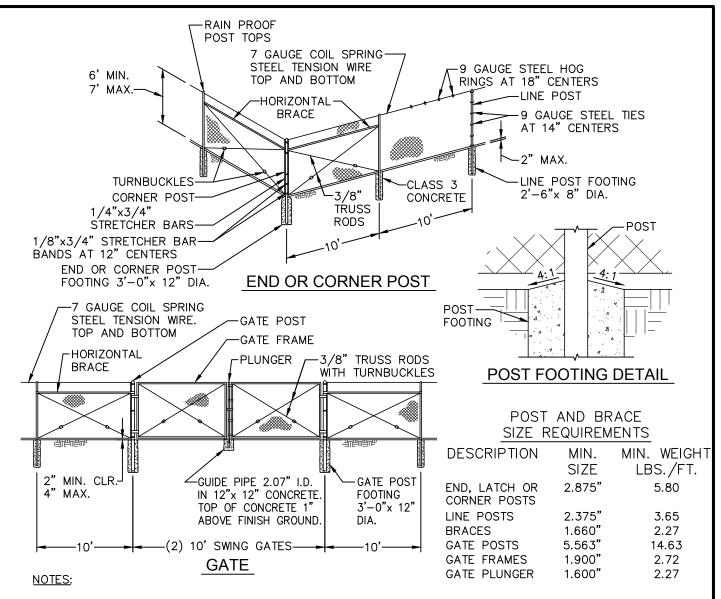


NOTES:

- POSTS, BRACES AND GATE FRAMES SHALL BE COMMERCIAL QUALITY, OR BETTER, WELDABLE STEEL. POST TOPS, STRETCHER BARS AND OTHER REQUIRED FITTINGS AND HARDWARE SHALL BE STEEL OR MALLEABLE IRON OR WROUGHT IRON.
- CHAIN LINK FABRIC SHALL BE 9 GAUGE WIRE WOVEN INTO APPROXIMATELY 2" MESH. FABRIC SHALL HAVE A KNUCKLE BOTTOM AND TWISTED TOP.
- LINE POSTS SHALL BE A MINIMUM OF 6'-0" LONG. GATE, END AND CORNER POSTS SHALL BE A MINIMUM OF 6'-6" LONG.
- GATE FRAMES SHALL BE CROSSED TRUSSED WITH 3/8" ADJUSTABLE TRUSS RODS. THE CORNERS OF GATE FRAMES SHALL BE FASTENED TOGETHER WITH A MALLEABLE IRON FITTING OR WELDED AND GALVANIZE COATED OVER WELDS.
- GATES SHALL BE HUNG BY AT LEAST TWO STEEL OR MALLEABLE IRON HINGES NOT LESS THAN THREE INCHES IN WIDTH AND SHALL HAVE A MALLEABLE CATCH AND LOCKING ATTACHMENT.
- ALL CHAIN LINK FENCE MATERIAL SHALL BE GALVANIZED.
- CHAIN LINK FENCING FOR SCREENING MAY BE REQUIRED BY THE CITY ENGINEER.
- VINYL COATING MAY BE REQUIRED BY THE CITY ENGINEER.
- 10. NARROWER GATE SIZES SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER.

