff.

6. Applicants for a temporary conditional use permit shall have all applicable licenses and permits prior to issuance of a conditional use permit.

7. Signing for temporary uses shall be subject to the approval of the city planner.

8. Notwithstanding underlying zoning, temporary conditional use permits may be granted for fruit and vegetable stands on properties primarily within undeveloped agricultural areas. In reviewing applications for such stands, issues of traffic safety and land use compatibility shall be evaluated and mitigation measures and conditions may be imposed to ensure that the stands are built and are operated consistent with appropriate construction standards, vehicular access and off-street parking. All fruits and vegetables sold at such stands shall be grown by the owner/operator or purchased by said party directly from a grower/farmer.

C. The applicant may appeal an administrative decision to the planning commission. (Ord. 9605 § 30 (part), 1996: prior code § 7532)

17.38.080 Public hearing--Notice

A. The planning commission shall hold at least one public hearing on each application for a conditional use permit.

B. Notice of the public hearing shall be given not less than ten days nor more than thirty (30) days prior to the date of the hearing by mailing a notice of the time and place of the hearing to property owners within three hundred (300) feet of the boundaries of the area occupied or to be occupied by the use which is the subject of the hearing, and by publication in a newspaper of general circulation within the city. (Prior code § 7533)

17.38.090 Investigation and report

The planning staff shall make an investigation of the application and shall prepare a report thereon which shall be submitted to the planning commission. (Prior code § 7534)

17.38.100 Public hearing--Procedure

At the public hearing the planning commission shall review the application and the statement and drawing submitted therewith and shall receive pertinent evidence concerning the proposed use and the proposed conditions under which it would be operated or maintained, particularly with respect to the findings prescribed in Section 17.38.110. The planning commission may continue a public hearing from time to time as it deems necessary. (Prior code § 7535)

17.38.110 Action by planning commission

A. The planning commission may grant an application for a conditional use permit as requested or in modified form, if, on the basis of the application and the evidence submitted, the commission makes the following findings:

1. That the proposed location of the conditional use is in accordance with the objectives of the zoning ordinance and the purposes of the zone in which the site is located;

2. That the proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety or welfare, or materially injurious to properties or improvements in the vicinity.

B. A conditional use permit may be revocable, may be granted for a limited time period, or may be granted subject to such conditions as the commission may prescribe. The commission may grant conditional approval for a permit subject to the effective date of a change of zone or other ordinance amendment.

C. The commission may deny an application for a conditional use permit. (Prior code § 7536)

17.38.120 Appeal to city council

The decision of the City planning commission on a conditional use permit shall be subject to the appeal provisions of Section 17.02.145. (Prior code § 7537) (Ord. 2006-18 § 6, 2007)

17.38.130 Effective date of conditional use permit

A conditional use permit shall become effective immediately when granted or affirmed by the council, or upon the sixth working day following the granting of the conditional use permit by the planning commission if no appeal has been filed.(Prior code § 7539)

RESOLUTION NO. 2024-42

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING CONDITIONAL USE PERMIT NO. 2024-25, A REQUEST BY RBL AESTHETICS TO ESTABLISH AN AESTHETIC TREATMENT ACADEMY WITHIN AN EXISTING 3,496 SQUARE FOOT LEASED OFFICE BUILDING IN THE D-MU (DOWNTOWN MIXED USE) ZONE. THE SITE IS LOCATED AT 220 SOUTH BRIDGE STREET (APN: 094-304-006).

WHEREAS, Conditional Use Permit No. 2024-25 is a request by RBL Aesthetics to establish an aesthetic treatment academy in the D-MU (Downtown Mixed Use) zone. The project is located at 220 South Bridge Street (APN: 094-304-006); and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice, did hold a public hearing before said Commission on August 12, 2024; and

WHEREAS, the Planning Commission of the City of Visalia finds the Conditional Use Permit to be in accordance with Section 17.38.110 of the Zoning Ordinance of the City of Visalia based on the evidence contained in the staff report and testimony presented at the public hearing; and

WHEREAS, the Planning Commission finds the project to be Categorically Exempt consistent with the California Environmental Quality Act (CEQA) and City of Visalia Environmental Guidelines.

NOW, THEREFORE, BE IT RESOLVED that the project is exempt from further environmental review pursuant to CEQA Section 15301.

BE IT FURTHER RESOLVED that the Planning Commission of the City of Visalia makes the following specific findings based on the evidence presented:

1. That the proposed project will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
2. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance. Specifically, the project is consistent with the required findings of Zoning Ordinance Section 17.38.110:
    a. The proposed location of the conditional use permit is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located.
    b. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity.
3. That the project is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA), Categorical Exemption No. 2023-35.

BE IT FURTHER RESOLVED that the Planning Commission hereby approves the Conditional Use Permit on the real property here described in accordance with the terms of this resolution under the provisions of Section 17.38.110 of the Ordinance Code of the City of Visalia, subject to the following conditions:

1. That the Conditional Use Permit shall be developed consistent with the comments and conditions of Site Plan Review No. 2024-024, incorporated herein by reference.
2. That the use shall be operated in substantial compliance with the site plan, floor plan, and operational statement, in Exhibits “A”, and “B”. Any changes or intensification of the use are subject to review by the City Planner and may subsequently be required to be reviewed by the Planning Commission.
3. All new building signage shall require a separate building permit and shall be designated consistent with the Sign Ordinance of the City of Visalia Chapter 17.48.
4. That all other federal, state and city laws, codes and ordinances be complied with.

Exhibit "A"

OPERATIONAL STATEMENT

- AT 220 S. BRIDGE ST., OUR OPERATIONAL STRATEGY ENTAILS OFFERING OUR CLIENTELE PERMANANT MAKEUP TRAINING SERVICES AND VARIOUS AESTHETIC TREATMENTS. ADDITIONALLY ,AS AN ACADEMY WE CONDUCT COURSES TO ENHANCE ESTABLISHED BUSINESSES OR ASSIST THOSE EMBARKING ON NEW VENTURES. ANTICIPATING AN ENROLLMENT RANGING FROM 3 TO 10 STUDENTS CONCURRENTLY WITHIN OUR ACADEMY.

- OPERATING HOURS ARE DESIGNATED FROM MONDAY TO SATURDAY, 9:00 AM TO 5:00 PM. THROUGHOUT OUR OPERATIONAL HOURS, THE FRONT GATES WILL BE ACCESSIBLE AND OPEN. OUR TEAM COMPRISES THREE COMMITTED EMPLOYEES WHO PROVIDE ASSISTANCE, TRAINING AND SUPPORT DURING THESE HOURS.

- WE OFFER COURSES WITH AN INTERNSHIP EVERY 6 MONTHS. THE NUMBER OF INSTRUCTORS WILL BE 2 FOR A MAXIMUM OF 10 STUDENTS EVERY SIX MONTHS. WE ALSO OFFER COURSES THAT RANGE FROM 1-7 DAYS MONTHLY WITH A MAXIMUM OF 5 STUDENTS PER INSTRUCTOR (2 INSTRUCTORS AS NOTED) OUR PRACTITIONERS, OPERATING AS INDEPENDENT CONTRACTORS, WILL ADMINISTER PERMANENT MAKEUP PROCEDURES. ASIDE FROM THE STUDENTS BEING TAUGHT THERE MAY BE UP TO 4 INDEPENDENT NON STUDENTS USING THE EXISTING OPEN FLOOR SPACE.

PROPERTY OWNER:

LARRY J. RITCHIES FAMILY LP
220 S. BRIDGE
VISALIA CA,

APPLICANT:

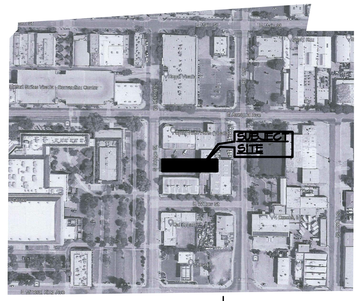
RBL AESTHETICS
JESSICA BAUTISTA
559-741-3567
info@rblaesthetics.com

SITE INFO:

EXISTING USE: VACANT

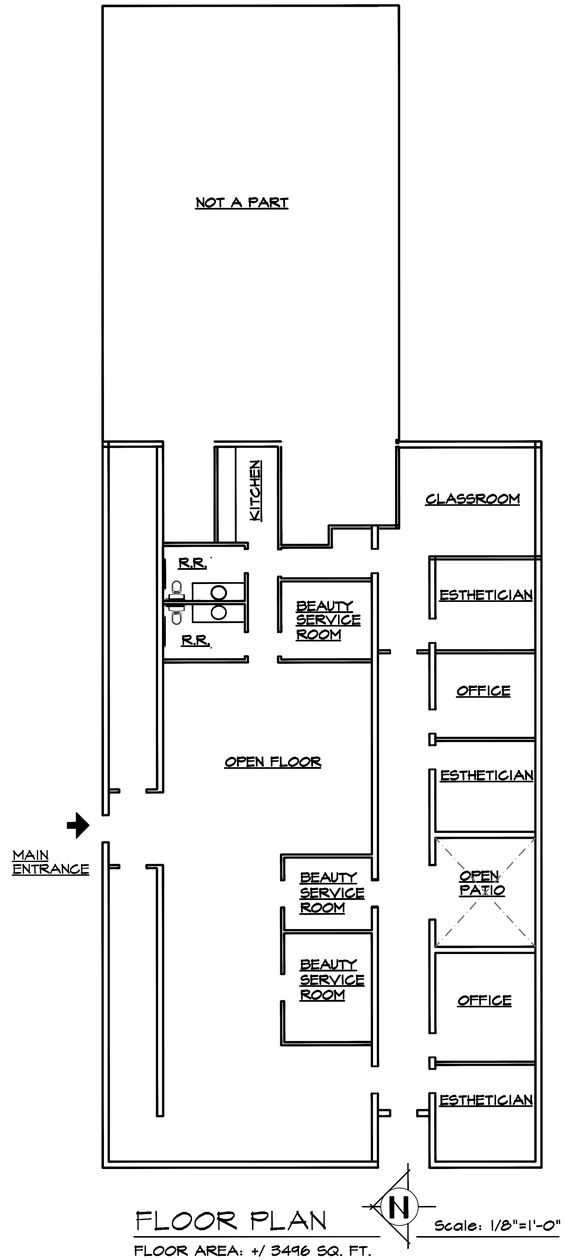
PROPOSED: ACADEMY
SPR: 2024-024
ZONING: D-MU
APN 094-304-006 1.4 AC.
SUBJECT BLDG. +/- 3496 SQ. FT.

TELEPHONE: SBC TELEPHONE CO.
WATER: CALIFORNIA WATER SERVICE CO.
REFUSE:CITY OF VISALIA, CURBSIDE
SEWER: CITY OF VISALIA
STORM: CITY OF VISALIA
GAS: THE GAS CO.
POWER: SOUTHERN CALIF. EDISON CO.



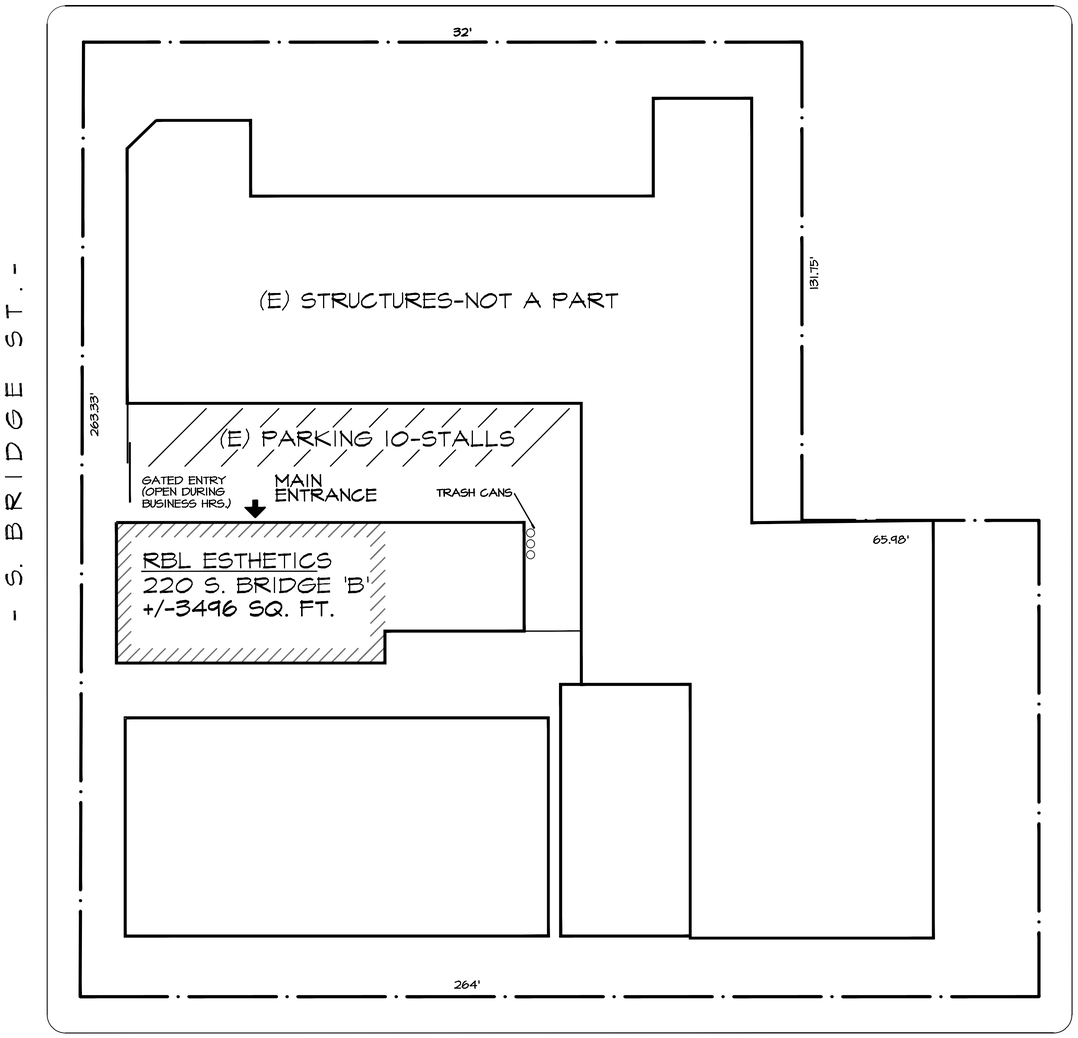
VICINITY MAP — No Scale

APN 094-304-006
220 S. BRIDGE ST.
VISALIA, CA.



FLOOR PLAN — Scale: 1/8"=1'-0"

FLOOR AREA: +/ 3496 SQ. FT.



SITE PLAN — Scale:1"= 10'-0"

APN 094-304-006
220 S. BRIDGE ST.
VISALIA, CA.

STEPHEN O. SPARSHOTT
1206 W. EVANS
VISALIA, CALIF. 93277
559-679-7565

AN MAKE-UP AESTHETIC TREATMENT ACADEMY
RBL AESTHETICS
220 S. BRIDGE VISALIA, CA.

SHEET
OF

ADD REFUSE/ENTRY 6/7
SPR: 2024-024 CUP APP 5/2/24

Exhibit "B"

OPERATIONAL STATEMENT

- AT 220 S. BRIDGE ST., OUR OPERATIONAL STRATEGY ENTAILS OFFERING OUR CLIENTELE PERMANANT MAKEUP TRAINING SERVICES AND VARIOUS AESTHETIC TREATMENTS. ADDITIONALLY ,AS AN ACADEMY WE CONDUCT COURSES TO ENHANCE ESTABLISHED BUSINESSES OR ASSIST THOSE EMBARKING ON NEW VENTURES. ANTICIPATING AN ENROLLMENT RANGING FROM 3 TO 10 STUDENTS CONCURRENTLY WITHIN OUR ACADEMY.

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SPR: 2024-024

AN MAKE-UP AESTHETIC TREATMENT ACADEMY

RBL AESTHETICS

220 S. BRIDGE VISALIA, CA.

City of Visalia

315 E. Acequia Ave., Visalia, CA 93291

Site Plan Review

March 4, 2024

Site Plan Review No. 2024-024:

Pursuant to Zoning Ordinance Chapter 17.28 the Site Plan Review process has found that your application complies with the general plan, municipal code, policies, and improvement standards of the city. A copy of each Departments/Divisions comments that were discussed with you at the Site Plan Review meeting are attached to this document.

Based upon Zoning Ordinance Section 17.28.070, this is your Site Plan Review determination. However, your project requires discretionary action as stated on the attached Site Plan Review comments. You may now proceed with filing discretionary applications to the Planning Division.

This is your Site Plan Review Permit; your Site Plan Review became effective **February 14, 2024**. A site plan review permit shall lapse and become null and void one year following the date of approval unless, prior to the expiration of one year, a building permit is issued by the building official, and construction is commenced and diligently pursued toward completion.

If you have any questions regarding this action, please call the Community Development Department at (559) 713-4359.

Respectfully,

Paul Bernal
Community Development Director
315 E. Acequia Ave.
Visalia, CA 93291

Attachment(s):

- Site Plan Review Comments

City of Visalia
315 E. Acequia Ave., Visalia, CA 93291
Planning Division
Tel: (559) 713-4359; Fax: (559) 713-4814

MEETING DATE February 14, 2024
SITE PLAN NO. 2024-024
PARCEL MAP NO.
SUBDIVISION
LOT LINE ADJUSTMENT NO.

Enclosed for your review are the comments and decisions of the Site Plan Review committee. Please review all comments since they may impact your project.

☐ **RESUBMIT** Major changes to your plans are required. Prior to accepting construction drawings for building permit, your project must return to the Site Plan Review Committee for review of the revised plans.

☐ During site plan design/policy concerns were identified, schedule a meeting with

☐ Planning ☐ Engineering prior to resubmittal plans for Site Plan Review.

☐ Solid Waste ☐ Parks and Recreation ☐ Fire Dept.

☑ **REVISE AND PROCEED** (see below)

☐ A revised plan addressing the Committee comments and revisions must be submitted for Off-Agenda Review and approval prior to submitting for building permits or discretionary actions.

☐ Submit plans for a building permit between the hours of 9:00 a.m. and 4:00 p.m., Monday through Friday.

☑ Your plans must be reviewed by:

☐ CITY COUNCIL ☐ REDEVELOPMENT

☑ PLANNING COMMISSION ☐ PARK/RECREATION

☑ CUP

☐ HISTORIC PRESERVATION ☐ OTHER:

☑ **ADDITIONAL COMMENTS:**

If you have any questions or comments, please call the Site Plan Review Hotline at (559) 713-4440
Site Plan Review Committee

SITE PLAN REVIEW COMMENTS

Colleen A Moreno, Planning Division, (559) 713-4031
Date: February 14, 2024

SITE PLAN NO:	2024-024
PROJECT TITLE:	RBL Aesthetics
DESCRIPTION:	Our building will be in use for providing services to our clients through permanent makeup and other aesthetics and offering courses through our academy
APPLICANT:	LEONELA ROBLES
LOCATION TITLE:	220 S BRIDGE ST
APN TITLE:	094-304-006
GENERAL PLAN:	DMU
ZONING:	D-MU – Downtown Mixed Use

Planning Division Recommendation:

☒ Revise and Proceed
☐ Resubmit

Project Requirements

- Conditional Use Permit

PROJECT SPECIFIC INFORMATION: February 14, 2024

1. The proposed use requires a Conditional Use Permit (CUP) based upon business, trade, vocational, charter or other specialized schools conditionally allowed in the D-MU zone (Ref. Zoning Ordinance Table 17.25.030, Line S6).
2. With the CUP application, provide a detailed operation statement that addresses days and hours of operation, frequency of classes, number of students enrolled (maximums and minimums), as well as hours of operation for the business, number of employees, any and any additional information.
3. With the CUP application, provide a floor plan showing the layout of the lease area and locations of classroom, and any additional rooms (i.e. storage, restrooms).
4. All wall signage shall require review and approval from the Building and Planning Division.
5. All signage within the windows shall comply with the requirements of the City of Visalia Sign Ordinance. Signage within the windows must be made of durable material and not cover more than 40% of the total window area.
6. Meet all other codes and ordinances.
7. Other information as needed.

NOTES:

1. **The applicant shall contact the San Joaquin Valley Air Pollution Control District to verify whether additional permits are required through the District.**
2. **Prior to a final for the project, a signed Certificate of Compliance for the MWELO standards is required indicating that the landscaping has been installed to MWELO standards.**

Applicable sections of the Visalia Municipal Code:

- **17.19.070 Development standards in the D-MU zone**

- **17.34.020 Off-street parking**
- **17.58 Downtown Retail Overlay District**
- **17.25 (Zone Use Matrix)**

Accessible at https://codelibrary.amlegal.com/codes/visalia/latest/overview

NOTE: Staff recommendations contained in this document are not to be considered support for a particular action or project unless otherwise stated in the comments. The comments found on this document pertain to the site plan submitted for review on the above referenced date. Any changes made to the plan submitted must be submitted for additional review.

Signature:

BUILDING/DEVELOPMENT PLAN REQUIREMENTS
ENGINEERING DIVISION

☐ Lupe Garcia	713-4197
☒ Keyshawn Ford	713-4268
☐ Edelma Gonzalez	713-4364
☐ Sarah MacLennan	713-4271
☐ Luqman Ragabi	713-4362

ITEM NO: 4 DATE: FEBRUARY 14, 2024

SITE PLAN NO.:	**24-024**
PROJECT TITLE:	**RBL AESTHETICS**
DESCRIPTION:	**PROVIDE SERVICES THROUGH PERMANENT MAKEUP AND OTHER AESTHETICS AND OFFERING COURSES THROUGH OUR ACADEMY**
APPLICANT:	**LEONELA ROBLES**
PROP OWNER:	**LARRY J RITCHIES FAM LP**
LOCATION:	**220 S BRIDGE ST**
APN:	**094-304-006**

SITE PLAN REVIEW COMMENTS

☒ REQUIREMENTS (indicated by checked boxes)
☐ Install curb return with ramp, with radius;
☐ Install curb; ☐ gutter
☐ Drive approach size: ☐ Use radius return;
☐ Sidewalk: width; ☐ parkway width at
☒ Repair and/or replace any sidewalk across the public street frontage(s) of the subject site that has become uneven, cracked or damaged and may constitute a tripping hazard.
☒ Replace any curb and gutter across the public street frontage(s) of the subject site that has become uneven and has created areas where water can stand.
☐ Right-of-way dedication required. A title report is required for verification of ownership.
☐ Deed required prior to issuing building permit;
☒ City Encroachment Permit Required. ***FOR ANY WORK NEEDED WITHIN PUBLIC RIGHT-OF-WAY*** Insurance certificate with general & auto liability ($1 million each) and workers compensation ($1 million), valid business license, and appropriate contractor's license must be on file with the City, and valid Underground Service Alert # provided prior to issuing the permit. Contact Encroachment Tech. at 713-4414.
☐ CalTrans Encroachment Permit required. ☐ CalTrans comments required prior to issuing building permit. Contacts: David Deel (Planning) 488-4088;
☐ Landscape & Lighting District/Home Owners Association required prior to approval of Final Map. Landscape & Lighting District will maintain common area landscaping, street lights, street trees and local streets as applicable. Submit completed Landscape and Lighting District application and filing fee a min. of 75 days before approval of Final Map.
☐ Landscape & irrigation improvement plans to be submitted for each phase. Landscape plans will need to comply with the City's street tree ordinance. The locations of street trees near intersections will need to comply with Plate SD-1 of the City improvement standards. A street tree and landscape master plan for all phases of the subdivision will need to be submitted with the initial phase to assist City staff in the formation of the landscape and lighting assessment district.
☐ Grading & Drainage plan required. If the project is phased, then a master plan is required for the entire project area that shall include pipe network sizing and grades and street grades. ☐ Prepared by registered civil engineer or project architect. ☐ All elevations shall be based on the City's benchmark network. Storm run-off from the project shall be handled as follows: a) ☐ directed to the City's existing storm drainage system; b) ☐ directed to a permanent on-site basin; or c) ☐ directed to a temporary on-site basin is required until a connection with adequate capacity is available to the City's storm drainage system. On-site basin: : maximum side slopes, perimeter fencing required, provide access ramp to bottom for maintenance.
☐ Grading permit is required for clearing and earthwork performed prior to issuance of the building permit.
☒ Show finish elevations. (Minimum slopes: A.C. pavement = 1%, Concrete pavement = 0.25%. Curb & Gutter =.20%, V-gutter = 0.25%)
☐ Show adjacent property grade elevations. A retaining wall will be required for grade differences greater than 0.5 feet at the property line.
☐ All public streets within the project limits and across the project frontage shall be improved to their full width, subject to available right of way, in accordance with City policies, standards and specifications.
☐ Traffic indexes per city standards:

☐ Install street striping as required by the City Engineer.
☐ Install landscape curbing (typical at parking lot planters).
☐ Minimum paving section for parking: 2" asphalt concrete paving over 4" Class 2 Agg. Base, or 4" concrete pavement over 2" sand.
☐ Design Paving section to traffic index of 5.0 min. for solid waste truck travel path.
☐ Provide "R" value tests: each at
☐ Written comments required from ditch company Contacts: James Silva 747-1177 for Modoc, Persian, Watson, Oakes, Flemming, Evans Ditch and Peoples Ditch; Jerry Hill 686-3425 for Tulare Irrigation Canal, Packwood and Cameron Creeks; Bruce George 747-5601 for Mill Creek and St. John's River.
☐ Access required on ditch bank, 15' minimum ☐ Provide wide riparian dedication from top of bank.
☐ Show Valley Oak trees with drip lines and adjacent grade elevations. ☐ Protect Valley Oak trees during construction in accordance with City requirements.
☐ A permit is required to remove Valley Oak trees. Contact Public Works Admin at 713-4428 for a Valley Oak tree evaluation or permit to remove. ☐ A pre-construction conference is required.
☐ Relocate existing utility poles and/or facilities.
☐ Underground all existing overhead utilities within the project limits. Existing overhead electrical lines over 50kV shall be exempt from undergrounding.
☐ Subject to existing Reimbursement Agreement to reimburse prior developer:
☒ Fugitive dust will be controlled in accordance with the applicable rules of San Joaquin Valley Air District's Regulation VIII. Copies of any required permits will be provided to the City.
☐ If the project requires discretionary approval from the City, it may be subject to the San Joaquin Valley Air District's Rule 9510 Indirect Source Review per the rule's applicability criteria. A copy of the approved AIA application will be provided to the City.
☐ If the project meets the one acre of disturbance criteria of the State's Storm Water Program, then coverage under General Permit Order 2009-0009-DWQ is required and a Storm Water Pollution Prevention Plan (SWPPP) is needed. A copy of the approved permit and the SWPPP will be provided to the City.

☐ Comply with prior comments. ☐ Resubmit with additional information. ☐ Redesign required.

Additional Comments:

1. ***Proposed project may incur impact fees depending on the proposed academy.***

2. ***A building permit is required for any proposed tenant improvement, standard plan check and inspection fees will apply.***

SUMMARY OF APPLICABLE DEVELOPMENT IMPACT FEES

Site Plan No: **24-024**
Date: **02/14/2024**

Summary of applicable Development Impact Fees to be collected at the time of building permit:

(Preliminary estimate only! Final fees will be based on the development fee schedule in effect at the time of building permit issuance.)

(Fee Schedule Date:**08/19/2023**)
(Project type for fee rates:**GENERAL OFFICE**)

☒ Existing uses may qualify for credits on Development Impact Fees. **GENERAL OFFICE + INFILL**

FEE ITEM	FEE RATE
☐ Groundwater Overdraft Mitigation Fee	
☐ Transportation Impact Fee	
☐ Trunk Line Capacity Fee	
☐ Treatment Plant Fee	
☐ Sewer Front Foot Fee	
☐ Storm Drain Acq/Dev Fee	
☐ Park Acq/Dev Fee	
☐ Northeast Specific Plan Fees	
☐ Waterways Acquisition Fee	
☐ Public Safety Impact Fee: Police	
☐ Public Safety Impact Fee: Fire	
☐ Public Facility Impact Fee	
☐ Parking In-Lieu	

Reimbursement:

1.) No reimbursement shall be made except as provided in a written reimbursement agreement between the City and the developer entered into prior to commencement of construction of the subject facilities.
2.) Reimbursement is available for the development of arterial/collector streets as shown in the City's Circulation Element and funded in the City's transportation impact fee program. The developer will be reimbursed for construction costs and right of way dedications as outlined in Municipal Code Section 16.44. Reimbursement unit costs will be subject to those unit costs utilized as the basis for the transportation impact fee.
3.) Reimbursement is available for the construction of storm drain trunk lines and sanitary sewer trunk lines shown in the City's Storm Water Master Plan and Sanitary Sewer System Master Plan. The developer will be reimbursed for construction costs associated with the installation of these trunk lines.

Keyshawn Ford
Keyshawn Ford

SPR 24024
RBL ABESTHETICS
094304006

City of Visalia

Building: Site Plan Review Comments

NOTE: These are general comments and DO NOT constitute a complete plan check for your specific project Please refer to the applicable California Code & local ordinance for additional requirements.

- [x] A building permit will be required. FOR ANY IMPROVEMENTS *For information call (559) 713-4444*
- [x] Submit 1 digital set of professionally prepared plans and 1 set of calculations. (Small Tenant Improvements)
- [ ] Submit 1 digital set of plans prepared by an architect or engineer. Must comply with 2016 California Building Cod Sec. 2308 for conventional light-frame construction or submit 1 digital set of engineered calculations.
- [ ] Indicate abandoned wells, septic systems and excavations on construction plans.

You are responsible to ensure compliance with the following checked items:

- [x] Meet State and Federal requirements for accessibility for persons with disabilities.
- [x] A path of travel, parking and common area must comply with requirements for access for persons with disabilities. 20% OF PERMIT VALUE SHALL BE USED FOR 'PATH OF TRAVEL' ADA UPGRADES.
- [ ] All accessible units required to be adaptable for persons with disabilities.
- [ ] Maintain sound transmission control between units minimum of 50 STC.
- [ ] Maintain fire-resistive requirements at property lines.
- [ ] A demolition permit & deposit is required. *For information call (559) 713-4444*
- [ ] Obtain required permits from San Joaquin Valley Air Pollution Board. *For information call (661) 392-5500*
- [ ] Plans must be approved by the Tulare County Health Department. *For information call (559) 624-8011*
- [ ] Project is located in flood zone _____ * ☐ Hazardous materials report.
- [ ] Arrange for an on-site inspection. (Fee for inspection $157.00) *For information call (559) 713-4444*
- [ ] School Development fees.
- [ ] Park Development fee $_____, per unit collected with building permits.
- [ ] Additional address may be required for each structure located on the site. *For information call (559) 713-4320*
- [ ] Acceptable as submitted
- [ ] No comments at this time

Additional comments: PROVIDE ADDITIONAL INFO. OF FLOOR PLAN INDICATING ALL EXITS AND ROOM SIZES AND USES.

VAL GARCIA 2/13/24
Signature

Site Plan Comments Visalia Fire Department Corbin Reed, Fire Marshal 420 N. Burke Visalia CA 93292 559-713-4272 office prevention.division@visalia.city	Date Item # Site Plan # APN:	February 14, 2024 4 24024 094304006

- The Site Plan Review comments are issued as **general overview** of your project. With further details, additional requirements will be enforced at the Plan Review stage. Please refer to the 2022 California Fire Code (CFC), 2022 California Building Codes (CBC) and City of Visalia Municipal Codes.

- **More information** is needed before a Site Plan Review can be conducted. Please submit plans with more detail. Please include information on interior layout and egress pathway.

- **Address numbers** must be placed on the exterior of the building in such a position as to be clearly and plainly visible from the street. Numbers will be at least four inches (4") high and shall be of a color to contrast with their background. If multiple addresses are served by a common driveway, the range of numbers shall be posted at the roadway/driveway. 2022 CFC 505.1

- All hardware on **exit doors, illuminated exit signs and emergency lighting** shall comply with the 2022 California Fire Code. This includes all locks, latches, bolt locks, panic hardware, fire exit hardware and gates.

- **Commercial dumpsters** with 1.5 cubic yards or more shall not be stored or placed within 5 feet of combustible walls, openings, or a combustible roof eave line except when protected by a fire sprinkler system. 2022 CFC 304.3.3

- A **Knox Box key lock system** is required. Where access to or within a structure or area is restricted because of secured openings (doors and/or gates), a key box is to be installed in an approved location. Go to knoxbox.com to order and please allow adequate time for shipping and installation. 2022 CFC 506.1

Corbin Reed
Fire Marshal

City of Visalia
Police Department
303 S. Johnson St.
Visalia, CA 93292
(559) 713-4370

Date: 02/14/24
Item: 4
Site Plan: SPR24024
Name: Robert Avalos

Site Plan Review Comments

☐ No Comment at this time.

☐ Request opportunity to comment or make recommendations as to safety issues as plans are developed.

☐ Public Safety Impact Fee:
Ordinance No. 2001-11 Chapter 16.48 of Title 16 of the Visalia Municipal Code
Effective date - August 17, 2001.

☐ Impact fees shall be imposed by the City pursuant to this Ordinance as a condition of or in conjunction with the approval of a development project. "New Development or Development Project" means any new building, structure or improvement of any parcels of land, upon which no like building, structure of improvement previously existed. *Refer to Engineering Site Plan comments for fee estimation.

☐ Not enough information provided. Please provide additional information pertaining to:

☐ Territorial Reinforcement: Define property lines (private/public space).

☐ Access Controlled/ Restricted etc.

☑ lighting Concerns:
ample lighting around property to help deter crime

☐ Traffic Concerns:

☑ Surveillance Issues:
exterior surveillance cameras to help deter crime

☐ Line of Sight Issues:

☑ Other Concerns:
enroll/participation in the trespass enforcement program (T.E.P.)

SITE PLAN REVIEW COMMENTS

CITY OF VISALIA TRAFFIC SAFETY DIVISION

February 14, 2024

ITEM NO: 4 **Added to Agenda** **MEETING TIME: 09:45**

SITE PLAN NO: SPR24024 ASSIGNED TO: Colleen Moreno Colleen.Moreno@visalia.ci

PROJECT TITLE: RBL Aesthetics

DESCRIPTION: Our building will be in use for providing services to our clients through permanent makeup and other aesthetics and offering courses through our academy.

APPLICANT: Leonela Robles - Applicant

APN: 094304006

ADDRESS: 220 S BRIDGE ST

THE TRAFFIC DIVISION WILL PROHIBIT ON-STREET PARKING AS DEEMED NECESSARY

☒ No Comments

☐ See Previous Site Plan Comments

☐ Install Street Light(s) per City Standards at time of development.

☐ Install Street Name Blades at Locations at time of development.

☐ Install Stop Signs at ***local road intersection with collector/arterial*** Locations.

☐ Construct parking per City Standards PK-1 through PK-4 at time of development.

☐ Construct drive approach per City Standards at time of development.

☐ Traffic Impact Analysis required (CUP)

- ☐ Provide more traffic information such as . Depending on development size, characteristics, etc., a TIA may be required.

☐ Additional traffic information required (Non Discretionary)

- ☐ Trip Generation - Provide documentation as to concurrence with General Plan.
- ☐ Site Specific - Evaluate access points and provide documentation of conformance with COV standards. If noncomplying, provide explanation.
- ☐ Traffic Impact Fee (TIF) Program - Identify improvments needed in concurrence with TIF.

Additional Comments:

•

Leslie Blair

Leslie Blair

24-024

Susan Currier

From: Jessica Sandoval
Sent: Tuesday, February 13, 2024 7:40 AM
To: Susan Currier; Cristobal Carrillo; Colleen Moreno
Cc: Rick Paredez; Val Garcia
Subject: Wastewater Comments for SPR 02/14/24

Gm-

Site plan Review 02/14/24

SPR 23231-1-1-No New Comments
SPR 24021-No Comments, however it is noted the sharps containers for the needles. Please make sure none disposed in the sanitary sewer.
SPR 24022- No comment
SPR 24024-No Comment

Thanks!

