

MAINTENANCE NOTES:

1. STAKE WITH FLEXIBLE TIES FOR THE FIRST YEAR OR UNTIL TREE ESTABLISHED.
2. IRRIGATE TO ESTABLISH PLANTINGS PER LANDSCAPE DESIGNER. AT LEAST 1 INCH OF WATER PER WEEK FOR THE FIRST 3 YEARS.
3. CLEAN/REPLACE MULCH/ROCK ANNUALLY.
4. CLEAN/REPLACE CURB DRAINS ANNUALLY AND REMOVE DEBRIS AS NECESSARY.
5. INSPECT UNDERDRAIN ANNUALLY, CLEAN AS NECESSARY.

PROTECT BASAL ROOT FLARE REFER TO MUNICIPAL PLANTING DETAIL (DO NOT BURY)

ROOTBALL BASKET SHALL BE CUT TO REMOVE TOP 2/3 OF WIRE AND BURLAP

OBSERVATION WELL (SOLID ABOVE THE GROUND SURFACE)

VOLUME CONTROL SURFACE STORAGE HWL

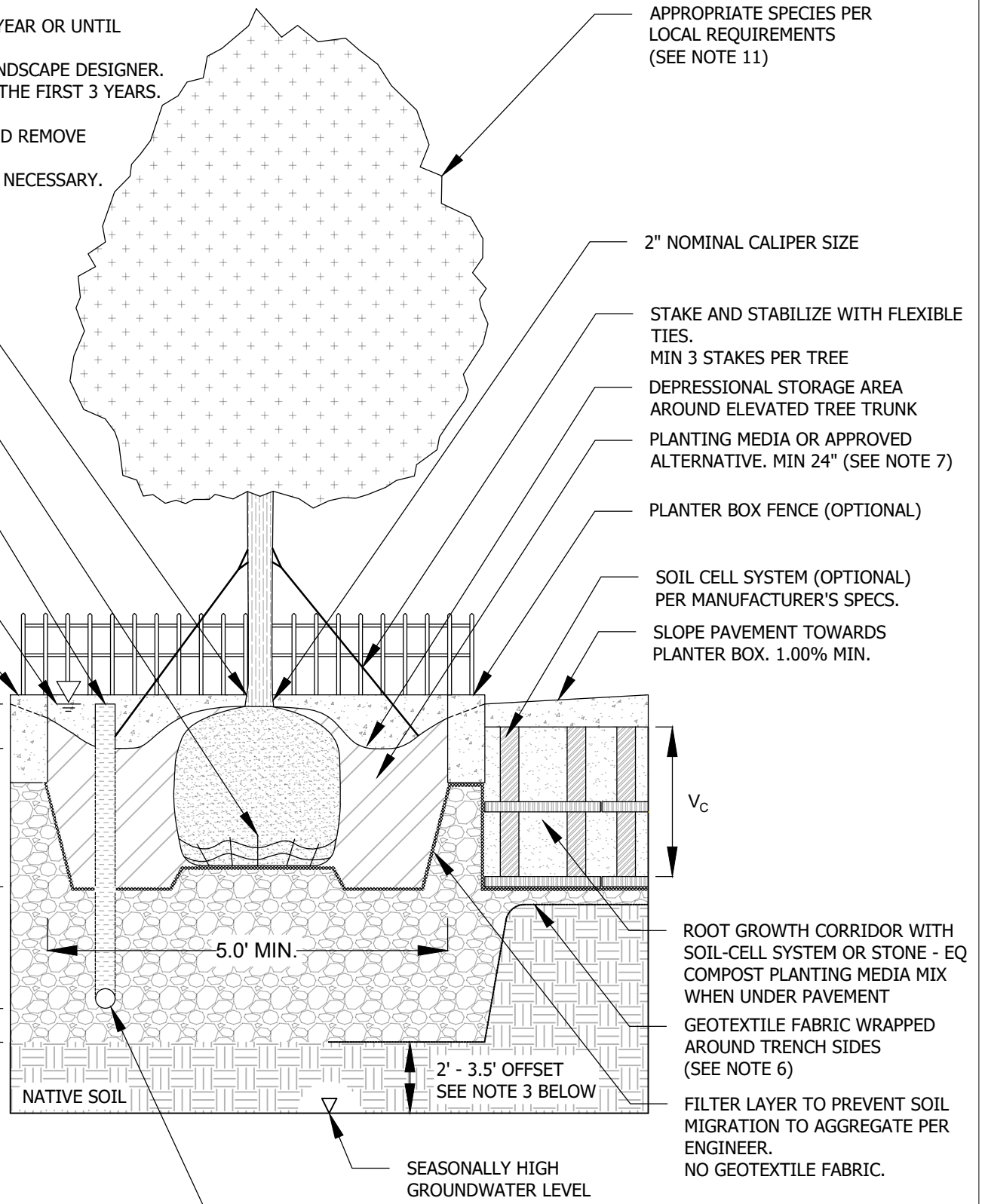
DEPRESSED CURB OPENING INTO STORMWATER PLANTER SYSTEM