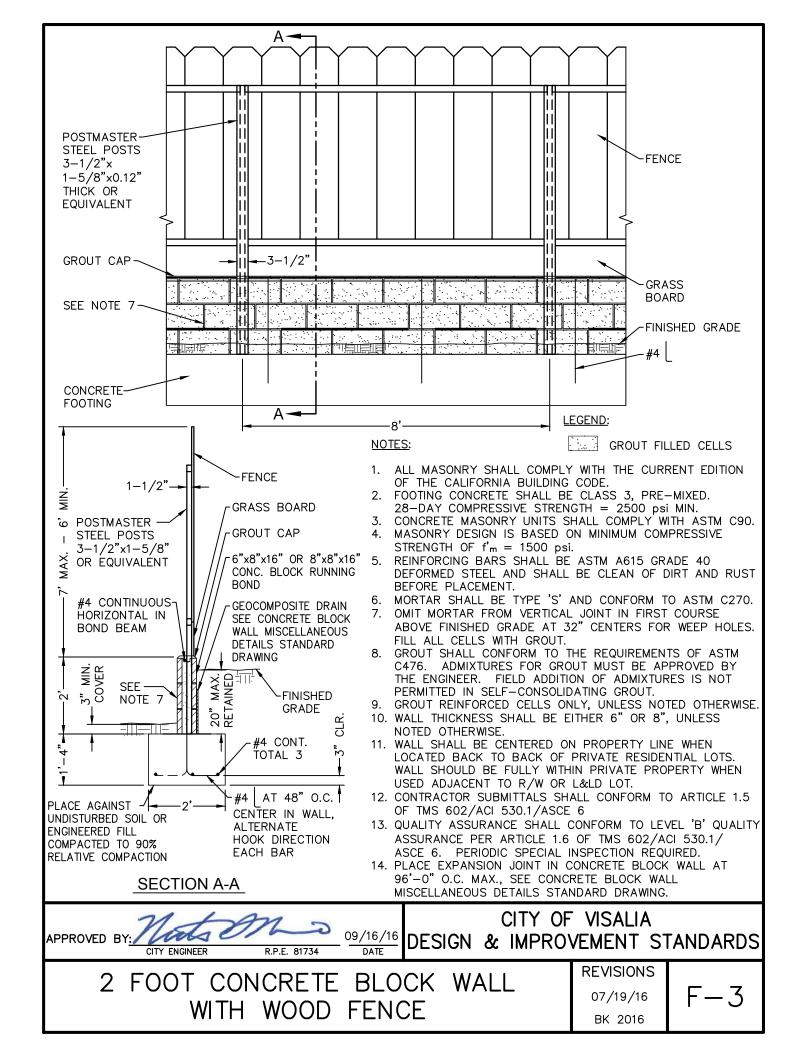
CITY OF VISALIA 09/16/16 APPROVED BY: DESIGN & IMPROVEMENT STANDARDS CITY ENGINEER R.P.E. 81734 DATE REVISIONS 4 FOOT TALL 07/19/16 CHAIN LINK FENCING BK 2016

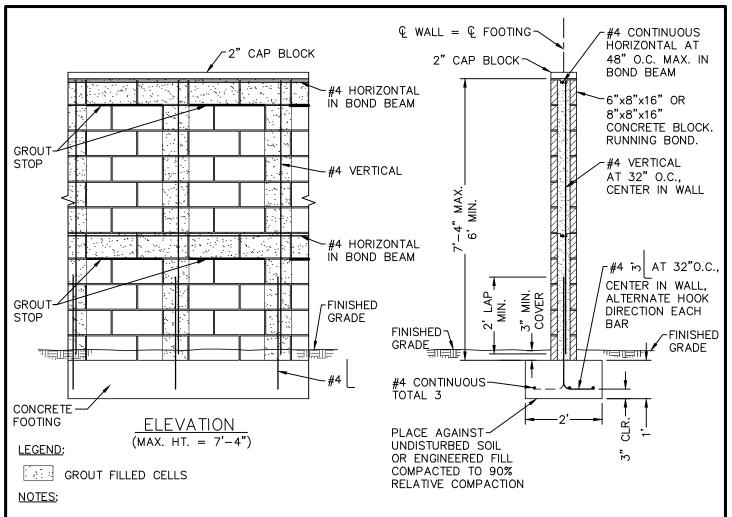


- POSTS, BRACES AND GATE FRAMES SHALL BE COMMERCIAL QUALITY, OR BETTER, WELDABLE STEEL.
- POST TOPS, STRETCHER BARS AND OTHER REQUIRED FITTINGS AND HARDWARE SHALL BE STEEL OR MALLEABLE IRON OR WROUGHT IRON.
- CHAIN LINK FABRIC SHALL BE 9 GAUGE WIRE WOVEN INTO APPROXIMATELY 2" MESH. FABRIC SHALL HAVE A KNUCKLE BOTTOM AND TWISTED TOP.
- FOR A 6' TALL FENCE, LINE POSTS SHALL BE A MINIMUM OF 8'-6" LONG. GATE, END AND CORNER POSTS SHALL BE A MINIMUM OF 9'-0" LONG.
- 5. END, CORNER, GATE AND LATCH POSTS SHALL BE BRACED TO THE NEAREST LINE POST WITH HORIZONTAL OR DIAGONAL BRACES USED AS COMPRESSION MEMBERS AND 3/8" STEEL TRUSS RODS WITH TURNBUCKLES USED AS TENSION MEMBERS.
- 6. GATE FRAMES SHALL BE CROSSED TRUSSED WITH 3/8" ADJUSTABLE TRUSS RODS. THE CORNERS OF GATE FRAMES SHALL BE FASTENED TOGETHER WITH A MALLEABLE IRON FITTING OR WELDED AND GALVANIZE COATED OVER WELDS.
- GATES SHALL BE HUNG BY AT LEAST TWO STEEL OR MALLEABLE IRON HINGES NOT LESS THAN THREE INCHES IN WIDTH AND SHALL HAVE A MALLEABLE CATCH AND LOCKING ATTACHMENT.
- ALL CHAIN LINK FENCE MATERIAL SHALL BE GALVANIZED.
- CHAIN LINK FENCING FOR SCREENING MAY BE REQUIRED BY THE CITY ENGINEER.
- 10. VINYL COATING MAY BE REQUIRED BY THE CITY ENGINEER.
- 11. NARROWER GATE SIZES SHALL BE SUBJECT TO APPROVAL BY THE CITY ENGINEER.