Sincerely,

Jessica Sandoval

Jessica Sandoval
Pretreatment Program Coordinator
City of Visalia WRF, QA Division
7579 Avenue 288
Visalia, CA 93277
Phone: 559-713-4529
Cell: 559 309-5170
Fax: 559-713-4501

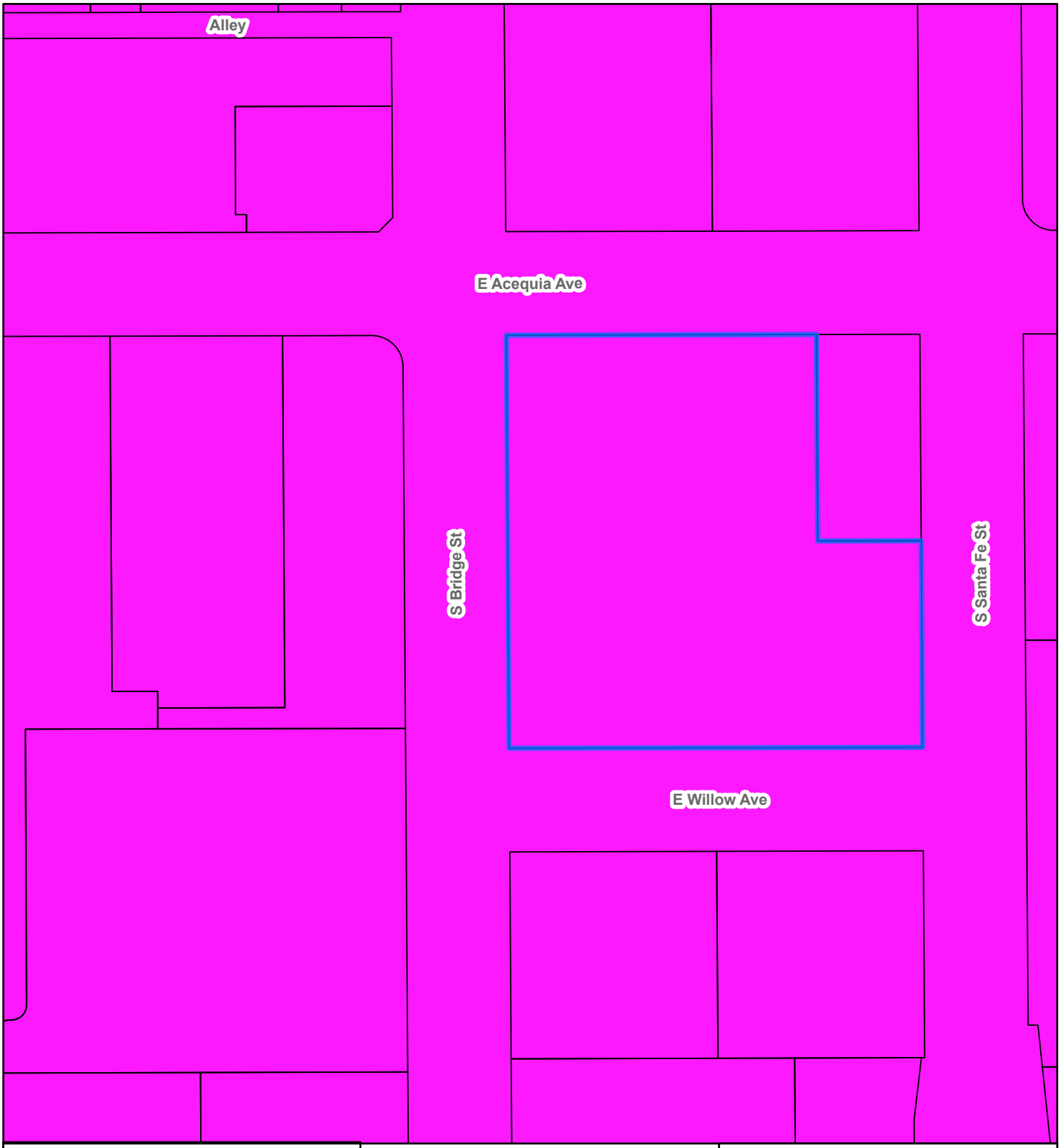
CITY OF VISALIA
SOLID WASTE DIVISION
336 N. BEN MADDOX
VISALIA CA. 93291
713 - 4532
COMMERCIAL BIN SERVICE

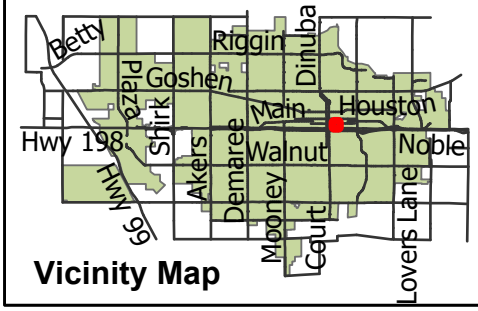
24024

February 14, 2024

	No comments.
XX	See comments below
	Revisions required prior to submitting final plans. See comments below.
XX	Resubmittal required. See comments below.
XX	Customer responsible for all cardboard and other bulky recyclables to be broken down before disposing of in recycle containers
	ALL refuse enclosures must be city standard R-1 OR R-2 & R-3 OR R-4
XX	Customer must provide combination or keys for access to locked gates/bins
XX	Type of refuse service not indicated.
	Location of bin enclosure not acceptable. See comments below.
	Bin enclosure insufficient to comply with state recycling mandates. See comments for suggestions.
	Inadequate number of bins to provide sufficient service. See comments below.
	Drive approach too narrow for refuse trucks access. See comments below.
	Area not adequate for allowing refuse truck turning radius of : Commercial 50 ft. outside 36 ft. inside; Residential 35 ft. outside, 20 ft. inside.
	Paved areas should be engineered to withstand a 55,000 lb. refuse truck.
	Bin enclosure gates are required
	Hammerhead turnaround must be built per city standards.
	Cul - de - sac must be built per city standards.
	Bin enclosures are for city refuse containers only. Grease drums or any other items are not allowed to be stored inside bin enclosures.
	Area in front of refuse enclosure must be marked off indicating no parking
	Enclosure will have to be designed and located for a STAB service (DIRECT ACCESS) with no less than 38' clear space in front of the bin, included the front concrete pad.
XX	Customer will be required to roll container out to curb for service.
	Must be a concrete slab in front of enclosure as per city standards, the width of the enclosure by ten(10) feet, minimum of six(6) inches in depth.
	Roll off compactor's must have a clearance of 3 feet from any wall on both sides and there must be a minimum of 53 feet clearance in front of the compactor to allow the truck enough room to provide service.
XX	City ordinance 8.28.120-130 (effective 07/19/18) requires contractor to contract with City for removal of construction debris unless transported in equipment owned by contractor or unless contracting with a franchise permittee for removal of debris utilizing roll-off boxes.
Comment	Solid waste services to include trash, recycling, and organics recycling, per the State of California's mandatory recycling laws (AB341 & AB1826). Customer will be required to roll bins out to Bridge St. for scheduled collections. Customer is encouraged to contact Solid Waste at 559-713-4532 to discuss/review preferred enclosure placements.

Jason Serpa, Solid Waste Manager, 559-713-4533
Edward Zuniga, Solid Waste Supervisor, 559-713-4338
Nathan Garza, Solid Waste, 559-713-4532





Vicinity Map

General Plan Land Use Map

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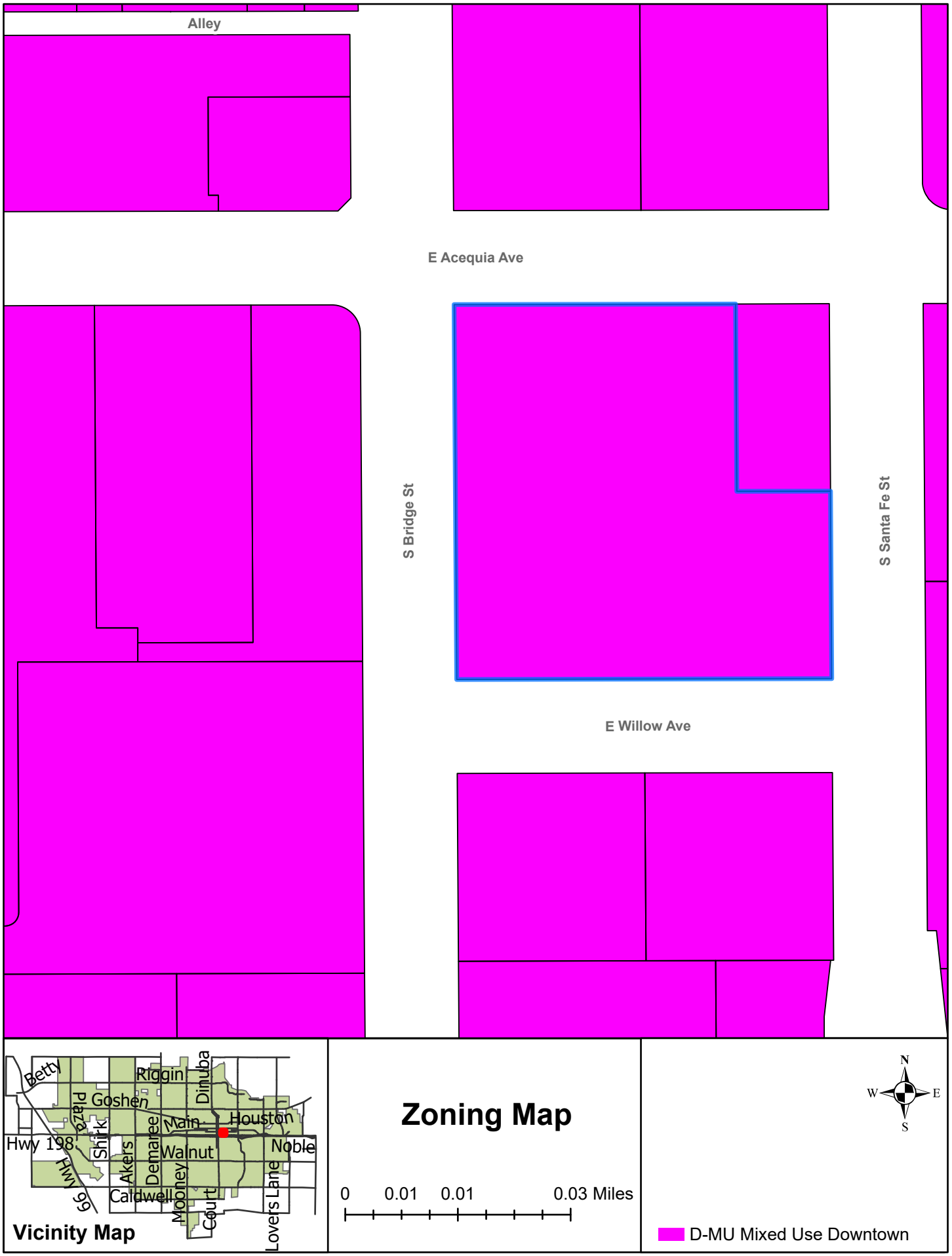
Downtown Mixed Use


Alley
E Acequia Ave
S Bridge St
S Santa Fe St
E Willow Ave
Betty
Riggin
Dinuba
Goshen
Plaza
Shirk
Main
Houston
Hwy 198
Akers
Demaree
Walnut
Noble
Hwy 99
Caldwell
Mooney
Court
Lovers Lane
Vicinity Map
Zoning Map
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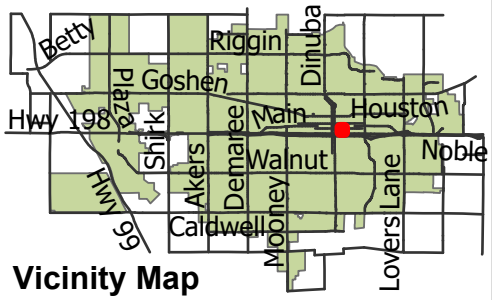
D-MU Mixed Use Downtown



Vicinity Map

Aerial Map

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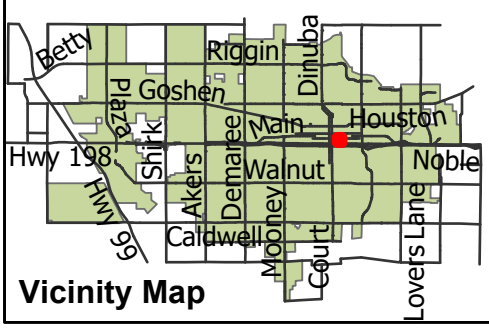
VISALIA

Founded 1852



Vicinity Map

Vicinity

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N W E S

VISALIA

Founded 1852

REPORT TO CITY OF VISALIA PLANNING COMMISSION

HEARING DATE: August 19, 2024

PROJECT PLANNER: Josh Dan, Senior Planner
Phone No.: (559) 713-4003
E-mail: josh.dan@visalia.city

SUBJECT: **Conditional Use Permit 2024-29:** A request by Mike Davis to amend Condition of Approval No. 10 of Conditional Use Permit No. 2021-22, limiting the hours of operations from 5:00 A.M. to 12:00 A.M. for a Jack in the Box fast food restaurant in the Neighborhood Commercial (C-N) zone. The project site is located at 1145 South Lovers Lane (APN: 100-120-051).

STAFF RECOMMENDATION

Staff recommends approval of Conditional Use Permit No. 2024-29, amending Condition of Approval No. 10 for Conditional Use Permit No. 2021-22, as conditioned in Resolution No. 2024-46, based on the project's consistency with the General Plan and Zoning Ordinance.

RECOMMENDED MOTION

I move to approve Conditional Use Permit No. 2024-29 based on the findings and conditions in Resolution No. 2024-46.

PROJECT DESCRIPTION

On August 23, 2021, the applicant obtained approval of Conditional Use Permit No. 2021-22 to allow the development of a new 1,315 square foot Jack in the Box restaurant with drive-thru on a 1.11-acre parcel in the C-N (Neighborhood Commercial) Zone. During the entitlement process, the applicant requested to allow the fast-food restaurant to operate 24-hours a day, consistent with other Jack in the Box restaurants located in the City. However, during the public hearing, one person from the public spoke in opposition to the applicants request to operate 24-hour a day. The Planning Commission, understanding the concern, opted to include a condition limiting the hours of operation from 5:00 A.M. to 12:00P.M. (midnight). This condition was included as Condition No. 10 of Resolution No. 2024-46. A copy of Resolution No. 2021-42 is attached to this staff report.

Construction of the Jack in the Box restaurant at the northwest corner of South Lovers Lane and East Tulare Avenue was completed on September 21, 2022. The applicant had inquired with staff on multiple occasions on regarding the process to amend the operating hours condition. Through these discussions, staff encouraged the applicant to operate for at least a year and then consider an amendment to the approved entitlement.

The Jack in the Box fast-food restaurant has been in operation for over a year. To date, there has not been a single complaint or concern from the public regarding the restaurant.

BACKGROUND INFORMATION

General Plan Land Use Designation:	Commercial Neighborhood	
Zoning:	C-N (Neighborhood Commercial)	
Surrounding Zoning and Land Use:	North:	C-MU (Commercial Mixed Use) – Vacant
	South:	Tulare Avenue, O-PA (Professional Administrative Office) – existing Visalia Wellness Center
	East:	Lovers Lane, O-PA (Professional Administrative Office) – Vacant (entitled duplexes)
	West:	C-N (Neighborhood Commercial) – Single family residence.
Environmental Review:	Categorical Exemption No. 2024-40	
Site Plan:	2020-198	

RELATED PLANS AND POLICIES

All related plans and policies are reprinted in the attachment to this staff report entitled “Related Plans and Policies”.

RELATED PROJECTS

On August 23, 2021, the Planning Commission approved Conditional Use Permit No. 2021-22, a request to build a 1,315 square foot Jack in the Box fast-food restaurant with a drive-thru lane on the northwest corner of East Tulare Avenue and South Lovers Lane by a 5-0 vote.

PROJECT EVALUATION

Staff recommends approval amending the condition on the operating hours based on project consistency with the General Plan and the Zoning Ordinance.

Land Use Compatibility

Fast food restaurant uses, with a drive-thru lane, are considered a “permitted use” in the C-N zone subject to the drive-thru performance standards established in Section 17.32.162 of the VMC. A Conditional Use Permit was warranted based on the drive-thru not complying with subsection B(1) of the above reference section, in which the drive-thru lane is within 250 feet of a residence and/or residentially zoned property.

The 2021 staff report analyzed the use, based on its layout and proximity to residences, was consistent and similar to other fast-food drive-thru uses approved in the city which were located within 250-feet of a residence or residentially zoned parcel.

Conditions of Approval and Limitation to Hours of Operation

Planning Commission meeting of August 23, 2021

During the public hearing, the applicant clarified to the Planning Commission that the fast-food restaurant was seeking to operate 24 hours a day which was not consistent with the hours noted on the application form which listed operating hours from 6:00 A.M. to 12:00 A.M. (midnight). Staff stated during the presentation of the item that fast food facilities were not limited to specific operating hours in the Municipal Code but would have to comply with the Noise Ordinance (VMC Chapter 8.36). Additionally, none of the other four Jack in The Box

restaurants in Visalia operated with limited hours. Additional testimony was received from a member of the public who spoke and shared their concerns for the 24/7 operating hours, based on the projects proximity to abutting residences and Pinkham Elementary School which is approximately 1,321-feet to the west.

Discussion amongst the Planning Commissioners resulted in the Commission concluding that it might be more appropriate for the applicant to reconsider requesting 24/7 operational hours once more commercial development came to the site and provided more buffer to the abutting residences. The project was approved subject to a condition that limited the hours of operation as described in this staff report.

Staff Analysis

The applicant has provided a narrative and letter to the Commission in Exhibits "B" and "C" in support of their request to modify the hours of operation for the Jack in the Box fast-food restaurant. Both exhibits by the applicant identify the project's compliance with the municipal code, operational history at the site, and no public complaints received at the site. The applicant attributes their success of operating a business in compliance with all City codes due to the management structure in which the business is operated. Additionally, the applicant identifies that *"the need to operate 24/7 is directly tied to the increased minimum wage requirement by the State"*.

Based on reviewing the sites operating history, staff supports the request of the applicant, on the basis that the project site and operator have operated in good standing over the past year without any issues reported to the Neighborhood Preservation / Code Enforcement Division. Approving the modified hours of operation would not be inconsistent. There have been several similar approvals for fast-food restaurants to operate 24 hours a day within proximity of residential development. If the Planning Commission were to approve this request, the business is still subject to compliance with the City's Noise Ordinance. If substantiated complaints are received, it would result in the site being declared a public nuisance, staff would seek to initiate the process of getting the business/site into compliance including initiating the CUP amendment process to modify hours of operation.

Environmental Review

The requested action is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA). (Categorical Exemption No. 2024-40). Projects determined to meet this classification consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of the use beyond that existing at the time of the lead agency's determination. The types of "existing facilities" itemized in the Class 1 are not intended to be all-inclusive of the types of projects.

RECOMMENDED FINDINGS

1. That the proposed project will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
2. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance. Specifically, the project is consistent with the required findings of Zoning Ordinance Section 17.38.110:
   a. The proposed location of the conditional use permit is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located. The project site has adequate ingress and egress and parking for the proposed fast-food restaurant.
   b. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity. The project site has adequate ingress and egress and parking for the proposed fast-food restaurant.
3. That the project is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA). (Categorical Exemption No. 2024-40).

RECOMMENDED CONDITIONS OF APPROVAL

1. That all conditions of Conditional Use Permit No. 2021-22, adopted per Resolution No. 2021-42 shall remain applicable, except for the hours of operation as revised by this Conditional Use Permit.
2. The hours of operation shall be modified to allow 24-hour, 7-day a week operation of the Jack in the Box Restaurant on the site.
3. Failure to comply with all conditions as set forth may result in the revocation of Conditional Use Permit No. 2024-29, per Visalia Municipal Code Section No. 17.38.040.

APPEAL INFORMATION

According to the City of Visalia Zoning Ordinance Section 17.02.145, an appeal to the City Council may be submitted within ten days following the date of a decision by the Planning Commission. An appeal with applicable fees shall be in writing and shall be filed with the City Clerk at 220 North Santa Fe Street, Visalia California. The appeal shall specify errors or abuses of discretion by the Planning Commission, or decisions not supported by the evidence in the record. The appeal form can be found on the city's website www.visalia.city or from the City Clerk.

Attachments:

- Related Plans and Policies
- Resolution
- Exhibit “A” – Project Narrative
- Exhibit “B” – Letter to the Commission
- Site Plan Review Comments
- General Plan Land Use Map
- Zoning Map
- Aerial Photo
- Location Map

Related Plans and Policies

Chapter 17.18: PLANNED COMMERCIAL ZONES

17.18.060 Development standards in the C-N zone.

The following development standards shall apply to property located in the C-N zone:

A. Minimum site area: five (5) acres.

B. Maximum building height: fifty (50) feet.

C. Minimum required yards (building setbacks):
   1. Front: fifteen (15) feet;
   2. Rear: zero (0) feet;
   3. Rear yards abutting an R-1 or R-M zone district: fifteen (15) feet;
   4. Side: zero (0) feet;
   5. Side yards abutting an R-1 or R-M zone district: fifteen (15) feet;
   6. Street side yard on corner lot: ten (10) feet.

D. Minimum required landscaped yard (setback) areas:
   1. Front: fifteen (15) feet;
   2. Rear: five (5) feet (except where a building is located on side property line);
   3. Rear yards abutting an R-1 or R-M zone district: five (5) feet;
   4. Side: five (5) feet (except where a building is located on side property line);
   5. Side yards abutting an R-1 or R-M zone district: five (5) feet;
   6. Street side on corner lot: ten (10) feet.

D.1.163 Drive-thru lanes performance standards.

A. Purpose and Intent. It is the purpose of this section to specify performance standards applicable to uses that seek to incorporate a drive-thru lane in association with a specified use. This section does not apply to carwashes and lube and oil changing stations.

B. Performance standards:

   1. Separation from residences. The drive-thru lane shall be no less than two hundred fifty (250) feet from the nearest residence or residentially zoned property.

   2. Stacking. The drive-thru lane shall contain no less than ten (10) vehicle stacking, measured from pickup window to the designated entrance to the drive-thru lane. There shall be no less than three vehicle spaces distance from the order menu/speaker (or like device) to the designated entrance to the order window.

   3. Circulation. No portion of the drive-thru lane shall obstruct any drive aisles or required on-site parking. The drive-thru shall not take ingress or egress from a local residential road.

   4. Noise. No component or aspect of the drive-thru lane or its operation shall generate noise levels in excess of 60 dB between the hours of 7:00 p.m. and 6:00 a.m. daily.

   5. Screening. The entire drive-thru lane shall be screened from adjacent street and residential view to a height of three feet. Screening devices shall be a combination of berming, hedge and landscape materials, and solid walls as approved by the City Planner.

   6. Menu boards and signage. Shall be oriented or screened to avoid direct visibility from adjacent public streets. (Ord. 2017-01 (part), 2017: Ord. 2014-07 § 3, 2014)

Table 17.25.030

Commercial, Mixed Use, Office, and Industrial Zones Use Matrix

P = Use is Permitted by Right C = Use Requires Conditional Use Permit

T = Use Requires Temporary Use Permit Blank = Use is Not Allowed

	USE	Commercial and Mixed Use Zones					Office Zones			Industrial Zones		Special Use Standards (See identified Chapter or Section)
		C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
	D											
	DAYCARE, LICENSED											
D1	Adult – six or fewer adults	P	P	P	P	P	P	P	P	P	P	
D2	Adult – 7 to 12 adults	P	P	P	P	P	P	P	P	P	P	
D3	Adult – 13 or more adults	C	C	C	C	C	C	C	C	C	C	
D4	Children – 8 or fewer	P	P	P	P	P	P	P	P	P	P	
D5	Children – 9 to 14	P	P	P	P	P	P	P	P	P	P	
D6	Children – 15 or more	C	C	C	C	C	C	C	C	C	C	
D7	In Conjunction with Primary Use	P	P	P	P	P	P		P	P	P	
D8	Drive-Thru Lanes Meeting All Standards in Sect. 17.32.162	P	P	P	P		P		P			17.32.162
D9	Drive-Thru Lanes Not Meeting All Standards in Sect. 17.32.162	C	C	C	C		C		P			17.32.162
D10	Drive-Thru Lanes in Industrial Zone									C	C	17.32.161
	E											
	EATING & DRINKING ESTABLISHMENTS											
E1	Bars/Taverns – within 300 feet of any residence/public use	C	C		C							
E2	Bars/Taverns – not within 300 feet of any residence/ public use		P		C							

RESOLUTION NO. 2024-46

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING CONDITIONAL USE PERMIT NO. 2024-29, A REQUEST BY MIKE DAVIS TO AMEND CONDITION OF APPROVAL NO. 10 OF CONDITIONAL USE PERMIT NO. 2021-22, LIMITING THE HOURS OF OPERATIONS FROM 5:00 A.M. TO 12:00 A.M. FOR A JACK IN THE BOX FAST FOOD RESTAURANT IN THE NEIGHBORHOOD COMMERCIAL (C-N) ZONE. THE PROJECT SITE IS LOCATED AT 1145 SOUTH LOVERS LANE (APN: 100-120-051).

WHEREAS, Conditional Use Permit No. 2024-29 is A request by Mike Davis to amend Condition of Approval No. 10 of Conditional Use Permit No. 2021-22, limiting the hours of operations from 5:00 A.M. to 12:00 A.M. for a Jack in the Box fast food restaurant in the Neighborhood Commercial (C-N) zone. The project site is located at 1145 South Lovers Lane (APN: 100-120-051).; and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice, did hold a public hearing before said Commission on August 19, 2024; and

WHEREAS, the Planning Commission of the City of Visalia finds the Conditional Use Permit to be in accordance with Section 17.38.110 of the Zoning Ordinance of the City of Visalia based on the evidence contained in the staff report and testimony presented at the public hearing; and

WHEREAS, the Planning Commission finds the project to be Categorically Exempt consistent with the California Environmental Quality Act (CEQA) and City of Visalia Environmental Guidelines.

NOW, THEREFORE, BE IT RESOLVED that the project is exempt from further environmental review pursuant to CEQA Section 15301.

BE IT FURTHER RESOLVED that the Planning Commission of the City of Visalia makes the following specific findings based on the evidence presented:

1. That the proposed project will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
2. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance. Specifically, the project is consistent with the required findings of Zoning Ordinance Section 17.38.110:
   a. The proposed location of the conditional use permit is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located. The project site has adequate ingress and egress and parking for the proposed fast-food restaurant.
   b. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity. The project site has adequate ingress and egress and parking for the proposed fast-food restaurant.

3. That the project is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA). (Categorical Exemption No. 2024-40).

BE IT FURTHER RESOLVED that the Planning Commission hereby approves the Conditional Use Permit on the real property here described in accordance with the terms of this resolution under the provisions of Section 17.38.110 of the Ordinance Code of the City of Visalia, subject to the following conditions:

1. That all conditions of Conditional Use Permit No. 2021-22, adopted per Resolution No. 2021-42 shall remain applicable, except for the hours of operation as revised by this Conditional Use Permit.
2. The hours of operation shall be modified to allow 24-hour, 7-day a week operation of the Jack in the Box Restaurant on the site.
3. Failure to comply with all conditions as set forth may result in the revocation of Conditional Use Permit No. 2024-29, per Visalia Municipal Code Section No. 17.38.040.

Exhibit "A"

To whom it may concern:

The owner/operator of the Jack in the Box restaurant location at 1145 S. Lovers Lane (northwest corner of Lovers Lane and Tulare Avenue) is requesting a CUP amendment to revise the hours of operation to 24-hours per day.

Per Condition 10 of Resolution No. 2021-42, the operation hours are restricted to 5:00AM to midnight. The operator has determined that in order to maximize sales revenue, it is in their best interest to provide 24-hour service.

This restaurant represents the closest quick-serve restaurant to a large portion of Visalia residents, especially those living east of Lovers Lane, so the increased hours of operation would provide options to those who may be seeking food during this timeframe.

The 24-hour operations would be in line with other nearby commercial properties along Lovers Lane which are listed as 24-hour (including Shell at Lovers Lane & Walnut and both ARCO/AMPM and 7-Eleven at Lovers Lane & Noble).

This location does not provide any outdoor dining and focuses primarily on drive-thru service, which would mitigate noise concerns due to patrons conversing outside the restaurant or in the parking lot. The drive-thru speaker is approximately 200 feet from the adjacent residences (measured from the speaker to the home structure). The drive-thru lanes are oriented such that vehicles would point east and north, with their headlights directed away from the adjacent residences. It is assumed that customer volumes at this time will be relatively low, so drive-thru patrons may order promptly and pull to the service window on the east side of the building by Lovers Lane, where the building will provide shielding and there would not be a large queue lane generated parallel to Tulare closer to the homes. As such, it is assumed that the additional operational hours would not adversely impact the nearby residents.

VISALIA - HQ
324 S Sante Fe St, Suite A
Visalia, CA 93292
559-802-3052
info@4-creeks.com

CLOVIS
180 W Bullard Ave, Suite 101
Clovis, CA 93612
559-802-3052
info@4-creeks.com

DENVER
9540 Maroon Circle, Suite 110
Englewood, CO 80112
720-210-9488
info@4-creeks.com

HANFORD
308 N Irwin St.
Hanford, CA 93230
559-802-3052
info@4-creeks.com

SAN LUIS OBISPO
605 Santa Rosa St, Suite A
San Luis Obispo, CA 93401
805-904-4394
info@4-creeks.com

TULARE
132 S N St.
Tulare, CA 93274
559-802-3052
info@4-creeks.com

Exhibit "B"

To: Visalia City Planning Commission
From: Mike Davis & Patrice Roux
Re: Amendment to Conditional Use Permit 2024-29 (August 12, 2024 Meeting)

HISTORY

VTP Enterprises has been a part of the community of the Central Valley since 1987. VTP even took its name by combining the initials of the cities it felt closest to (Visalia, Tulare, and Porterville). Back in 1987, VTP started with 5 Jack in the Box restaurants. By 2016, the count was up to 14.

GROWTH

VTP has expanded its JIB restaurant sites by opening new restaurants in 2016 (Farmersville), 2019 (Plaza), 2020 (Bardsley), 2022 (Shannon), 2023 (Lovers Lane).

Currently we are on schedule to open new JIB sites in late 2024 (Oaks Marketplace), 2025 (Exeter), 2025 (Orosi), 2025 (Demaree).

COST TO DO BUSINESS

We have choice to make as business owners. As our costs go up, prices follow. One of the major reasons we are requesting 24/7 service is to help minimize price increases. The increases are directly related to the in in the minimum wage to $20. We prefer to provide more jobs than to simply raise prices. If we are granted 24/7 service, we anticipate adding 4 full time positions at our Lovers Lane location.

Due to the high cost of food and labor, these days most Quick Service Restaurants are not open 24/7. The difference with our Brand is that Jack in the Box caters and advertises to the late-night crowd. In fact, our restaurants have 40% of our day-to-day sales come after 9pm.

OUR NEIGHBORHOOD

Since we opened on May 8, 2023, we have yet to have one complaint on any issue from any neighbor. We keep our site clean and well landscaped.

CURRENT HOURS

Our Lovers Lane site is currently open from 5am – Midnight. We respectfully request you grant us 24/7 service.

Thank you,

Mike Davis & Patrice Roux
Current partners of VTP Enterprises

City of Visalia

315 E. Acequia Ave., Visalia, CA 93291

Site Plan Review

April 26, 2021

mike@vtpjib.com

Site Plan Review No. 20-198-C:

Pursuant to Zoning Ordinance Chapter 17.28 the Site Plan Review process has found that your application complies with the general plan, municipal code, policies, and improvement standards of the city. A copy of each Departments/Divisions comments that were discussed with you at the Site Plan Review meeting are attached to this document.

Please note that Engineering Comments are not included in this packet at this time. If you need a copy of their comments please contact Adrian Rubalcaba at (559) 713-4271 or via e-mail at Adrian.Rubalcaba@visalia.city.

Based upon Zoning Ordinance Section 17.28.070, this is your Site Plan Review determination. However, your project requires discretionary action as stated on the attached Site Plan Review comments. You may now proceed with filing discretionary applications to the Planning Division.

This is your Site Plan Review Permit; your Site Plan Review became effective **February 24, 2021**. A site plan review permit shall lapse and become null and void one year following the date of approval unless, prior to the expiration of one year, a building permit is issued by the building official and construction is commenced and diligently pursued toward completion.

If you have any questions regarding this action, please call the Community Development Department at (559) 713-4359.

Respectfully,

Paul Bernal
City Planner
315 E. Acequia Ave.
Visalia, CA 93291

Attachment(s):

- Site Plan Review Comments

MEETING DATE February 24, 2021

SITE PLAN NO. 2020-198-C

PARCEL MAP NO.

SUBDIVISION

LOT LINE ADJUSTMENT NO.

Enclosed for your review are the comments and decisions of the Site Plan Review committee. Please review all comments since they may impact your project.

☐ **RESUBMIT** Major changes to your plans are required. Prior to accepting construction drawings for building permit, your project must return to the Site Plan Review Committee for review of the revised plans.

☐ During site plan design/policy concerns were identified, schedule a meeting with

☐ Planning ☐ Engineering prior to resubmittal plans for Site Plan Review.

☐ Solid Waste ☐ Parks and Recreation ☐ Fire Dept.

☒ **REVISE AND PROCEED** (see below)

☐ A revised plan addressing the Committee comments and revisions must be submitted for Off-Agenda Review and approval prior to submitting for building permits or discretionary actions.

☐ Submit plans for a building permit between the hours of 9:00 a.m. and 4:00 p.m., Monday through Friday.

☒ Your plans must be reviewed by:

☐ CITY COUNCIL ☐ REDEVELOPMENT

☒ PLANNING COMMISSION ☐ PARK/RECREATION

☒ Conditional Use Permit

☐ HISTORIC PRESERVATION ☐ OTHER –TCUP

☐ **ADDITIONAL COMMENTS:**

If you have any questions or comments, please call Adrian Bubalcaba at (559) 713-4271

Site Plan Review Committee

SITE PLAN REVIEW COMMENTS

Cristobal Carrillo, Planning Division (559) 713-4443
Date: February 24, 2021

SITE PLAN NO:	2020-198 - C
PROJECT TITLE:	Jack In The Box
DESCRIPTION:	Remove existing buildings and construct new drive thru restaurant
APPLICANT:	Mike Davis
PROP. OWNER:	Doucette Carl E.
LOCATION TITLE:	1145 S. Lovers Lane
APN TITLE:	100-120-051
GENERAL PLAN:	Commercial Neighborhood
ZONING:	C-MU – Commercial Mixed Use

Rule 9510 – This project is subject to the Rule 9510 requirements of the San Joaquin Valley Air Pollution Control District – see District web-site for information.

Planning Division Recommendation:

☒ Revise and Proceed
☐ Resubmit

Project Requirements

- Conditional Use Permit
- Building Permit

PROJECT SPECIFIC INFORMATION: February 24, 2021

1. Drive-thru queuing shall be designed to prevent vehicles from stacking in areas where they will obstruct driveways and drive aisles. The project proposes the placement of a large unobstructed paved area north of the driveway along Tulare Avenue. There is potential that vehicles from the drive-thru could obstruct traffic entering from the Tulare Avenue ingress/egress, possibly resulting in blocking of parking areas and vehicle queuing in the right of way. The applicant shall address these concerns in the Conditional Use Permit submittal and Queuing Analysis.
2. Note that cross access to the commercial parcel to the north may be encouraged in the future.
3. The location of the trash enclosure meets the requirements of the City of Visalia Solid Waste Division.
4. See previous comments.

PROJECT SPECIFIC INFORMATION: February 3, 2021

1. Staff shall submit a site plan showing the entire property and its interaction with neighboring uses.
2. Use of the site for a "Drive-thru Restaurant" is permitted in the C-N Zone. However, a Conditional Use Permit is required for not meeting the drive-thru performance standards expressed in VMC 17.32.162, which will require the applicant to provide:
    a. Building elevations. (The building shall not exceed a height of 50 feet.)
    b. The applicant shall provide a landscape and irrigation plan. (The landscape plan shall show that a minimum six percent of the parking lot is landscaped.)
3. The applicant shall also provide floor plans with the Conditional Use Permit application.
4. A Photometric plan shall be submitted with the Conditional Use Permit application. The Photometric plan shall indicate all building, parking lot, and signage illumination and shall verify that residential areas will not be negatively impacted by the proposed use.
5. A Queuing Analysis shall be provided with the Conditional Use Permit submittal.
6. The applicant shall provide a 5 ft. landscape setback along the western property boundary.

7. A 15-foot landscape setback shall be required along S. Lovers Lane and a 10-foot landscape setback shall be provided along E. Tulare Avenue.
8. The applicant shall provide a 7 ft. tall block wall along the western property boundary.
9. The applicant shall provide a City standard curb at the line identified on the site plan as "Temporary Edge of New AC Pavement".
10. Monument signs shall have a minimum 5-foot setback from property lines.
11. Screening for the drive-thru and menu boards shall be indicated on the site plan.
12. All signage shall require it's own separate Building Permit and shall comply with VMC 17.48.110(C)
13. A landscaping and irrigation plan shall be provided with the Building Permit submittal.
14. The trash enclosure shall be placed in compliance with the requirements of the Solid Waste Division.
15. Meet all other codes and ordinances.

PROJECT SPECIFIC INFORMATION: December 9, 2020

1. Staff is requesting the applicant return with a site plan showing the entire property and its interaction with neighboring uses.
2. Use of the site for a "Drive-thru Restaurant" is permitted in the C-N Zone. However, a Conditional Use Permit is required for not meeting the drive-thru performance standards expressed in VMC 17.32.162, which will require the applicant to provide:
    a. Building elevations. (The building shall not exceed a height of 50 feet.)
    b. The applicant shall provide a landscape and irrigation plan. (The landscape plan shall show that a minimum six percent of the parking lot is landscaped.)
    c. The applicant shall provide a lighting plan showing the location of all onsite lighting. (Onsite lighting shall not produce glare onto neighboring residential areas.)
3. A 15-foot landscape setback shall be required along S. Lovers Lane and a 10-foot landscape setback shall be provided along E. Tulare Avenue.
4. Monument signs shall have a minimum 5-foot setback.
5. All signage by separate permit and shall comply with VMC 17.48.110(C)
6. Meet all other codes and ordinances.

17.18.060 Development standards in the C-N zone.

The following development standards shall apply to property located in the C-N zone:

A. Minimum site area: five (5) acres.

B. Maximum building height: fifty (50) feet.

C. Minimum required yards (building setbacks):
    1. Front: fifteen (15) feet;
    2. Rear: zero (0) feet;
    3. Rear yards abutting an R-1 or R-M zone district: fifteen (15) feet;
    4. Side: zero (0) feet;
    5. Side yards abutting an R-1 or R-M zone district: fifteen (15) feet;
    6. Street side yard on corner lot: ten (10) feet.

