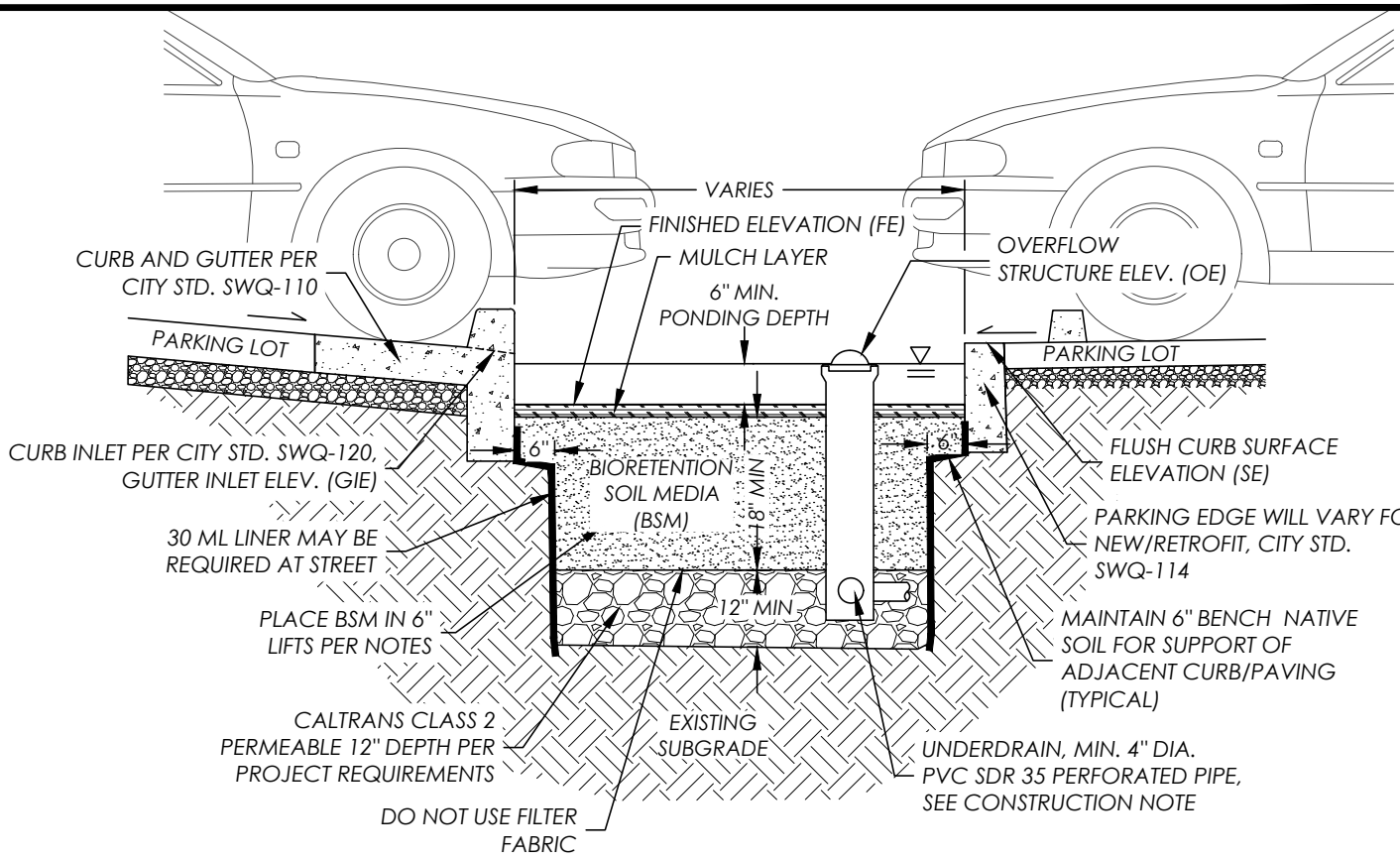

BIORETENTION DESIGN NOTES

1. *ADDITIONAL DESIGN GUIDANCE PROVIDED IN BIORETENTION FACILITY FIGURE 4.1 & 4.2 OF THE BASMAA POST CONSTRUCTION MANUAL.*
2. *OVERFLOW STRUCTURE REQUIRED FOR IN-LINE SYSTEMS WITHOUT OVERFLOW BYPASS, CITY STD. SWQ-140.*
3. *PROVIDE SPOT ELEVATIONS AT INLETS ON CIVIL PLANS (FE, OE, GIE, SE). SEE CITY STD. SWQ-120.*
4. *EDGE CONDITION WILL VARY FOR PARKING LOT PROJECTS. SEE PARKING LOT EDGE OPTIONS DETAIL SWQ-114. CURB AND FLUSH EDGE DETAILS MAY BE MODIFIED FOR PROJECT BY CIVIL AND GEOTECHNICAL ENGINEERS AND APPROVED BY PUBLIC WORKS DEPARTMENT.*
5. *IF CHECK DAMS ARE NEEDED, SEE CONCRETE CHECK DAM PER CITY STD. SWQ-131.*
6. *IF CALTRANS CLASS 2 PERMEABLE IS NOT AVAILABLE, SUBSTITUTE CLASS 3 PERMEABLE WITH AN OVERLYING 3" DEEP LAYER OF 3/4" (NO. 4) OPEN-GRADED AGGREGATE. (VERIFY WITH CITY OF NAPA CONSTRUCTION DIVISION)*
7. *BIORETENTION SOIL MEDIA (BSM) SPECIFICATION PER BASMAA POST CONSTRUCTION MANUAL.*
8. *PLANTING DESIGN AND IRRIGATION PER BASMAA POST CONSTRUCTION MANUAL APPENDIX F PLANT MATRIX.*
9. *MULCH (OPTIONAL) PER BASMAA POST CONSTRUCTION MANUAL APPENDIX F PLANT MATRIX.*
