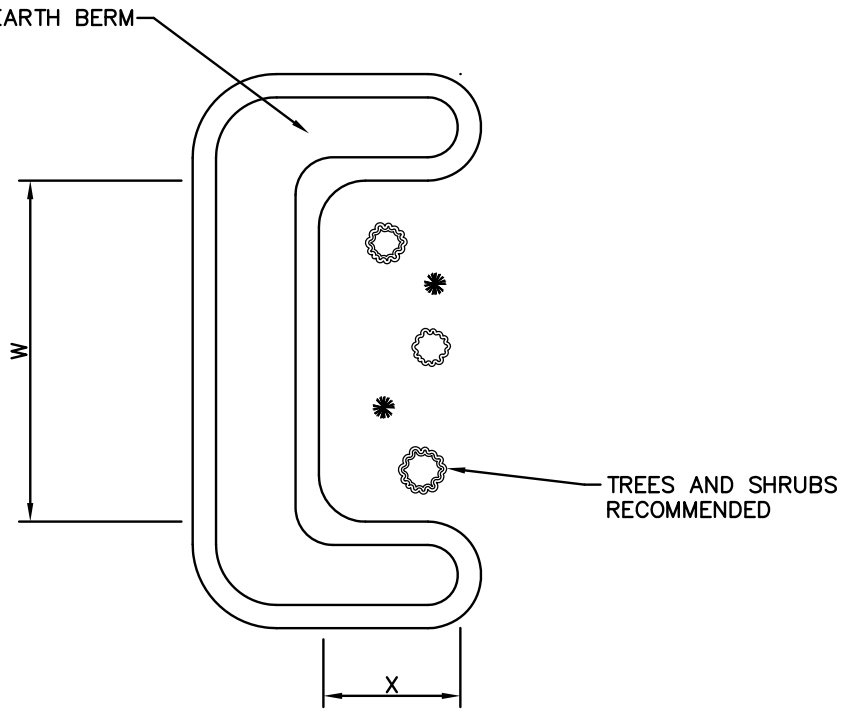
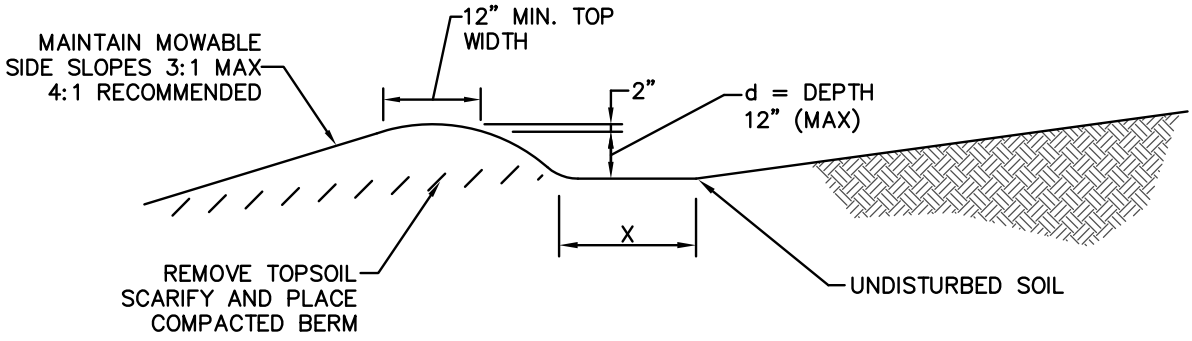