D. Minimum required landscaped yard (setback) areas:
    1. Front: fifteen (15) feet;
    2. Rear: five (5) feet (except where a building is located on side property line);
    3. Rear yards abutting an R-1 or R-M zone district: five (5) feet;
    4. Side: five (5) feet (except where a building is located on side property line);

5. Side yards abutting an R-1 or R-M zone district: five (5) feet;
6. Street side on corner lot: ten (10) feet.

Parking:

1. Provide parking spaces based Zoning Ordinance Section 17.34.020
2. 30% of the required parking stalls may be compact and shall be evenly distributed in the lot.
3. Provide handicapped space(s).
4. An 80 sq. ft. minimum landscape well is required every 10 contiguous parking.
5. A planter is required every other row. (5-9 feet in width containing trees on twenty (20) foot centers.
6. No repair work or vehicle servicing allowed in a parking area.
7. It is highly recommended that bicycle rack(s) be provided on site plan.
8. No parking shall be permitted in a required front/rear/side yard.
9. Design/locate parking lot lighting to deflect any glare away from abutting residential areas.
10. Parking lot to be screened from view by a 3-foot tall solid wall or shrubs when located adjacent to a public street or when across from residential property.
11. Front carport area to have a 3 to 6-foot tall screening wall.
12. Provide shopping cart storage areas on site plan.
13. Provide transit facilities on site plan.
14. Provide shared parking/access agreements
15. Provide off-street loading facility.
16. The project should provide preferential parking spaces for carpools and vanpools to decrease the number of single occupant vehicle work trips. The preferential treatment could include covered parking spaces or close-in parking spaces, or designated free parking, or a guaranteed space for the vehicle.
17. Provide a "No Parking" (dead-head) stall at the end of the parking row (for rows over 6 stalls deep with no outlet) to allow vehicles to turn around rather than backing out if no stalls are available.

Fencing and Screening:

1. Provide screening for roof mounted equipment (Zoning Ordinance Section 17.30.130.F).
2. Provide second-story screening for all windows that may intrude into adjacent residential properties. Details and cross-sections will be required to be reviewed and approved prior to issuance of building permits (Zoning Ordinance Section 17.30.130.F).
3. Provide screened trash enclosure with solid screening gates (Zoning Ordinance Section 17.30.130.F).
4. Provide solid screening of all outdoor storage areas. Outdoor storage to be screened from public view with solid material (Zoning Ordinance Section 17.30.130.F).
5. Outdoor retail sales prohibited.
6. Cross Sections need to be provided for site Plan Review if there is greater than an 18-inch difference between the elevation of the subject site and the adjacent properties, and the sections would be required for the public hearing process also.
7. All outdoor storage areas are to be identified on the site plan and they are to be shown with screening (fencing). No materials may be stored above the storage area fence heights (Zoning Ordinance Section 17.30.130.F).
8. If there is an anticipated grade difference of more than 12-inches between this site and the adjacent sites, a cross section of the difference and the walls must be provided as a part of the Subdivision and/or CUP application package.
9. NOTE: The maximum height of block walls and fences is 7-feet in the appropriate areas; this height is measured on the tallest side of the fence. If the height difference is such that the fence on the inside of the project site is not of sufficient height, the fence height should be

discussed with Planning Staff prior to the filing of applications to determine if an Exception to fence/wall height should also be submitted.

Landscaping:

1. The City has adopted the State Water Efficient Landscape Ordinance. The ordinance applies to projects installing 2,500 square feet or more of landscaping. It requires that landscaping and irrigation plans be certified by a qualified entity (i.e., Landscape Architect) as meeting the State water conservation requirements. The City's implementation of this new State law will be accomplished by self-certification of the final landscape and irrigation plans by a California licensed landscape architect or other qualified entity with sections signed by appropriately licensed or certified persons as required by the ordinance. **NOTE: Prior to a final for the project, a signed Certificate of Compliance for the MWELO standards is required indicating that the landscaping has been installed to MWELO standards.**
2. Provide street trees at an average of 20-feet on center along street frontages. All trees to be 15-gallon minimum size (Zoning Ordinance Section 17.30.015-2).
3. In the P(R-M) multi-family residential zone, all multiple family developments shall have landscaping including plants, and ground cover to be consistent with surrounding landscaping in the vicinity. Landscape plans to be approved by city staff prior to installation and occupancy of use and such landscaping to be permanently maintained. (Zoning Ordinance Section 17.16.180)
4. All landscape areas to be protected with 6-inch concrete curbs (Zoning Ordinance Section 17.30.130.F).
5. All parking lots to be designed to provide a tree canopy to provide shade in the hot seasons and sunlight in the winter months.
6. Provide a detailed landscape and irrigation plan as a part of the building permit package (Zoning Ordinance Section 17.34.040).
7. An 80 sq. ft. minimum landscape well is required every 10 contiguous parking stalls (Zoning Ordinance Section 17.30.130.C).
8. Provide a detailed landscape and irrigation plan for review prior to issuance of building permits. Please review Zoning Ordinance section 17.30.130-C for current landscaping and irrigation requirements.
9. Provide a conceptual landscape plan for resubmittal or planning commission review.
10. Locate existing oak trees on site and provide protection for all oak trees greater than 2" diameter (see Oak Tree Preservation Ordinance).
11. Maintenance of landscaped areas. - A landscaped area provided in compliance with the regulations prescribed in this title or as a condition of a use permit or variance shall be planted with materials suitable for screening or ornamenting the site, whichever is appropriate, and plant materials shall be maintained and replaced as needed, to screen or ornament the site. (Prior code § 7484)

Lighting:

1. All lighting is to be designed and installed so as to prevent any significant direct or indirect light or glare from falling upon any adjacent residential property. This will need to be demonstrated in the building plans and prior to final on the site.
2. Parking lot and drive aisle lighting adjacent to residential units or designated property should consider the use of 15-foot high light poles, with the light element to be completely recessed into the can. A reduction in the height of the light pole will assist in the reduction/elimination of direct and indirect light and glare which may adversely impact adjacent residential areas.
3. Building and security lights need to be shielded so that the light element is not visible from the adjacent residential properties, if any new lights are added or existing lights relocated.
4. NOTE: Failure to meet these lighting standards in the field will result in no occupancy for the building until the standards are met.

In no case shall more than 0.5 lumens be exceeded at any property line, and in cases where the adjacent residential unit is very close to the property line, 0.5 lumens may not be acceptable.

NOTE: Staff recommendations contained in this document are not to be considered support for a particular action or project unless otherwise stated in the comments. The comments found on this document pertain to the site plan submitted for review on the above referenced date. Any changes made to the plan submitted must be submitted for additional review.

Signature _____

SPR 20198
JACK IN THE BOX
1145 S LOVERS LANE

City of Visalia

Building: Site Plan Review Comments

NOTE: These are general comments and DO NOT constitute a complete plan check for your specific project Please refer to the applicable California Code & local ordinance for additional requirements.

- [x] A building permit will be required. ***For information call (559) 713-4444***
- [x] Submit 1 digital set of professionally prepared plans and 1 set of calculations. (Small Tenant Improvements)
- [ ] Submit 1 digital set of plans prepared by an architect or engineer. Must comply with 2016 California Building Cod Sec. 2308 for conventional light-frame construction or submit 1 digital set of engineered calculations.
- [ ] Indicate abandoned wells, septic systems and excavations on construction plans.

You are responsible to ensure compliance with the following checked items:

- [x] Meet State and Federal requirements for accessibility for persons with disabilities.
- [ ] A path of travel, parking and common area must comply with requirements for access for persons with disabilities.
- [ ] All accessible units required to be adaptable for persons with disabilities.
- [ ] Maintain sound transmission control between units minimum of 50 STC.
- [ ] Maintain fire-resistive requirements at property lines.
- [ ] A demolition permit & deposit is required. ***For information call (559) 713-4444***
- [ ] Obtain required permits from San Joaquin Valley Air Pollution Board. ***For information call (661) 392-5500***
- [x] Plans must be approved by the Tulare County Health Department. ***For information call (559) 624-8011***
- [x] Project is located in flood zone AE * [ ] Hazardous materials report. MEET FEMA FLOOD REQUIREMENTS
- [ ] Arrange for an on-site inspection. (Fee for inspection $157.00) ***For information call (559) 713-4444***
- [x] School Development fees. Commercial $0.66 per square foot & Self-Storage $.23 per sf. Residential $4.16 per square foot.
- [ ] Park Development fee $_____, per unit collected with building permits.
- [ ] Additional address may be required for each structure located on the site. ***For information call (559) 713-4320***
- [ ] Acceptable as submitted
- [ ] No comments at this time

Additional comments: No ADDITIONAL COMMENTS

VAL GARCIA 2/24/21
Signature

Site Plan Comments Visalia Fire Department Corbin Reed, Fire Marshal 420 N. Burke Visalia CA 93292 559-713-4272 office prevention.division@visalia.city	Date Item # Site Plan # APN:	February 24, 2021 1 20198 Resubmit 100-120-051

- The Site Plan Review comments are issued as **general overview** of your project. With further details, additional requirements will be enforced at the Plan Review stage. Please refer to the 2019 California Fire Code (CFC), 2019 California Building Codes (CBC) and City of Visalia Municipal Codes.

- This item is a **resubmittal**. Please see comments from previous submittals.

Corbin Reed
Fire Marshal

City of Visalia
Police Department
303 S. Johnson St.
Visalia, CA 93292
(559) 713-4370

Date: 2-23-21
Item: 1 Resub
Site Plan: 20-189
Name: Agent McEwen

SITE PLAN REVIEW COMMENTS

☒ No Comment at this time

☐ Request opportunity to comment or make recommendations as to safety issues as plans are developed.

☐ Public Safety Impact Fee:
Ordinance No. 2001-11 Chapter 16.48 of Title 16 of the Visalia Municipal Code
Effective date – August 17, 2001

Impact fees shall be imposed by the City pursuant to this Ordinance as a condition of or in conjunction with the approval of a development project. "New Development or Development Project" means any new building, structure or improvement of any parcels of land, upon which no like building, structure of improvement previously existed. *Refer to Engineering Site Plan comments for fee estimation.

☐ Not enough information provided. Please provide additional information pertaining to:

☐ Territorial Reinforcement: Define property lines (private/public space).

☐ Access Controlled / Restricted etc.:

☐ Lighting Concerns:

☐ Traffic Concerns:

☐ Surveillance Issues:

☐ Line of Sight Issues:

☐ Other Concerns:

SITE PLAN REVIEW COMMENTS

CITY OF VISALIA TRAFFIC SAFETY DIVISION

February 24, 2021

ITEM NO: 2 **Resubmit**
SITE PLAN NO: SPR20198
PROJECT TITLE: Jack In The Box
DESCRIPTION: Remove Existing Buildings & Construct New Drive Thru Restaurant
APPLICANT: Mike Davis
OWNER: DOUCETTE CARL E
APN: 100120051
LOCATION: 1145 S LOVERS LANE UNIT

THE TRAFFIC DIVISION WILL PROHIBIT ON-STREET PARKING AS DEEMED NECESSARY

☐ No Comments

☐ See Previous Site Plan Comments

☐ Install Street Light(s) per City Standards.

☐ Install Street Name Blades at Locations.

☐ Install Stop Signs at Locations.

☒ Construct parking per City Standards PK-1 through PK-4.

☒ Construct drive approach per City Standards.

☐ Traffic Impact Analysis required (CUP)

☒ Provide more traffic information such as number of trips expected in peak hour. Depending on development size, characteristics, etc., a TIA may be required.

☐ Additional traffic information required (Non Discretionary)

☐ Trip Generation - Provide documentation as to concurrence with General Plan.

☐ Site Specific - Evaluate access points and provide documentation of conformance with COV standards. If noncomplying, provide explanation.

☐ Traffic Impact Fee (TIF) Program - Identify improvments needed in concurrence with TIF.

Additional Comments:

- VMT Analysis may be required.
- Applicant to ensure backup queue does not spillover onto the public ROW.

Leslie Blair

Leslie Blair

20-198RR

CITY OF VISALIA
SOLID WASTE DIVISION
336 N. BEN MADDOX
VISALIA CA. 93291
713 - 4532
COMMERCIAL BIN SERVICE

20198

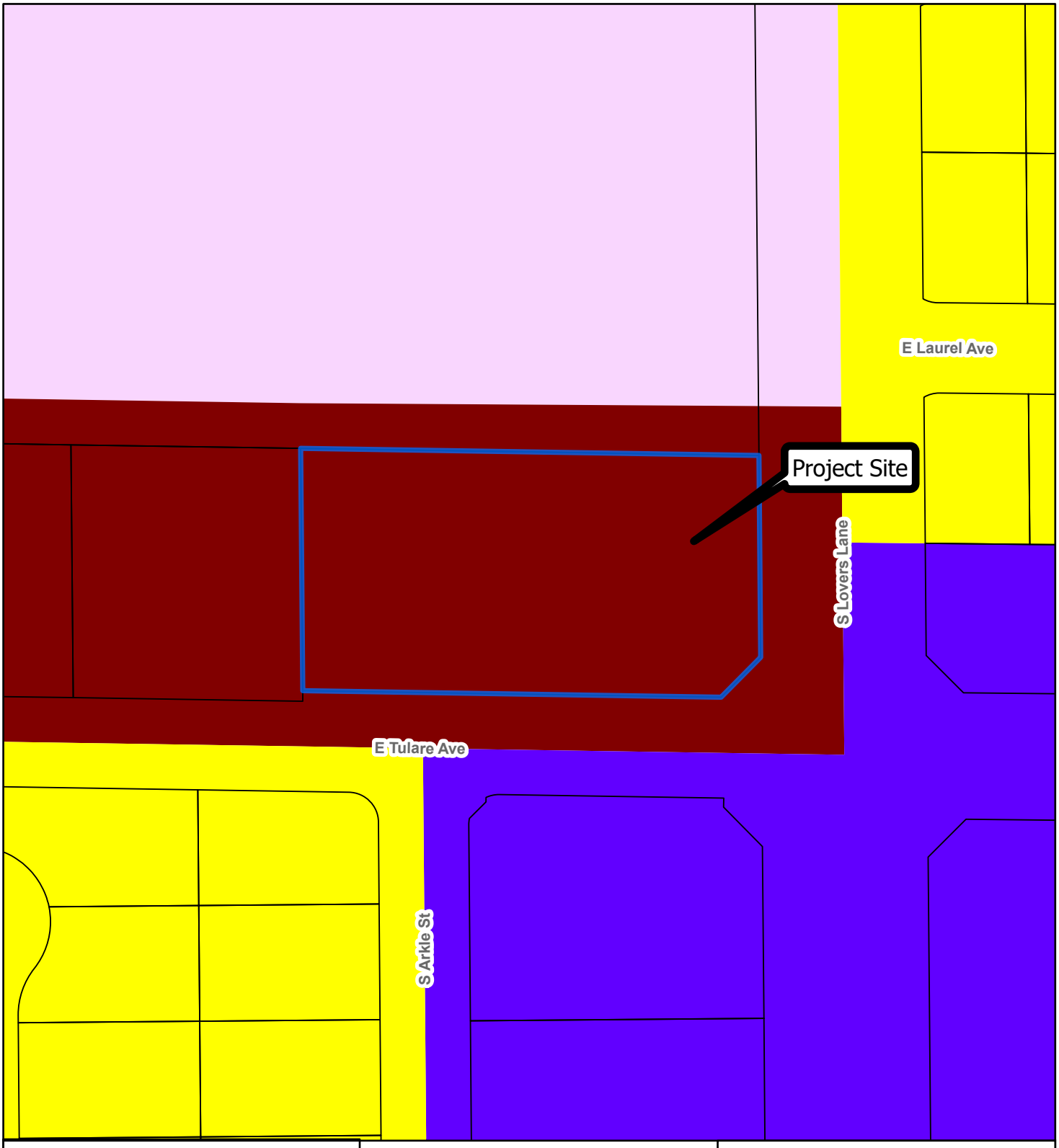
February 24, 2021

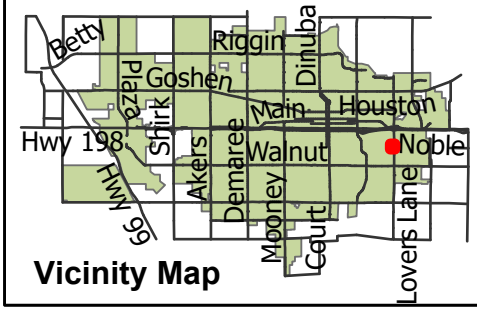
	No comments.
XX	See comments below
	Revisions required prior to submitting final plans. See comments below.
	Resubmittal required. See comments below.
XX	Customer responsible for all cardboard and other bulky recyclables to be broken down before disposing of in recycle containers
XX	ALL refuse enclosures must be R-3 OR R-4
XX	Customer must provide combination or keys for access to locked gates/bins
	Type of refuse service not indicated.
	Location of bin enclosure not acceptable. See comments below.
	Bin enclosure not to city standards double.
	Inadequate number of bins to provide sufficient service. See comments below.
	Drive approach too narrow for refuse trucks access. See comments below.
	Area not adequate for allowing refuse truck turning radius of : Commercial 50 ft. outside 36 ft. inside; Residential 35 ft. outside, 20 ft. inside.
XX	Paved areas should be engineered to withstand a 55,000 lb. refuse truck.
XX	Bin enclosure gates are required
	Hammerhead turnaround must be built per city standards.
	Cul - de - sac must be built per city standards.
XX	Bin enclosures are for city refuse containers only. Grease drums or any other items are not allowed to be stored inside bin enclosures.
XX	Area in front of refuse enclosure must be marked off indicating no parking
XX	Enclosure will have to be designed and located for a STAB service (DIRECT ACCESS) with no less than 38' clear space in front of the bin, included the front concrete pad.
	Customer will be required to roll container out to curb for service.
XX	Must be a concrete slab in front of enclosure as per city standards, the width of the enclosure by ten(10) feet, minimum of six(6) inches in depth.
	Roll off compactor's must have a clearance of 3 feet from any wall on both sides and there must be a minimum of 53 feet clearance in front of the compactor to allow the truck enough room to provide service.

XX	City ordinance 8.28.120-130 (effective 07/19/18) requires contractor to contract with City for removal of construction debris unless transported in equipment owned by contractor or unless contracting with a franchise permittee for removal of debris utilizing roll-off boxes.
Comment	Bin enclsoure placement set for STAB access, with no less than 38' clear space in front of bin, including the front concrete pad. Enclosure gate must open 180 degrees, clear all curbing, and include cain bolts.

Jason Serpa, Solid Waste Manager, 559-713-4533
Edward Zuniga, Solid Waste Supervisor, 559-713-4338

Nathan Garza, Solid Waste,559-713-4532





Vicinity Map

General Plan Land Use Map

0 0.01 0.01 0.03 Miles

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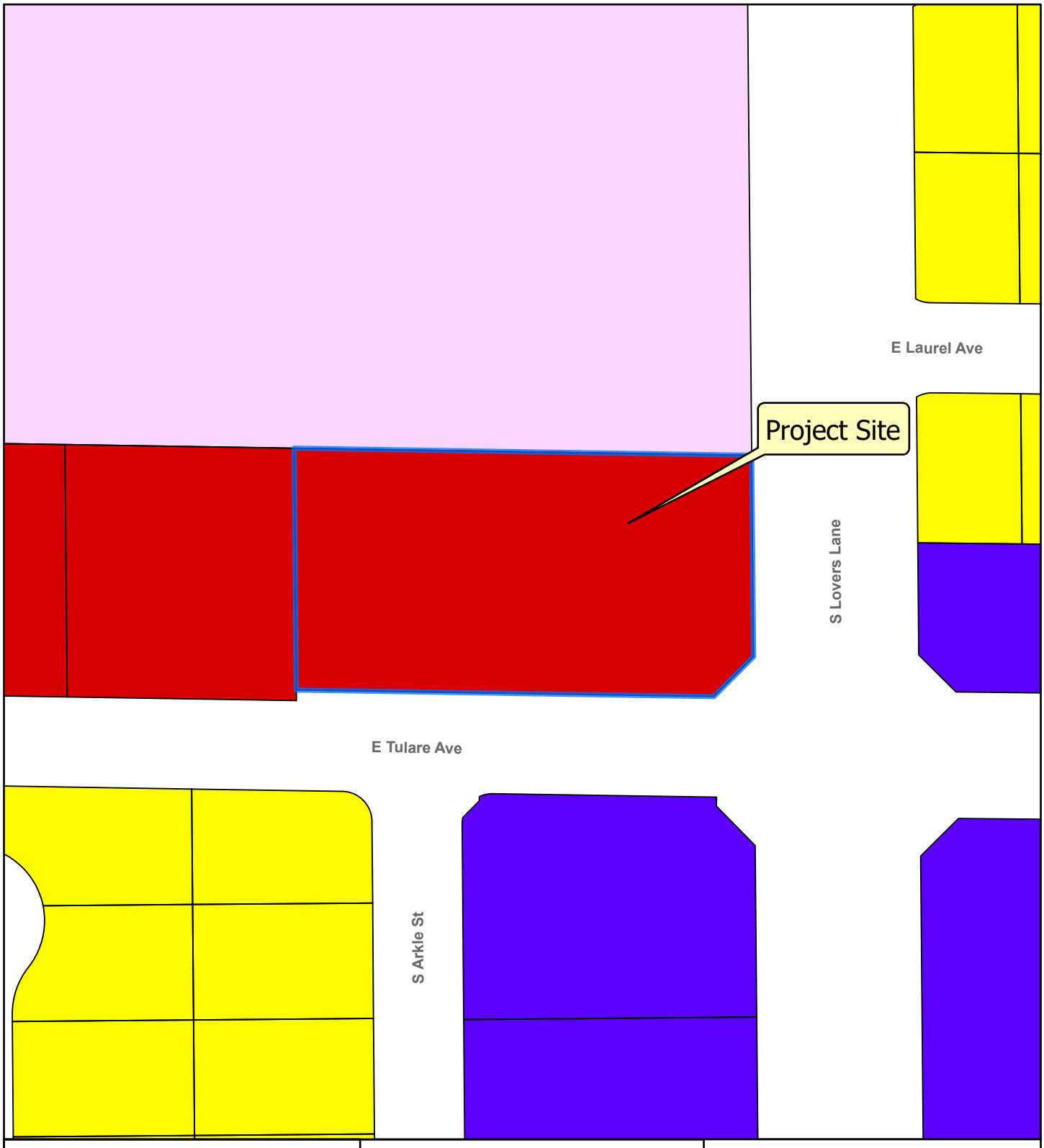
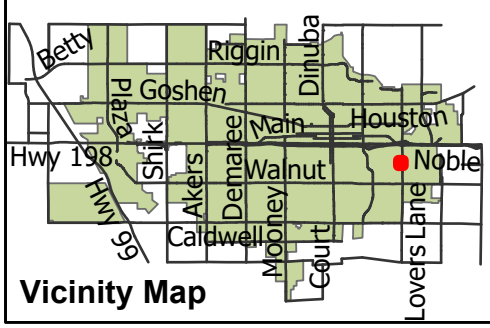
- Commercia Mixed Use
- Commercial Neighborhood
- Office
- Residential Low Density





Vicinity Map

Zoning Map

0 0.01 0.01 0.03 Miles

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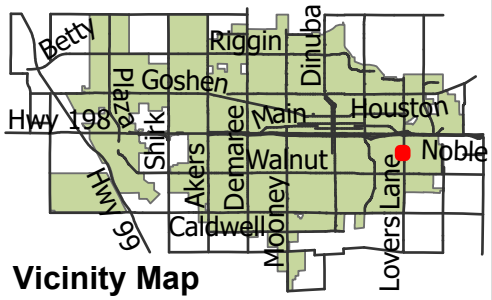
- C-N Neighborhood Commercial
- C-MU Mixed Use Commercial
- O-PA Professional / Admin Office
- R-1-5 Single-family Residenital



Aerial Map

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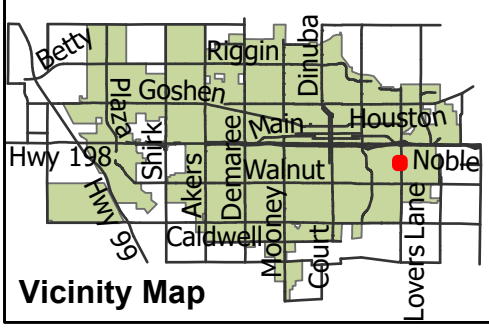
VISALIA

Founded 1852



Vicinity Map

Vicinity

0 0.01 0.01 0.03 Miles

N W E S

VISALIA

Founded 1852

REPORT TO CITY OF VISALIA PLANNING COMMISSION

HEARING DATE: August 12, 2024

PROJECT PLANNER: Cristobal Carrillo, Associate Planner
Phone No.: (559) 713-4443
E-mail: cristobal.carrillo@visalia.city

SUBJECT: **Revocation of Conditional Use Permit No. 2019-27:** A request by the City of Visalia, pursuant to Municipal Code section 17.38.040, to revoke Conditional Use Permit No. 2019-27, which allows the operation of a massage therapy business at 500 South Santa Fe Street, located in the O-C (Office Conversion) Zone (APN: 097-121-023).

STAFF RECOMMENDATION

Staff recommends revoking Conditional Use Permit No. 2019-27. Staff's recommendation is based on the conclusion that the owner/operator has failed to comply with the terms and conditions of the Conditional Use Permit and the Visalia Municipal Code.

RECOMMENDED MOTION

I move to approve revocation of Conditional Use Permit No. 2019-27 based on the findings and conditions in Resolution No. 2024-47.

BACKGROUND

The request to revoke Conditional Use Permit (CUP) No. 2019-27 is in response to violations of the terms and conditions of the conditional use permit and Municipal Code (VMC) provisions for the massage therapy establishment located at 500 South Santa Fe Street. On June 21, 2024, a Notice of Conditional Use Permit Suspension letter was sent via certified mail to both the property owner and business operator informing them that the conditional use permit was being suspended and a public hearing was being set to determine if the conditional use permit should be revoked. A copy of that letter is provided as Attachment "A" to this staff report.

On June 7, 2024, Code Enforcement Officers with the Neighborhood Preservation Division conducted a site inspection of the massage establishment located at 500 South Santa Fe Street. The inspection was conducted as part of the Neighborhood Preservation Division's efforts to enforce VMC/CUP compliance through regular inspections of massage-based businesses. During the inspection, staff found evidence of a number of violations of VMC and CUP provisions. The violations are listed below. Applicable sections of the VMC are also cited, with the full text of available to view in Attachment "D

- Zoning/CUP Violations (VMC Title 17, CUP No. 2019-27):
    - Failure to obtain a Building Permit for an unpermitted gate and fencing (CUP Condition No. 4 required, "That prior to operation of the massage parlor use the applicant shall obtain a Building Permit for the metal gate and fencing…").
    - Failure to remove an unpermitted sea train container located on the premises (CUP Condition No. 5 required, "That the applicant shall remove the existing storage container from the project site prior to operation of the massage parlor use.").
    - Failure to comply with all applicable federal, state, and city laws, codes and ordinances (CUP Condition No. 8 required, "That all applicable federal, state, and city laws, codes and ordinances be met.").

- Use of a commercial building for residential purposes without issuance of a CUP, which was required at the time of the original CUP's approval on September 9, 2019 (VMC 17.25.030, Line R27).

- Building and Fire Code Violations (VMC Title 15):
  - Construction of a shower and installation of plumbing on the premises without a Building Permit (VMC 15.08.010, 15.20.010, 15.28.010).
  - Use of a commercial building for residential purposes without proper permits for its conversion (VMC 15.08.010, 15.20.010, 15.24.010, 15.28.010).
  - Improper storage/mounting of fire extinguishers (VMC 8.20.010).
  - Lack of smoke and carbon monoxide detectors on the premises (VMC 8.20.010, 15.080.010).
- Business Regulation Violations (VMC Title 5):
  - Noncompliance with all applicable City codes (VMC 5.68.060).
  - Unregistered massage employee working onsite (VMC 5.68.100.B).
  - Massage employee lacking California Massage Therapy Council (CAMTC) certification (VMC 5.68.040.A, B, 5.68.080, 5.68.100.C).
  - CAMTC certifications not displayed in a prominent location onsite (VMC 5.68.070, 5.68.100.D).

As a result of the above violations, the business was posted with a Cease and Desist and Unsafe to Occupy order which was posted on the business door. The business was ordered to cease operations until it came into compliance with applicable legal requirements. A copy of the Cease and Desist is provided as Attachment "B".

Pursuant to Section 17.38.040 of the Zoning Ordinance, violation of any applicable provisions of this title, or, if granted subject to a condition or conditions, upon failure to comply with the condition or conditions, a conditional use permit shall be suspended automatically. The Planning Commission shall hold a public hearing within sixty (60) days, in accordance with the procedure prescribed in Section 17.38.080, and if not satisfied that the regulation, general provision or condition is being complied with, may revoke the permit or take such action as may be necessary to ensure compliance with the regulation, general provision or condition. Appeals of the decision of the Planning Commission may be made to the City Council as provided in Section 17.38.120 of the Zoning Ordinance. Please note, pursuant to Section 17.38.050, following the revocation of a conditional use permit, no application for a conditional use permit for the same or substantially the same conditional use permit on the same or substantially the same site shall be filed within one year from the date of the revocation of the permit unless such denial was a denial without prejudice by the planning commission or city council.

BACKGROUND INFORMATION

General Plan Land Use Designation:	Office	
Zoning:	O-C (Office-Conversion)	
Surrounding Zoning and Land Use:	North:	Not applicable / Noble Avenue, State Highway 198
	South:	R-M-2 (Multifamily Residential, 3,000 sq. ft. minimum site area) / Single and multifamily residences
	East:	R-M-2 / Single and multifamily residences
	West:	O-C, R-1-5 (Single Family Residential, 5,000 sq. ft. minimum site area) / Single and multifamily residences

Related Project

On September 9, 2019, Conditional Use Permit No. 2019-27 was approved by the Visalia Planning Commission allowing a massage therapy business to operate in an existing 1,182 square foot building in the O-C Zone. As part of the approval, conditions where applied requiring removal of an existing non-permitted sea train prior to operation of the use and permitting of existing non-permitted metal gate and fencing. A copy of the staff report and resolution are attached to this report as Attachment “C”.

PROJECT ANALYSIS

Revocation Request

Staff recommends the revocation of Conditional Use Permit No. 2019-27 based on the operator/owner’s failure to comply with the terms and conditions of the CUP and the VMC. Upon issuing the Cease-and-Desist order, staff conducted a review of the CUP and site address and noted the following violation, which is noted in Attachment “A” as follows:

1. Case No. CE240927: During an inspection of the site conducted June 7, 2024, by Neighborhood Preservation staff, it was observed that the massage establishment owner or employee conducted unpermitted construction work within the premises, installing a shower and related plumbing without a Building Permit. It was also observed that two massage beds appeared to be set up for personal use, with bedding, pillows, and adjacent night stands for personal item storage. Personal effects, such as underwear, were also observed hanging from the makeshift shower. The facility also contained kitchen items in areas outside of the designated break room, such as cutting boards with food scraps, plastic wrap, bowls, liquid containers, and crock pots. Based on the type of items found on the site, City staff concluded the owner or employees were also living in the commercial suite where the massage establishment is located. The commercial suite is not intended for human habitation and did not meet housing requirements. Unsafe conditions were also observed onsite. Specifically, staff noted that the unpermitted shower unit was sitting atop a wooden pallet with electrical cords from a lamp and washing machine strewn in and around the shower. Photographs taken during the inspection depicting the above conditions are provided in Exhibit “E”.

   During the June 7, 2024, site inspection, Neighborhood Preservation staff also discovered that massage establishment employees working onsite where not in compliance Business Tax regulations pertaining to massage establishments. Specifically, massage establishment employees were found not to have registered with the City of Visalia, nor maintained active CAMTC certifications. CAMTC certifications were also not displayed onsite. The massage establishment owner or employee also did not properly mount fire extinguishers, nor maintain fire and carbon monoxide detectors onsite. Lastly, Neighborhood Preservation staff observed that the massage establishment owner or employee were operating the use in violation of conditions of approval applied to the CUP. Specifically, an unpermitted sea train container on the premises was not removed prior to operation, and Building Permits where never obtained for an unpermitted gate and fencing onsite.

The City Council adopted the urgency ordinance to further ensure the City of Visalia properly regulates massage establishments in compliance with adopted state statutes, while also imposing reasonable conditions on the operation of massage establishments, in the interim, until more specific regulatory changes to the Visalia Municipal Code are further considered. These efforts, along with the existing Municipal Code requirements, are intended to avoid the potential threat this type of establishment may have if massage businesses operate in a manner that result in negative impacts to the public’s peace, health, safety, and welfare. In addition to adopting these measures, the City Council expressed zero tolerance for businesses caught operating in a manner resulting in illicit and/or nuisance activities.

As noted above, the massage establishment at this location was found to be operating in a manner of non-compliance with both state and local codes and regulations and conditions adopted for the CUP resulting in the massage establishment being a threat to the public health, safety, or welfare of the surrounding residential areas. As such, staff is requesting the Planning Commission revoke CUP No. 2019-27 due to the owner/operator failing to comply with the conditions adopted for this CUP and for violating Municipal Code requirements for massage establishments.

The subject property contains an office building that was permitted in 2019 for use as a massage establishment through the CUP process. City staff consider a massage establishment use to present different property management issues compared to other types of professional/administrative office uses. The CUP requires that massage establishments comply with applicable laws and regulations, while failure to comply with these rules can result in fines/penalties to the massage establishment operator and, potentially, the property owner. The property owner, as the holder of the CUP, is also responsible for ensuring that the requirements of the CUP are met for the CUP to continue "running with the land". City staff is recommending the CUP be revoked based on the failure of the CUP requirements to be met. The referenced conditions set forth in the CUP were clear; obtain permits for the unpermitted gate and fence and remove the container on the property prior to opening the massage business. However, none of these conditions were completed before the massage business opened. In addition, City staff noted multiple code violations that raise concerns over how the building is being managed. As noted above, persons living in the commercial unit is a serious violation, as is unpermitted construction that creates an unsafe environment, and conducting business via unlicensed/unpermitted employees. The noted violations indicate a lack of oversight over operations conducted on the subject property, which creates the potential for conditions to occur that are detrimental to the public health, safety, or welfare, or materially injurious to properties in the vicinity. The massage establishment owner appears to have difficulty enforcing CUP requirements and making sure that tenants comply with VMC requirements. Staff therefore recommends the CUP be revoked.

Massage Establishment Business Owners

The massage establishment located at 500 South Santa Fe Street has changed business owners twice since the conditional use permit was approved. The initial applicant for Conditional Use Permit No. 2019-27 (Yuzhen Yang) never obtained a business license. Instead, the business was first initiated by Zhi Bin Liu, who obtained a business tax certificate and operated the use from July 1, 2019, to November 15, 2019. A business tax certificate was then issued to Ya Gui Li for the massage business, with additional certificates issued to massage therapists Yulian Li and Chunmei Xiao. These business tax certificates were active from November 2019 to June 7, 2024, when the massage establishment was shut down.

Property History

Staff researched the property record for 500 South Santa Fe Street to determine if there are any other active conditionally permitted uses associated with the subject site. Staff's review found no other conditionally permitted uses operating at this location. In addition, staff researched if other code violations have been issued against this property and found two, Case No. CE191034 for temporary banner signage without a permanent sign onsite, and Case No. CE230128, for damage caused by a vehicle colliding into the building.

Current City of Visalia Regulations

VMC Chapter 5.68 (Massage Establishments) delineates permitting standards intended to comply with California law and establish health and safety guidelines for massage establishments. The recent adoption of Ordinance No. 2024-05 expands on the provisions of VMC Chapter 5.68 as well as Title 17 (Zoning). A copy of Section 5.68 and Ordinance No. 2024-05 are attached to this report as Attachment "D".

RECOMMENDED FINDINGS

1. That the massage establishment is in violation of Conditional Use Permit No. 2019-27, Title 5 Business Regulations Chapter 5.68 “Massage Establishments” of the Visalia Municipal Code, and state and local regulations.
2. That continuing to allow a massage establishment under the current Conditional Use Permit may have a negative impact on surrounding businesses and neighborhood due to the repeated failures of massage establishments at this location to meet applicable requirements.
3. That the Notice of Conditional Use Permit Suspension was issued by the City of Visalia on June 21, 2024, pursuant to Section 17.38.040 of the Zoning Ordinance.

APPEAL INFORMATION

According to the City of Visalia Zoning Ordinance Section 17.02.145, an appeal to the City Council may be submitted within ten days following the date of a decision by the Planning Commission. An appeal with applicable fees shall be in writing and shall be filed with the City Clerk at 220 North Santa Fe Street, Visalia California. The appeal shall specify errors or abuses of discretion by the Planning Commission, or decisions not supported by the evidence in the record. The appeal form can be found on the city’s website www.visalia.city or from the City Clerk.

Attachments:

- Resolution No. 2024-47
- Attachment “A” – Notice of Conditional Use Permit Suspension
- Attachment “B” – Cease and Desist Letter
- Attachment “C” – Conditional Use Permit No. 2019-27 Planning Commission Staff Report and Resolution No. 2019-51
- Attachment “D” – Visalia Municipal Code Applicable Chapters, Massage Urgency Ordinance, and Conditional Use Permit No. 2019-27 Conditions of Approval
  - Chapter 5.68 (Massage Establishments)
  - Chapter 8.20 (California Fire Code)
  - Chapter 15.08 (California Building Code)
  - Chapter 15.20 (California Plumbing Code)
  - Chapter 15.24 (California Mechanical Code)
  - Chapter 15.28 (California Electric Code)
  - Chapter 17.25 (Uses In The Commercial, Mixed Use, Office, and Industrial Zones) – 2017
  - Chapter 17.38 (Conditional Use Permits)
  - City Council Urgency Ordinance No. 2024-05
  - Conditional Use Permit No. 2019-27 Conditions of Approval
- Attachment “E” – June 7, 2024, Site Pictures
- Aerial Map
- Location Map

RESOLUTION NO. 2024-47

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING A REQUEST BY THIS CITY OF VISALIA, PURSUANT TO MUNICIPAL CODE SECTION 17.38.040, TO REVOKE CONDITIONAL USE PERMIT NO. 2019-27, WHICH ALLOWS THE OPERATION OF A MASSAGE THERAPY BUSINESS AT 500 SOUTH SANTA FE STREET, LOCATED IN THE O-C (OFFICE CONVERSION) ZONE (APN: 097-121-023).