SURFACE STORAGE 12" MAX. V_A

24" MIN. V_B

V_D

2" MIN. 12" MAX. V_E



APPROPRIATE SPECIES PER LOCAL REQUIREMENTS (SEE NOTE 11)

2" NOMINAL CALIPER SIZE

STAKE AND STABILIZE WITH FLEXIBLE TIES. MIN 3 STAKES PER TREE

DEPRESSIONAL STORAGE AREA AROUND ELEVATED TREE TRUNK

PLANTING MEDIA OR APPROVED ALTERNATIVE. MIN 24" (SEE NOTE 7)

PLANTER BOX FENCE (OPTIONAL)

SOIL CELL SYSTEM (OPTIONAL) PER MANUFACTURER'S SPECS.

SLOPE PAVEMENT TOWARDS PLANTER BOX. 1.00% MIN.

V_C

ROOT GROWTH CORRIDOR WITH SOIL-CELL SYSTEM OR STONE - EQ COMPOST PLANTING MEDIA MIX WHEN UNDER PAVEMENT

GEOTEXTILE FABRIC WRAPPED AROUND TRENCH SIDES (SEE NOTE 6)

FILTER LAYER TO PREVENT SOIL MIGRATION TO AGGREGATE PER ENGINEER. NO GEOTEXTILE FABRIC.

4" SOLID PERFORATED UNDERDRAIN (WRAPPED IN FABRIC FILTER CLOTH OR SOCK). CORRUGATED UNDERDRAINS NOT ACCEPTABLE.

BOTTOM OF THE FACILITY:	ELEV. _____
SEASONALLY HIGH GROUNDWATER:	ELEV. _____
SEPARATION:	FEET _____

VOLUME TYPE	SURFACE AREA	DEPTH	POROSITY	STORAGE VOLUME	VOLUME PROVIDED
V_A : SURFACE STORAGE			1.00	1.00 X V_A	
V_B : PLANTING MEDIA MIX			0.25	0.50 X 0.25 X V_B	
V_C : SOIL - CELL SYSTEM OR STONE MIX			n - SEE NOTE 8	0.50 X n X V_C	
V_D : COARSE AGGREGATE (ABOVE INVERT)			0.36	0.50 X 0.36 X V_D	
V_E : COARSE AGGREGATE (BELOW INVERT)			0.36	0.36 X V_E	
TOTAL					

NOTES:

1. THE PERIMETER OF THE VOLUME CONTROL FACILITY SHALL MAINTAIN THE MINIMUM HORIZONTAL SEPARATION DISTANCE 10- FEET FROM FOUNDATIONS, UNLESS WATERPROOFED; AND 100- FEET FROM POTABLE WATER WELLS, SEPTIC TANKS/FIELDS, OR OTHER UNDERGROUND TANKS.
2. SANITARY OR COMBINED SEWERS SHALL NOT BE LOCATED BENEATH THE VOLUME CONTROL FACILITY.
3. MINIMUM DISTANCE OF 2 FEET (3.5 FEET IF TRIBUTARY TO MWRD'S FACILITIES) BETWEEN BOTTOM OF VOLUME CONTROL FACILITY AND SEASONALLY HIGH GROUNDWATER LEVEL.
4. DO NOT INSTALL ON SLOPES GREATER THAN 3.0%.
5. COMPACT AGGREGATE BELOW TREE ROOT BALL. AVOID COMPACTING NATIVE SOILS, SOIL CELL SYSTEM AND PLANTING MEDIA MIX. SCARIFY COMPACTED FILL.
6. GEOTEXTILE FABRIC SHALL MEET REQUIREMENTS OF IUM MATERIAL SPECIFICATION 592. FOR WOVEN: APPARENT OPENING SIZE OF 0.50 MM (TABLE 1, CLASS I). FOR NON WOVEN: APPARENT OPENING SIZE OF 0.30 MM (TABLE 2, CLASS II).
7. PLANTING MEDIA (OR APPROVED ALTERNATIVE): TYPICALLY COMPOSED OF A MEDIA MIX (50% SAND, 30% COMPOST, AND 20% TOPSOIL). ASSUME A POROSITY OF 0.25 FOR STORMWATER STORAGE OR SPECIFY.
8. USE $n=0.25$ FOR STONE-EQ COMPOST PLANTING MEDIA MIX. FOR SOIL CELL SYSTEM, USE POROSITY AVAILABLE FOR STORMWATER STORAGE, PER MANUFACTURER.

NOTES CONTINUED ON PAGE 2 OF THE URBAN TREE STORMWATER PLANTER BOX DETAIL.

NOT TO SCALE



TECHNICAL GUIDANCE MANUAL

04/24/2026

URBAN TREE STORMWATER PLANTER BOX (1 OF 2) PROFILE VIEW

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