PLAN VIEW



SECTION VIEW

KEY:
REQUIRED VOLUME (RV) FROM WORKSHEET = _____

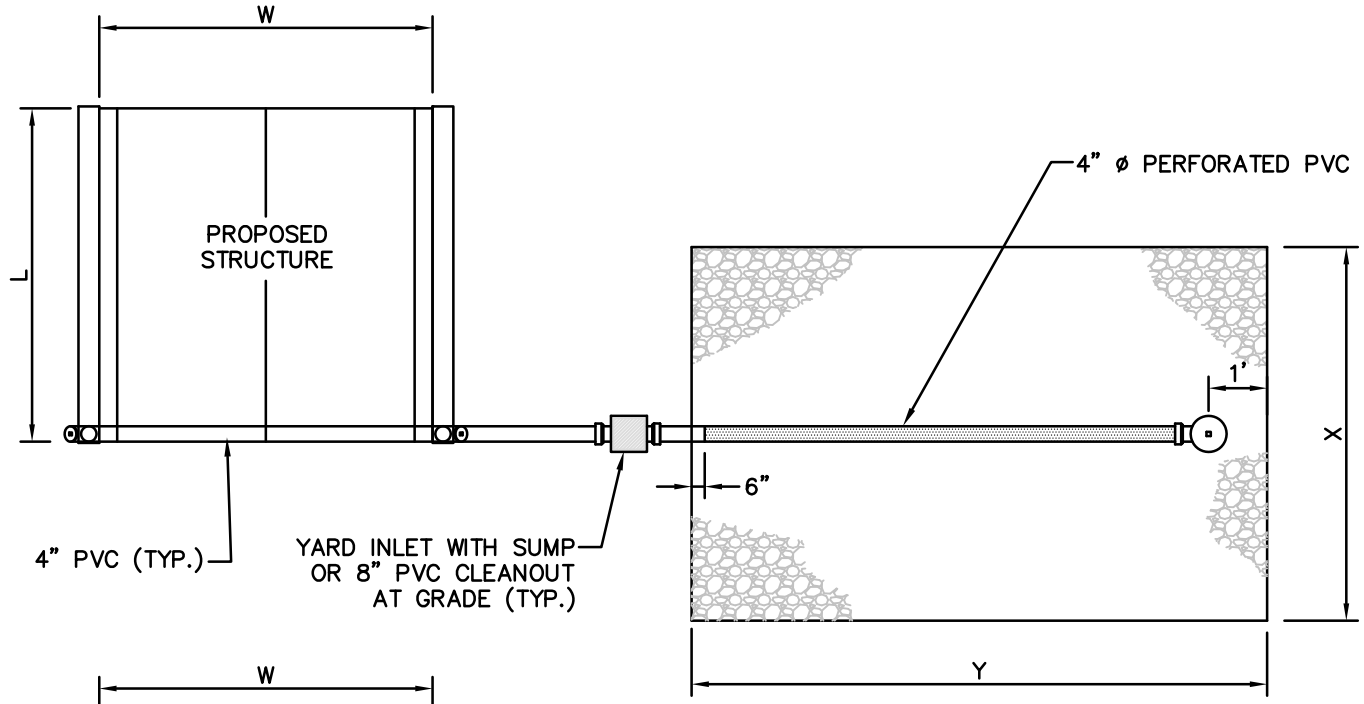
STORAGE VOLUME OF BED (SV) = X*W*d = _____