WHEREAS, Conditional Use Permit No. 2019-27 was a request to allow massage therapy establishment in the Office Conversion (O-C) zone located at 500 South Santa Fe Street; and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice, did hold a public hearing before said Commission on September 9, 2019, and found the Conditional Use Permit No. 2019-27, as conditioned, to be in accordance with Chapter 17.38.110 of the Zoning Ordinance of the City of Visalia based on the evidence contained in the staff report and testimony presented at the public hearing; and

WHEREAS, on June 7, 2024, Code Enforcement Officers with the Neighborhood Preservation Division conducted a site inspection of the massage establishment located at 500 South Santa Fe Street as part of its program of compliance inspections for massage therapy uses, and upon inspection of the business found violations of Visalia Municipal Code Chapters 5.68, 8.20, 15.08, 15.20, 15.24, 15.28, 17.25, 17.38, violations of City Council Urgency Ordinance No. 2024-05, and violations of Conditional Use Permit No. 2019-27 conditions of approval. A Cease-and-Desist order was issued and posted on the business door and the business was ordered to cease operations until further notice; and

WHEREAS, on June 21, 2024, a Notice of Conditional Use Permit Suspension letter, pursuant to Section 17.38.040 of the Zoning Ordinance, was sent by certified mail to both the property owner and business operator informing them that the conditional use permit is being suspended and a public hearing was being set to determine if the conditional use permit should be revoked; and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice, did hold a public hearing before said Commission on August 12, 2024; and

WHEREAS, the Planning Commission of the City of Visalia has considered the request for revocation of the Conditional Use Permit in accordance with Sections 17.38.040, 17.38.080, 17.38.090, 17.38.100 and 17.38.110 of the Zoning Ordinance of the City of Visalia; and

WHEREAS, the Planning Commission of the City of Visalia finds the owner/operator of said massage therapy establishment to be in violation of the terms and conditions of approval of the Conditional Use Permit based on the evidence contained in the staff report and testimony presented at the public hearing.

NOW, THEREFORE, BE IT RESOLVED that the Planning Commission of the City of Visalia makes the following specific findings based on the evidence presented:

1. That the massage establishment is in violation of Conditional Use Permit No. 2019-27, Title 5 Business Regulations Chapter 5.68 “Massage Establishments” of the Visalia Municipal Code, and state and local regulations.
2. That continuing to allow a massage establishment under the current Conditional Use Permit may have a negative impact on surrounding businesses and neighborhood due to the repeated failures of massage establishments at this location to meet applicable requirements.
3. That the Notice of Conditional Use Permit Suspension was issued by the City of Visalia on June 21, 2024, pursuant to Section 17.38.040 of the Zoning Ordinance.

BE IT FURTHER RESOLVED that the Planning Commission hereby approves the revocation of Conditional Use Permit No. 2019-27 on the real property here described in accordance with the terms of this resolution under the provisions of Section 17.38.110 of the Ordinance Code of the City of Visalia.

ATTACHMENT A

City of Visalia

315 East Acequia Ave., Visalia, CA 93291

Planning & Community Preservation

Tel: (559) 713-4194 Fax: (559) 713-4811

Notice of Conditional Use Permit Suspension

JUNE 21, 2024

MAKSY PROPERTIES LLC
6 SUMMERWIND CT,
NEWPORT BEACH, CA 92663

CASE NUMBER: **CE240927**
CONDITIONAL USE PERMIT NO.: 2019-027
RE: 500 S. SANTA FE ST., VISALIA, CA 93292

The subject property was issued Conditional Use Permit No. 2019-027, which allows a massage establishment on the site. This letter is to inform you that the Conditional Use Permit is being suspended by the City of Visalia due to code violations by the massage establishment on the site. A public hearing by the Visalia Planning Commission will be set within the next sixty days to determine if this Conditional Use Permit should be permanently revoked or if the suspension should be lifted and the business allowed to resume under the prior conditions or with additional conditions.

On June 7, 2024, I conducted an inspection of the massage establishment located at 500 S Santa Fe St (APN: 097-121-023). There were two female subjects present at this location, one had her CAMTC license, (Yulian Li) and the other female refused to provide a name or proof of a CAMTC license. Additionally, there was a CAMTC certification displayed for Chunmei Xiao. We have confirmed that the certification for this employee was revoked by CAMTC. It was also evident that the two female subjects were living on the premises. There were two massage beds set up for personal use along with personal items on a nightstand, and lingerie hanging in the shower.

Upon further inspection of the building, it became apparent that additional work was done to the building without proper permits and approvals. The construction method for the shower, which was placed on the top of a wood pallet, does not comply with California Building code(s). The plumbing for the shower was also done incorrectly and not to California building code standards as there were also electrical cords running on the ground near the unpermitted shower that were connected to a lamp and another appliance. Additionally, there were no smoke or carbon monoxide detectors in the building as required for resident use.

Based on all the unpermitted work done to the interior of the building, and no approved building permit(s) that permitted the commercial building to be used for residential purposes, the building and business was posted with a Cease-and-Desist Order, along with an Unsafe to Occupy Notice.

Additionally, city staff reviewed the Conditional Use Permit (i.e., Conditional Use Permit No. 2019-027) that was approved allowing massage establishments to operate at the above noted location along with the site address and found that the following violations of the Conditional Use Permit:

- The storage container was not removed prior to opening the business
- A building permit was not obtained for the metal gate and fence
- All applicable federal, state and city laws, codes and ordinances were not met

As a result of violations of the Visalia Municipal Code at this massage establishment, you are hereby issued this Notice of Conditional Use Permit Suspension. The Conditional Use Permit is hereby suspended, and the massage establishment is not permitted to operate on this site unless the Conditional Use Permit is reestablished by the Visalia Planning Commission or the Visalia City Council. This suspension is effective as of the date of this letter and is issued pursuant to Section 17.38.040 of the Visalia Municipal Code which states:

Upon violation of any applicable provision of this title, or, if granted subject to a condition or conditions, upon failure to comply with the condition or conditions, a conditional use permit shall be suspended automatically. The planning commission shall hold a public hearing within sixty (60) days, in accordance with the procedure prescribed in Section 17.38.080, and if not satisfied that the regulation, general provision or condition is being complied with, may revoke the permit or take such action as may be necessary to ensure compliance with the regulation, general provision or condition. Appeals of the decision of the planning commission may be made to the city council as provided in Section 17.38.120. (Ord. 2017-01 (part), 2017: prior code § 7528)

A copy of Section 17.38.120 is also enclosed with this letter. A public hearing by the planning commission shall be held within the next sixty days. Notice of the public hearing shall be mailed to you, the current business owner, all property owners within three hundred feet of the subject property and published at least ten days in advance of the hearing.

Please be aware that any further violation of the provisions shall be punishable as a misdemeanor. Pursuant to Visalia Municipal Code Section 1.12.010 no person shall violate any provision of this code or fail to comply with the mandatory requirements of the ordinances of the City. Any person convicted of a misdemeanor shall be punished by a fine not to exceed $1,000.00 or by imprisonment in County Jail not to exceed 6 months or by both such fine and imprisonment.

Sincerely,

Martha Zavala, CCEO
Code Enforcement Officer
(559) 713-4192
martha.zavala@visalia.city

Enclosures:

1. Copy of Cease and Desist
2. Sections 17.02.145 and 17.38.110 of the Visalia Municipal Code

Cc: Leslie Caviglia, City Manager – via e-mail
John Lollis, Assistant City Manager – via e-mail
Ken Richardson, City Attorney – via e-mail
James Koontz, Assistant City Attorney – via e-mail
Paul Bernal, Planning and Community Preservation Director – via e-mail
Tracy Robertshaw, Neighborhood Preservation Manager – via e-mail

17.02.145 Appeal to city council

Where the planning commission is authorized to make any decision pursuant to the provisions of Title 17 of the Visalia Municipal Code and that decision is to be subject to appeal to the city council, the following procedure shall apply.

A. *The subdivider or any interested person adversely affected may, upon payment of an appeal fee as may be established by resolution of the Council, appeal any decision, determination or requirement of the planning commission by filing a notice thereof in writing with the city clerk, setting forth in detail the action and the grounds upon which the appeal is based within ten (10) days after the action that is the subject of the appeal. Such notice shall state specifically where it is claimed there was an error or abuse of discretion by the planning commission.*

B. *clerk, setting forth in detail the action and the grounds upon which the appeal is based within ten (10) days after the action that is the subject of the appeal. Such notice shall state specifically where it is claimed there was an error or abuse of discretion by the planning commission.*

C. *or abuse of discretion by the planning commission.*

D. *Upon the filing of an appeal, the city council shall set the matter for hearing. Such hearings shall be held within thirty (30) days after the date of filing the appeal or receipt of council member requests. The city clerk shall give notice of the hearing according to the procedure required for the initial action by the Planning Commission, except that the timing of such notice shall be not less than 10 days before the hearing.*

E. *In holding the hearing on the matter, the Council may receive any and all information pertinent to the matter, regardless of whether such information was first presented to the planning commission. In the case of decisions by the planning commission that followed a public hearing, the city council shall hold a new public hearing on the matter. Upon the close of the hearing, the Council shall vote to either confirm the decision of the planning commission, overturn the decision, or confirm the decision with modifications, and the Council may continue the item to the next meeting if necessary to direct staff to prepare a conforming resolution with findings, which shall be considered by the Council at the next scheduled Council meeting. In the case of a tie vote, the planning commission decision shall stand, and shall be considered final as of the date of the Council vote. (Ord. 2017-01 (part), 2017: Ord. 2006-18 § 3, 2007)*

F. *ation pertinent to the matter, regardless of whether such information was first presented to the planning commission. In the case of decisions by the planning commission that followed a public hearing, the city council shall hold a new public hearing on the matter. Upon the close of the hearing, the Council shall vote to either confirm the decision of the planning commission, overturn the decision, or confirm the decision with modifications, and the Council may continue the item to the next meeting if necessary to direct staff to prepare a conforming resolution with findings, which shall be considered by the Council at the next scheduled Council meeting. In the case of a tie vote, the planning commission decision shall stand, and*

shall be considered final as of the date of the Council vote. (Ord. 2017-01 (part), 2017: Ord. 2006-18 § 3, 2007)

G. *odifications, and the Council may continue the item to the next meeting if necessary to direct staff to prepare a conforming resolution with findings, which shall be considered by the Council at the next scheduled Council meeting. In the case of a tie vote, the planning commission decision shall stand, and shall be considered final as of the date of the Council vote. (Ord. 2017-01 (part), 2017: Ord. 2006-18 § 3, 2007)*

H. *sary to direct staff to prepare a conforming resolution with findings, which shall be considered by the Council at the next scheduled Council meeting. In the case of a tie vote, the planning commission decision shall stand, and shall be considered final as of the date of the Council vote. (Ord. 2017-01 (part), 2017: Ord. 2006-18 § 3, 2007)*

17.38.110 Action by planning commission.

A. *The planning commission may grant an application for a conditional use permit as requested or in modified form, if, on the basis of the application and the evidence submitted, the commission makes the following findings:*

1. *That the proposed location of the conditional use is in accordance with the objectives of the zoning ordinance and the purposes of the zone in which the site is located;*
2. *That the proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety or welfare, or materially injurious to properties or improvements in the vicinity.*

B. *A conditional use permit may be revocable, may be granted for a limited time period, or may be granted subject to such conditions as the commission may prescribe. The commission may grant conditional approval for a permit subject to the effective date of a change of zone or other ordinance amendment.*

C. *nge of zone or other ordinance amendment.*

D. *The commission may deny an application for a conditional use permit. (Ord. 2017-01 (part), 2017: prior code § 7536)*

17.38.120 Appeal to city council.

The decision of the City planning commission on a conditional use permit shall be subject to the appeal provisions of Section 17.02.145. (Ord. 2017-01 (part), 2017: Ord. 2006-18 § 6, 2007: prior code § 7537)

ATTACHMENT B

City of Visalia
315 East Acequia Ave., Visalia, CA 93291

Neighborhood Preservation
Tel: (559) 713-4534 Fax: (559) 713-4811

CEASE AND DESIST ORDER

Pursuant to Visalia Municipal Code Section 5.04.130 *(E), Cease and Desist Orders* ***shall*** *be issued to any entity which:*

Is in non-compliance with any city ordinance or regulatory agency.

Additionally, Visalia Municipal Code Section 8.40.030 *(I) 2 states that any condition on a property that affects an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal.*

Under the Visalia Municipal Code Section 5.68.040 Massage Establishments

5.68.060 Additional requirements

Before operating a massage establishment in the city, massage establishment owners must comply with all applicable codes adopted by the city, including, without limitation, the building, electrical, and plumbing codes.

5.68.070 Display of permit.

Any owner of a massage establishment or off-premise massage service must display the CAMTC certificates for all massage technicians prominently in a conspicuous place, capable of being viewed by customers or city representatives, at every location where massage is performed or conducted. For off-premise massage services, massage workers must also carry a copy of their CAMTC certificate and display it to customers upon request. Any persons operating under the limited exception described in Section 5.68.040(D) must display the statement from the city documenting their exemption from the CAMTC certification prominently in a conspicuous place capable of being viewed by customers or city representatives, or carry it with them for off-premise massage services.

5.68.090 Prohibited conduct.

A. It is unlawful for any massage technician or any other employee working in a massage establishment or for an out-call massage service, or customers, patrons, or guests of the establishment or service, to engage in any specified sexual activities upon the premises of the massage establishment or the off-premise massage location.

B. It is unlawful for any massage technician or other employee of a massage establishment to expose specified anatomical areas in the presence of any patron, customer, or guest.

C. In the course of administering the massage, it is unlawful for any massage technician or other massage establishment employee to make intentional physical contact with the specified anatomical areas of any customer, patron or guest.

The business, HEAITH MASSAGE, located at 500 S SANTA FE ST is in noncompliance with this and other City Ordinances or regulatory agencies and as such is directed to immediately Cease and Desist conducting any further business until such time that the business is brought into compliance with all local, state and federal laws.

You are hereby ordered to immediately cease and desist any and all operations for this business until all required Municipal Code requirements are met.

For information regarding this order contact the City of Visalia Neighborhood Preservation Division at (559)713-4534.

Date: 6/7/24

By Order of: _____

Code Enforcement Officer, CCEO

ATTACHMENT C

RESOLUTION NO. 2019-51

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING CONDITIONAL USE PERMIT NO. 2019-27, A REQUEST BY YUZHEN YANG TO ESTABLISH A MASSAGE PARLOR WITHIN AN EXISTING BUILDING IN THE O-C (OFFICE CONVERSION) ZONE. THE SITE IS LOCATED AT 500 S. SANTA FE STREET. (APN: 097-121-023).

WHEREAS, Conditional Use Permit No. 2019-27, is a request by Yuzhen Yang to establish a massage parlor within an existing building in the O-C (Office Conversion) Zone. The site is located at 500 S. Santa Fe Street. (APN: 097-121-023); and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice did hold a public hearing before said Commission on September 9, 2019; and

WHEREAS, the Planning Commission of the City of Visalia finds the Conditional Use Permit to be in accordance with Chapter 17.38.110 of the Zoning Ordinance of the City of Visalia based on the evidence contained in the staff report and testimony presented at the public hearing; and

WHEREAS, the Planning Commission finds the project to be Categorically Exempt consistent with the California Environmental Quality Act (CEQA) and City of Visalia Environmental Guidelines.

NOW, THEREFORE, BE IT RESOLVED that the project is exempt from further environmental review pursuant to CEQA Section 15301.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Planning Commission of the City of Visalia makes the following specific findings based on the evidence presented:

1. That the proposed project, as conditioned, will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
2. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance. Specifically, the project is consistent with the required findings of Zoning Ordinance Section 17.38.110:
    a. The proposed location of the conditional use permit is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located.
    b. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity.
3. That the project is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of CEQA. (Categorical Exemption No. 2019-36).

BE IT FURTHER R OLVED that the Planning Commi on hereby approves the Conditional Use Permit on the real property here described in accordance with the terms of this resolution under the provisions of Section 17.38.110 of the Ordinance Code of the City of Visalia, subject to the following conditions:

1. That the project be developed in substantial compliance with the comments from the approved Site Plan Review No. 2019-100.
2. That the site be developed in substantial compliance with the approved site plan and floor plan as shown in Exhibits "A" and "B".
3. That the site shall operate in substantial compliance with the operational statement as stated in Exhibit "C", except that the hours of operation shall be Monday through Friday, 9:00am to 8:00pm, and Saturday through Sunday, 9:00am to 7:00pm.
4. That prior to operation of the massage parlor use the applicant shall obtain a Building Permit for the metal gate and fencing as depicted in Exhibit "A", and that the gate shall remain unlocked and open during hours of operation.
5. That the applicant shall remove the existing storage container from the project site prior to operation of the massage parlor use.
6. That substantial changes to the site plan, floor plan, or operational statement may require an amendment to this Conditional Use Permit as determined through the Site Plan Review process
7. That all building signage shall require a separate building permit.
8. That all applicable federal, state and city laws, codes and ordinances be met.

Commissioner Taylor offered the motion to this resolution. Commissioner Peariso seconded the motion and it carried by the following vote:

AYES: Commissioners Taylor, Peariso, Gomez
NOES: Commissioners Hansen, Wynn
ABSTAINED:
ABSENT:

STATE OF CALIFORNIA)
COUNTY OF TULARE) ss
CITY OF VISALIA)

ATTEST: Paul Bernal, City Planner

I, Paul Bernal, Secretary of the Visalia Planning Commission, certify the foregoing is the full and true Resolution No. 2019 -51, passed and adopted by the Planning Commission of the City of Visalia at a regular meeting held on September 9, 2019.

Paul Bernal, City Planner

Liz Wynn, Chairperson

REPORT TO CITY OF VISALIA PLANNING COMMISSION

HEARING DATE: September 9, 2019

PROJECT PLANNER: Cristobal Carrillo
Associate Planner, (559) 713-4443
E-mail: cristobal.carrillo@visalia.city

SUBJECT: **Conditional Use Permit No. 2019-27:** A request by Yuzhen Yang to establish a massage parlor within an existing building in the O-C (Office Conversion) Zone. The site is located at 500 S. Santa Fe Street. (APN: 097-121-023).

STAFF RECOMMENDATION

Staff recommends approval of Conditional Use Permit No. 2019-27 based on findings and conditions in Resolution No. 2019-51. Staff's recommendation is based on the project's consistency with the policies of the City's General Plan and Zoning Ordinance.

RECOMMENDED MOTION

I move to approve Conditional Use Permit No. 2019-27 based on the findings and conditions in Resolution No. 2019-51.

PROJECT DESCRIPTION

The request is to establish a massage therapy business within an existing 1,182 sq. ft. office building on an approximately 7,320 sq. ft. lot. The facility will provide body and foot massage services as listed in the operational statement in Exhibit "C". Access to the site is will be from Noble Avenue through an adjacent alley to the east. The site contains its own six stall parking field and mature landscaping.

As shown in Exhibit "B", the facility will include three rooms for massage services, a customer waiting area, and various spaces for employee use (office, reception, records, and break rooms). Per submitted plans no exterior alterations are proposed.

Proposed hours of operation for the use are 9:00am to 9:00pm, Monday through Sunday. Per Exhibit "C" the facility will only have one employee onsite.

BACKGROUND INFORMATION

General Plan Land Use Designation:	Office
Zoning:	O-C (Office-Conversion)
Surrounding Zoning and Land Use:	North: N/A – Noble Avenue, State Highway 198 South: R-M-2 (Multifamily Residential, 3,000 sq. ft. minimum site area) – Single and multifamily residential East: R-M-2 - Single and multifamily residential West: O-C, R-1-5 (Single Family Residential, 5,000 sq. ft. minimum site area) – Single and multifamily residential
Environmental Document	Categorical Exemption No. 2019-52
Site Plan:	Site Plan Review No. 2019-100

RELATED PROJECTS

None.

PROJECT EVALUATION

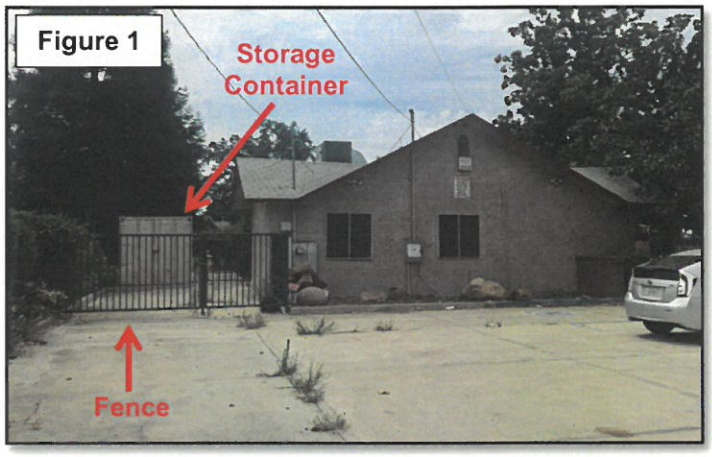
Land Use Compatibility

A massage therapy business is a permitted use in the O-C Zone with approval of a Conditional Use Permit. The facility will not conflict with surrounding uses given sufficient on-site parking and lack of activity resulting in excessive noise or environmental hazards. Adjacent residential uses are primarily oriented away from the proposed massage facility and/or separated by an alley. The existing residence just south of the building is screened by an approximately seven ft. tall block wall.

Parking and Access

The parking requirement for a massage therapy office is two parking stalls per work station. Based on this requirement, a total of six parking spaces are required. Per Exhibit "A" the site contains six striped parking spaces, thereby meeting the City's parking requirement.

Parking stall No. 6 as depicted in Exhibit "A" is blocked off from the rest of the parking field by a metal gate and fence (see Figure 1). Per the applicant, the fence will be kept open during operating hours, allowing use of the parking stall by the general public.



Historical aerial photographs show that the fencing was placed between 2010 and 2012. However, there is no permit on record during that time for the installation. Staff recommends the addition of Condition No. 4 requiring the applicant to obtain a Building Permit for the fence, and requiring the fence to remain open during hours of operation, given the proposed use of the stall to address parking demand.

Storage Container

A storage container is currently placed on the southwest corner of the project site (see Figure 1). City records do not indicate that the structure was permitted to be placed onsite. As stated in Visalia Municipal Code Section 17.20.010 (Office Zones – Purposes), the intent of the O-C Zone is to promote conversion of residential structures to office uses, while maintaining compatibility with adjacent residential areas. Placement of a storage container on the project site is considered incompatible with the surrounding residential areas and thus does not achieve the stated purpose of the O-C Zone. Staff recommends the addition of Condition No. 5 requiring removal of the storage container from the project site prior to operation of the massage parlor use.

Environmental Review

The requested action is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA). (Categorical Exemption No. 2019-52).

RECOMMENDED FINDINGS

1. That the proposed project will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
2. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance. Specifically, the project is consistent with the required findings of Zoning Ordinance Section 17.38.110:
   a. The proposed location of the conditional use permit is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located.
   b. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity.
3. That the project is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of the California Environmental Quality Act (CEQA) for minor alterations in land use limitations. (Categorical Exemption No. 2019-51).

RECOMMENDED CONDITIONS OF APPROVAL

1. That the project be developed in substantial compliance with the comments from the approved Site Plan Review No. 2019-100.
2. That the site be developed in substantial compliance with the approved site plan and floor plan as shown in Exhibits "A" and "B".
3. That the site shall operate in substantial compliance with the operational statement as stated in Exhibit "C".
4. That prior to operation of the massage parlor use the applicant shall obtain a Building Permit for the metal gate and fencing as depicted in Exhibit "A", and that the gate shall remain unlocked and open during hours of operation.
5. That the applicant shall remove the existing storage container from the project site prior to operation of the massage parlor use.
6. That substantial changes to the site plan, floor plan, or operational statement may require an amendment to this Conditional Use Permit as determined through the Site Plan Review process
7. That all building signage shall require a separate building permit.
8. That all applicable federal, state and city laws, codes and ordinances be met.

APPEAL INFORMATION

According to the City of Visalia Zoning Ordinance Section 17.02.145, an appeal to the City Council may be submitted within ten days following the date of a decision by the Planning Commission. An appeal with applicable fees shall be in writing and shall be filed with the City Clerk at 220 N. Santa Fe Street. The appeal shall specify errors or abuses of discretion by the Planning Commission, or decisions not supported by the evidence in the record. The appeal form can be found on the city's website www.visalia.city or from the City Clerk.

Attachments:

- Related Plans and Policies
- Resolution No. 2019-51
- Exhibit "A" – Site Plan
- Exhibit “B” – Floor Plan
- Exhibit “C” – Operational Statement
- Categorical Exemption No. 2019-52
- Site Plan Review Comments No. 2019-100
- General Plan Land Use Map
- Zoning Map
- Aerial Photo
- Location Map

Conditional Use Permits

(Section 17.38)

17.38.010 Purposes and powers.

In certain zones conditional uses are permitted subject to the granting of a conditional use permit. Because of their unusual characteristics, conditional uses require special consideration so that they may be located properly with respect to the objectives of the zoning ordinance and with respect to their effects on surrounding properties. In order to achieve these purposes and thus give the zone use regulations the flexibility necessary to achieve the objectives of this title, the planning commission is empowered to grant or deny applications for conditional use permits and to impose reasonable conditions upon the granting of such permits. (Prior code § 7525)

17.38.020 Application procedures.

A. Application for a conditional use permit shall be made to the planning commission on a form prescribed by the commission which shall include the following data:

1. Name and address of the applicant;
2. Statement that the applicant is the owner of the property or is the authorized agent of the owner;
3. Address and legal description of the property;
4. The application shall be accompanied by such sketches or drawings as may be necessary by the planning division to clearly show the applicant's proposal;
5. The purposes of the conditional use permit and the general description of the use proposed;
6. Additional information as required by the historic preservation advisory committee.

B. The application shall be accompanied by a fee set by resolution of the city council sufficient to cover the cost of handling the application. (Prior code § 7526)

17.38.030 Lapse of conditional use permit.

A conditional use permit shall lapse and shall become void twenty-four (24) months after the date on which it became effective, unless the conditions of the permit allowed a shorter or greater time limit, or unless prior to the expiration of twenty-four (24) months a building permit is issued by the city and construction is commenced and diligently pursued toward completion on the site which was the subject of the permit. A permit may be renewed for an additional period of one year; provided, that prior to the expiration of twenty-four (24) months from the date the permit originally became effective, an application for renewal is filed with the planning commission. The commission may grant or deny an application for renewal of a conditional use permit. In the case of a planned residential development, the recording of a final map and improvements thereto shall be deemed the same as a building permit in relation to this section. (Ord. 2001-13 § 4 (part), 2001: prior code § 7527)

17.38.040 Revocation.

Upon violation of any applicable provision of this title, or, if granted subject to a condition or conditions, upon failure to comply with the condition or conditions, a conditional use permit shall be suspended automatically. The planning commission shall hold a public hearing within sixty (60) days, in accordance with the procedure prescribed in Section 17.38.080, and if not satisfied that the regulation, general provision or condition is being complied with, may revoke the permit or take such action as may be necessary to insure compliance with the regulation, general provision or condition. Appeals of the decision of the planning commission may be made to the city council as provided in Section 17.38.120. (Prior code § 7528)

17.38.050 New application.

Following the denial of a conditional use permit application or the revocation of a conditional use permit, no application for a conditional use permit for the same or substantially the same conditional use on the same or substantially the same site shall be filed within one year from the date of denial or revocation of the permit unless such denial was a denial without prejudice by the planning commission or city council. (Prior code § 7530)

17.38.060 Conditional use permit to run with the land.

A conditional use permit granted pursuant to the provisions of this chapter shall run with the land and shall continue to be valid upon a change of ownership of the site or structure which was the subject of the permit application subject to the provisions of Section 17.38.065. (Prior code § 7531)

17.38.065 Abandonment of conditional use permit.

If the use for which a conditional use permit was approved is discontinued for a period of one hundred eighty (180) days, the use shall be considered abandoned and any future use of the site as a conditional use will require the approval of a new conditional use permit.

17.38.070 Temporary uses or structures.

A. Conditional use permits for temporary uses or structures may be processed as administrative matters by the city planner and/or planning division staff. However, the city planner may, at his/her discretion, refer such application to the planning commission for consideration.

B. The city planner and/or planning division staff is authorized to review applications and to issue such temporary permits, subject to the following conditions:

1. Conditional use permits granted pursuant to this section shall be for a fixed period not to exceed thirty (30) days for each temporary use not occupying a structure, including promotional enterprises, or six months for all other uses or structures.
2. Ingress and egress shall be limited to that designated by the planning division. Appropriate directional signing, barricades, fences or landscaping shall be provided where required. A security officer may be required for promotional events.
3. Off-street parking facilities shall be provided on the site of each temporary use as prescribed in Section 17.34.020.
4. Upon termination of the temporary permit, or abandonment of the site, the applicant shall remove all materials and equipment and restore the premises to their original condition.
5. Opening and closing times for promotional enterprises shall coincide with the hours of operation of the sponsoring commercial establishment. Reasonable time limits for other uses may be set by the city planner and planning division staff.
6. Applicants for a temporary conditional use permit shall have all applicable licenses and permits prior to issuance of a conditional use permit.
7. Signing for temporary uses shall be subject to the approval of the city planner.
8. Notwithstanding underlying zoning, temporary conditional use permits may be granted for fruit and vegetable stands on properties primarily within undeveloped agricultural areas. In reviewing applications for such stands, issues of traffic safety and land use compatibility shall be evaluated and mitigation measures and conditions may be imposed to ensure that the stands are built and are operated consistent with appropriate construction standards, vehicular access and off-street parking. All fruits and vegetables sold at such stands shall be grown by the owner/operator or purchased by said party directly from a grower/farmer.

C. The applicant may appeal an administrative decision to the planning commission. (Ord. 9605 § 30 (part), 1996: prior code § 7532)

17.38.080 Public hearing--Notice.

A. The planning commission shall hold at least one public hearing on each application for a conditional use permit.

B. Notice of the public hearing shall be given not less than ten days nor more than thirty (30) days prior to the date of the hearing by mailing a notice of the time and place of the hearing to property owners within three hundred (300) feet of the boundaries of the area occupied or to be occupied by the use which is the subject of the hearing, and by publication in a newspaper of general circulation within the city. (Prior code § 7533)

17.38.090 Investigation and report.

The planning staff shall make an investigation of the application and shall prepare a report thereon which shall be submitted to the planning commission. (Prior code § 7534)

17.38.100 Public hearing--Procedure.

At the public hearing the planning commission shall review the application and the statement and drawing submitted therewith and shall receive pertinent evidence concerning the proposed use and the proposed conditions under which it would be operated or maintained, particularly with respect to the findings prescribed in Section 17.38.110. The planning commission may continue a public hearing from time to time as it deems necessary. (Prior code § 7535)

17.38.110 Action by planning commission.

A. The planning commission may grant an application for a conditional use permit as requested or in modified form, if, on the basis of the application and the evidence submitted, the commission makes the following findings:

1. That the proposed location of the conditional use is in accordance with the objectives of the zoning ordinance and the purposes of the zone in which the site is located;

2. That the proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety or welfare, or materially injurious to properties or improvements in the vicinity.

B. A conditional use permit may be revocable, may be granted for a limited time period, or may be granted subject to such conditions as the commission may prescribe. The commission may grant conditional approval for a permit subject to the effective date of a change of zone or other ordinance amendment.

C. The commission may deny an application for a conditional use permit. (Prior code § 7536)\

17.38.120 Appeal to city council.

The decision of the City planning commission on a conditional use permit shall be subject to the appeal provisions of Section 17.02.145. (Prior code § 7537) (Ord. 2006-18 § 6, 2007)

17.38.130 Effective date of conditional use permit.

A conditional use permit shall become effective immediately when granted or affirmed by the council, or upon the sixth working day following the granting of the conditional use permit by the planning commission if no appeal has been filed. (Prior code § 7539)

RESOLUTION NO. 2019-51

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF VISALIA APPROVING CONDITIONAL USE PERMIT NO. 2019-27, A REQUEST BY YUZHEN YANG TO ESTABLISH A MASSAGE PARLOR WITHIN AN EXISTING BUILDING IN THE O-C (OFFICE CONVERSION) ZONE. THE SITE IS LOCATED AT 500 S. SANTA FE STREET. (APN: 097-121-023).

WHEREAS, Conditional Use Permit No. 2019-16, is a request by Yuzhen Yang to establish a massage parlor within an existing building in the O-C (Office Conversion) Zone. The site is located at 500 S. Santa Fe Street. (APN: 097-121-023); and

WHEREAS, the Planning Commission of the City of Visalia, after duly published notice did hold a public hearing before said Commission on September 9, 2019; and

WHEREAS, the Planning Commission of the City of Visalia finds the Conditional Use Permit to be in accordance with Chapter 17.38.110 of the Zoning Ordinance of the City of Visalia based on the evidence contained in the staff report and testimony presented at the public hearing; and

WHEREAS, the Planning Commission finds the project to be Categorically Exempt consistent with the California Environmental Quality Act (CEQA) and City of Visalia Environmental Guidelines.

NOW, THEREFORE, BE IT RESOLVED that the project is exempt from further environmental review pursuant to CEQA Section 15301.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the Planning Commission of the City of Visalia makes the following specific findings based on the evidence presented:

4. That the proposed project, as conditioned, will not be detrimental to the public health, safety, or welfare, or materially injurious to properties or improvements in the vicinity.
5. That the proposed conditional use permit is consistent with the policies and intent of the General Plan and Zoning Ordinance. Specifically, the project is consistent with the required findings of Zoning Ordinance Section 17.38.110:
    a. The proposed location of the conditional use permit is in accordance with the objectives of the Zoning Ordinance and the purposes of the zone in which the site is located.
    b. The proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety, or welfare, nor materially injurious to properties or improvements in the vicinity.
6. That the project is considered Categorically Exempt under Section 15301 of the Guidelines for the Implementation of CEQA. (Categorical Exemption No. 2019-36).

BE IT FURTHER RESOLVED that the Planning Commission hereby approves the Conditional Use Permit on the real property here described in accordance with the terms of this resolution under the provisions of Section 17.38.110 of the Ordinance Code of the City of Visalia, subject to the following conditions:

1. That the project be developed in substantial compliance with the comments from the approved Site Plan Review No. 2019-100.
2. That the site be developed in substantial compliance with the approved site plan and floor plan as shown in Exhibits "A" and "B".
3. That the site shall operate in substantial compliance with the operational statement as stated in Exhibit "C".
4. That prior to operation of the massage parlor use the applicant shall obtain a Building Permit for the metal gate and fencing as depicted in Exhibit "A", and that the gate shall remain unlocked and open during hours of operation.
5. That the applicant shall remove the existing storage container from the project site prior to operation of the massage parlor use.
6. That substantial changes to the site plan, floor plan, or operational statement may require an amendment to this Conditional Use Permit as determined through the Site Plan Review process
7. That all building signage shall require a separate building permit.
8. That all applicable federal, state and city laws, codes and ordinances be met.