 12. 7' TALL FENCES MAY BE REQUIRED BY CITY ENGINEER. FOR A 7' TALL FENCE, LINE POSTS SHALL BE A MINIMUM OF 9'-6" LONG. GATE, END AND CORNER POSTS SHALL BE A MINIMUM OF 10'-0' LONG.





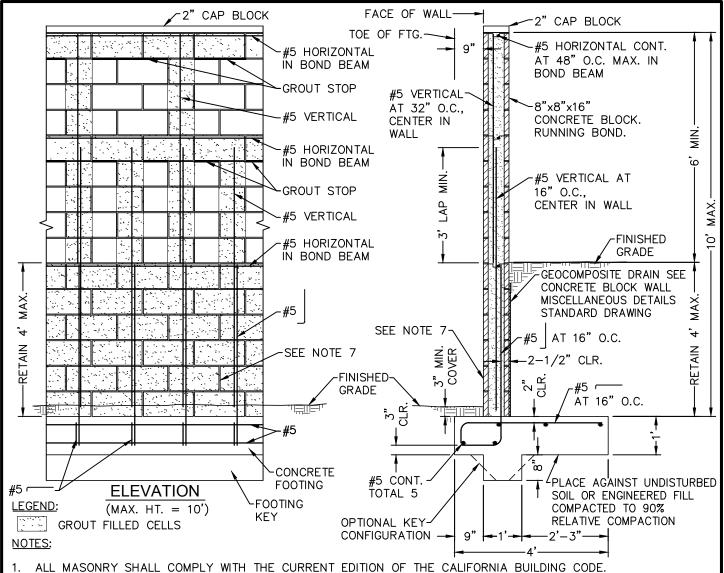


- ALL MASONRY SHALL COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA BUILDING CODE.
- 2. FOOTING CONCRETE SHALL BE CLASS 3, PRE-MIXED. 28-DAY COMPRESSIVE STRENGTH = 2500 psi MIN.
- 3. CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C90.
- 4. MASONRY DESIGN IS BASED ON MINIMUM COMPRESSIVE STRENGTH OF f'm = 1500 psi.
- 5. REINFORCING BARS SHALL BE ASTM A615 GRADE 40 DEFORMED STEEL AND SHALL BE CLEAN OF DIRT AND RUST BEFORE PLACEMENT.
- 6. MORTAR SHALL BE TYPE 'S' AND CONFORM TO ASTM C270.
- 7. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476. ADMIXTURES FOR GROUT MUST BE APPROVED BY THE ENGINEER. FIELD ADDITION OF ADMIXTURES IS NOT PERMITTED IN SELF-CONSOLIDATING GROUT.
- 8. GROUT REINFORCED CELLS ONLY, UNLESS NOTED OTHERWISE.
- GROUT STOP SHALL CONSIST OF METAL OR PLASTIC LATH APPROVED BY THE MANUFACTURER TO CREATE A BARRIER THAT STOPS THE FLOW OF GROUT WHEN FILLING BLOCK WALL CELLS.
- 10. WALL THICKNESS SHALL BE EITHER 6" OR 8", UNLESS NOTED OTHERWISE.
- 11. FINISHED GRADE ELEVATION DIFFERENCE ON OPPOSITE SIDES OF THE WALL SHALL BE 6" MAXIMUM.
- 12. BLOCK WALL SHALL HAVE PILASTERS OR A JOG IN PLAN EVERY 200 FT MIN. VENEERS OR OTHER ARCHITECTURAL FEATURES RECOMMENDED. LOAD ALLOWANCE FOR ARCHITECTURAL TREATMENT IS 90 plf.
- 13. CONTRACTOR SUBMITTALS SHALL CONFORM TO ARTICLE 1.5 OF TMS 602/ACI 530.1/ASCE 6
- 14. QUALITY ASSURANCE SHALL CONFORM TO LEVEL 'B' QUALITY ASSURANCE PER ARTICLE 1.6 OF TMS 602/ACI 530.1/ASCE 6. PERIODIC SPECIAL INSPECTION REQUIRED. CONTRACTOR SHALL CONTACT THE CITY FOR INSPECTIONS.
- 15. PLACE EXPANSION JOINT AT 96'-0" O.C. MAX., SEE CONCRETE BLOCK WALL MISCELLANEOUS DETAILS STANDARD DRAWING.
- 16. FOR ALTERNATE FOOTINGS, SEE CONCRETE BLOCK WALL ALTERNATE FOOTINGS STANDARD DRAWING.
- 17. INTERLOCKING BLOCKS ARE AN ACCEPTABLE ALTERNATIVE.
- 18. WHEN WALL IS BETWEEN PRIVATE PROPERTY AND L&LD LOT, THE WALL STEM SHALL BE FULLY WITHIN THE L&LD LOT WITH THE FACE OF THE WALL AT PROPERTY LINE. BLOCK WALL FOOTING EASEMENT WILL BE REQUIRED FOR PORTION OF FOOTING EXTENDING INTO PRIVATE PROPERTY.