IS SV > RV _____

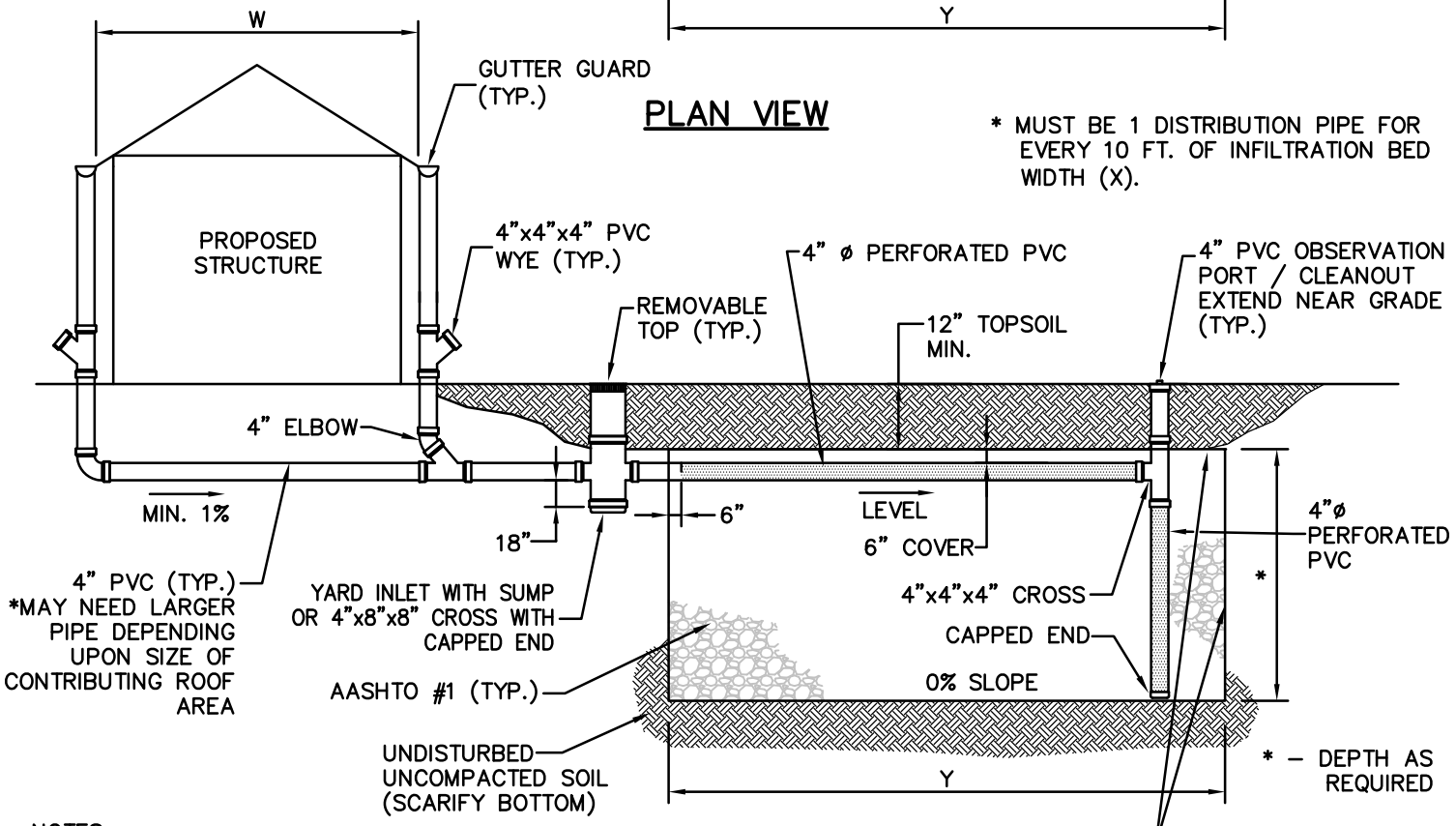
NOTES:
1. STORAGE AREA BEHIND BERM AND INTENDED FOR INFILTRATION SHALL NOT BE COMPACTED.
2. CONSIDER SCARIFING SOIL AND USING AMENDED SOIL TO INHANCE AND MAXIMIZE INFILTRATION.

EARTH BERM

NTS



PLAN VIEW



SECTION VIEW

* MUST BE 1 DISTRIBUTION PIPE FOR EVERY 10 FT. OF INFILTRATION BED WIDTH (X).

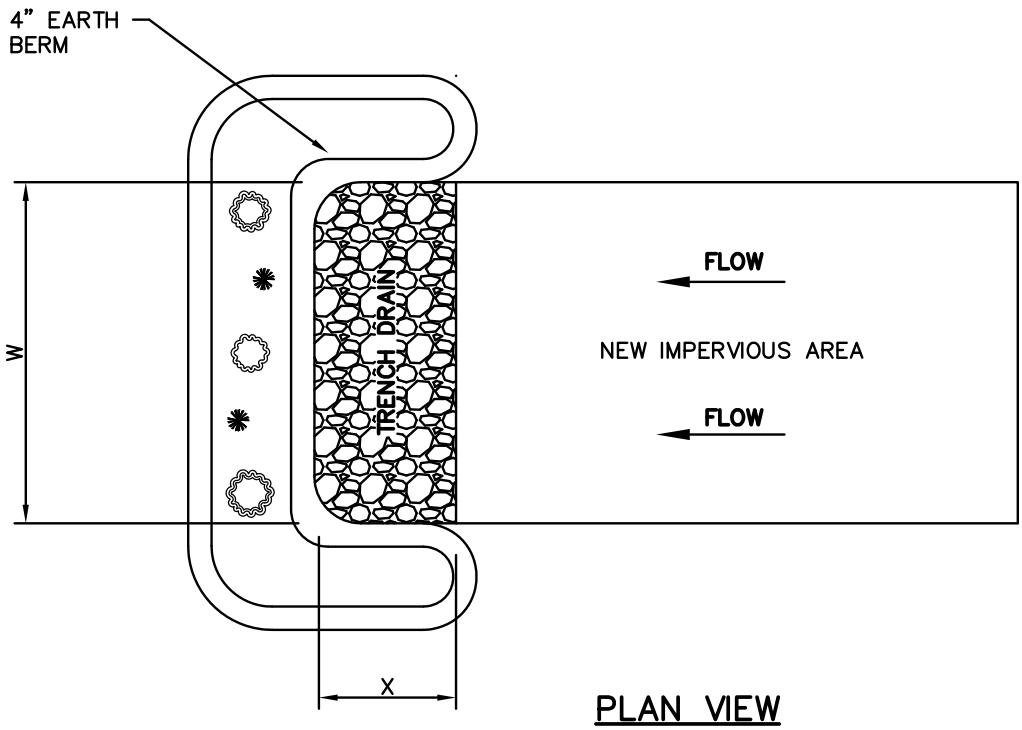
NOTES:
L = LENGTH OF STRUCTURE ROOF (FT.)
W = WIDTH OF ENTIRE ROOF (FT.).
X = WIDTH OF INFILTRATION BED (FT)
Y = LENGTH OF INFILTRATION BED (FT)