EXHIBIT "A"

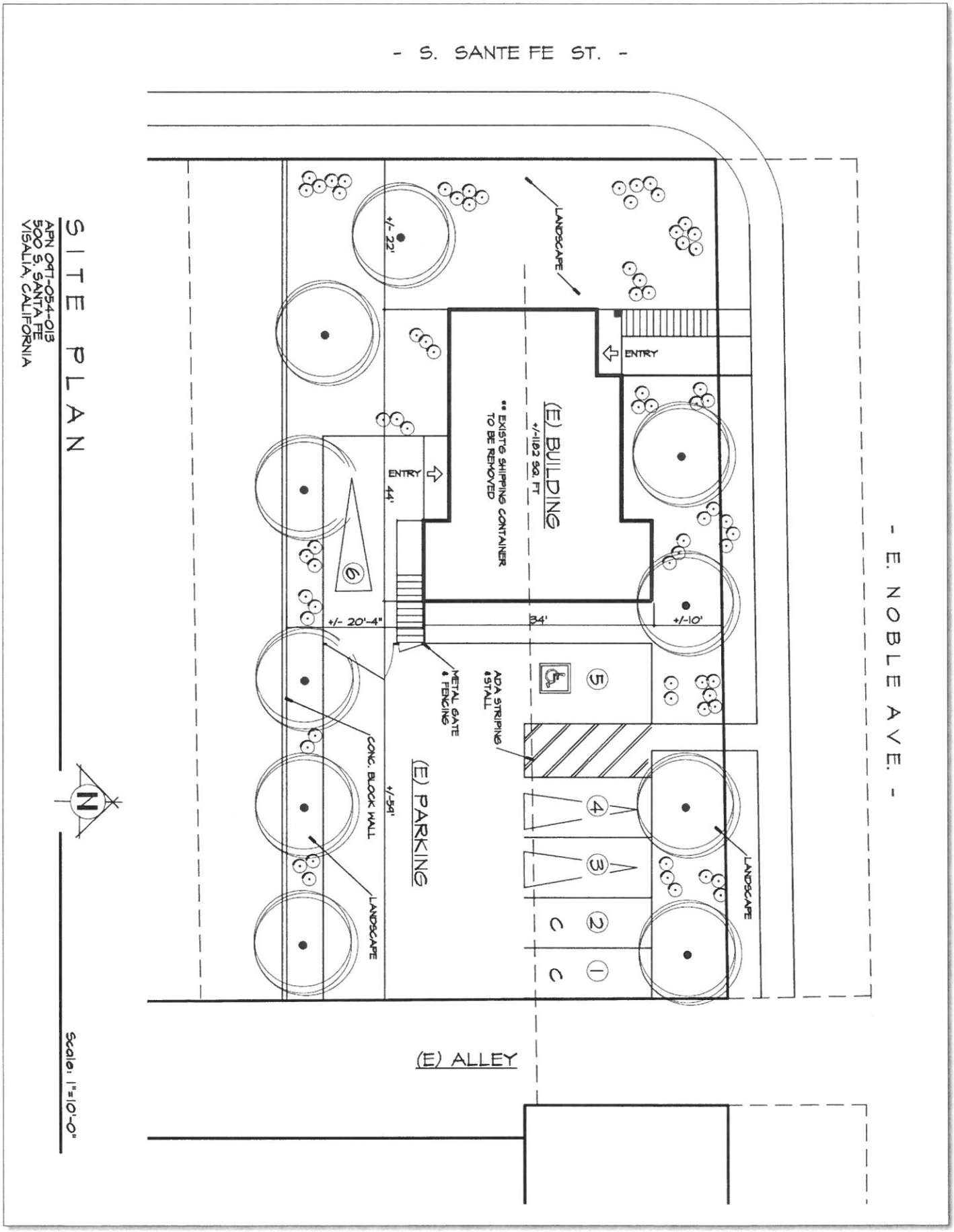

- S. SANTE FE ST. -
- E. NOBLE AVE. -
(E) BUILDING
+/-1182 SQ. FT
** EXISTG SHIPPING CONTAINER TO BE REMOVED
ENTRY
ENTRY
LANDSCAPE
+/- 22'
+/- 20'-4"
44'
34'
+/-10'
(E) PARKING
+/-54'
METAL GATE & FENCING
CONC. BLOCK WALL
ADA STRIPING & STALL
LANDSCAPE
LANDSCAPE
(E) ALLEY
1
2
3
4
5
6
C
C
N
SITE PLAN
APN 097-054-013
500 S. SANTA FE
VISALIA, CALIFORNIA
Scale: 1"=10'-0"

EXHIBIT "B"

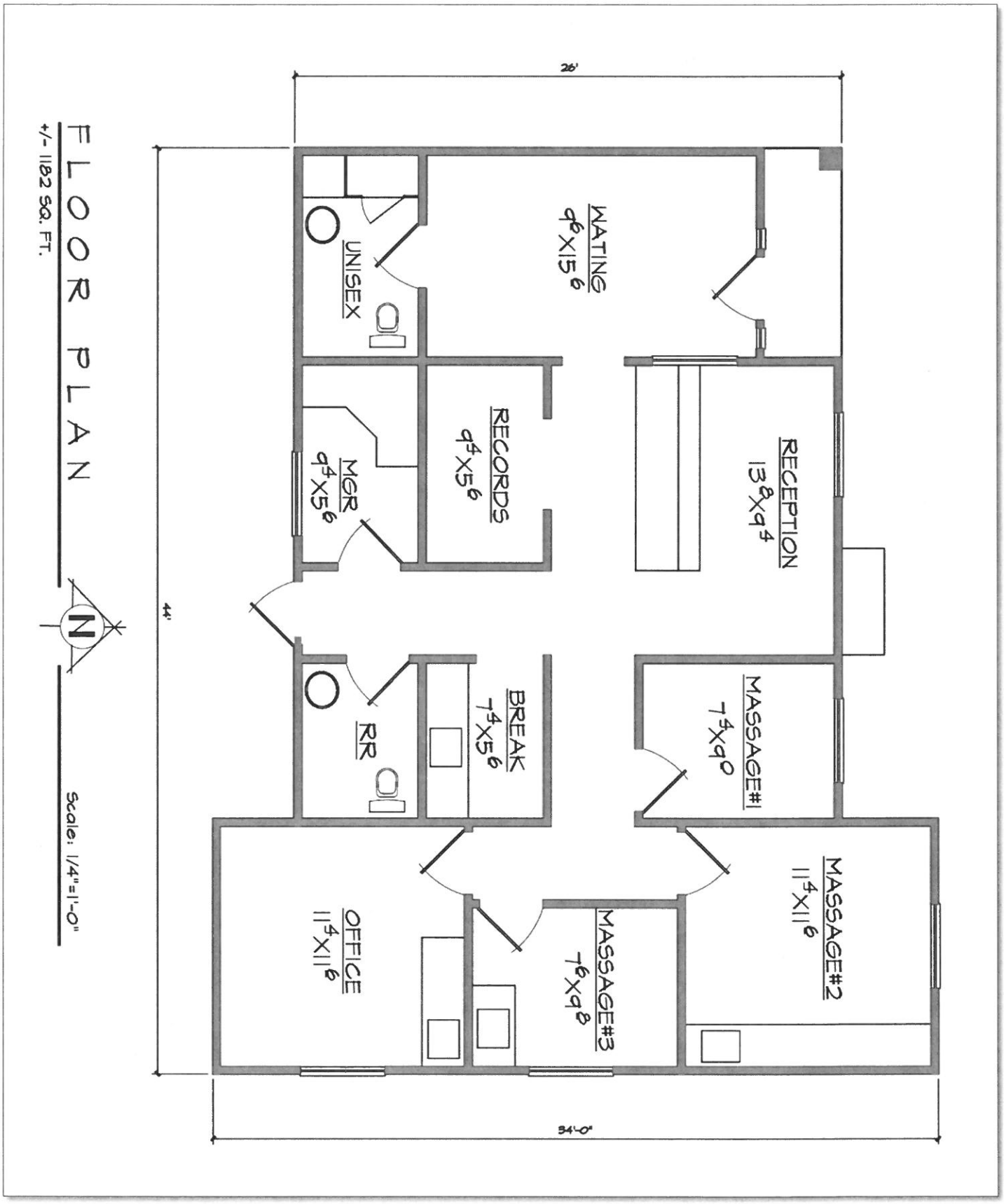

FLOOR PLAN
+/- 1182 SQ. FT.
Scale: 1/4"=1'-0"
N
26'
44'
34'-0"
WATING
9⁶X15⁶
UNISEX
RECEPTION
13⁸X9⁴
RECORDS
9⁴X5⁶
MGR
9⁴X5⁶
BREAK
7⁴X5⁶
RR
MASSAGE#1
7⁴X9⁰
MASSAGE#2
11⁴X11⁶
OFFICE
11⁴X11⁶
MASSAGE#3
7⁶X9⁸

EXHIBIT "C"

Operational Statement

To: City of Visalia
Attn: Cristobal Carrillo
Associate Planner
PH: 559-713-4443
E: cristobal.carrillo@visalia.city

From: Yuzhen Yang
RE: Massage Parlor Project
CUP NO. 2019-27 (Zhi Bin Liu)

We have detailed in this memo the pertinent information requested regarding how we will be operating our business, Healthy Massage, located at 500 S. Santa Fe in Visalia, CA. Should you have any questions regarding this statement, please feel free to contact us at 559-320-5185.

Hours of Operation: 9am – 9pm, Monday through Sunday
Number of Employees: 1 licensed masseuse
Activities to be conducted: Foot and Body Massages

Any Licensing received by Employee's/Owner:

Zhi Bin Liu	Currently on file w/City of Visalia	Masseuse
Name	License	Title

Any Additional Information of Relevancy: _____

Thank you,

Yuzhen Yang

Yuzhen Yang

Environmental Document No. 2019-52
NOTICE OF EXEMPTION

City of Visalia
315 E. Acequia Ave.
Visalia, CA 93291

To: County Clerk
County of Tulare
County Civic Center
Visalia, CA 93291-4593

Conditional Use Permit No. 2019-27
PROJECT TITLE

500 S. Santa Fe Street, Visalia CA 93292
PROJECT LOCATION

Visalia — **PROJECT LOCATION - CITY**

Tulare — **COUNTY**

A request to allow a massage parlor within an existing building in the O-C (Office Conversion) Zone.
DESCRIPTION - Nature, Purpose, & Beneficiaries of Project

City of Visalia, 315 E. Acequia Avenue, Visalia CA 93291, (559) 713-4443,
Email: Cristobal.Carrillo@visalia.city
NAME OF LEAD/PUBLIC AGENCY APPROVING PROJECT

Yuzhen Yang, 2398 Harbor Island Ct., Tulare CA 93274, (559) 320-5185, E-mail N/A
NAME AND ADDRESS OF APPLICANT CARRYING OUT PROJECT

Yuzhen Yang, 2398 Harbor Island Ct., Tulare CA 93274, (559) 320-5185, E-mail N/A
NAME AND ADDRESS OF AGENT CARRYING OUT PROJECT

EXEMPT STATUS: (Check one)

- ☐ Ministerial - Section 15073
- ☐ Emergency Project - Section 15071
- ☒ Categorical Exemption - State type and Section number: **Section 15301**
- ☐ Statutory Exemptions- State code number:

A request to establish a massage parlor within an existing building in the O-C (Office Conversion) Zone.
REASON FOR PROJECT EXEMPTION

Cristobal Carrillo, Associate Planner — **CONTACT PERSON**

(559) 713-4443 — **AREA CODE/PHONE**

DATE

Paul Scheibel, AICP
ENVIRONMENTAL COORDINATOR

#6

MEETING DATE: May 29, 2019
SITE PLAN NO. 19-100
PARCEL MAP NO.
SUBDIVISION:
LOT LINE ADJUSTMENT NO.

Enclosed for your review are the comments and decisions of the Site Plan Review committee. Please review all comments since they may impact your project.

☐ **RESUBMIT** Major changes to your plans are required. Prior to accepting construction drawings for building permit, your project must return to the Site Plan Review Committee for review of the revised plans.

☐ During site plan design/policy concerns were identified, schedule a meeting with

☐ Planning ☐ Engineering prior to resubmittal plans for Site Plan Review.

☐ Solid Waste ☐ Parks and Recreation ☐ Fire Dept.

☒ **REVISE AND PROCEED** (see below)

☐ A revised plan addressing the Committee comments and revisions must be submitted for Off-Agenda Review and approval prior to submitting for building permits or discretionary actions.

☐ Submit plans for a building permit between the hours of 9:00 a.m. and 4:00 p.m., Monday through Friday.

☒ Your plans must be reviewed by:

☐ CITY COUNCIL ☐ REDEVELOPMENT

☒ PLANNING COMMISSION ☐ PARK/RECREATION

☒ CUP

☐ HISTORIC PRESERVATION ☐ OTHER: _____

☐ **ADDITIONAL COMMENTS :**

If you have any questions or comments, please call (559) 713-4444.

Site Plan Review Committee

RECYCLED PAPER

BUILDING/DEVELOPMENT PLAN REQUIREMENTS
ENGINEERING DIVISION

☒ **Adrian Rubalcaba 713-4271**
☐ **Diego Corvera 713-4209**

ITEM NO: 6 DATE: MAY 29, 2019

SITE PLAN NO.:	**19-100**
PROJECT TITLE:	**HEALTHY MASSAGE**
DESCRIPTION:	**MASSAGE THERAPY**
APPLICANT:	**ZHI BIN LIU**
PROP OWNER:	**MADDY MAKSY MD**
LOCATION:	**500 S SANTA FE**
APN:	**097-121-023**

SITE PLAN REVIEW COMMENTS

☒ REQUIREMENTS (indicated by checked boxes)

☐ Install curb return with ramp, with radius;

☐ Install curb; ☐ gutter

☐ Drive approach size: ☐ Use radius return;

☐ Sidewalk: width; ☐ parkway width at

☐ Repair and/or replace any sidewalk across the public street frontage(s) of the subject site that has become uneven, cracked or damaged and may constitute a tripping hazard.

☐ Replace any curb and gutter across the public street frontage(s) of the subject site that has become uneven and has created areas where water can stand.

☐ Right-of-way dedication required. A title report is required for verification of ownership.

☐ Deed required prior to issuing building permit;

☐ City Encroachment Permit Required.
Insurance certificate with general & auto liability ($1 million each) and workers compensation ($1 million), valid business license, and appropriate contractor's license must be on file with the City, and valid Underground Service Alert # provided prior to issuing the permit. Contact Encroachment Tech. at 713-4414.

☐ CalTrans Encroachment Permit required. ☐ CalTrans comments required prior to issuing building permit. Contacts: David Deel (Planning) 488-4088;

☐ Landscape & Lighting District/Home Owners Association required prior to approval of Final Map. Landscape & Lighting District will maintain common area landscaping, street lights, street trees and local streets as applicable. Submit completed Landscape and Lighting District application and filing fee a min. of 75 days before approval of Final Map.

☐ Landscape & irrigation improvement plans to be submitted for each phase. Landscape plans will need to comply with the City's street tree ordinance. The locations of street trees near intersections will need to comply with Plate SD-1 of the City improvement standards. A street tree and landscape master plan for all phases of the subdivision will need to be submitted with the initial phase to assist City staff in the formation of the landscape and lighting assessment district.

☐ Grading & Drainage plan required. If the project is phased, then a master plan is required for the entire project area that shall include pipe network sizing and grades and street grades. ☐ Prepared by registered civil engineer or project architect. ☐ All elevations shall be based on the City's benchmark network. Storm run-off from the project shall be handled as follows: a) ☐ directed to the City's existing storm drainage system; b) ☐ directed to a permanent on-site basin; or c) ☐ directed to a temporary on-site basin is required until a connection with adequate capacity is available to the City's storm drainage system. On-site basin: : maximum side slopes, perimeter fencing required, provide access ramp to bottom for maintenance.

☐ Grading permit is required for clearing and earthwork performed prior to issuance of the building permit.

☐ Show finish elevations. (Minimum slopes: A.C. pavement = 1%, Concrete pavement = 0.25%. Curb & Gutter =.020%, V-gutter = 0.25%)

☐ Show adjacent property grade elevations. A retaining wall will be required for grade differences greater than 0.5 feet at the property line.

☐ All public streets within the project limits and across the project frontage shall be improved to their full width, subject to available right of way, in accordance with City policies, standards and specifications.

☐ Traffic indexes per city standards:

☐Install street striping as required by the City Engineer.
☐Install landscape curbing (typical at parking lot planters).
☐Minimum paving section for parking: 2" asphalt concrete paving over 4" Class 2 Agg. Base, or 4" concrete pavement over 2" sand.
☐Design Paving section to traffic index of 5.0 min. for solid waste truck travel path.
☐Provide "R" value tests: each at
☐Written comments required from ditch company Contacts: James Silva 747-1177 for Modoc, Persian, Watson, Oakes, Flemming, Evans Ditch and Peoples Ditch; Jerry Hill 686-3425 for Tulare Irrigation Canal, Packwood and Cameron Creeks; Bruce George 747-5601 for Mill Creek and St. John's River.
☐Access required on ditch bank, 15' minimum ☐ Provide wide riparian dedication from top of bank.
☐Show Valley Oak trees with drip lines and adjacent grade elevations. ☐ Protect Valley Oak trees during construction in accordance with City requirements.
☐A permit is required to remove Valley Oak trees. Contact Public Works Admin at 713-4428 for a Valley Oak tree evaluation or permit to remove. ☐ A pre-construction conference is required.
☐Relocate existing utility poles and/or facilities.
☐Underground all existing overhead utilities within the project limits. Existing overhead electrical lines over 50kV shall be exempt from undergrounding.
☐Subject to existing Reimbursement Agreement to reimburse prior developer:
☐ Fugitive dust will be controlled in accordance with the applicable rules of San Joaquin Valley Air District's Regulation VIII. Copies of any required permits will be provided to the City.
☐ If the project requires discretionary approval from the City, it may be subject to the San Joaquin Valley Air District's Rule 9510 Indirect Source Review per the rule's applicability criteria. A copy of the approved AIA application will be provided to the City.
☐If the project meets the one acre of disturbance criteria of the State's Storm Water Program, then coverage under General Permit Order 2009-0009-DWQ is required and a Storm Water Pollution Prevention Plan (SWPPP) is needed. A copy of the approved permit and the SWPPP will be provided to the City.

☐Comply with prior comments. ☐Resubmit with additional information. ☐Redesign required.

Additional Comments:

1. Proposed massage therapy use within previous medical office building will not incur additional impact fees.

2. A Conditional Use Permit is required per Planning Dept. Refer to Planning Dept. comments.

3. A building permit will be required for any desired or necessary tenant improvements to comply with City standards and code requirements.

SUMMARY OF APPLICABLE DEVELOPMENT IMPACT FEES

Site Plan No: **19-100**
Date: **5/29/2019**

Summary of applicable Development Impact Fees to be collected at the time of building permit:

(Preliminary estimate only! Final fees will be based on the development fee schedule in effect at the time of building permit issuance.)

(Fee Schedule Date:**8/3/2018**)
(Project type for fee rates:**GEN OFFICE**)

☒ Existing uses may qualify for credits on Development Impact Fees. **MED OFFICE**

FEE ITEM	FEE RATE
☐ Groundwater Overdraft Mitigation Fee	
☐ Transportation Impact Fee	
☐ Trunk Line Capacity Fee	
☐ Sewer Front Foot Fee	
☐ Storm Drain Acq/Dev Fee	
☐ Park Acq/Dev Fee	
☐ Northeast Specific Plan Fees	
☐ Waterways Acquisition Fee	
☐ Public Safety Impact Fee: Police	
☐ Public Safety Impact Fee: Fire	
☐ Public Facility Impact Fee	
☐ Parking In-Lieu	

Reimbursement:

1.) No reimbursement shall be made except as provided in a written reimbursement agreement between the City and the developer entered into prior to commencement of construction of the subject facilities.
2.) Reimbursement is available for the development of arterial/collector streets as shown in the City's Circulation Element and funded in the City's transportation impact fee program. The developer will be reimbursed for construction costs and right of way dedications as outlined in Municipal Code Section 16.44. Reimbursement unit costs will be subject to those unit costs utilized as the basis for the transportation impact fee.
3.) Reimbursement is available for the construction of storm drain trunk lines and sanitary sewer trunk lines shown in the City's Storm Water Master Plan and Sanitary Sewer System Master Plan. The developer will be reimbursed for construction costs associated with the installation of these trunk lines.

Adrian Rubalcaba

SITE PLAN REVIEW COMMENTS

Paul Scheibel, Planning Division, 559-713-4369
Date: May 29, 2019

SITE PLAN NO:	2019-100
PROJECT:	Healthy Massage
DESCRIPTION:	MASSAGE THERAPY
APPLICANT:	ZHI BIN LIU
PROP. OWNER:	MADDY MAKSY M.D.
LOCATION TITLE:	500 S. SANTE FE
APN TITLE:	097-121-023
GENERAL PLAN:	Office Conversion
ZONING:	O-C - Office Conversion

Planning Division Recommendation:

☒ Revise and Proceed - See project specific information below.
☐ Resubmit

Project Requirements

- Conditional Use Permit
- Building Permit

PROJECT SPECIFIC INFORMATION:

1. Massage is a "Conditional" uses in the OC zone.
2. Formal CUP application will require detailed floor plan (not overwritten on leasing offer floor plan) that shows all rooms and their intended uses. Include any intended shower/bath facility for either customers or employees, and laundry facilities.
3. Provide plot plan that specifically shows dimensions of the property and building and parking placement relative to the building and the public entrance to the building.
4. Provide an operational statement that specifically details the owner/manager's licensing and qualifications and those of additional or anticipated employees, hours of operation.
5. Meet all other codes and ordinances.

Staff initial finding is that the proposed site plan IS CONSISTENT with the City General Plan. Because this project requires discretionary approval by the City Council and/or Planning Commission the final determination of consistency will be made by the Planning Commission and/or City Council.

NOTE: Staff recommendations contained in this document are not to be considered support for a particular action or project unless otherwise stated in the comments. The comments found on this document pertain to the site plan submitted for review on the above referenced date. Any changes made to the plan submitted must be submitted for additional review.

Signature

HEALTHY MASSAGE
500 S. SANTA FE

City of Visalia

Building: Site Plan Review Comments

NOTE: These are general comments and DO NOT constitute a complete plan check for your specific project Please refer to the applicable California Code & local ordinance for additional requirements.

- ☐ A building permit will be required. ***For information call (559) 713-4444***
- ☐ Submit 1 digital set of professionally prepared plans and 1 set of calculations. (Small Tenant Improvements)
- ☐ Submit 1 digital set of plans prepared by an architect or engineer. Must comply with 2016 California Building Cod Sec. 2308 for conventional light-frame construction or submit 1 digital set of engineered calculations.
- ☐ Indicate abandoned wells, septic systems and excavations on construction plans.

You are responsible to ensure compliance with the following checked items:

- ☐ Meet State and Federal requirements for accessibility for persons with disabilities.
- ☐ A path of travel, parking and common area must comply with requirements for access for persons with disabilities.
- ☐ All accessible units required to be adaptable for persons with disabilities.
- ☐ Maintain sound transmission control between units minimum of 50 STC.
- ☐ Maintain fire-resistive requirements at property lines.
- ☐ A demolition permit & deposit is required. ***For information call (559) 713-4444***
- ☐ Obtain required permits from San Joaquin Valley Air Pollution Board. ***For information call (661) 392-5500***
- ☐ Plans must be approved by the Tulare County Health Department. ***For information call (559) 624-8011***
- ☐ Project is located in flood zone _____ * ☐ Hazardous materials report.
- ☐ Arrange for an on-site inspection. (Fee for inspection $157.00) ***For information call (559) 713-4444***
- ☐ School Development fees. Commercial $0.61 per square foot. Residential $3.79 per square foot.
- ☐ Park Development fee $_____, per unit collected with building permits.
- ☐ Existing address must be changed to be consistent with city address. ***For information call (559) 713-4320***
- ☐ Acceptable as submitted
- ☒ No comments at this time

Additional comments: _____

_____

_____

_____

VAL GARCIA 5/29/19
Signature

Site Plan Review Comments For: Visalia Fire Department Corbin Reed, Fire Marshal 420 N. Burke Visalia, CA 93292 559-713-4272 Office 559-713-4808 Fax	Date: 05/29/2019 Item # 6 Site Plan # 19-100 APN: 097121023 Location:

The following comments are applicable when checked:

☒ The Site Plan Review comments are issued as general overview of your project. With further details, additional requirements will be enforced at the Plan Review stage. Please refer to the 2016 California Fire Code (CFC), 2016 California Building Codes (CBC) and City of Visalia Municipal Codes.

☐ All fire detection, alarm, and extinguishing systems in existing buildings shall be maintained in an operative condition at all times and shall be replaced or repaired where defective. If building has been vacant for a significant amount of time, the fire detection, alarm, and or extinguishing systems may need to be evaluated by a licensed professional. *2016 CFC 901.6*

☐ No fire protection items required for parcel map or lot line adjustment; however, any future projects will be subject to fire & life safety requirements including fire protection systems and fire hydrants in accordance with all applicable sections of the California Fire Code.

☐ Construction and demolition sites prior to and during construction shall comply with the following:

- Water Supply for fire protection, either temporary or permanent, shall be made available as soon as combustible materials arrive on the site. *2016 CFC 3312*
- An all-weather, 20 feet width Construction Access Road capable of holding a 75,000 pound fire apparatus. Fire apparatus access shall be provided within 100 feet of temporary or permanent fire department connections. *2016 CFC 3310*

☐ More information is needed before a Site Plan Review can be conducted. Please submit plans with more detail. Please include information on

General:

☒ Address numbers must be placed on the exterior of the building in such a position as to be clearly and plainly visible from the street. Numbers will be at least four inches (4") high and shall be of a color to contrast with their background. If multiple addresses served are by a common driveway, the range of numbers shall be posted at the roadway/driveway. *2016 CFC 505.1*

☒ All hardware on exit doors, illuminated exit signs and emergency lighting shall comply with the 2016 California Fire Code. This includes all locks, latches, bolt locks, panic hardware, fire exit hardware and gates.

☐ Commercial dumpsters with 1.5 cubic yards or more shall not be stored or placed within 5 feet of combustible walls, openings, or a combustible roof eave line except when protected by a fire sprinkler system. *2016 CFC 304.3.3*

☒ A Knox Box key lock system is required. Where access to or within a structure or area is restricted because of secured openings (doors and/or gates), a key box is to be installed in an approved location. The key box shall be ordered using an approved Knox Authorization Order Form. The forms are located at the fire department administration office located at 420 N Burke, Visalia, CA 93292. Please allow adequate time for shipping and installation. *2016 CFC 506.1*

☐ If your business handles hazardous material in amounts that exceed the Maximum Allowable Quantities listed on *Table 5003.1.1(1), 5003.1.1(2), 5003.1.1(3) and 5003.1.1(4) of the 2016 California Fire Code*, you are required to submit an emergency response plan to the Tulare County Health Department. Also you shall indicate the quantities on your building plans and prior to the building final inspection a copy of your emergency response plan and Safety Data Sheets shall be submitted to the Visalia Fire Department.

Water Supply for Residential, Commercial & Industrial:

Residential

☐ Fire hydrant spacing and location shall comply with the following requirements:
The exact location and number of fire hydrants shall be at the discretion of the fire marshal, fire chief and/or their designee. *Visalia Municipal Code 16.36.120(5)*

☐ Single-family residential developments shall be provided with fire hydrants every six hundred (600) lineal feet of residential frontage. In isolated developments, no less than two (2) fire hydrants shall be provided.

☐ Multi-family, zero lot line clearance, mobile home park or condominium developments shall be provided with fire hydrants every four hundred (400) lineal feet of frontage. In isolated developments, no less than two (2) fire hydrants shall be provided.

☐ Multi-family or condominium developments with one hundred (100) percent coverage fire sprinkler systems shall be provided with fire hydrants every six (600) lineal feet of frontage. In isolated developments, no less than two (2) fire hydrants shall be provided.

Commercial & Industrial

☐ Where a portion of the facility or building is more than 400 feet from a hydrant on a fire apparatus access road, on-site fire hydrant(s) shall be provided. *2016 CFC 507.5.1*

☐ Due to insufficient building information, the number and distance between fire hydrants cannot be determined by the Site Plan Review process. The number of fire hydrants and distance between required fire hydrants shall be determined by utilizing type of construction and square footage in accordance with *CFC 2016 Appendix C102 & C103 &. CFC 507.5.1*

☐ To determine fire hydrant location(s) and distribution the following information was provided to the Site Plan Review committee: **Type of construction**_____ **Square footage** _____

Emergency Access

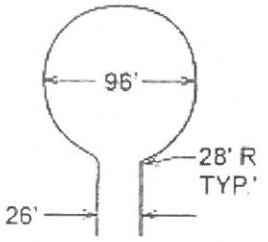
☐ A fire apparatus access roads shall be provided and must comply with the 2016 CFC and extend within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility. Fire apparatus

access roads shall have an unobstructed width of not less than 20 feet. Minimum turning radius for emergency fire apparatus shall be 20 feet inside radius and 43 feet outside radius. *2016 CFC 503.1.1*

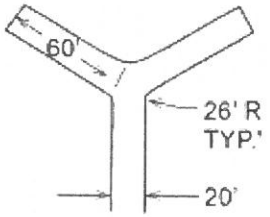
☐ Buildings or portions of buildings or facilities with a vertical distance between the grade plan and the highest roof surface that exceed 30 feet shall provide an approved fire apparatus access roads capable of accommodating fire department aerial apparatus.

- Access roads shall have a minimum unobstructed width of 26 feet, exclusive of shoulders.
- Access routes shall be located within a minimum of 15 feet and maximum of 30 feet from the building, and shall be positioned parallel to one entire side of the building.
- Overhead utility and power lines shall not be located over the aerial fire apparatus access road or between the aerial fire apparatus road and the building.

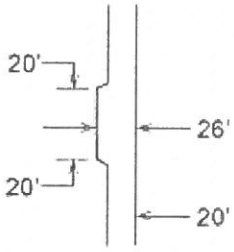
☐ Fire apparatus access roads in excess of 150 feet and dead end shall be provided with a turnaround. Fire apparatus access roads with a length of 151-500 feet shall be a minimum of 20 feet in width. Length of 501-750 feet shall be 26 feet in width. *2016 CFC Table D103.4*



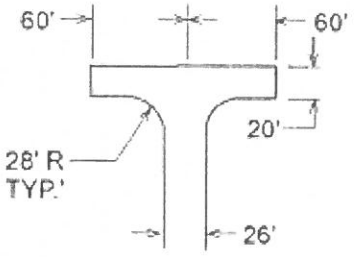
96' DIAMETER CUL-DE-SAC



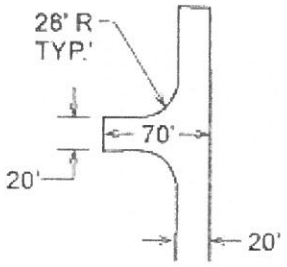
60' "Y"



MINIMUM CLEARANCE AROUND A FIRE HYDRANT



120' HAMMERHEAD



ACCEPTABLE ALTERNATIVE TO 120' HAMMERHEAD

☐ Approved No PARKING – FIRE LANE signs shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. Signs shall have a minimum dimension of 12 inches wide by 18 inches high and have red letters on a white reflective background. *2013 CFC 503.3/ D103.6*

SIGN TYPE "A"

SIGN TYPE "C"

SIGN TYPE "D"

☐ On site Fire Apparatus Access Roads shall be provided and have an unobstructed width of not less than the following;

- 20 feet width, exclusive of shoulders (No Parking)
- More than 26 feet width, exclusive of shoulders (No Parking one side)
- More than 32 feet wide, exclusive of shoulders (Parking permitted on both sides)

☐ Marking- approved signs, other approved notices or marking that include the words "NO PARKING-FIRE LANE shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. *CFC 503.3*

☐ Gates on access roads shall be a minimum width of 20 feet and shall comply with the following: *2016 CFC D103.5*

- Gates shall be of the swinging or sliding type.
- Gates shall allow manual operation by one person (power outages).
- Gates shall be maintained in an operative condition at all times.
- Electric gates shall be equipped with a means of opening the gate by fire department personnel for emergency access. (Note: Knox boxes shall be ordered using an approved Knox Authorization Order Form. The forms are located at the fire department administration office located at 420 N Burke, Visalia, CA 93292. Please allow adequate time for shipping and installation.)

☐ Streets shall meet the City of Visalia's Design & Improvement Standards for streets to ensure that fire apparatus can make access to all structures in the event of an emergency.

Fire Protection Systems

☐ An automatic fire sprinkler system will be required for this building. Also, a fire hydrant is required within 50 feet of the Fire Department Connection (FDC). Where an existing building is retrofitted with a sprinkler system (NFPA 13 or NFPA 13R) a fire hydrant shall be provided within 75 feet of the FDC. An additional 25 feet of distance between a fire hydrant and FDC may be granted when a fire sprinkler Density is designed with an additional 25%. *2016 CFC 912 and Visalia Municipal Code 8.20.010 subsection C103.4*

☐ Locking fire department connection (FDC) caps are required. The caps shall be ordered using an approved Knox Authorization Order Form. The forms are located at the fire department administration office located at 420 N Burke, Visalia, CA 93292. *2016 CFC 912.4.1*

☐ Commercial cooking appliances and domestic cooking appliances used for commercial purposes that produces grease laden vapors shall be provided with a Type 1 Hood, in accordance with the California Mechanical Code, and an automatic fire extinguishing system. *2016 CFC 904.12 & 609.2*

Special Comments:

☐

Corbin Reed
Fire Marshal

CITY OF VISALIA
SOLID WASTE DIVISION
336 N. BEN MADDOX
VISALIA CA. 93291
713 - 4500

COMMERCIAL BIN SERVICE

19100

	No comments.
XX	See comments below
	Revisions required prior to submitting final plans. See comments below.
	Resubmittal required. See comments below.
	Customer responsible for all cardboard and other bulky recyclables to be broken down before disposing of in recycle containers
	ALL refuse enclosures must be R-3 OR R-4
	Customer must provide combination or keys for access to locked gates/bins
	Type of refuse service not indicated.
	Location of bin enclosure not acceptable. See comments below.
	Bin enclosure not to city standards double.
	Inadequate number of bins to provide sufficient service. See comments below.
	Drive approach too narrow for refuse trucks access. See comments below.
	Area not adequate for allowing refuse truck turning radius of : Commercial 50 ft. outside 36 ft. inside; Residential 35 ft. outside, 20 ft. inside.
	Paved areas should be engineered to withstand a 55,000 lb. refuse truck.
	Bin enclosure gates are required
	Hammerhead turnaround must be built per city standards.
	Cul - de - sac must be built per city standards.
	Bin enclosures are for city refuse containers only. Grease drums or any other items are not allowed to be stored inside bin enclosures.
	Area in front of refuse enclosure must be marked off indicating no parking
	Enclosure will have to be designed and located for a STAB service (DIRECT ACCESS) with no less than 38' clear space in front of the bin, included the front concrete pad.
	Customer will be required to roll container out to curb for service.
	Must be a concrete slab in front of enclosure as per city standards, the width of the enclosure by ten(10) feet, minimum of six(6) inches in depth.
	Roll off compactor's must have a clearance of 3 feet from any wall on both sides and there must be a minimum of 53 feet clearance in front of the compactor to allow the truck enough room to provide service.
	City ordinance 8.28.120-130 (effective 07/19/18) requires contractor to contract with City for removal of construction debris unless transported in equipment owned by contractor or unless contracting with a franchise permittee for removal of debris utilizing roll-off boxes.
Comment	Residential can service will be required.

Jim Ross, Solid Waste Manager, 559-713-4533
Edward Zuniga, Solid Waste Supervisor, 559-713-4338 Edward Zuniga

SPR-19-100

500 S. SANTA FE

City of Visalia
Police Department
303 S. Johnson St.
Visalia, Ca. 93292
(559) 713-4370

Site Plan Review Comments

☐ No Comment at this time.

☐ Request opportunity to comment or make recommendations as to safety issues as plans are developed.

☐ Public Safety Impact fee:
Ordinance No. 2001-11 Chapter 16.48 of Title 16 of the Visalia Municipal Code
Effective date - August 17, 2001

Impact fees shall be imposed by the City pursuant to this Ordinance as a condition of or in conjunction with the approval of a development project. "New Development or Development Project" means any new building, structure or improvement of any parcels of land, upon which no like building, structure of improvement previously existed. *Refer to Engineering Site Plan comments for fee estimation.

☐ Not enough information provided. Please provide additional information pertaining to:

☐ Territorial Reinforcement: Define property lines (private/public space).

☐ Access Controlled / Restricted etc:

☐ Lighting Concerns:

☐ Landscaping Concerns:

☐ Traffic Concerns:

☐ Surveillance Issues:

☐ Line of Sight Issues: * ALL MASSAGE THERAPISTS LICENSED.

☒ Other Concerns: C.U.P. - NEED CONDITIONS:
NO LIVING
HRS.?
CUSTOMER NUMBER PER DAY.

K. GRANT A20

Visalia Police Department

SITE PLAN REVIEW COMMENTS

CITY OF VISALIA TRAFFIC SAFETY DIVISION

May 29, 2019

ITEM NO. 6

SITE PLAN NO:	SPR19-100
PROJECT TITLE:	Healthy Massage
DESCRIPTION:	Massage Thearpy
APPLICANT:	Zhi Bin Liu
OWNER:	Maddy Maksy M.D.
APN:	097-121-023
LOCATION:	500 S. Santa Fe

THE TRAFFIC DIVISION WILL PROHIBIT ON-STREET PARKING AS DEEMED NECESSARY

☒ No Comments

☐ See Previous Site Plan Comments

☐ Install Street Light(s) per City Standards.

☐ Install Street Name Blades at Locations.

☐ Install Stop Signs at Locations.

☐ Construct parking per City Standards PK-1 through PK-4.

☐ Construct drive approach per City Standards.

☐ Traffic Impact Analysis required (CUP)

- ☐ Provide more traffic information such as . Depending on development size, characteristics, etc., a TIA may be required.