APPROVED BY: 100 OP/16/16 DESIGN & IMPROVEMENT STANDARDS

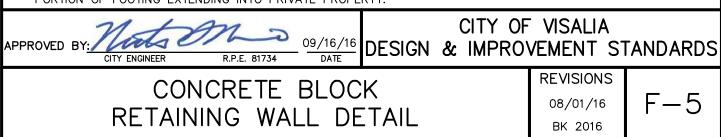
CONCRETE BLOCK WALL DETAIL 07/19/16 F-4

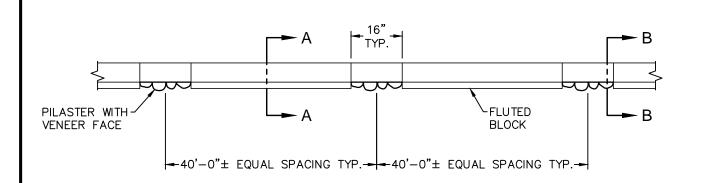
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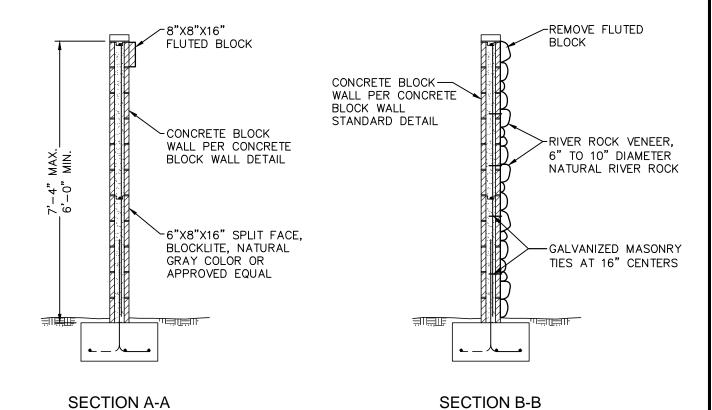


- FOOTING CONCRETE SHALL BE CLASS 3, PRE-MIXED. 28-DAY COMPRESSIVE STRENGTH = 2500 psi MIN. CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C90.
- MASONRY DESIGN IS BASED ON MINIMUM COMPRESSIVE STRENGTH OF f'm = 1500 psi. 4
- REINFORCING BARS SHALL BE ASTM A615 GRADE 40 DEFORMED STEEL AND SHALL BE CLEAN OF DIRT AND RUST BEFORE PLACEMENT
- MORTAR SHALL BE TYPE 'S' AND CONFORM TO ASTM C270.
- OMIT MORTAR FROM VERTICAL JOINT IN FIRST COURSE ABOVE FINISHED GRADE AT 32" CENTERS FOR WEEP FILL ALL CELLS WITH GROUT.
- GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476. ADMIXTURES FOR GROUT MUST BE APPROVED BY THE ENGINEER. FIELD ADDITION OF ADMIXTURES IS NOT PERMITTED IN SELF-CONSOLIDATING GROUT.
- 9. GROUT REINFORCED CELLS ONLY, UNLESS NOTED OTHERWISE.
 10. GROUT STOP SHALL CONSIST OF METAL OR PLASTIC LATH APPROVED BY THE MANUFACTURER TO CREATE A
- BARRIER THAT STOPS THE FLOW OF GROUT WHEN FILLING BLOCK WALL CELLS.