10. *LOCATE ENERGY DISSIPATION COBBLE ONLY AS SPECIFIED IN INLET DETAILS - AVOID DECORATIVE USE.*

CONSTRUCTION NOTES

1. *SCARIFY SUBGRADE BEFORE INSTALLING BIORETENTION AREA AGGREGATE AND BSM.*
2. *FACILITY EXCAVATION TO ALLOW FOR SPECIFIED SOIL AND MULCH DEPTHS TO ACHIEVE FINISHED ELEVATIONS ON CIVIL PLANS.*
3. *INSTALL UNDERDRAIN WITH HOLES FACING DOWN. UNDERDRAIN DISCHARGE ELEVATION SHALL BE NEAR TOP OF AGGREGATE LAYER. UNDERDRAIN SLOPE MAY BE FLAT.*
4. *COMPACT EACH 6" LIFT OF BSM WITH LANDSCAPE ROLLER OR BY LIGHTLY WETTING. IF WETTING, ALLOW TO DRY OVERNIGHT BEFORE PLANTING.*
5. *DO NOT WORK WITHIN BIORETENTION AREA DURING RAIN OR UNDER WET CONDITIONS.*
6. *KEEP HEAVY MACHINERY OUTSIDE BIORETENTION AREA LIMITS.*

CITY OF NAPA *PUBLIC WORKS DEPARTMENT*

PARKING LOT BIORETENTION FACILITY

(FLAT/PLANTER, WITH UNDERDRAIN)

DRAWN BY:	*LFM*	*CHECKED BY:*	*TCW*
DATE:	*06/2018*	*APPROVED BY:*	*JRL*
SCALE:	*NONE*	*DRAWING NO.*	*SWQ-204*
FIELD NOTES:			

G:\Pubwks\STORMWATER PROGRAM\E.12 Post Construction Stormwater Management Program\E.12.c-f_Site Design Measures\Post-Construction Standards\AutoCad Drawings\SWQ-204 - Parking Lot Planter underdrain.dwg