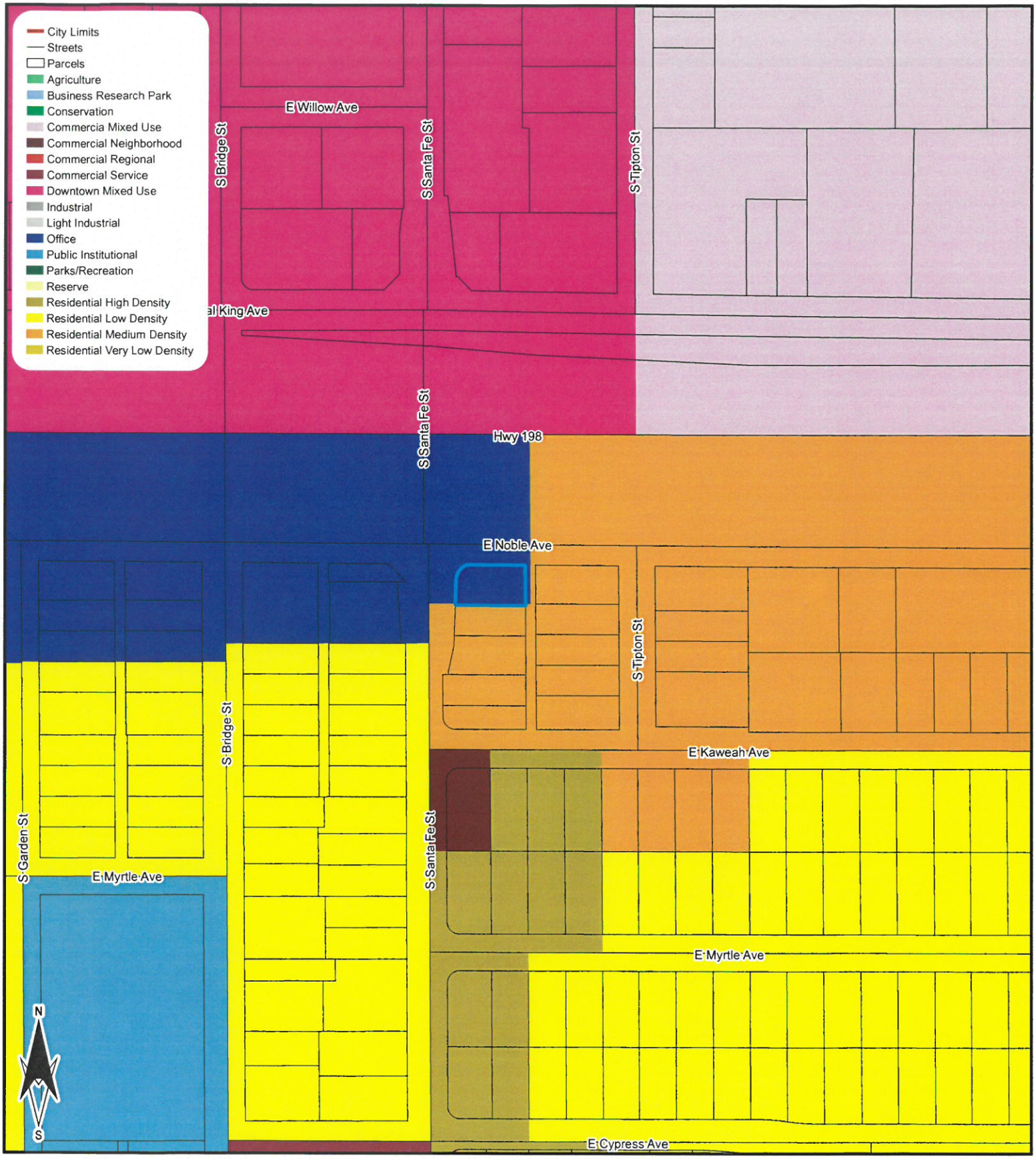
☐ Additional traffic information required (Non Discretionary)

- ☐ Trip Generation - Provide documentation as to concurrence with General Plan.
- ☐ Site Specific - Evaluate access points and provide documentation of conformance with COV standards. If noncomplying, provide explanation.
- ☐ Traffic Impact Fee (TIF) Program - Identify improvments needed in concurrence with TIF.

Additional Comments:

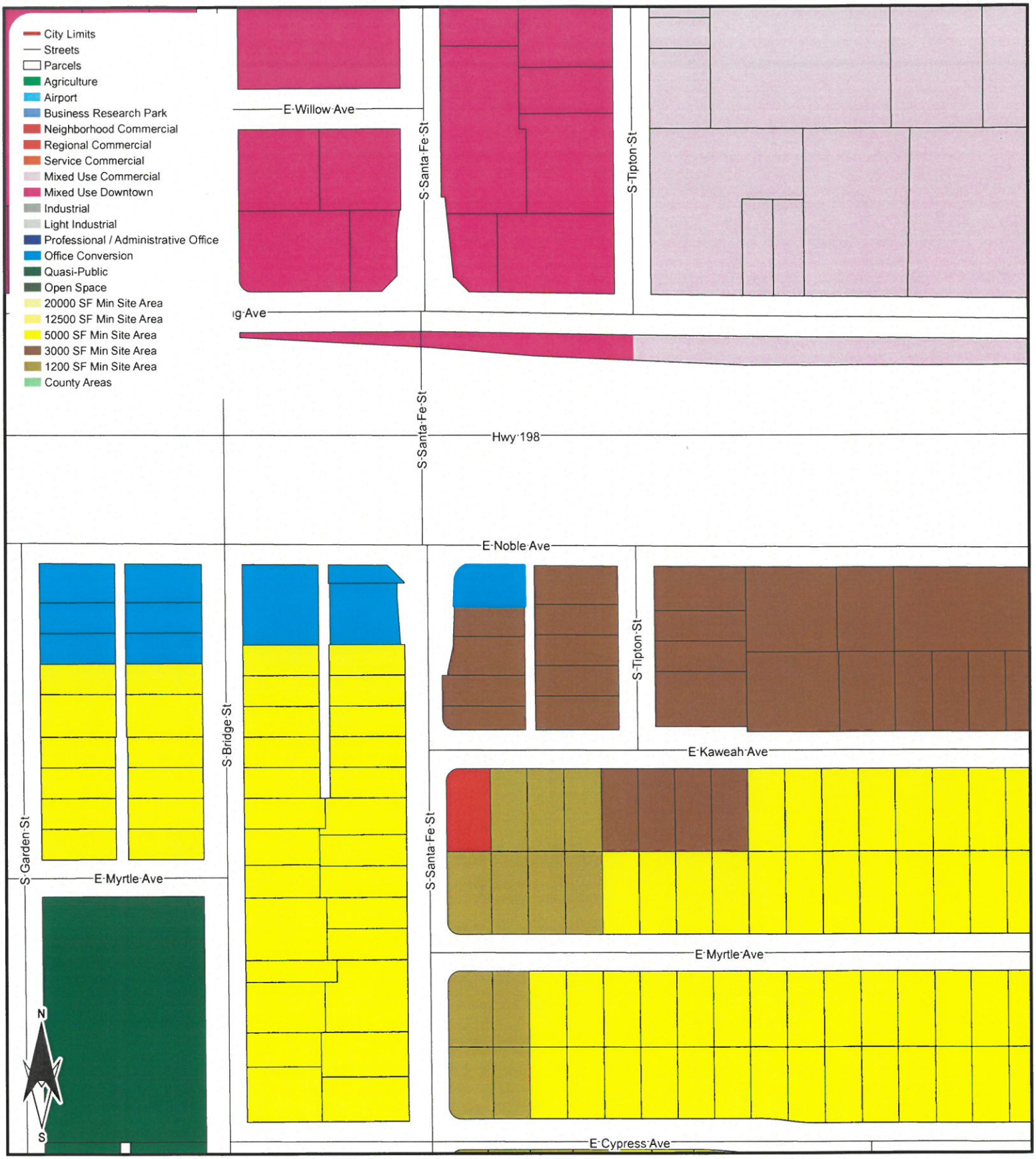
•

Leslie Blair



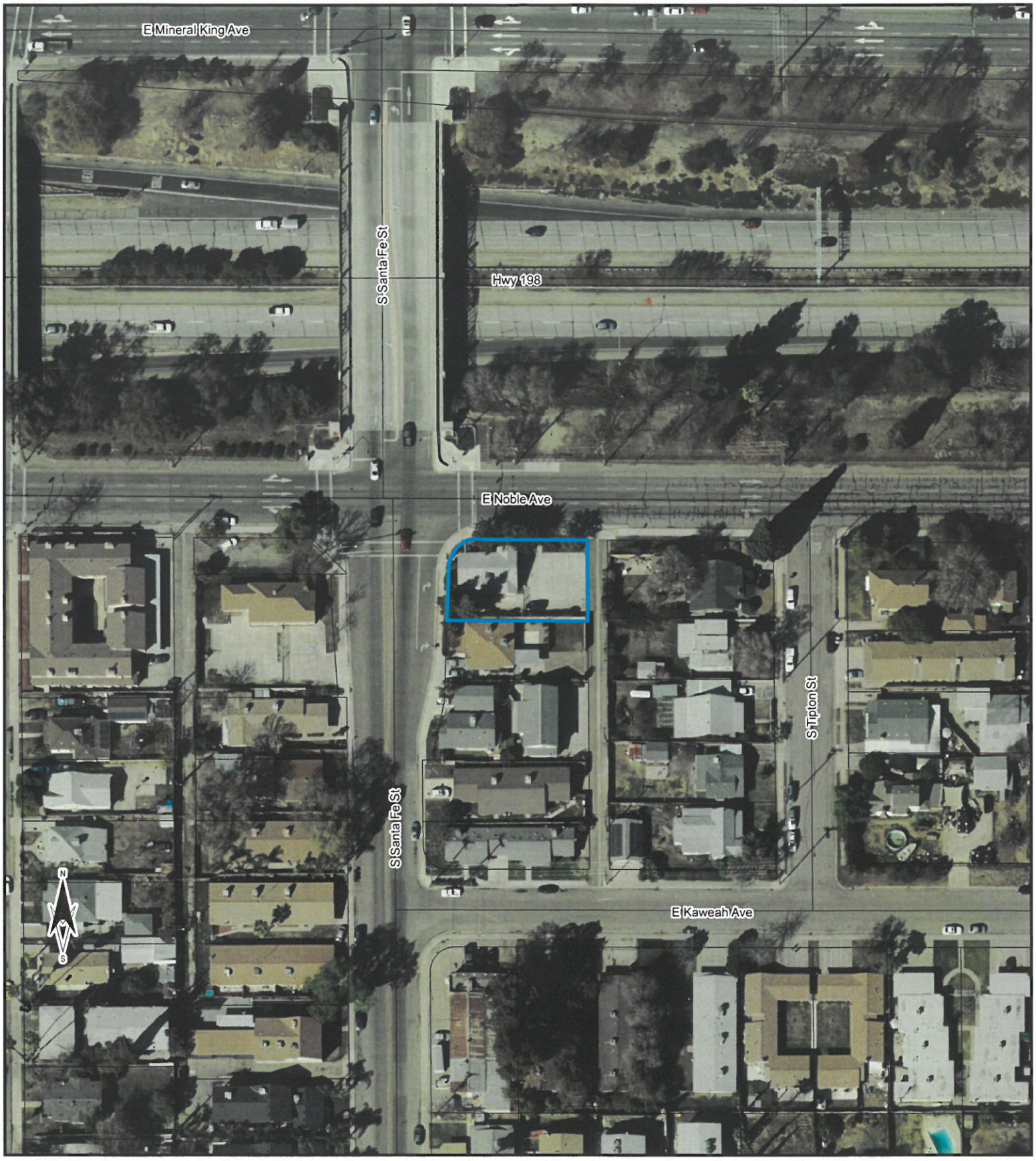
General Plan Land Use Map

0 45 90 180 270 360 Feet



Zoning Map

0 45 90 180 270 360 Feet

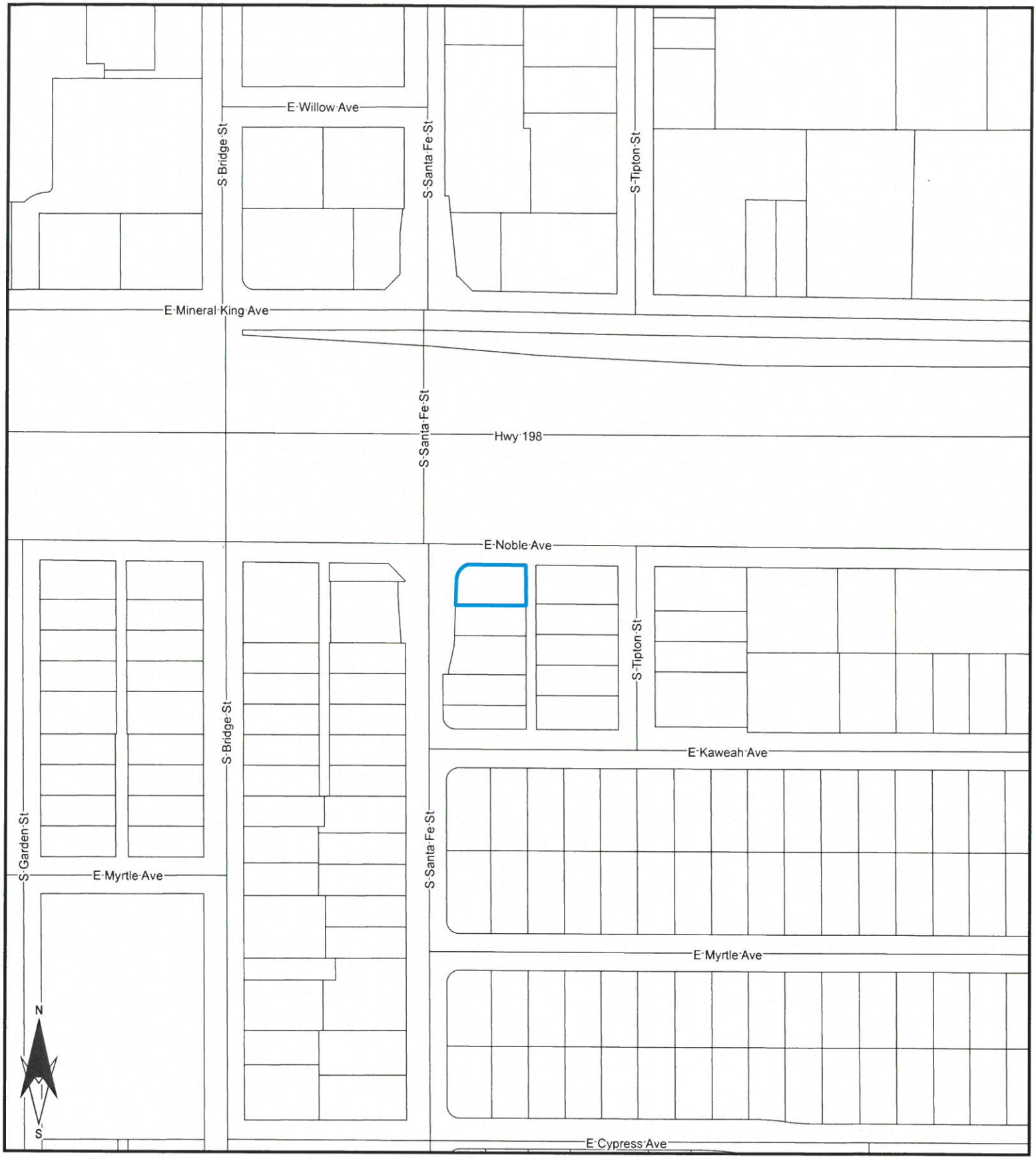


City Limits
Streets
Parcels

Feet
0 20 40 80 120 160

Aerial Map

1432



City Limits
Streets
Parcels

Feet
0 45 90 180 270 360

Location Map

VISALIA
Founded 1852

Attachment "D"

VISALIA MUNICIPAL CODE
CHAPTER 5.68 – Massage Establishments

5.68.010 Declaration of purpose and intent.

A. This chapter establishes permitting standards intended to comply with California law and establish health and safety guidelines for massage establishments.

B. This chapter is not intended to be exclusive and compliance will not excuse noncompliance with any state or local laws or regulations that are uniformly applied to other professional or personal services businesses including, without limitation, all zoning applications; business license regulations; building, fire, electrical, and plumbing codes; and health and safety code laws and regulations applicable to professional or personal services businesses.

C. This chapter establishes a local regulatory system that allows only state certified massage therapists and massage practitioners to operate within the city. This chapter is not intended to regulate massages that are not part of a business occupation. This chapter is also intended to allow a transitional period for certain existing massage practitioners to continue practicing while they obtain state certification before December 31, 2013, and to coordinate the timing of the city's business license renewals with the state massage certification process.
(Ord. 2012-05 § 2 (part), 2012)

5.68.020 Definitions.

Unless the contrary is stated or clearly appears from the context, the following definitions govern the construction of the words and phrases used in this chapter. Words and phrases not defined by this chapter have the meaning set forth elsewhere in the Visalia Municipal Code, the California Business and Professions Code, or the California Government Code.

"California Massage Therapy Council (CAMTC)" means the California Massage Therapy Council created pursuant to California Business and Professions Code § 4500.5(a).

"Certified massage practitioner" means a person who is currently certified as a massage practitioner by the CAMTC, and who administers massage for compensation.

"Certified massage therapist" means a person who is currently certified as a massage therapist by the CAMTC, and who administers massage for compensation.

"City" means the city of Visalia.

"Police chief" means the police chief of the city of Visalia or the authorized representatives thereof.

"Massage" means any method of pressure on, or friction against, or stroking, kneading, rubbing, tapping, pounding, vibrating or stimulating the external parts of the human body with the hands or with the aid of any mechanical or electrical apparatus, or other appliances or devices, with or without such supplementary aids as rubbing alcohol, liniment, antiseptic, oil, powder, cream, lotion, ointment or other similar preparations. (Exclusions to this chapter are also described in Section 5.68.110. This chapter is not intended to regulate massages that not part of a business occupation.)

"Massage establishment" means and includes any business enterprise or establishment, parlor, or any room, place or institution within a business establishment where massage is given or administered by a massage technician as a paid service.

"Massage technician" means any person, who gives, performs or administers to another person a massage for any form of consideration.

"Out-call massage service" means any business that provides, refers or otherwise facilitates massage for any consideration at a nonfixed location.

"Person" means and includes person(s), firms, corporations, partnerships, associations or other forms of business organization or group.

"Recognized school" means a school of massage, recognized by the state of California which: (i) teaches the theory, ethics, practice, profession and work of massage; and (ii) requires a residence course of study to be given and completed before the student is furnished with a diploma or certificate of learning or completion; and (iii) has been approved by the state of California Consumer Affairs Bureau pursuant to Education Code § 94915, or, if said school is not located in California, has complied with the standards commensurate with those specified in said § 94915, or a school of equal or greater training that is approved by the corresponding agency in another state, or accredited by an agency recognized by the United States Department of Education.

"Specified anatomical areas" means and includes any of the following human anatomical areas: genitals, pubic regions, anuses or female breasts below a point immediately above the top of the areola.

"Specified sexual activities" means and includes all of the following:

A. Fondling or other erotic touching of specified anatomical areas;

B. Sex acts including, without limitation, intercourse, oral copulation, or sodomy;

C. Masturbation; or

D. Excretory functions as part of or in connection with any specified sexual activity listed in this definition.

"Unrecognized school" means any school of massage that does not meet the definition of "recognized school" but teaches or purports to teach the theory, ethics, practice, profession or work of massage.

(Ord. 2012-05 § 2 (part), 2012)

5.68.030 Administration.

The chief of police is authorized to administer this chapter and to promulgate administrative policies and procedures required to implement the regulations set forth in this chapter.

(Ord. 2012-05 § 2 (part), 2012)

5.68.040 Certifications required.

A. Massage establishment. It is unlawful for any person to own, operate or maintain a massage establishment unless all massage technicians employed by the massage establishment hold a current, valid certification from the CAMTC as a massage practitioner or massage therapist or qualify under the limited exceptions described in this chapter.

B. Massage technician. It is unlawful for any person to engage in, or carry on, the business or activities of a massage technician without a certification from the CAMTC as a massage practitioner or massage therapist or qualify under the limited exceptions described in this chapter.

C. Out-call massage service. It is unlawful for any person to own, operate, or maintain, an off-premise massage service in the city unless all massage technicians employed by the off-premises massage service hold a current, valid certification from the CAMTC as a certified massage practitioner or certified massage therapist or qualify under the limited exceptions described in this chapter.

D. The city recognizes that some massage therapists and massage practitioners currently practicing in Visalia may not meet the current requirements set forth by the CAMTC due to changes in educational or other requirements particularly changes in requirements concerning hours of schooling although the person has been in practice for a significant period. The city will therefore allow such persons that were working within Visalia prior to the passage of this chapter under this "grandfather exception" without certification from the CAMTC if the requirements stated below are met.

The person seeking this exemption must show to the satisfaction of the city police department that he or she worked as a massage therapist or massage practitioner in the city prior to July 1, 2012, which is after the effective date of this chapter. The person must also provide evidence to the city that he or she has certification or proof of training in the field from a school or another entity comparable to the CAMTC and has been working as a massage therapist or massage practitioner for a period of at least five (5) years. Finally, the person must provide evidence that they attempted to obtain certification from the CAMTC but were denied and provide the reasons for the denial to show despite their existing training and experience they were not able to qualify for certification from CAMTC.

Persons that are granted an exemption from the CAMTC certification requirement by the city will still be required to meet all other terms of this chapter including but not limited to the background check required of massage establishment owners that are not certified by the CAMTC. All persons under this exemption will be required to display, in the same manner this chapter requires the display of CAMTC certification, a separate statement from the city to show that the person has met the requirements of this exemption. This exemption must be renewed annually and the city may establish a non-refundable fee to recover costs associated with such annual renewals.

(Ord. 2012-05 § 2 (part), 2012)

5.68.050 Massage establishment owner background check required.

A. Any person, association, partnership, or corporation desiring to operate a massage establishment, that will own five percent (5%) or more of the massage establishment, and that is not a certified massage practitioner or certified massage therapist, (meaning certified by the CAMTC) must make an application to the chief of police for an investigation of the applicant's background and history. A fee to recover costs of the background check

must accompany the submission of each application. An annual nonrefundable renewal fee may also be charged to defray associated costs of investigation, inspection and enforcement.

B. Each applicant for a background check must submit the following information:

1. The full true name and any other names used by the applicant.
2. The present address and telephone number of the applicant.
3. Driver's license number and Social Security number.
4. The proposed address of the massage establishment.
5. Each residence and business address of the applicant for the three (3) years immediately preceding the date of the application, and the inclusive dates for such address.
6. Written proof that the applicant is at least eighteen (18) years of age.
7. Applicant's height, weight, and color of eyes and hair.
8. Two (2) photographs of the applicant at least two (2) inches by two (2) inches taken within four (4) months preceding the date of the application.
9. Applicant's business, occupation and employment history for the five (5) years immediately preceding the date of application.
10. The business license or permit history of the applicant, including whether such applicant has ever had any license or permit issued by any agency or board, city, county or state revoked or suspended, or has had any professional or vocational license or permit revoked or suspended and the reason(s) for the revocation.
11. All criminal convictions for any of the offenses set forth in this chapter, and a statement of the dates and places of such convictions.
12. If the applicant is a corporation, the name of the corporation must be set forth exactly as shown in the articles of incorporation or charter, together with the state and date of incorporation and names and residence addresses of each of its current officers and directors, and each stockholder holding more than five percent (5%) of the stock of the corporation. If the applicant is a partnership, the application must set forth the names and residence addresses of each of the partners, including the limited partners. If the applicant is a limited partnership, it must furnish a copy of its certificate of limited partnership filed with the county clerk. If one (1) or more partners is a corporation, the provisions of this section pertaining to corporate applicants will apply. The applicant corporation or partnership must designate one (1) of its officers or general partners to act as its responsible managing officer. Such person must complete and sign all application forms required of any individual applicant under this chapter, but only one (1) application fee will be charged.
13. The name and address of the owner and lessor of the real property upon or in which the massage establishment is to be operated, and a copy of the lease or rental agreement. If the applicant is not the legal owner of the property, a notarized acknowledgment from the owner of the property that a massage establishment will be located on his or her property is required for each massage establishment permit location.
14. The full true names and other names used, the present addresses and telephone numbers, driver's license numbers, and Social Security numbers, and state certificates from the CAMTC or transitional licenses for all massage technicians who will be working as employees or independent contractors at each massage establishment permit location. The applicant must provide the chief of police with any changes in the massage technicians that work at the massage establishment during the permit period within ten (10) working days of each change.
15. The chief of police may require the applicant to furnish fingerprints when needed for the purpose of verifying identification.
16. Such other identification and information as may be required by the chief of police in order to verify the information to be included in the application.

C. The city is allowed a reasonable time, not to exceed sixty (60) days, in which to investigate the information on the application. During the investigation of the background information, a city representative including, without limitation, a member of the police department, fire department, building and safety division, planning division, or any authorized representative thereof, may inspect, with or without notice during regular business hours, the proposed place of business to determine whether it conforms to the requirements of this chapter. Upon completion of the inspection, the city representative must inform the chief of police in writing of the findings of the inspection. Background clearance will be issued, within sixty (60) days of receipt of the application, to any applicant who has furnished all of the information required by this section in the application for such license, provided all of the following apply:

1. The applicant has not made a material false statement in the application and that all massage technicians who will be working as employees or independent contractors at each massage establishment permit location possesses certification from the CAMTC as a massage practitioner or massage therapist;

2. The applicant, if an individual, or in the case of an applicant which is a corporation or partnership, any of its officers, directors, or holders of five percent (5%) or more of the corporation's stock, has not, within five (5) years immediately preceding the date of the filing of the application been convicted in a court of competent jurisdiction of any of the following offenses: Penal Code §§ 243.4; 261; 266a through 266j; 267; 314 to 316; 318; or 647(a, b, d); any offense requiring registration under Penal Code § 290 or Health and Safety Code § 11590; or any felony offense involving the possession, possession for sale, sale, transportation, furnishing, or giving away of a controlled substance specified in Health and Safety Code §§ 11054 to 11058, as amended; or any offense in another state which, if committed in California, would have been punishable as one (1) or more of the heretofore mentioned offenses; or any offense involving the use of force or violence upon the person of another; or any offense involving theft, embezzlement or moral turpitude;

3. The applicant, if an individual, is at least eighteen (18) years of age;

4. The applicant has not had a massage technician, massage establishment, escort service, nude entertainment, nude photo studio or similar type of license or permit suspended within one (1) year or revoked within three (3) years immediately preceding the date of the filing of the application, unless the applicant can show a material change in circumstances or that mitigating circumstances exist since the revocation or suspension.

(Ord. 2012-05 § 2 (part), 2012)

5.68.060 Additional requirements.

Before operating a massage establishment in the city, massage establishment owners must comply with all applicable codes adopted by the city, including, without limitation, the building, electrical, and plumbing codes.

Hours of operation. Massage establishments shall only offer massage services between the hours of 7:00 a.m. and 10:00 p.m. and no patrons for massage services shall be allowed on the premises after 10:00 p.m. or before 7:00 a.m. Pacific Standard Time.

(Ord. 2012-05 § 2 (part), 2012)

5.68.070 Display of permit.

Any owner of a massage establishment or off-premise massage service must display the CAMTC certificates for all massage technicians prominently in a conspicuous place, capable of being viewed by customers or city representatives, at every location where massage is performed or conducted.

For off-premise massage services, massage workers must also carry a copy of their CAMTC certificate and display it to customers upon request.

Any persons operating under the limited exception described in Section 5.68.040(D) must display the statement from the city documenting their exemption from the CAMTC certification prominently in a conspicuous place capable of being viewed by customers or city representatives, or carry it with them for off-premise massage services.

(Ord. 2012-05 § 2 (part), 2012)

5.68.080 Massage technician certificates required.

It is unlawful for owners of massage establishments or off-site massage services to allow any person to perform massage that is not a certified massage therapist, a certified massage practitioner, or has obtained one (1) of exceptions described in this chapter.

(Ord. 2012-05 § 2 (part), 2012)

5.68.090 Prohibited conduct.

A. It is unlawful for any massage technician or any other employee working in a massage establishment or for an out-call massage service, or customers, patrons, or guests of the establishment or service, to engage in any specified sexual activities upon the premises of the massage establishment or the off-premise massage location.

B. It is unlawful for any massage technician or other employee of a massage establishment to expose specified anatomical areas in the presence of any patron, customer, or guest.

C. In the course of administering the massage, it is unlawful for any massage technician or other massage establishment employee to make intentional physical contact with the specified anatomical areas of any customer, patron or guest.

(Ord. 2012-05 § 2 (part), 2012)

5.68.100 Facilities and operations.

A. It is unlawful for any massage establishment to operate unless the massage establishment premises and operation comply with the following minimum requirements:

1. Signs. A readable sign must be posted at the main entrance identifying the establishment as a massage establishment, provided, however, that all such signs must otherwise comply with the sign requirements of this code.

2. Disinfection of instruments. Instruments used for massage must be disinfected before each use. Where instruments for massage are employed, adequate quantities of supplies for disinfection must be available during all hours of operation.

3. Water. Hot and cold running water must be provided at all times.

4. Linen storage. Closed cabinets must be utilized for the storage of clean towels and linen. After use, towels and linen must be removed and stored in a separate container until laundered.

5. Sanitary conditions. All walls, ceilings, floors, steam and vapor rooms, and all other physical facilities for the massage establishment must be kept in good repair and be maintained in a clean and sanitary condition.

6. Clean linen. Clean and sanitary towels and linens must be provided for patrons receiving massage services. No common use of towels or linens is permitted.

7. Compliance with laws. The premises to be used must at all times comply with all applicable state and local laws and regulations.

B. A register of all individuals employed as massage technicians, and copies of their current CAMTC certifications and massage technician business licenses, must be maintained and available for inspection at all times during regular business hours.

C. Each person present in any area of the massage establishment outside the waiting area or other areas open to any member of the public must be a certified massage practitioner or certified massage therapist or the massage establishment owner.

D. The permits and certifications required by this chapter must be displayed in an open and conspicuous public place on the premises.

(Ord. 2012-05 § 2 (part), 2012)

5.68.110 Exceptions.

This chapter does not apply to the following classes of individuals, and no CAMTC certification is required of such persons, while engaged in the performance of the duties of their respective professions:

1. Acupuncturists who are duly certified to practice their profession in the state of California.

2. Barbers, beauticians, and cosmetologists with respect to scalp massage, who are duly permitted pursuant to Business and Professions Code §§ 7301, et seq., in accordance with the limitations of their permits.

3. Persons employed or working at a licensed athletic facility.

4. Medical facilities in which massage is performed as prescribed treatment only on patients of the medical facility.

5. Nurses who are registered or certified as such under the laws of the state of California.

6. Physicians, surgeons, chiropractors, osteopaths, or physical therapists who are duly permitted to practice their respective professions in the state of California, or provide professional services in lawful compliance with Corporations Code § 13401(a).

7. Recognized schools of massage.

8. Businesses where a massage is performed while the person sits in a chair, such as head and neck massage, foot massage, or as part of a manicure or pedicure, and performed in public view or in a open common room.

9. Massage establishments or out-call massage services that are operating pursuant to a duly issued city business license that is issued prior to the effective date of this chapter shall have until December 31, 2013 to meet the state certification requirement described in Section 5.68.040 and any posting of such requirements detailed in other provisions.

10. This chapter is not intended to regulate massages that are not part of a business occupation.

(Ord. 2012-05 § 2 (part), 2012)

5.68.120 Public nuisance abatement.

Any massage establishment operated, conducted or maintained contrary to the provisions of this chapter is unlawful and a public nuisance. The city attorney is authorized, in addition to or in lieu of any other legal or criminal proceedings, to commence an action or proceeding for abatement, removal or enjoinment of such

massage establishment in the manner provided by law. The city attorney may seek a court order to grant such relief to abate or remove such massage establishments and restrain and enjoin any person from operating, conducting or maintaining such an establishment contrary to the provisions of this chapter.
(Ord. 2012-05 § 2 (part), 2012)

5.68.130 Revocation.

A. Grounds for revocation. The police chief or city attorney may revoke approvals issued under this chapter for one (1) or more of the following grounds:

1. Fraud or deceit. That the applicant practiced fraud or deceit in obtaining an approval under this chapter;
2. Violation of chapter. That the massage establishment owner, operator, massage technician, or its employee violated a provision or provisions of this chapter;
3. Criminal conviction. That the massage establishment owner, operator, massage technician, or its employee has been convicted in a court of competent jurisdiction of any offense described in this chapter;
4. Improperly maintained facilities. That the facilities and operations of the massage establishment are not kept in compliance with this chapter and that the owner or operator has failed to promptly remedy any deficiency of which they have been notified. For purposes of this subsection, "notice" means notice given personally, or by leaving notice at the massage establishment premises, or by first class mail, postage prepaid, to the address designated by the massage technician or establishment in accordance with this chapter;
5. Employment of uncertified technicians. That the massage establishment has employed, allowed or permitted an uncertified person to perform massage in the massage establishment;
6. Error. That the approval was issued in error;
7. Civil penalties. Assessment of three (3) or more civil penalties as provided by this chapter during any six (6) month period; or
8. Prohibited conduct. A massage establishment owner, operator, massage technician, or its employee or agent has been found to have engaged in prohibited conduct in violation of this chapter.
9. Notice of revocation. Upon a determination on the grounds to revoke an approval under this chapter, the police chief or city attorney must cause a notice of revocation to be mailed by first class, postage prepaid mail, to the address designated by the massage technician or establishment pursuant to this chapter.

(Ord. 2012-05 § 2 (part), 2012)

5.68.140 Enforcement and penalties.

A. Any person violating any provision of this chapter is liable in a civil action brought by the city attorney for an amount up to $500 per violation. Such person is also liable for reasonable attorneys' fees and costs incurred by the city attorney in any civil proceeding filed to enforce this chapter. Each day that a violation continues may be considered a new and subsequent offense.

B. Alternatively the city may choose to enforce violations through the administrative code enforcement process described in Chapter 1.13 of the Visalia Municipal Code, with violations being punishable with a $100 fine for the first violation, a $200 fine for the second violation, and a $500 fine for the third and subsequent violations. Each day that a violation continues may be considered a new and subsequent offense.

C. Enforcing this chapter through civil action may be filed as an alternative to criminal enforcement. Civil enforcement does not require the violation to be knowing or willful. A civil or administrative action cannot be filed if the person is being criminally prosecuted.

D. The city attorney may settle any civil enforcement before or after to the filing of a civil action by imposing a civil penalty in an amount not exceeding the potential civil liability, including attorneys' fees, set forth in this section. If such civil penalty is paid in full, the city attorney can agree not to file civil or criminal actions or, if action has already been filed, may dismiss such action. Imposition of all civil penalties is public record.

(Ord. 2012-05 § 2 (part), 2012)

5.68.150 Appeal.

After denial of an application for a massage establishment regulatory permit (the term permit includes the "grandfather exception" to CAMTC certification described in Section 5.68.040), or after denial of renewal of a permit, or suspension or revocation of a permit, the applicant or person to whom the permit was granted may appeal the decision to the city manager, or designee, by filing a written notice with the city clerk within ten (10) business days from the receipt of the notice of denial. The city manager or representative shall hold a hearing on the appeal within thirty (30) business days from the receipt of the notice by the city clerk. The decision of the city manager, or designee, following the hearing shall be final and conclusive. There is no appeal to the City

Council. If the denial, suspension or revocation is affirmed on review the applicant or permittee may seek judicial review of such administrative action pursuant to California Code of Civil Procedure § 1094.5. The time for filing such action is governed by California Code of Civil Procedure § 1.
(Ord. 2012-05 § 2 (part), 2012)

VISALIA MUNICIPAL CODE
Chapter 8.20 California Fire code

8.20.010 Adoption of the 2022 California Fire Code.

A. There is adopted for the purpose of prescribing regulations governing conditions hazardous to life and property from fire, hazardous materials or explosion, that certain document, not less than one copy is filed in the office of the Fire Department and one in the office of the Building Division of City of Visalia, being marked and designated as the California Fire Code, 2022 edition published by the International Code Council, including Appendix Chapters 4 (Special Detailed requirements Based on Use and Occupancy), B (Fire-Flow Requirements for Buildings), C (Fire Hydrant Locations and Distribution), D (Fire Apparatus Access Roads as amended by section L), H (Hazardous Materials Management Plan (HMMP) and Hazardous Materials Inventory Statement (HMIS) Instructions), I (Fire Protection Systems-Noncompliant Conditions), N (Indoor Trade Shows and Exhibitions) and O (Temporary Haunted Houses, Ghost Walks and Similar Amusement Uses), as published by the International Code Council, be and is hereby adopted as the Fire Code of the City of Visalia, in the State of California
regulating and governing the safeguarding of life and property from fire and explosion hazards arising from the storage, handling and use of hazardous substances, materials and devices, and from conditions hazardous to life or property in the occupancy of buildings and premises as herein provided, providing for the issuance of permits and collection of fees therefor, and each and all of the regulations, provisions, penalties, conditions, and terms of said Fire Code on file in the office of the City of Visalia are hereby referred to, adopted, and made a part hereof, as if fully set out in this ordinance, with the additions, insertions, deletions and changes, if any, prescribed this section 8.20.010.

B. All further references shall be to the 2022 California Fire Code, in Subsection 101.1 of the, the term "City of Visalia" shall be inserted.

C. Subsection 104.3.1.1. Warrant cost recovery, is added to read as follows:

104.3.1.1 Warrant cost recovery. Cost to the City of Visalia for obtaining and executing an Inspection Warrant is the responsibility of the property owner and steps to recover the costs will be taken, up to and including a lien against the property. Recovery costs may include staff time, legal fees, and court fees.

D. Subsection 111.1 Board of Appeals is amended to read as follows:

111.1 Appeals. See local Ordinance, Appeals Section 8.20.07.

E. Subsection 111.1 through 111.4 shall be deleted in their entirety.

F. Subsection 112.4 Change: Violation penalties, is amended to read as follows:

112.4 Violations penalties. Persons who shall violate a prevision of this code or shall fail to comply with any of the requirements thereof or who shall erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official, or a permit or certificate used under provision of this code, shall be guilty of a misdemeanor, infraction or both. Penalties shall be as prescribed in local Ordinance Section 1.12.010. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

G. Subsection 112.5 Cost of abatement, is added to read as follows:

112.5 Cost of abatement. Cost of abatement is the responsibility of the property owner and steps to recover the costs will be taken, up to and including a lien against the property. Property owners shall be notified of any action taken as soon as possible. Recovery costs may include staff time, contractor's costs, legal fees and any and all cost associated with the abatement.

H. Subsection 113.4 Change: Failure to comply, is amended to read as follows:

113.4 Failure to Comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine prescribed in local Ordinance Section 1.12.010.

I. Subsection 107.7 Added: Visalia Fire Department Fee Schedule, is added to read as follows: 107.7 Visalia Fire Department Fee Schedule. The Fire Chief may establish a schedule of fees, as approved by the City Council, to be charged and collected for plan checking, required inspections services, and for the issuance

of permits pursuant to Section 105 of this Code. In addition, this schedule may include a fire service Cost Recovery fee to be charged to any person, firm, corporation, or business that through negligence, violation of the law or as a result of carelessness is responsible for the cause of any fire service response to the scene of such an incident. A copy of the fee schedule shall be kept in the office of the City Clerk and the Office of the Fire Department and shall be available for public inspection.