 11. BLOCK WALL SHALL HAVE PILASTERS OR A JOG IN PLAN EVERY 200 FT MIN. VENEERS OR OTHER
- ARCHITECTURAL FEATURES RECOMMENDED. LOAD ALLOWANCE FOR ARCHITECTURAL TREATMENT IS 90 plf.
- 12. CONTRACTOR SUBMITTALS SHALL CONFORM TO ARTICLE 1.5 OF TMS 602/ACI 530.1/ASCE 6
- 13. QUALITY ASSURANCE SHALL CONFORM TO LEVEL 'B' QUALITY ASSURANCE PER ARTICLE 1.6 OF TMS 602/ACI 530.1/ASCE 6. PERIODIC SPECIAL INSPECTION REQUIRED. CONTRACTOR SHALL CONTACT THE CITY FOR INSPECTIONS.
- 14. PLACE EXPANSION JOINT AT 96'-0"O.C. MAX., SEE CONCRETE BLOCK WALL MISCELLANEOUS DETAILS STANDARD DRAWING.
- 15. INTERLOCKING BLOCKS ARE AN ACCEPTABLE ALTERNATIVE.
 16. WHEN WALL IS BETWEEN PRIVATE PROPERTY AND L&LD LOT, THE WALL STEM SHALL BE FULLY WITHIN THE L&LD LOT WITH THE FACE OF THE WALL AT PROPERTY LINE. BLOCK WALL FOOTING EASEMENT WILL BE REQUIRED FOR PORTION OF FOOTING EXTENDING INTO PRIVATE PROPERTY.







NOTES:

- CONSTRUCTION REQUIREMENTS PER CONCRETE BLOCK WALL DETAIL SHOWN ON CONCRETE BLOCK WALL DETAIL STANDARD DRAWING.
- 2. FLUTED BLOCK AND RIVER ROCK VENEER ALSO COULD BE PLACED ON CONCRETE BLOCK RETAINING WALL DETAIL SHOWN ON CONCRETE BLOCK RETAINING WALL DETAIL STANDARD DRAWING. SEE CONCRETE BLOCK RETAINING WALL DETAIL STANDARD DRAWING FOR CONCRETE BLOCK RETAINING WALL FOOTING AND DIMENSION REQUIREMENTS.
- 3. UNIFORM HEIGHTS REQUIRED AT CURB RETURNS AND PEDESTRIAN ACCESS POINTS.

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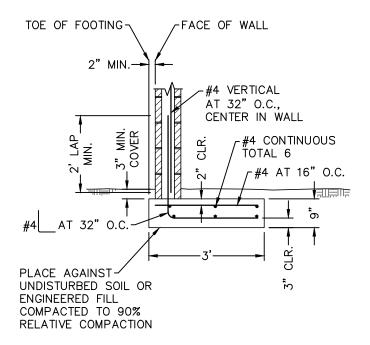
NORTHEAST AREA SPECIFIC PLAN CONCRETE BLOCK WALL

REVISIONS

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WALL SECTION ALTERNATE FOOTING 'A'

(NON-RETAINING) FOR USE UNDER OAK TREE

NOTES:

- 1. CONSTRUCTION REQUIREMENTS FOR CONCRETE BLOCK WALL SHOWN ON DETAIL CONCRETE BLOCK WALL DETAIL STANDARD DRAWING.
- 2. FOOTING CONCRETE SHALL BE CLASS 3, PRE-MIXED. 28-DAY COMPRESSIVE STRENGTH = 2500 psi MIN.
- REINFORCING BARS SHALL BE ASTM A615 GRADE 40 DEFORMED STEEL AND SHALL BE CLEAN OF DIRT AND RUST BEFORE PLACEMENT.
- 4. FINISHED GRADE ELEVATION DIFFERENCE ON OPPOSITE SIDES OF THE WALL SHALL BE 6" MAXIMUM.
- 5. ALTERNATE FOOTINGS MAY BE USED UPON ACCEPTANCE FROM THE CITY ENGINEER. ENGINEER TO PROVIDE FOOTING DESIGN CALCULATIONS TO CONFIRM ALTERNATE FOOTING CAN BE USED IN PLACE OF THE STANDARD FOOTING SHOWN ON CONCRETE BLOCK WALL DETAIL STANDARD DRAWING.
- 6. ALTERNATE FOOTING 'A' IS A SHALLOW FOOTING DETAIL FOR USE UNDER OAK TREE CANOPY. TRENCHING BY HAND IS REQUIRED WHEN USED WITHIN DRIP LINE OF AN OAK TREE.

