

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

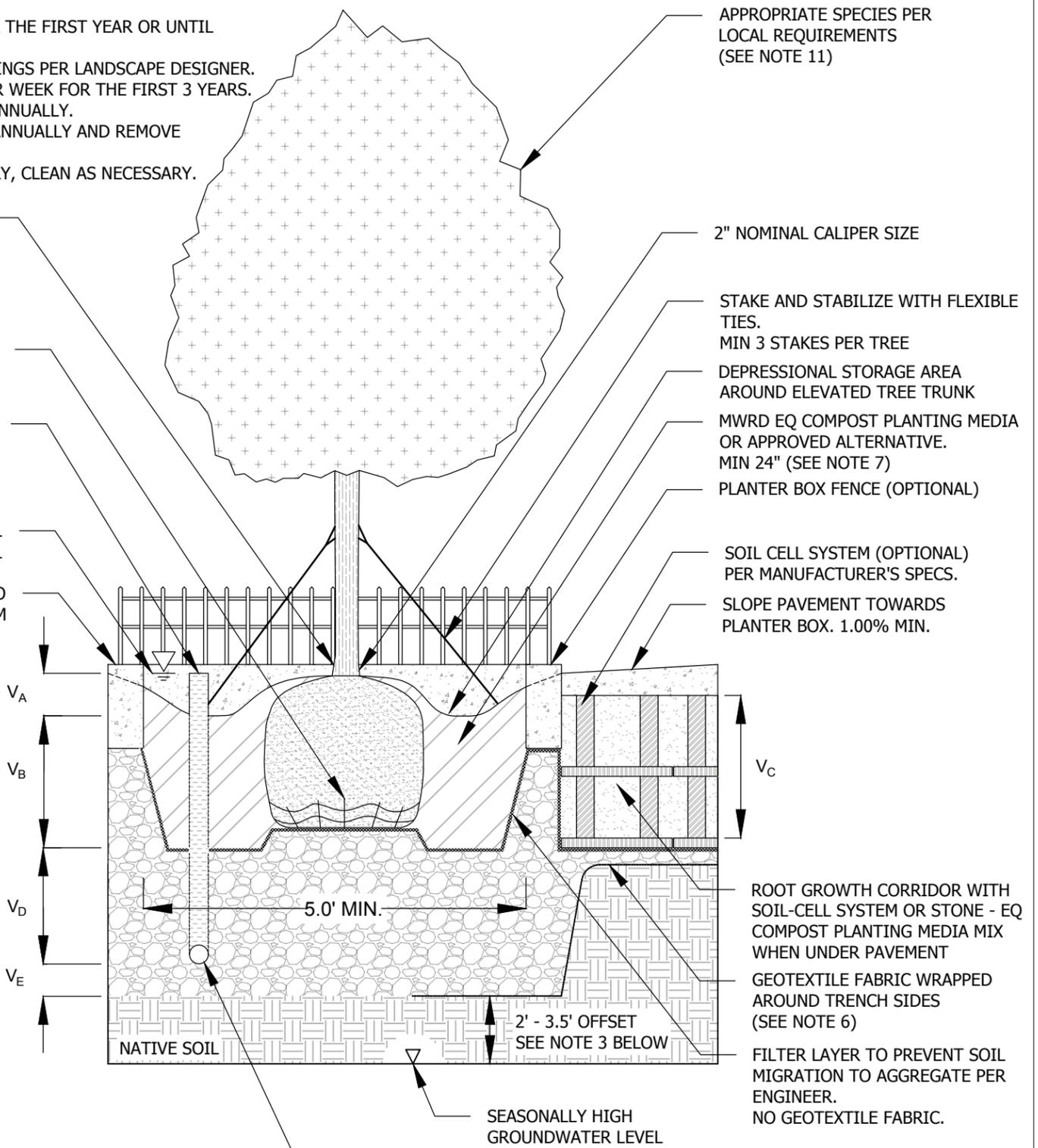
OBSERVATION WELL
(SOLID ABOVE THE GROUND
SURFACE)

VOLUME CONTROL
SURFACE STORAGE HWL

DEPRESSED CURB OPENING INTO
STORMWATER PLANTER SYSTEM

SURFACE STORAGE
12" MAX.

24" MIN.



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

MWRD EQ COMPOST 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.

VC

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 |
|---|--------------|-------|----------------|------------------|-----------------|
| VA : SURFACE STORAGE | | | 1.00 | 1.00 X VA | |
| VB : MWRD EQ COMPOST PLANTING MEDIA MIX | | | 0.25 | 0.50 X 0.25 X VB | |
| VC : SOIL - CELL SYSTEM OR STONE MIX | | | n - SEE NOTE 8 | 0.50 X n X VC | |
| VD : COARSE AGGREGATE (ABOVE INVERT) | | | 0.36 | 0.50 X 0.36 X VD | |
| VE : COARSE AGGREGATE (BELOW INVERT) | | | 0.36 | 0.36 X VE | |
| 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. MWRD EQ COMPOST 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

12/5/2018

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

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