J. Subsection 105.5.34 Exception, is amended to read as follows:

105.6.32 Exception: Recreational Fires, see Visalia Municipal Code Ordinance, Open Burning, Section 8.44.010.

K. Subsection 903.3.8.4.1 shall be added to read as follows:

903.3.8.4.1 Tamper Protection. All exterior risers, drain/test valves and backflow devices shall be protected from unauthorized tampering by approved means. Protection method shall be indicated on building plans.

L. Subsection C103.4 Buildings provided with a fire sprinkler system, is added to read as follows:

C103.4 Buildings provided with a fire sprinkler system. Any newly constructed building provided with a NFPA 13 or NFPA 13R fire sprinkler system shall provide a fire hydrant within fifty (50) feet of the fire department connection. Where an existing building is retrofitted with a NFPA 13 or NFPA 13R fire sprinkler system a fire hydrant shall be provided within seventy-five (75) feet of the fire department connection.

C103.4.1 An additional twenty-five (25) feet of distance between a fire hydrant and the fire department connection (FDC) may be granted by the Fire Marshal when a fire sprinkler system density is designed with an additional 25%.

Exceptions: The additional twenty-five (25) feet of distance between a fire hydrant and the fire department connection (FDC) shall not be permitted for Pipe scheduled and ESFR sprinkler systems.

M. Section D106 where required, "apparatus access roads" shall be available to public travel at all times.

N. Subsection D107.1 Shall read as follows:

One- or two-family dwelling residential developments. Developments of one- two family dwellings where the number of dwelling units exceeds 30 shall be provided with two separate and approved access roads available to public travel at all times.

O. Subsection D107.1 , Exception 1. shall be deleted in its entirety.

(Ord. 2022-15 § 2 (part), 2022)

8.20.020 Establishment authority and responsibilities.

A. The fire marshal under the authority of the fire chief is hereby authorized to enforce the provisions of the California Fire Code and shall have the authority to render interpretations of the code, and to adopt policies, procedures, rules and regulations in order to clarify the application of its provisions. Such interpretations, policies, procedures, rules and regulations shall be in compliance with the intent and purpose of the code and shall not have the effect of waiving requirements specifically provided for in the code.

B. The fire marshal may authorize fire inspectors and other members of the fire department as deemed necessary to enforce the provisions of the fire code.

C. A report of the fire prevention division shall be made annually to the city manager as part of the fire departments annual report. The fire marshal under the authority of the fire chief shall also recommend any amendments to the code which, in his/her judgment are desirable.

(Ord. 2022-15 § 2 (part), 2022)

8.20.030 Definitions.

Fire Code Official. Whenever the term "fire code official" is used in the California Fire Code, it means fire marshal of the fire department.

Municipality. Whenever the term "municipality" is used in the California Fire Code, it means the City of Visalia.

(Ord. 2022- 15 § 2 (part), 2022)

8.20.040 Establishment of limits of storage of flammable liquids in outside aboveground tanks and bulk storage of liquefied petroleum gases.

The limits referring to storage of flammable liquids in outside aboveground tanks and bulk storage of liquefied petroleum gases in the California Fire Code is to be restricted shall be regulated by the city zoning ordinance. Where the zoning ordinance is silent about the permitted or conditional use the omission shall be considered prima facie evidence of clear intent to prohibit the act.

(Ord. 2022-15 § 2 (part), 2022)

8.20.050 Modifications.

Where there are practical difficulties involved in carrying out the provisions of this code, the fire marshal shall have the authority to grant modifications for individual cases, provided the fire marshal shall first find that special individual reason makes the strict letter of the code impractical, and the modification is in compliance with the intent and purpose of the code and that such modification does not lessen health, life and fire safety requirements. The details of action granting modifications shall be recorded and entered in the files of the department of fire prevention.
(Ord. 2022-15 § 2 (part), 2022)

8.20.060 Alternative materials and methods.

The fire marshal shall have power to approve alternative materials and methods where he or she finds that the proposed design is satisfactory and complies with the intent of the provisions of the California Fire Code. Where the alternative material, design or method of construction is not approved, the fire marshal shall respond in writing, stating the reasons why the alternative was not approved.
(Ord. 2022-15 § 2 (part), 2022)

8.20.070 Appeals.

Whenever the fire marshal and or chief of the fire department disapprove an application or refuse to grant a permit applied for, or when it is claimed that the provisions of the code do not apply or that the true intent and meaning of the code have been misconstrued or wrongly interpreted, the applicant may appeal the decision of the fire marshal and or chief of the fire department to the city manager within thirty (30) days from the date of the decision.
(Ord. 2022-15 § 2 (part), 2022)

8.20.080 New materials, processes or occupancies which may require permits.

A. The city manager, the chief of the fire department, fire marshal and the chief building official shall act as a committee to determine and specify, after giving affected persons an opportunity to be heard, any new materials, processes, or occupancy, which shall require permits, in addition to those now enumerated in said code.

B. The fire chief shall post such list in conspicuous place in his/her office and distribute copies thereof to interested persons.
(Ord. 2022-15 § 2 (part), 2022)

8.20.090 Capacity of tank trucks.

The capacity of compartments of tank trucks used in the delivery of Class I flammable liquids in retail lots and for retail purposes within the city shall be limited to one thousand two hundred (1 ,200) gallons.
(Ord. 2022-15 § 2 (part), 2022)

8.20.100 Special permits.

The chief of the fire department may, at his discretion, issue special permits for the entrance into the city of tank trucks of greater than one thousand two hundred (1,200) gallon compartment capacity for the purpose of making delivery of Class I flammable liquids to retail distribution stations, but not otherwise; provided, such permits shall be restricted to deliveries at locations where unusual hazards will not be created by such larger capacity trucks; provided, that no such tank trucks, carrying Class I flammable liquid, shall be parked or left unattended on any street, highway, avenue or alley of the city.
(Ord. 2022-15 § 2 (part), 2022)

8.20.110 Penalties.

Any person who shall violate any of the provisions of the code adopted or fail to comply therewith, or who shall violate or fail to comply with any order made thereunder, or who shall build in violation of any detailed statement of specification or plans submitted and approved thereunder or any certificate or permit issued thereunder, and from which no appeal has been taken or who shall fail to comply with such an order as affirmed or modified by the city attorney or by a court of competent jurisdiction, within the time fixed herein, shall severally for each and every such violation and noncompliance respectively be guilty of a misdemeanor or infraction as determined by the city attorney, and shall be assessed administrative penalties pursuant to the

provisions of Chapter 1.13 of the Visalia Municipal Code. These penalties may accrue and each day the property is not in compliance shall be considered another violation.

VISALIA MUNICIPAL CODE
Chapter 15.08 – California Building Code

15.08.010 Adoption of the 2022 California Building Code.

A. That certain building code, in book form known and designated as the 2022 California Building Code, Title 24, Part 2, Volumes 1 and 2, and published by The International Code Council, is adopted as the Building Code of the city, to all intents and purposes and to the same effect as if each and every section, paragraph, subparagraph, word, phrase or clause contained therein were fully set forth herein, except for those deletions, modifications, and amendments set forth below. If any section, subsection, sentence, clause or phrase of this chapter is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of the chapter.

1. Any person who shall violate any of the provisions of the code adopted or fail to comply therewith, or who shall violate or fail to comply with any order made thereunder, or who shall build in violation of any detailed statement of specifications or plans submitted and approved thereunder or any certificate or permit issued thereunder, and from which no appeal has been taken or who shall fail to comply with such order as affirmed or modified by the city attorney based on a recommendation of the building official or by a court of competent jurisdiction, within the time fixed herein, shall severally for each and every such violation and non-compliance respectively be guilty of a misdemeanor, or infraction as determined by the city attorney.

2. Such violation shall be subject to penalties in accordance with Section 1.12.010.

B. Included specifically are 2022 California Building Code Appendices B (Board of Appeals), C (Group U - Agricultural Buildings), F (Rodent proofing), H (Signs), I (Patio Covers), J (Grading) and P (Emergency Housing).

C. Reference is made to three copies of the 2022 California Building Code, one copy filed in the office of the city clerk and two copies filed in the office of Building Safety Division of the city, which are now filed for full particulars of said Building Code.

VISALIA MUNICIPAL CODE
Chapter 15.20 – California Plumbing Code

15.20.010 Adoption of the 2022 California Plumbing Code.

A. That certain plumbing code, in book form known and designated as the 2022 California Plumbing Code, Title 24, Part 5 as Published by the International Association of Plumbing and Mechanical Officials prepared and published by the International Association of Plumbing and Mechanical Officials, based on the 2021 Uniform Plumbing Code adopted as the plumbing code of the city, to all intents and purposes and to the same effect as if each and every section, paragraph, subparagraph, word, phrase or clause contained therein were fully set forth herein, except for those deletions, modifications, and amendments set forth below. If any section, subsection, sentence, clause or phrase of this chapter is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of the chapter.

1. Any person who shall violate any of the provisions of the code adopted or fail to comply therewith, or who shall violate or fail to comply with any order made thereunder, or who shall build in violation of any detailed statement of specifications or plans submitted and approved thereunder or any certificate or permit issued thereunder, and from which no appeal has been taken or who shall fail to comply with such order as affirmed or modified by the city attorney based on a recommendation of the building official or by a court of competent jurisdiction, within the time fixed herein, shall severally for each and every such violation and non-compliance respectively be guilty of a misdemeanor, or infraction as determined by the city attorney.

2. Such violation shall be subject to penalties in accordance with Section 1.12.010.

B. Appeals Board section 1.8.8 shall be deleted. Refer to 2022 California Building Code Section 1.8.8 as amended.

C. Included specifically are 2022 California Plumbing Code Appendix A (Recommended Rules for Sizing the Water Supply System), B (Explanatory Notes on Combination Waste & Vent Systems), D (Sizing Storm Water Drainage Systems), H (Private Sewage Disposal Systems), I (Installation Standards for PEX Tubing

Systems for Hot- and Cold-Water Distribution), and J (Combination of Indoor and Outdoor Combustion and Ventilation Opening Design).

D. Section 808.0 of said California Code is amended to read as follows:

Section 808.0, Cooling Water. Discharge of cooling water into the sanitary sewer system is prohibited. Refer to Section 13.08.500 of City of Visalia Municipal Code (Prohibition on Unpolluted Water).

E. Reference is made to three copies of the 2022 California Plumbing Code, one copy filed in the office of the city clerk and two copies filed in the office of building safety division of the city, which are now so filed for full particulars of said Plumbing Code.

VISALIA MUNICIPAL CODE
Chapter 15.24 – California Mechanical Code

15.24.010 Adoption of 2022 California Mechanical Code.

A. That certain mechanical code, in book form known and designated as the 2022 California Mechanical Code, Title 24, part 4 as Published by the International Association of Plumbing and Mechanical Officials, based on the 2021 Uniform Mechanical, adopted as the mechanical code of the city, to all intents and purposes and to the same effect as if each and every section, paragraph, subparagraph, word, phrase or clause contained therein were fully set forth herein, including the appendices, except for those deletions, modifications, and amendments set forth below. If any section, subsection, sentence, clause or phrase of this chapter is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of the chapter.

1. Any person who shall violate any of the provisions of the code adopted or fail to comply therewith, or who shall violate or fail to comply with any order made thereunder, or who shall build in violation of any detailed statement of specifications or plans submitted and approved thereunder or any certificate or permit issued thereunder, and from which no appeal has been taken or who shall fail to comply with such order as affirmed or modified by the city attorney based on a recommendation of the building official or by a court of competent jurisdiction, within the time fixed herein, shall severally for each and every such violation and non-compliance respectively be guilty of a misdemeanor, or infraction as determined by the city attorney.

2. Such violation shall be subject to penalties in accordance with Section 1.12.010.

B. Appeals Board section 1.8.8 shall be deleted. Refer to 2022 California Building Code Section 1.8.8 as amended.

C. Included specifically are 2022 California Mechanical Code Appendix B (Procedures to be followed to Place Gas Equipment into operation) and C (Installation and testing of oil (liquid) fuel-fired equipment).

D. Reference is made to three copies of the 2022 California Mechanical Code, one copy filed in the office of the city clerk and two copies filed in the office of building safety division of the city, which are now so filed for full particulars of said Mechanical Code.

VISALIA MUNICIPAL CODE
Chapter 15.28 – California Electric Code

15.28.010 Adoption of the 2022 California Electrical Code.

A. That certain electrical code, in book form known and designated as the 2022 California Electrical Code, Title 24, Part 3, Published by BNI Productions, Inc. based on the 2020 National electrical code, copyright 2019 National Fire Production Association, is adopted as the Electric Code of the city, to all intents and purposes and to the same effect as if each and every section, paragraph, subparagraph, word, phrase, or clause contained therein were fully set forth herein. If any section, subsection, sentence, clause, or phrase of this chapter is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of the chapter.

1. Any person who shall violate any of the provisions of the code adopted or fail to comply therewith, or who shall violate or fail to comply with any order made thereunder, or who shall build in violation of any detailed statement of specifications or plans submitted and approved thereunder or any certificate or permit issued thereunder, and from which no appeal has been taken or who shall fail to comply with such order as affirmed or modified by the city attorney based on a recommendation of the building official or by a court of

competent jurisdiction, within the time fixed herein, shall severally for each and every such violation and non-compliance respectively be guilty of a misdemeanor, or infraction as determined by the city attorney.

2. Such violation shall be subject to penalties in accordance with Section 1.12.010.

B. Appeals Board section 89.108.8 shall be deleted. Refer to 2022 California Building Code Section 1.8.8 as amended.

C. Included specifically are 2022 California Electrical Code Annexes A and B.

D. Reference is made to three copies of the 2022 California Electrical Code, one copy filed in the office of the city clerk and two copies filed in the office of building safety division of the city, which are now so filed for full particulars of said electrical code.

VISALIA MUNICIPAL CODE
Chapter 17.25 – Uses In The Commercial, Mixed Use, Office, and Industrial Zones (2017)

17.25.010 Purpose and intent.

No structure, or any part thereof, shall be erected, enlarged, or reduced, nor shall any site or structure be used, designated, or intended to be used for any purpose or in any manner other than is included among the uses listed in the land use tables in this chapter as permitted, administratively permitted, or conditionally permitted in the zone district in which such structure, land, or site is located, except as otherwise authorized by this title.

17.25.020 Applicability

The requirements in this chapter shall apply to all property within the following zone districts:

17.25.030 Commercial, Office, and Industrial Zone Use Table

A. The following table (Table 17.25.030) identifies which land uses are permitted by right, require a use permit, or are not allowed in the C-N, C-R, C-S, C-MU, D-MU, O-PA, O-C, BRP, I-L, and I zones.

B. A "P" means that the use is permitted by right in that zone. A "C" means the use requires a conditional use permit in that zone. An "A" means the use requires an administrative use permit in that zone. A "T" means the use requires a temporary use permit in that zone. A blank box means the use is not allowed in that zone.

C. Land uses are listed alphabetically, with some uses grouped by type under a general heading.

D. Land uses with specific land use prohibitions or standards shall meet the requirements found in the identified Chapter or Section in the last column of the table.

Table 17.25.030

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					**Office Zones**			**Indus-trial Zones**		**Special Use Standards (See identified Chapter or Section)**
	USE	**C-N**	**C-R**	**C-S**	**C-MU**	**D-MU**	**O-PA**	**O-C**	**BRP**	**I-L**	**I**	
	A											
	AGRICULTURAL - FARMING											17.08
A1	Beekeeping											
A2	Farmers' Market		P			P						
A3	Grain Elevators/Silos											

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
A4	Greenhouses (commercial growers)										P	
A5	Horse stables/Ranch (3 or more horses)											
A6	Limited Raising of Small Animals, Livestock, and fowl on a Domestic Noncommercial Scale (2 cows, 4 sheep, goats, no pigs)											
A7	Raising of Livestock and Fowl, except Stockyards (commercial)											
A8	Raising of Field, Truck or Orchard Crop & Horticultural Specialties						P	P	P	P		
A9	Riding Academies/Stables									C	C	
A10	Roadside Stands Selling Produce Grown on Site	T	T	T	T	T	T	T	T	T	T	
A11	Animal Shelters/ Humane Societies									C	C	
	AUDITORIUMS (see THEATERS)											
	AUTOMOTIVE (for gas stations see SERVICE STATIONS)											
A12	Auto Leasing/Renting			P	C	C						
A13	Auto Dismantling/Wrecking/ Salvage Yards										C	17.32.070
A14	Auto Machine Shops			P						P		
A15	Auto Oil, Lube & Smog Test Shops	C	C	P	P	C						
A16	Auto Repairs, Major-Overhauling, Rebuilding, Painting		C	P	C	C						
A17	Automotive Supplies, Parts & Accessories	C	P		P	P						
A18	Automotive Upholsterers			P								
A19	Boat Sales/Service			P								
A20	Car Washing -self service	C	C	P	C	C						
A21	Car Washing - automated	C	C	P	C	C				C		
A22	Car Sales - New & Used			P		C						
A23	Motorcycles, Sales and Service			P								
A24	RV/Boat Storage Yards			P						P		

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					**Office Zones**			**Indus-trial Zones**		**Special Use Standards (See identified Chapter or Section)**
	USE	**C-N**	**C-R**	**C-S**	**C-MU**	**D-MU**	**O-PA**	**O-C**	**BRP**	**I-L**	**I**	
A25	Recreational Vehicles Sales and Service			P						P		
A26	Tire Sales & Service (excluding major repairs) – stand alone	C	P	P	P	C						
A27	Tire Sales & Service (excluding major repairs) - located within the primary permitted use on the site		P	P	P							
A28	Towing/Road Service			P						P		
A29	Truck/Trailer Sales and/or Service			P						C		
A30	Truck Rental/Leasing			P								
	B											
	BANKS & FINANCIAL INSTITUTIONS											
B1	Stand-Alone Automatic Teller (ATM)	P	P	P	P	P	P	P	P	P	P	
B2	Office	P	P	P	P	P	P		P			
	BARBERS, HAIRSTYLISTS, TANNING CENTERS, COSMETICIANS, & DAY SPAS											
B3	Stand Alone	P	P	P	P	P	C	C				
B4	Located with the Primary Permitted Use on the Site	P	P		P	P	P			P	P	
B5	Tattooist		P	P	C	P						
	BED & BREAKFAST ACCOMMODATIONS											
B6	Traditional					C		C				17.32.150
B7	Inns					C		C				17.32.150
B8	Boarding / Rooming Houses					C						
	BUS DEPOTS											
B9	Station (passenger services)			C		C			C			
B10	Repair Yard & Shops			P						P	P	
B11	Public & Private Transfer Point		C	C	C	C			C	C	C	
	C											
C1	Catering Services			P	P	P				P	P	
C2	Cemeteries & Mausoleums											17.52

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					**Office Zones**			**Indus-trial Zones**		**Special Use Standards (See identified Chapter or Section)**
	USE	**C-N**	**C-R**	**C-S**	**C-MU**	**D-MU**	**O-PA**	**O-C**	**BRP**	**I-L**	**I**	
C3	Christmas Tree Sales Lots / Other Seasonal Commercial Uses / Special Events	T	T	T	T	T						
	CHURCHES & OTHER RELIGIOUS INSTITUTIONS											
C4	Up to 200 Seats			C	C	C	C	C		C		
C5	More than 200 Seats					C	C	C				
C6	Clothing / Costume Rental		P		P	P						
	COMMUNICATIONS											
C7	Communications Equipment Building	C		P	P	C	C		C	P	P	
C8	Radio and TV Broadcasting Studios - with antenna off-site		P	P	P	P			C	P	P	
C9	Radio and TV Broadcasting Studios - with antenna on-site			C	C					P	P	
C10	Wireless telecommunication facilities – more than 100 feet away from property planned/ zoned residential	C	C	C	C	C	C		C	P	P	17.32.163
C11	Wireless telecommunication facilities - within 100-ft of property planned/zoned residential	C	C	C	C	C	C			C	C	17.32.163
	D											
	DAYCARE, LICENSED											
D1	Adult - six or few adults	P	P	P	P	P	P	P	P	P	P	
D2	Adult - 7 to 12 adults	P	P	P	P	P	P	P	P	P	P	
D3	Adult - 13 or more adults	C	C	C	C	C	C	C	C	C	C	
D4	Children - 8 or fewer	P	P	P	P	P	P	P	P	P	P	
D5	Children - 9 to 14	P	P	P	P	P	P	P	P	P	P	
D6	Children - 15 or more	C	C	C	C	C	C	C	C	C	C	
D7	In Conjunction with Primary Use	P	P	P	P	P	P		P	P	P	
D8	Drive-Thru Lanes Meeting All Standards in Sect. 17.32.162	P	P	P	P		P		P			17.32.162
D9	Drive-Thru Lanes Not Meeting All Standards in Sect. 17.32.162	C	C	C	C		C		P			17.32.162
D10	Drive-Thru Lanes in Industrial Zone									C	C	17.32.161

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
	E											
	EATING & DRINKING ESTABLISHMENTS											
E1	Bars/Taverns - within 300 feet of any residence/public use	C	C		C							
E2	Bars/Taverns - not within 300 feet of any residence/public use		P		C							
E3	Micro-breweries / micro-wineries (with or without restaurants)	C	P	C	C	C			C	C	C	17.63
E4	Craft distilleries			P	C	C				C	C	Craft distilleries Permitted in 17.63 Overlay District
E5	Cafeterias	P	P	P	P	P	C		P	C	C	
E6	Fast Food Restaurants	P	P	P	P	P	C		P			See Lines D8 and D9 of Table 17.25.030 for Drive-thru lane zoning require-ments.
E7	Fast Food Restaurants (Industrial Zone)									C	C	17.32.161
E8	Pizza/Sandwich Shops - serving wine/beer	C	P	P	P	P	C		P			
E9	Pizza/Sandwich Shops - no alcohol	P	P	P	P	P	C		P	C	C	
E10	Ice Cream Shop	P	P		P	P	C		P			
E11	Night Clubs/Discotheques		C			C						
E12	Live Entertainment		C		C	C						17.04
E13	Sit-Down Restaurant/Cafe - with or without full bar using less than 25% of public area	P	P	P	P	P	P	P	P	P		

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
E14	Sit-Down Restaurant/Cafe - full bar using greater than 25% of public area	C	C	C	C	C	C	C	C			
E15	Enclosed Solid Waste Transfer Stations											
	F											
F1	Florist	P	P	P	P	P		C				
F2	Fortunetelling / Palm Reader				P							5.20
	FUEL STORAGE											
F4	Propane/Butane				P					P	P	
F5	Propane/Butane (maximum 2000 gallons)		P	P								
F6	Propane/Butane within 50 feet of Planned/zoned Residential				C					C	C	
F7	Propane/Butane within 50 feet of Planned/zoned Residential (maximum 2000 gallons)		C	C								
F8	Above Ground Tanks dispensing Class I, II, and III-A liquids - within 100 feet of a residential use or residential zoned property	C	C	C	C	C			C	C	C	17.32.025
F9	Above Ground Tanks dispensing Class I, II, and III-A liquids - more than 100 feet from a residential use or residential zoned property	P	P	P	P	P			P	P	P	17.32.025
F10	Pump & Underground Storage Tank											
F11	Pump & Underground Storage Tank - 500 gallons or less									P	P	
F12	Pump & Underground Storage Tank - more than 500 gallons									P	P	
F13	Petroleum & Petroleum Products Storage									C	C	
	Public Fuel Dispensing (see Service Stations)											
F14	Funeral Home / Mortuary			C	C	C	C					
	G											

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					**Office Zones**			**Indus-trial Zones**		**Special Use Standards (See identified Chapter or Section)**
	USE	**C-N**	**C-R**	**C-S**	**C-MU**	**D-MU**	**O-PA**	**O-C**	**BRP**	**I-L**	**I**	
G1	Galleries – Art / Photography / Crafts	P	P	P	P	C						
	H											
H1	Home Occupation Businesses	P	P	P	P	P	P	P	P	P	P	17.32.030
H2	Hotels and Motels		C		C	C			C			
	I											
	J											
	K											
K1	Kennels (located 500 feet or more from a residential zone)			C						C		
	L											
	LAUNDRY / DRY CLEANERS											
L1	Dry Cleaners (cleaning plant)	P	P	P	P	P			P			
L2	Dry Cleaners (cleaning plant including carpet/rug cleaning and dyeing)			P	P					P		
L3	Diaper Supply Service			P	P					P		
L4	Linen & Uniform Supply Service			P	P					P		
L5	Self service	P	P	P	P	P						
	M											
	MANUFACTURING / ASSEMBLING											
	Building & Construction Trade											
M1	- building materials yards (storage & distribution)			P						P	P	
M2	- cabinetmaker/carpenter shops			P						P	P	
M3	- concrete & ready-mix manufacture & distribution									C	C	
M4	- contractor's equipment storage yards			P						P	P	
M5	- drilling/dredging/ditching service			P							P	
M6	- lumberyard (see also RETAIL)			P						P		
M7	- sheet metal shop			P						P		

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
	Chemical Products, except as more specifically described below (manufacturing, blending, compounding, packaging, bottling)											
M8	- laboratories (i.e., organic/inorganic)								P	P	P	
M9	- paint, dye & glue manufacturers									C	P	
M10	- pharmaceuticals						C		C	P	P	
M11	- manufacture of raw plastic materials, colorants, liquids, powders, resins									C	P	
M12	- soap detergent & other cleaning preparations									C	P	
	Food & Beverage - Preparation & Bottling/Packing & Distribution											
M13	- animal & marine fats & oils (refining & rendering)										C	
M14	- beer & ale distributors			P						P	P	
M15	- breweries and wineries producing 60,000 barrels or less per year									P	P	
M16	- breweries and wineries producing more than 60,000 barrels per year										C	
M17	- commercial bakeries			C						P	P	
M17	- dairy products processing & packaging									C	C	
M18	- fruit & vegetable brokers & shippers									P	P	
M19	- grain, feed & flour mills										P	
M20	- ice manufacturers & storage			P						P	P	
M21	- meat & poultry product processing including butchering/slaughtering										C	
M22	- meat and food locker, packaging			P						P	P	
M23	- nut processing (dehydrating, hulling & drying)										P	
M24	- packaging of previously prepared food items			P		P			P	P	P	
M25	- processing, canning & packing food products										P	

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
M26	- refinery for food products, i.e. sugar										C	
M27	- snack food preparation, packaging									P	P	
M28	- soft drink bottling & distribution									P	P	
M29	- vegetable oil mills										P	
M30	- water processing & bottling									P	P	
M31	Flammable/Combustible Liquids										C	13.32.027
M32	Heavy Equipment/Machine Manufacture/Assembly (welding & fabrication, i.e., agricultural equipment, aircraft equipment parts & supplies, large appliances, auto/truck manufacturing, industrial machinery)										C	
M33	Kiln works for clay and pottery products									P	P	
M34	Light Manufacturing/Assembly (i.e., computer hardware & parts, electric supplies - coils, wire, cable, etc.)								C	P	P	
	Printing & Publishing Industry											
M35	- desktop, blueprint & photocopy		P	P		P			P	P		
M36	- publishing, printing &/or binding (newspapers, magazines, brochures, books, etc.)			P					P	P	P	
	Products Manufactured/ Assembled from Previously Prepared Materials											
M37	- manufacture of paper & plastic packaging & cartons								C	P	P	
M38	- clothing assembly/imprinting			P						P	P	
M39	- metal fabrication & die cutting			P						P	P	
M40	- rubber & plastic product manufacturing									C	P	
M41	- textile mills (dyeing, weaving, knitting, cutting)										P	
M42	- packaging/distribution of prepared materials (non-food items)								P	P	P	
M43	Raw Materials Manufacture										C	17.04

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					**Office Zones**			**Indus-trial Zones**		**Special Use Standards (See identified Chapter or Section)**
	USE	**C-N**	**C-R**	**C-S**	**C-MU**	**D-MU**	**O-PA**	**O-C**	**BRP**	**I-L**	**I**	
M44	Stone mills/monument yards									C	P	
	Trucking, Warehousing, and Internet Fulfillment Centers											
M45	- combined office/warehouse-type buildings			P						P	P	
M46	- general warehousing & storage			P						P	P	
M47	- local bus charter			P						P		
M48	- moving companies/trucking/storage			P						P	P	
M49	- refrigerated warehouses/storage			P						P	P	
M50	- school bus yards			P						P		
M51	- trucking & freight forwarding terminal			C						P	P	
M52	Massage Therapist	C	P		C	C	C	C				
	MEDICAL FACILITIES/SERVICES (for medical/dental offices see OFFICES)											
M53	Hospitals, Acute Care (general medical/surgical)					C	C					
M54	Ambulance Services/Medical Transport			C	C	C	C		C			
M55	Convalescent Hospitals / Senior Care Facilities / Nursing Homes				C	C	C					
M56	Clinics (medical group, urgent care/walk-ins, dental, rehabilitation)	C	C		C	C	C			C	C	
M57	Dialysis Centers and Blood Donation Centers		C	C	P	C	C			C		
M58	Hospices						C					
M59	Laboratories (medical testing & diagnostic)				P	C	C		P			
M60	Medical Equipment/supplies (oxygen, prosthetics, walkers, etc.)		P	P	P	P	P					
M61	Opticians - Dispensing	C			P	P	P					
M62	Psychiatric Hospitals, including Treatment of Substance Abuse						C					

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
M63	Residential Alcohol/Substance Abuse Treatment Facility						C					
M64	Rehabilitation Hospitals				C	C	C					
M65	Museums (special interest/historical-public/private)		C			C	C					
	N											
	O											
	OFFICES											
	General Business and Professional (i.e., data processing services, employment agencies, insurance agencies, etc.)											
O1	- less than 2,000 sq. ft.	P	P	P	P	P	P	P	P			
O2	- 2,000 sq. ft. to 6,000 sq. ft.	C	P	C	P	P	P	P	P			
O3	- more than 6,000 sq. ft.	C	C	C	P	P	P	P	P			
O4	- up to 25% of total leased area for center	P	P				P	P	P			
O5	- more than 25% of total leased area for center	C	C				C	C	C			
O6	Medical (i.e., Physical therapists, physicians/surgeons, dentists/ orthodontists, optometrists, chiropractors, etc.)	C	C		P	P	P	P				
O7	Counseling/psychologist - individuals	C	C		P	P	P	P				
O8	Counseling/psychologist - groups	C	C		P	C	P	C				
O9	Offices Associated with Industrial Uses (not exceeding 25% of total building area)			P					P	P	P	
O10	Temporary Trailers (construction)	T	T	T	T	T	T	T	T	T	T	
	P											
P1	Parcel Delivery Services / Parcel Distribution (UPS, Federal Express, etc.)			P	P		C			P		
P2	Parking Facilities For Off-Site Uses		C	P	P	C	C		C	C	C	

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
P3	Park & Ride	C				C			C	P	P	
	PHOTOCOPY SERVICES / DESKTOP PUBLISHING											
P4	With Printing Press		P		C	C	C		P	P		
P5	Without Printing Press	P	P		P	P	P	P	P	P		
	PHOTOGRAPHY / PHOTO SERVICES											
P6	Photography Studio	P	P	C	P	P	C	P				
P7	Photography Labs/Blue Printing/Microfilming (developing, printing - no retail on site)			P	P	C	C		P	P		
P8	Photography labs (developing, printing - no retail on site)			P	P	C			P	P		
P9	Photography Labs with Retail on Site	P	P	P	P	P						
P10	Planned Unit Developments	C	C	C	C	C	C	C	C	C	C	17.26
P11	Private Clubs and Lodges		C		C		C					17.32.115
P12	Private Postal Service (Mail Boxes, Mailing Service) (See Also Parcel Delivery Services)	P				P				P		
	PUBLIC COMMUNITY SERVICES											
P13	Community & Recreation Centers	C			C	C						
P14	Community Gardens	C			C	C						
P15	Fire Stations	C	P	C	C	C	P		C	P	P	
P16	Police Stations & Substations	C	P	P	P	P	P		P	P	P	
P17	Post Offices					C	P					
P18	Public Buildings, Offices & Grounds	C	P		C	P	C		C			
P19	Public Golf Courses/Driving Ranges											
P20	Public Libraries	C			C	P	C		C			
P21	Public Parks/Playgrounds	C		C	C	P						
P22	Post Office Substations	C	P		P	P	P		P	P		
	Q											
	R											
	RAILROADS											

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
R1	Freight Stations, Repair & Yards									C	C	
R2	Passenger Stations					C						
	RECREATION FACILITIES											
R3	Athletic and Health Clubs (gymnasiums, fitness centers, racquet clubs)	C	C		C	C	C		C			
R4	Athletic and Health Clubs (gymnasiums, fitness centers, racquet clubs) less than 5,000 sq. ft.	P	P	P	P	P	P		P	P		
R5	Aquatic Centers	C	C		C	C	C		C			
R6	Private Libraries					P			C			
R7	Athletic/Playing Fields				C							
R8	Bowling Alleys		C		C	C						
R9	Circus, Carnivals, Fairs & Festivals, Revivals/Assemblies		T	T	T	T			T	T		
R10	Dance, Yoga & Music Studios	P	P	P	P	P	P		P	P		
R11	Martial Arts	P	P	P	P	P	P		P	P		
R12	Golf Courses & Driving Ranges				C							
R13	Miniature Golf Courses		C		C							
R14	Ice & Roller Skating Rinks		C		C							
R15	Pool Halls/Billiard Parlors	C	C		C	C						
R16	Video Machines/Coin-Operated Games - 1 to 4 machines	P	P		P	P			P			17.32.120
R17	Video Machines/Coin-Operated Games - 5 or more machines	C	C		C	C						17.32.120
R18	Other Recreational Facilities	C	C	C	C	C			C	C	C	
R19	Rifle and Pistol Range, indoor	C	C	C	C	C			C	C	C	
	RECYCLING FACILITIES											
R20	Heavy Processing			C						C	P	17.32.160
R21	Light Processing			C						P	P	17.32.160
R22	Large Collection			C						P	P	17.32.160
R23	Small Collection	C	C	C	C					P	P	17.32.160

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
R24	Reverse Vending Machines	P	P	P	P	P			P	P	P	17.32.160
R25	Temporary Facilities, i.e. recycling of Christmas trees, tree trimmings, etc.		T	T	T					T	T	17.32.160
R26	Household Hazardous Waste Collection Center			P						P		17.32.160
	RESIDENTIAL (see also Residential Zones)											
R27	Residential Units, New or Expansions, which may or may not be associated with a commercial activity	C	C	C	C	C	C	C	C	C	C	
R28	Group/Foster Homes, Licensed - 1 - 6 individuals in addition to residing family						C					
R29	Group/Foster Homes, Licensed - more than 6 individuals						C					
R30	Emergency Shelters									P		
R31	Emergency/Temporary Housing					C				C	C	
R32	Household Pets	P	P	P	P	P	P	P	P	P	P	
R33	Single Room Occupancy (SRO) units					C						
	RETAIL											
	General Merchandise											
R34	- less than 4,000 sq. ft.	P	P		P	P			C			
R35	- 4,000 to 6,000 sq. ft.	P	P		P	P						
R36	- 6,001 to 40,000 sq. ft.	C	P		P	P						
R37	- 40,001 to 60,000 sq. ft.		P		P	C						17.32.050
R38	- over 60,000 sq. ft.		P		C	C						
	Building/Landscape Materials											
	- lumberyards (see MANUFACTURING/ ASSEMBLING)											
R39	- fencing stores/yards			P						P		
R40	- floor & wall coverings	C	P	P	P	P						
R41	Garden Centers/Nurseries - located within primary use	P	P	P	P							

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					**Office Zones**			**Indus-trial Zones**		**Special Use Standards (See identified Chapter or Section)**
	USE	**C-N**	**C-R**	**C-S**	**C-MU**	**D-MU**	**O-PA**	**O-C**	**BRP**	**I-L**	**I**	
R42	Garden Centers/Nurseries - stand alone	C		P	C					P		
R43	Glass Stores (windows, etc. for auto, residential, commercial)			P	P							
R44	Hardware Stores including lumberyards			P								
R45	Hardware Stores 10,000 square feet or more					P						
R46	Hardware Stores less than 10,000 square feet	P		P	P	P						
R47	Paint Stores		P	P	P							
R48	Home Improvement		P	P	P							
	Drugstore/Pharmacy											
R49	- including general retail merchandise	P	P		P	P	C					17.32.050 17.32.055
R50	- not including general retail merchandise, 1,500 sq. ft. or more	P	P		P	P	P		P			
R51	- not including general retail merchandise, up to 1,500 sq. ft.	P	P		P		P					
R52	Farm Equipment Sales			P						P		
R53	Feed Stores			P	C							
	Food Stores											
R54	- convenience store - 7000 sq. ft. or less	C	C	C	C	C			C	C	C	
R55	- liquor store within 300 feet of residential/public use		C		C	C						
R56	- liquor store not within 300 feet of residential/public use	C	C		C	P						In C-R zone, 5,000 sq. ft minimum building area in per Ordinance 2012-08
R57	- specialty food stores (bakery, delicatessen, butcher shop, meat market, health food, gourmet/imported food, etc.)	P	P		P	P	C		C			17.32.050