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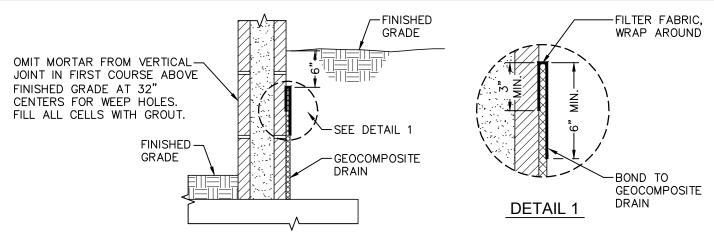
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CONCRETE BLOCK WALL ALTERNATE FOOTINGS

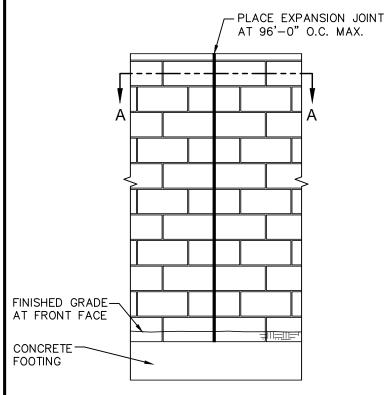
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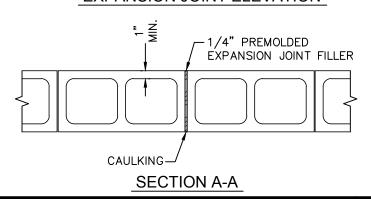
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GEOCOMPOSITE DRAIN DETAIL



EXPANSION JOINT ELEVATION



NOTES:

- 1. GEOCOMPOSITE DRAIN MUST CONSIST OF A POLYMERIC CORE WITH FILTER FABRIC INTEGRALLY BONDED TO ONE OR BOTH SIDES OF THE CORE CREATING A STABLE DRAINAGE VOID AND MUST BE BETWEEN 1/4 AND 2 INCHES THICK. WHEN TESTED UNDER ASTM D 4716 WITH A GRADIENT OF 1.0 AND NORMAL STRESS OF 5,000 PSF, THE TRANSMISSIVITY MUST BE 4 GAL/MIN/FT.
- 2. FILTER FABRIC MUST BE MANUFACTURED FROM POLYESTER, POLYPROPYLENE, OR COMBINED POLYESTER AND POLYPROPYLENE. WHEN TESTED UNDER ASTM D 4491, THE PERMITTIVITY MUST BE AT LEAST 0.5 SEC⁻¹. WHEN TESTED UNDER ASTM D 4751, THE AVERAGE APPARENT OPENING SIZE MUST BE A MAXIMUM OF US STANDARD NO. 40 SIEVE. WHEN TESTED UNDER ASTM D 6241, THE PUNCTURE STRENGTH MUST BE AT LEAST 310 LB. WHEN TESTED UNDER ASTM D 4533, THE TRAPEZOID TEARING STRENGTH MUST BE AT LEAST 56 LB.
- 3. INSTALL GEOCOMPOSITE DRAIN WITH FILTER FABRIC FACING THE DIRT SIDE.
- 4. FABRIC FACING THE DIRT SIDE MUST OVERLAP AT LEAST 3 INCHES AT ALL JOINTS AND WRAP AROUND THE EXTERIOR EDGES AT LEAST 3 INCHES BEYOND THE EXTERIOR EDGE.
- 5. IF ADDITIONAL FABRIC IS NEEDED TO PROVIDE OVERLAP AT JOINTS AND WRAPAROUND AT EDGES, THE ADDED FABRIC MUST OVERLAP AT LEAST 6 INCHES AND BE ATTACHED TO THE FABRIC ON THE GEOCOMPOSITE DRAIN.
- 6. IF THE FABRIC ON THE GEOCOMPOSITE DRAIN IS TORN OR PUNCTURED, REPLACE THE DAMAGED SECTION COMPLETELY OR REPAIR IT BY PLACING A PIECE OF FABRIC THAT IS LARGE ENOUGH TO COVER THE DAMAGED AREA AND PROVIDE AT LEAST A 6—INCH OVERLAP.

CITY OF VISALIA
DESIGN & IMPROVEMENT STANDARDS

CONCRETE BLOCK WALL MISCELLANEOUS DETAILS

REVISIONS 08/03/16

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