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		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
R58	- supermarkets/grocery stores	P			P	P						17.32.050
R59	-wine tasting with sales	C	P	C	C	C			C	C	C	
R60	Furniture & Furnishings - new		P	P	P	P						
R61	Furniture & Furnishings - secondhand *up to 10,000 square feet	P	P	P	P	P						
R62	Gun Shops - within primary use	P	P		P	P						
R63	Gun Shops - stand alone		P		P	P						
	Magazine/Newspaper Sales (Freestanding Booth/Stand/ Kiosk)											
R64	- indoor	C	P	P	P	P	P		P			
R65	- outdoor	C	C	C	C	C	C		C			
	Outlet Stores											
R66	- bakery				P							
R67	- apparel		P		P							
R68	- furnishings				P							
R69	Pawnshops				C	C						
R70	Pet Stores	P	P		P	P						17.32.050
R71	Pool/Spa Supplies/Equipment	P	P	P	P	P				P		17.32.050
R72	Secondhand Store/Thrift Shops - up to 2,000 square feet		P		P	P						
R73	Secondhand Store/Thrift Shops - greater than 2,000 square feet		P		P	C						
R74	Smoke Shops (retail of cigarettes and smoke devices / paraphernalia)				C	C						
	S											
	SCHOOLS, PUBLIC AND PRIVATE (see also Quasi-Public and Residential Zones)											
S1	Preschool/After-School Care	C			C	C	C	C				
S2	Elementary Schools, K-6 or K-8	C	C	C	C	C	C					
S3	Middle Schools	C	C	C	C	C	C					
S4	High Schools	C	C	C	C	C	C					
S5	Colleges/Universities (academic)		C		C	C			C			

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					**Office Zones**			**Indus-trial Zones**		**Special Use Standards (See identified Chapter or Section)**
	USE	**C-N**	**C-R**	**C-S**	**C-MU**	**D-MU**	**O-PA**	**O-C**	**BRP**	**I-L**	**I**	
S6	Business, Trade, Vocational, Charter or other Specialized Schools		C	C	C	C	C		C	C	C	
S7	After Hours Academic Education Facilities (After 6:00 p.m.)		C		C	C	P		P			
S8	Tutoring Centers	C	C		C	C	C					
	SERVICE, COMMERCIAL											
S9	Air Conditioning Shops			P						P		
S10	Appliance, Electrical Equipment, Tools (disassemble & repair)	P		P	P	P						
S11	Check-Cashing Service	C	C		C	C						
S12	Chemical Stripping/Powder Coating			P						P	P	
S13	Chrome & Anodizing Shops			P						P	P	
S14	Courier Services			P	P	P	C		P			
S15	Auction House			C						C		
S16	Bail Bonds				C	C	C					
S17	Equipment Rental – conducted outdoors			P	C					P		
S18	Equipment Rental – conducted indoors		P	P	P	P				P		
S19	Exterminators/Fumigators			P						P		
S20	Gunsmith Shops, including incidental retail			P	P	C				P		
S21	Heavy Machinery and Equipment (welding, cutting, grinding, casting, etc.)			P						P	P	
S22	Janitorial Service			P								
S23	Lawn Maintenance & Tree Trimming			P						P		
S24	Locksmiths	P	P	P	P	P						
S25	Other Household & Maintenance Services			P						C		
S26	Pet Grooming / Dog Training (conducted indoors)	P	P	P	P	P						
S27	Printing Service (see also Photocopy Services)	C			P	C						

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
S28	Repair Shops (tools, non-automotive, mechanical equipment)			P						P		
S29	Sharpening Service - tools, knives, saw blades, lawn mowers, etc.			P						P		
S30	Sharpening Service - small tools not including saw blades and lawn mowers	P		P	P					P		
S31	Sheltered Workshops	C		P	C				C	P		
S32	Shoe Repair Shops	P	P	P	P	P						
S33	Sign Painting & Fabrication			P						P		
S34	Taxidermists			P						P		
S35	Tailor, Dressmaking, & Alterations	P	P	P	P	P						
S36	Upholstering Shops (furniture only)			P	P					P		
S37	Upholstering Shops - Showroom with minimum 35% of gross receipts to be retail sales					C						
	SERVICE STATIONS											
S38	Fuel dispensing only - not including major auto repair services of any kind	C	C	P	C	C			C	P		
S39	Also including major auto repair services		C	P	C					C		
S40	Also including light servicing of trucks			P						C		
S41	Storage, Sorting, Collection, Or Bailing of Iron, Junk, Paper, Rags, Or Scrap (Not Including Auto Dismantling)											
S42	Storage Tanks, Non-Fuel									P	P	
S43	Swap Meets										C	
	T											
T1	Taxi/Limousine Service			P	P	P			P			
	THEATERS											
T2	Auditoriums		C			C						
T3	Drive-in				C							
T4	Movie		C		C	C						
T5	Live Performance		C		C	P						

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
	U											
U1	Unenclosed Solid Waste Transfer Stations										C	
	UTILITIES											
U2	Business Offices		P	P	P	P	P		P			
U3	Electric Distribution Substations	C	C	C	C		C	C	C	C	P	
U4	Elevated Pressure Tanks	C	C	P	P		C		C	P	P	
U5	Gas Regulator Stations	C	C	P	C	C	C		C	P	P	
U6	Public Service Pumping Stations	C	C	P	C		C		C	P	P	
U7	Payment Centers	P			P	P	P		P			
U8	Public Utility Service Yards			P	C					P		
	V											
	VETERINARY SERVICES											
V1	Animal Care Clinic (no boarding)	P	C	P	P		C			P		
V2	Hospitals/Clinics (located 500 ft. from a residential zone including short term boarding of animals)	C		C	C					P		
	W											
W1	Wholesale Commercial Establishment			P						P		
	WAREHOUSING/STORAGE											
W2	- primary use									P	P	
W3	- not to exceed 20% of gross floor area of permitted use	P	P	P	P	P			P	P	P	
W4	- in excess of 20% of gross floor area of permitted use	C	C	C	C	C			C	P	C	
W5	Mini Storage Facilities			P	C					P	C	
	X											
	Y											
	Z											
	OTHER											

	Commercial, Mixed Use, Office, and Industrial Zones Use Matrix P = Use is Permitted by Right C = Use Requires Conditional Use Permit T = Use Requires Temporary Use Permit Blank = Use is Not Allowed											
		Commercial and Mixed Use Zones					Office Zones			Indus-trial Zones		Special Use Standards (See identified Chapter or Section)
	USE	C-N	C-R	C-S	C-MU	D-MU	O-PA	O-C	BRP	I-L	I	
OT1	Other Uses Similar in Nature and Intensity as Determined by the City Planner	P	P	P	P	P	P	P	P	P	P	
OT2	Other Uses Similar in Nature and Intensity as Determined by the City Planner Subject to the Granting of a Conditional Use Permit	C	C	C	C	C	C	C	C	C	C	

VISALIA MUNICIPAL CODE
CHAPTER 17.38 - Conditional Use Permits

17.38.010 Purposes and powers

In certain zones conditional uses are permitted subject to the granting of a conditional use permit. Because of their unusual characteristics, conditional uses require special consideration so that they may be located properly with respect to the objectives of the zoning ordinance and with respect to their effects on surrounding properties. In order to achieve these purposes and thus give the zone use regulations the flexibility necessary to achieve the objectives of this title, the planning commission is empowered to grant or deny applications for conditional use permits and to impose reasonable conditions upon the granting of such permits.

17.38.020 Application procedures

A. Application for a conditional use permit shall be made to the planning commission on a form prescribed by the commission which shall include the following data:

1. Name and address of the applicant;
2. Statement that the applicant is the owner of the property or is the authorized agent of the owner;
3. Address and legal description of the property;
4. The application shall be accompanied by such sketches or drawings as may be necessary by the planning division to clearly show the applicant's proposal;
5. The purposes of the conditional use permit and the general description of the use proposed;
6. Additional information as required by the historic preservation advisory committee.
7. Additional technical studies or reports, as required by the Site Plan Review Committee.
8. A traffic study or analysis prepared by a certified traffic engineer, as required by the Site Plan Review Committee or Traffic Engineer, that identifies traffic service levels of surrounding arterials, collectors, access roads, and regionally significant roadways impacted by the project and any required improvements to be included as a condition or mitigation measure of the project in order to maintain the required services levels identified in the General Plan Circulation Element.

B. The application shall be accompanied by a fee set by resolution of the city council sufficient to cover the cost of handling the application.

17.38.030 Lapse of conditional use permit

A conditional use permit shall lapse and shall become void twenty-four (24) months after the date on which it became effective, unless the conditions of the permit allowed a shorter or greater time limit, or unless prior to the expiration of twenty-four (24) months a building permit is issued by the city and construction is commenced and diligently pursued toward completion on the site which was the subject of the permit. A permit may be renewed for an additional period of one year; provided, that prior to the expiration of twenty-four (24) months from the date the permit originally became effective, an application for renewal is filed with the planning commission. The commission may grant or deny an application for renewal of a conditional use permit. In the case of a planned residential development, the recording of a final map and improvements thereto shall be deemed the same as a building permit in relation to this section.

17.38.040 Revocation

Upon violation of any applicable provision of this title, or, if granted subject to a condition or conditions, upon failure to comply with the condition or conditions, a conditional use permit shall be suspended automatically. The planning commission shall hold a public hearing within sixty (60) days, in accordance with the procedure prescribed in Section 17.38.080, and if not satisfied that the regulation, general provision or condition is being complied with, may revoke the permit or take such action as may be necessary to insure compliance with the regulation, general provision or condition. Appeals of the decision of the planning commission may be made to the city council as provided in Section 17.38.120.

17.38.050 New application

Following the denial of a conditional use permit application or the revocation of a conditional use permit, no application for a conditional use permit for the same or substantially the same conditional use on the same or substantially the same site shall be filed within one year from the date of denial or revocation of the permit unless such denial was a denial without prejudice by the planning commission or city council.

17.38.060 Conditional use permit to run with the land

A conditional use permit granted pursuant to the provisions of this chapter shall run with the land and shall continue to be valid upon a change of ownership of the site or structure which was the subject of the permit application subject to the provisions of Section 17.38.065.

17.38.065 Abandonment of conditional use permit

If the use for which a conditional use permit was approved is discontinued for a period of one hundred eighty (180) days, the use shall be considered abandoned and any future use of the site as a conditional use will require the approval of a new conditional use permit.

17.38.070 Temporary uses or structures

A. Conditional use permits for temporary uses or structures may be processed as administrative matters by the city planner and/or planning division staff. However, the city planner may, at his/her discretion, refer such application to the planning commission for consideration.

B. The city planner and/or planning division staff is authorized to review applications and to issue such temporary permits, subject to the following conditions:

   1. Conditional use permits granted pursuant to this section shall be for a fixed period not to exceed thirty (30) days for each temporary use not occupying a structure, including promotional enterprises, or six months for all other uses or structures.

   2. Ingress and egress shall be limited to that designated by the planning division. Appropriate directional signing, barricades, fences or landscaping shall be provided where required. A security officer may be required for promotional events.

   3. Off-street parking facilities shall be provided on the site of each temporary use as prescribed in Section 17.34.020.

   4. Upon termination of the temporary permit, or abandonment of the site, the applicant shall remove all materials and equipment and restore the premises to their original condition.

5. Opening and closing times for promotional enterprises shall coincide with the hours of operation of the sponsoring commercial establishment. Reasonable time limits for other uses may be set by the city planner and planning division staff.
6. Applicants for a temporary conditional use permit shall have all applicable licenses and permits prior to issuance of a conditional use permit.
7. Signing for temporary uses shall be subject to the approval of the city planner.
8. Notwithstanding underlying zoning, temporary conditional use permits may be granted for fruit and vegetable stands on properties primarily within undeveloped agricultural areas. In reviewing applications for such stands, issues of traffic safety and land use compatibility shall be evaluated and mitigation measures and conditions may be imposed to ensure that the stands are built and are operated consistent with appropriate construction standards, vehicular access and off-street parking. All fruits and vegetables sold at such stands shall be grown by the owner/operator or purchased by said party directly from a grower/farmer.
9. Fruit/Vegetable stands shall be subject to site plan review.

C. The City Planner shall deny a temporary use permit if findings cannot be made, or conditions exist that would be injurious to existing site, improvements, land uses, surrounding development or would be detrimental to the surrounding area.

D. The applicant or any interested person may appeal a decision of temporary use permit to the planning commission, setting forth the reason for such appeal to the commission. Such appeal shall be filed with the city planner in writing with applicable fees, within ten (10) days after notification of such decision. The appeal shall be placed on the agenda of the commission's next regular meeting. If the appeal is filed within five (5) days of the next regular meeting of the commission, the appeal shall be placed on the agenda of the commission's second regular meeting following the filing of the appeal. The commission shall review the temporary use permit and shall uphold or revise the decision of the temporary use permit, based on the findings set forth in Section 17.38.110. The decision of the commission shall be final unless appealed to the council pursuant to Section 17.02.145.

E. A privately owned parcel may be granted up to six (6) temporary use permits per calendar year.

17.38.080 Public hearing--Notice

A. The planning commission shall hold at least one public hearing on each application for a conditional use permit.

B. Notice of the public hearing shall be given not less than ten days nor more than thirty (30) days prior to the date of the hearing by mailing a notice of the time and place of the hearing to property owners within three hundred (300) feet of the boundaries of the area occupied or to be occupied by the use which is the subject of the hearing, and by publication in a newspaper of general circulation within the city.

17.38.090 Investigation and report

The planning staff shall make an investigation of the application and shall prepare a report thereon which shall be submitted to the planning commission.

17.38.100 Public hearing--Procedure

At the public hearing the planning commission shall review the application and the statement and drawing submitted therewith and shall receive pertinent evidence concerning the proposed use and the proposed conditions under which it would be operated or maintained, particularly with respect to the findings prescribed in Section 17.38.110. The planning commission may continue a public hearing from time to time as it deems necessary.

17.38.110 Action by planning commission

A. The planning commission may grant an application for a conditional use permit as requested or in modified form, if, on the basis of the application and the evidence submitted, the commission makes the following findings:

1. That the proposed location of the conditional use is in accordance with the objectives of the zoning ordinance and the purposes of the zone in which the site is located;
2. That the proposed location of the conditional use and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety or welfare, or materially injurious to properties or improvements in the vicinity.

B. A conditional use permit may be revocable, may be granted for a limited time period, or may be granted subject to such conditions as the commission may prescribe. The commission may grant conditional approval for a permit subject to the effective date of a change of zone or other ordinance amendment.

C. The commission may deny an application for a conditional use permit. (Prior code § 7536)

17.38.120 Appeal to city council

The decision of the City planning commission on a conditional use permit shall be subject to the appeal provisions of Section 17.02.145.

17.38.130 Effective date of conditional use permit

A conditional use permit shall become effective immediately when granted or affirmed by the council, or ten days following the granting of the conditional use permit by the planning commission if no appeal has been filed.

CITY OF VISALIA ORDINANCE NO. 2024-05
Massage Establishments – Urgency Ordinance

AN INTERIM ORDINANCE TO FURTHER REGULATE MASSAGE ESTABLISHMENTS

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF VISALIA:
SECTION 1. Consistent with its control over municipal affairs as a charter city and the powers vested in the City of Visalia through the California Constitution, the City of Visalia is authorized to secure and promote the public health, comfort, safety, and welfare of its citizenry. The City of Council of the City of Visalia hereby makes the followings findings:

A. The City of Visalia Municipal Code Title 5 defines "Massage establishment" as follows: *"means and includes any business enterprise or establishment, parlor, or any room, place or institution within a business establishment where massage is given or administered by a massage technician as a paid service"* and in addition, the City of Visalia Municipal Code Title 17 defines, *"Massage Therapy Establishment" as follows:* "*means an establishment offering massage, alcohol rub, fomentation, electric or magnetic treatment, or similar treatment or manipulation of the human body by a Certified Massage Therapist*."

B. The City of Visalia Municipal Code Title 17 currently permits Massage Therapists under the current City of Visalia Zoning Ordinance in the Neighborhood Commercial (C-N), Commercial Mixed Use (C-MU), Downtown Mixed Use (D-MU), Professional / Administrative Office (O-PA), and Office Conversion (O-C) zones within the City of Visalia with a Conditional Use Permit (CUP) issued under Visalia Municipal Code Chapter 17.38.

C. Recently the City of Visalia has seen an increase in requests for CUPs to operate Massage Establishments. In recent instances, such usages are proposed within close proximity to residential neighborhoods, junior college, and within shopping centers.

D. Although these recent instances of this proposed use near residential neighborhoods resulted in comments received that stated property owners concerns this type of use should not be placed in close proximity to schools and residential neighborhoods, the usage was allowed because the current City of Visalia Zoning Ordinance does not require buffering distance requirements regarding this type of commercial activity near schools and residential neighborhoods. The City Council has since considered whether a specific policy should be adopted and has determined that it would be in the interest of the public health, safety, or welfare to consider changes to the municipal code on how this type of business should be further regulated.

E. In 2008, the Legislature adopted Senate Bill 731, which created the California Massage Therapy Council, a state-organized nonprofit organization with regulatory authority over the certification of massage technicians and practitioners throughout the State of California which also limited the City' s regulatory authority over massage establishments that exclusively hire State-certified massage technicians, preempting most local licensure and permitting requirements and land use regulations and has been widely criticized by local agencies as providing massage businesses with almost unprecedented protection from local zoning and land use authority, and interfering with local law enforcement efforts to close massage businesses that allow prostitution and other illegal activities.

F. In response to the criticism against Senate Bill 731, Assembly Bill 1147 was enacted which allows local agencies to impose reasonable zoning, business licensing, and health and safety requirements on massage establishments, and the City of Visalia seeks to amend the Visalia Municipal Code to ensure that the City regulates massage establishments in compliance with the provisions of enacted State statutes.

G. The increase in requests for the operation of Massage Establishments that has occurred in recent years does not appear to be slowing, which has raised concerns of whether illicit uses are trying to create a business front for illicit activity and a proliferation of such types of uses could result in negative impacts to the public's peace, health, safety, and welfare.

H. The potential for criminal and unsafe activity at massage establishments is particularly concerning given that some massage establishments in the City are located within proximity to places where families congregate, such as restaurants and shopping areas.

I. Code enforcement and policing efforts have found that illegal massage operations that are shut down are often replaced by similar illegal massage operations in the same location. There are significant adverse impacts from allowing illegal massage operations to remain at a given site. Impacts include decreased consumer confidence in the legal operation of future massage establishments at a site, decreased consumer confidence in the neighboring businesses, and confusion among customers regarding any connection between the closed illegal operation and a new legal operation, and detrimental effects on all surrounding businesses.

J. The City Council finds and declares the illicit and illegal activities disguising as legitimate massage establishments in the City pose health and safety threats to operators, employees, patrons, surrounding businesses, and the public, in order to address this threat to public health and safety the City Council hereby finds the adoption of the proposed urgency interim zoning ordinance to be necessary while a more specific amendment to the Municipal Code is reviewed in the normal process by the City.

K. Further the City Council finds and declares that approving additional conditional use permits to allow additional Massage Establishments within close proximity of an existing Massage Establishment would potentially be in conflict with the stated goals of the City of Visalia General Plan and Zoning Ordinance to preserve and promote the public health, safety, and welfare of the city by creating conditions that would adversely impact the public's interest.

L. The City Council finds and declares that the ordinance regulations on Massage Business shall be adopted on an interim and immediate basis to protect the public health, safety, and welfare of the community while the more permanent regulations are reviewed in additional detail.

SECTION 2. While this interim ordinance is in effect the following regulatory standards shall apply as additional limitations and requirements under the Visalia Zoning Ordinance on a Massage Establishment and/or Massage Therapy Establishment as those terms are defined in Visalia Municipal Code. Businesses that are already operating under conditional use permits in areas that would be prohibited under these regulations may continue to operate as they would constitute legal non-conforming use.

A. In addition to Conditional Use Permit being required in the Neighborhood Commercial (C-N), Commercial Mixed Use (C-MU), Downtown Mixed Use (D-MU), Professional / Administrative Office (O-PA), and Office

Conversion (O-C) zones, a Conditional Use Permit shall be required for Massage Establishments/Therapist in the Regional Commercial (C-R) zone.

B. No Massage Establishment may be located within a radius of 750 feet of another Massage Establishment, as measured in a straight line, from the nearest point of the premises where said massage establishment is conducted to the nearest property line of any lot or legal parcel upon which a massage establishment is proposed to be located. Existing businesses operating a Massage Establishment that are already conducting business and in possession of all previously required licenses and/or permits for such business in the City of Visalia on the effective date of this emergency ordinance are considered existing non-conforming related to separation from all required sources as long as the permit is not revoked, or the business does not cease operation.

C. No Massage Establishment located in a building or structure with exterior windows fronting a public street, highway, walkway, or parking area shall block visibility into the interior reception and waiting area through the use of curtains, closed blinds, tints, or any other material that obstructs, blurs, or unreasonably darkens the view into the premises.

D. Doors. All front, reception, hallway, or front exterior doors except back or rear exterior doors used for employee entrance to and exit from the massage establishment) shall be kept unlocked during business hours. A massage establishment may lock its exterior doors during business hours if the establishment is owned by one individual with one or no employees. No massage may be given within any cubicle, room, booth, or any area within a massage establishment which is fitted with a door capable of being locked, unless the only door is an exterior door.

E. Minimum lighting consisting of at least one artificial light of not less than forty watts shall be provided and shall be operating in each room or enclosure where Massage Services are being performed on Clients, and in all areas where Clients are present.

F. Living Quarters Prohibited. No person or persons shall be allowed to reside, dwell, occupy or live inside a Massage Establishment at any time. Beds and floor mattresses shall not be permitted on the premises.

G. Inspections. The operator and/ or on duty Responsible Employee consents to the inspection of the massage establishment by the City's Building and Safety Division, Code Enforcement Division, Fire Department and Police Department and the County Health Department for the purpose of determining that the provisions of this ordinance or other applicable laws or regulations are met. The City' s Building and Safety Division, Code Enforcement Division, Fire Department and Police Department and the County Health Department may, from time to time, make unannounced inspections of each massage establishment for the purpose of determining that the provisions of this chapter, State law or other applicable laws or regulations are met.

H. No person shall enter, be or remain in any part of a Massage Establishment while in possession of an open container of alcohol, or consuming or using any alcoholic beverages or controlled drugs except pursuant to a prescription for such drugs. The Owner, Operator, or responsible managing Employee, shall not permit any such person, or any person who is clearly intoxicated, to enter or remain upon the premises.

I. No Massage Establishment shall operate a school of massage or use the same facilities as that of a school of massage.

SECTION 3. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this Ordinance, or its application to any person or circumstances, is for any reason held to be invalid or unenforceable, such invalidity or unenforceability shall not affect the validity or enforceability of the remaining sections, subsections, subdivision, paragraphs, sentences, clauses or phrases of this Ordinance, or its application to any other person or circumstance. The City Council of the City of Visalia hereby declares that it would have adopted each section, subsection, subdivision, paragraph, sentence, clause, or phrase hereof, irrespective of the fact that any one or more other sections, subsections, subdivisions, paragraphs, sentences, clauses, or phrases hereof be declared invalid or unenforceable.

SECTION 4. This Ordinance shall take effect immediately as an interim zoning ordinance under the provisions of California Government Code section 65858. It shall be of no further force and effect forty-five (45) days from its adoption unless it is extended pursuant to Government Code section 65858.

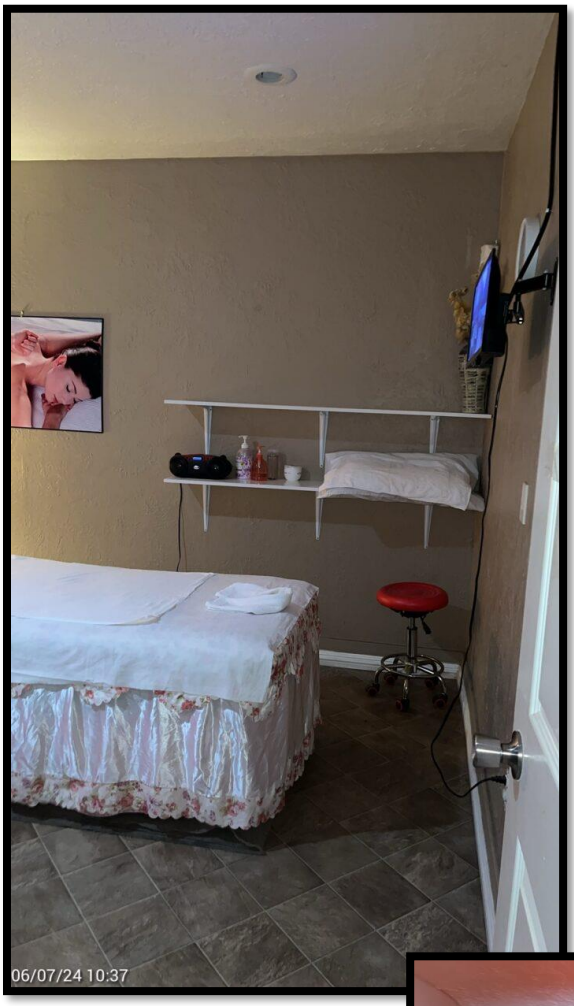
SECTION 5. The City Clerk shall certify to the passage and adoption of this Ordinance and shall cause the same to be published or posted as required by law.

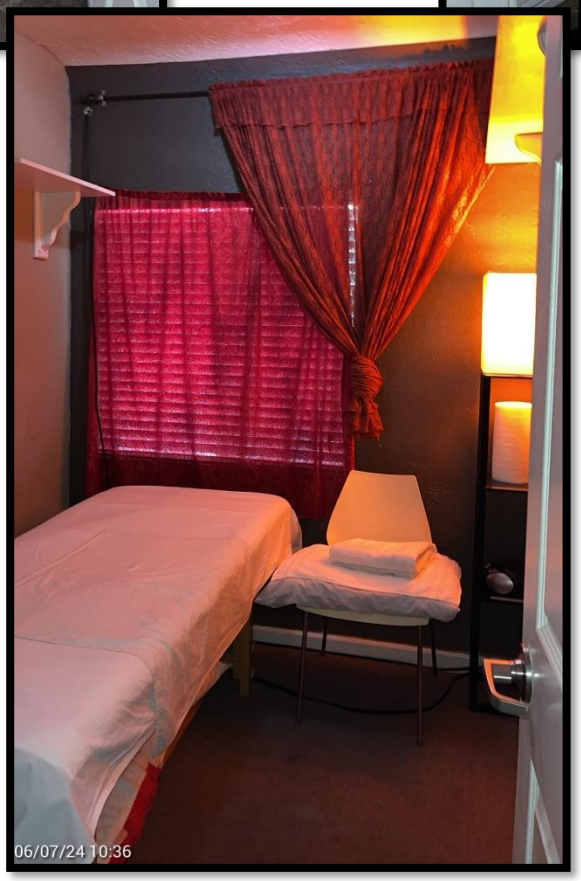
CONDITIONAL USE PERMIT NO. 2019-27

Conditions of Approval

1. That the project be developed in substantial compliance with the comments from the approved Site Plan Review No. 2019-100.
2. That the site be developed in substantial compliance with the approved site plan and floor plan as shown in Exhibits “A” and “B”.
3. That the site shall operate in substantial compliance with the operational statement as stated in Exhibit “C”, except that the hours of operation shall be Monday through Friday, 9:00am to 8:00pm, and Saturday through Sunday, 9:00am to 7:00pm.
4. That prior to operation of the massage parlor use the applicant shall obtain a Building Permit for the metal gate and fencing as depicted in Exhibit “A”, and that the gate shall remain unlocked and open during hours of operation.
5. That the applicant shall remove the existing storage container from the project site prior to operation of the massage parlor use.
6. That substantial changes to the site plan, floor plan, or operational statement may require an amendment to this Conditional Use Permit as determined through the Site Plan Review process
7. That all building signage shall require a separate building permit.
8. That all applicable federal, state and city laws, codes and ordinances be met.

Attachment “E”





PRICE LIST
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90 MINUTES $80
FOOT MASSAGE
30 MASSAGE $20
45 MASSAGE $30
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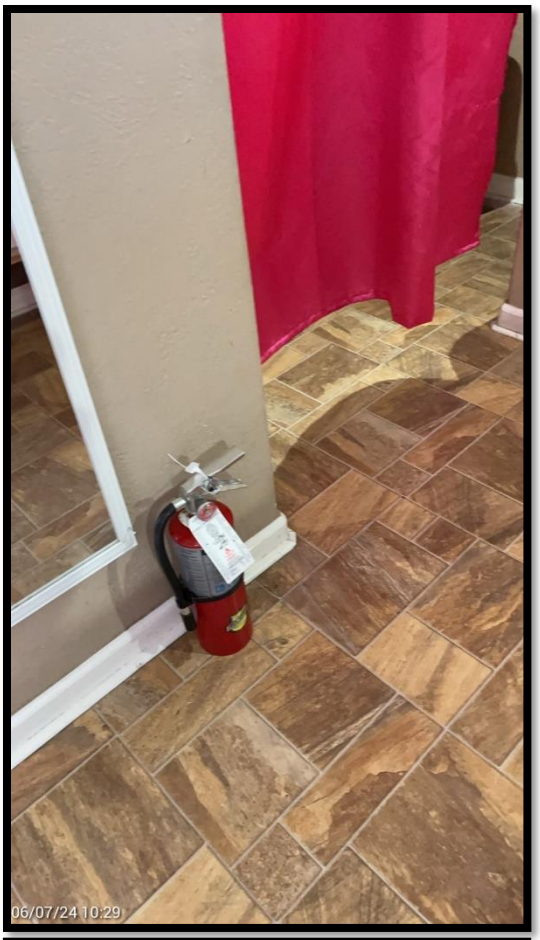
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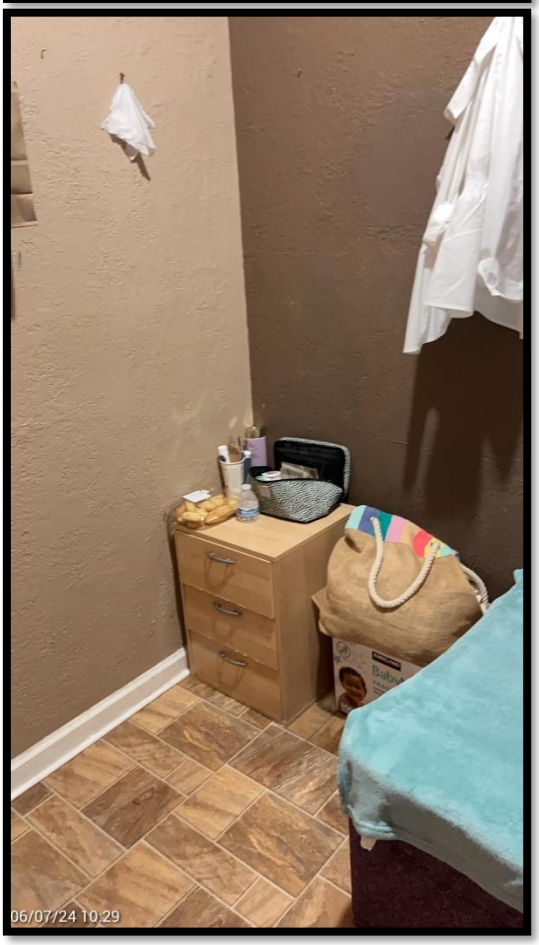
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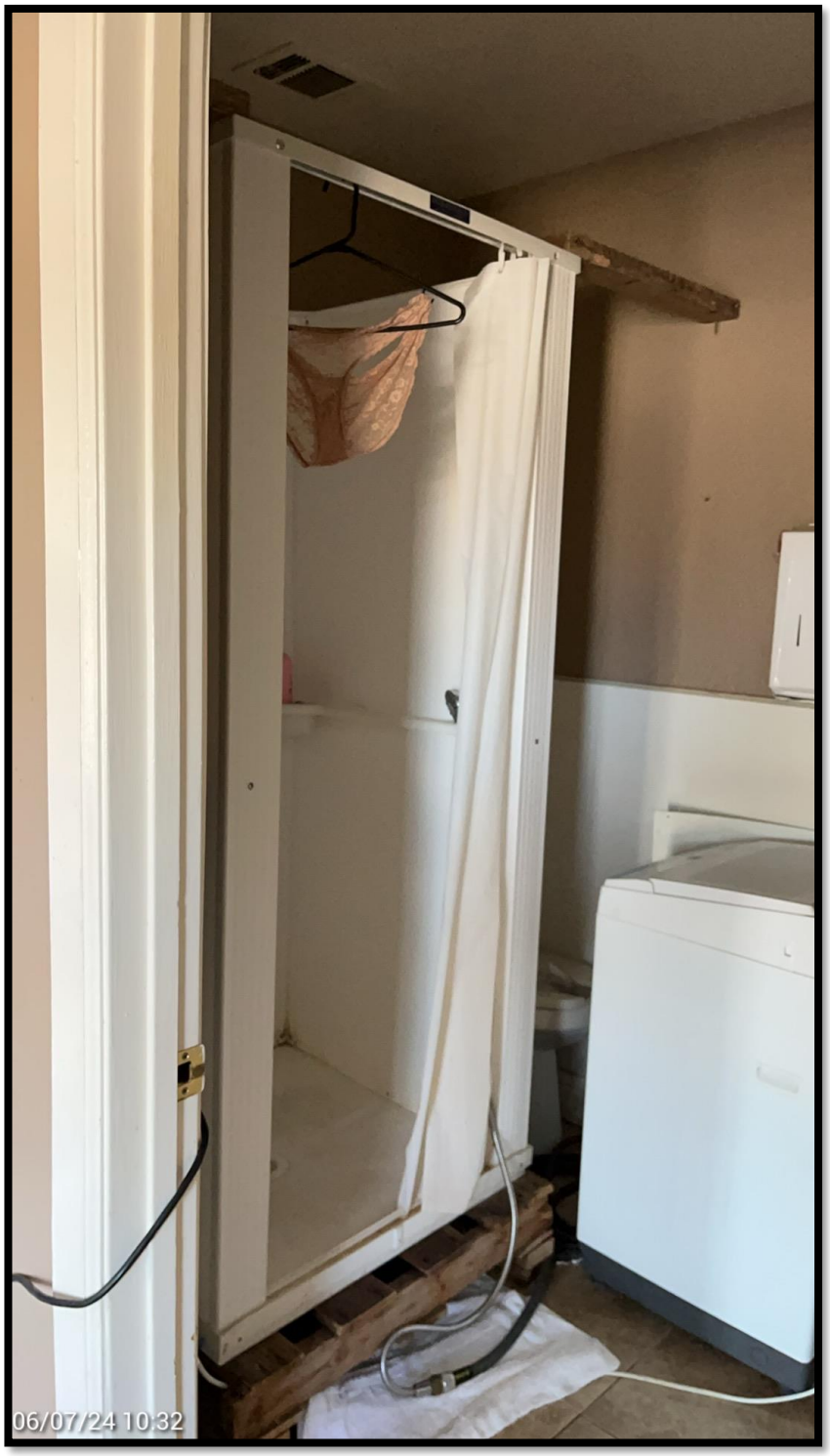
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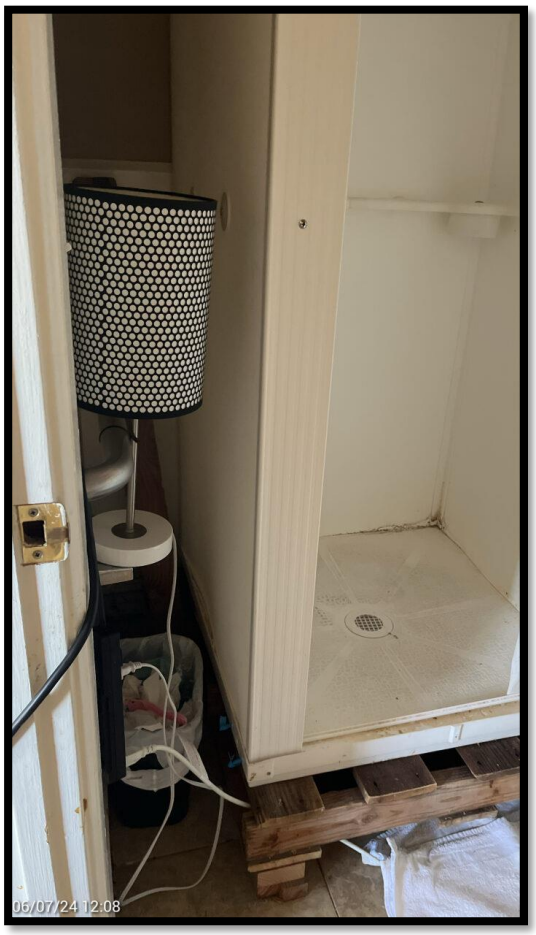
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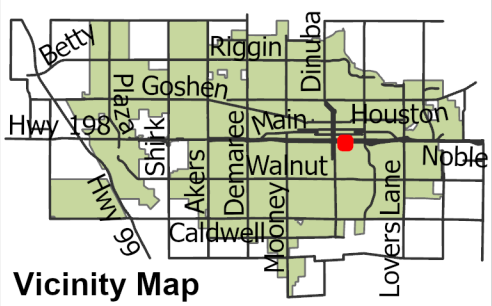


Vicinity Map

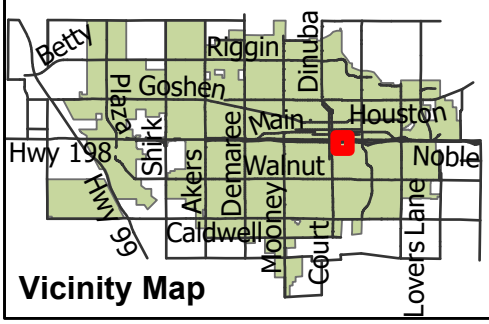
Aerial Map

0 0.01 0.02 0.04 Miles

N W E S

VISALIA

Founded 1852



Vicinity Map

Vicinity

0 0.02 0.04 0.09 Miles

N W E S

VISALIA

Founded 1852