REQUIRED VOLUME (RV) FROM WORKSHEET
STORAGE VOLUME OF BED = X*Y*D*0.4
IS SV > RV _____

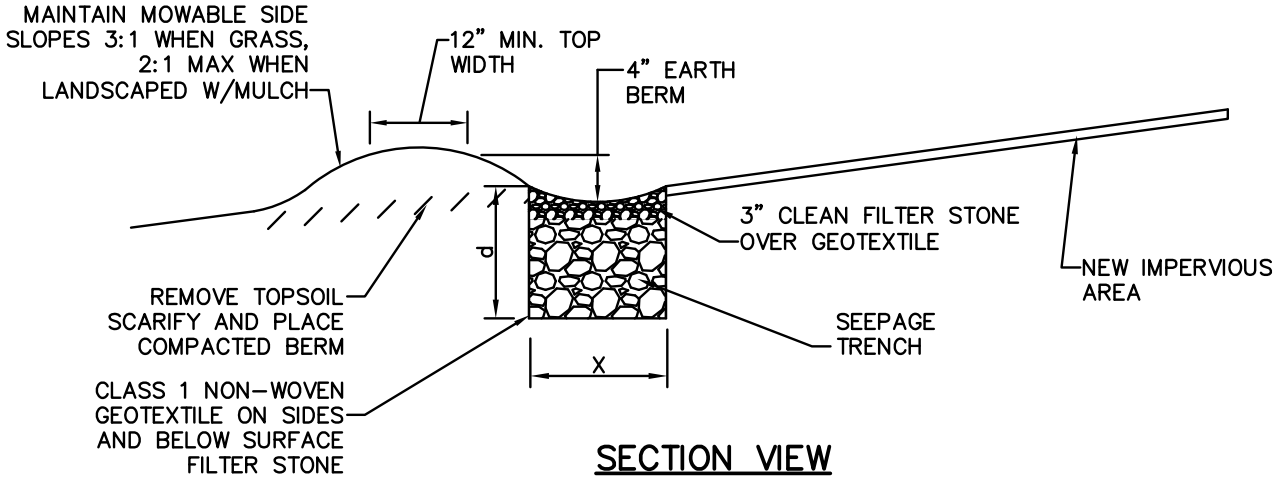
NOTES:
1. BED BOTTOM AREA CAN BE NO LESS THAN 20% OF IMPERVIOUS AREA CONTRIBUTING TO IT (5:1 MAX LOADING RATIO).
2. PIPING AND CLEANOUTS TO BE CENTERED WITHIN INFILTRATION BED.
3. BED TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION.
4. IDENTIFY OVERFLOW LOCATIONS.

INFILTRATION BED

NTS



PLAN VIEW



SECTION VIEW

KEY:
W = WIDTH OF NEW IMPERVIOUS SURFACE = LENGTH OF SEEPAGE TRENCH (FT.)
X = WIDTH OF SEEPAGE TRENCH (FT)
d = DEPTH OF SEEPAGE TRENCH (FT)

REQUIRED VOLUME (RV) FROM WORKSHEET = _____

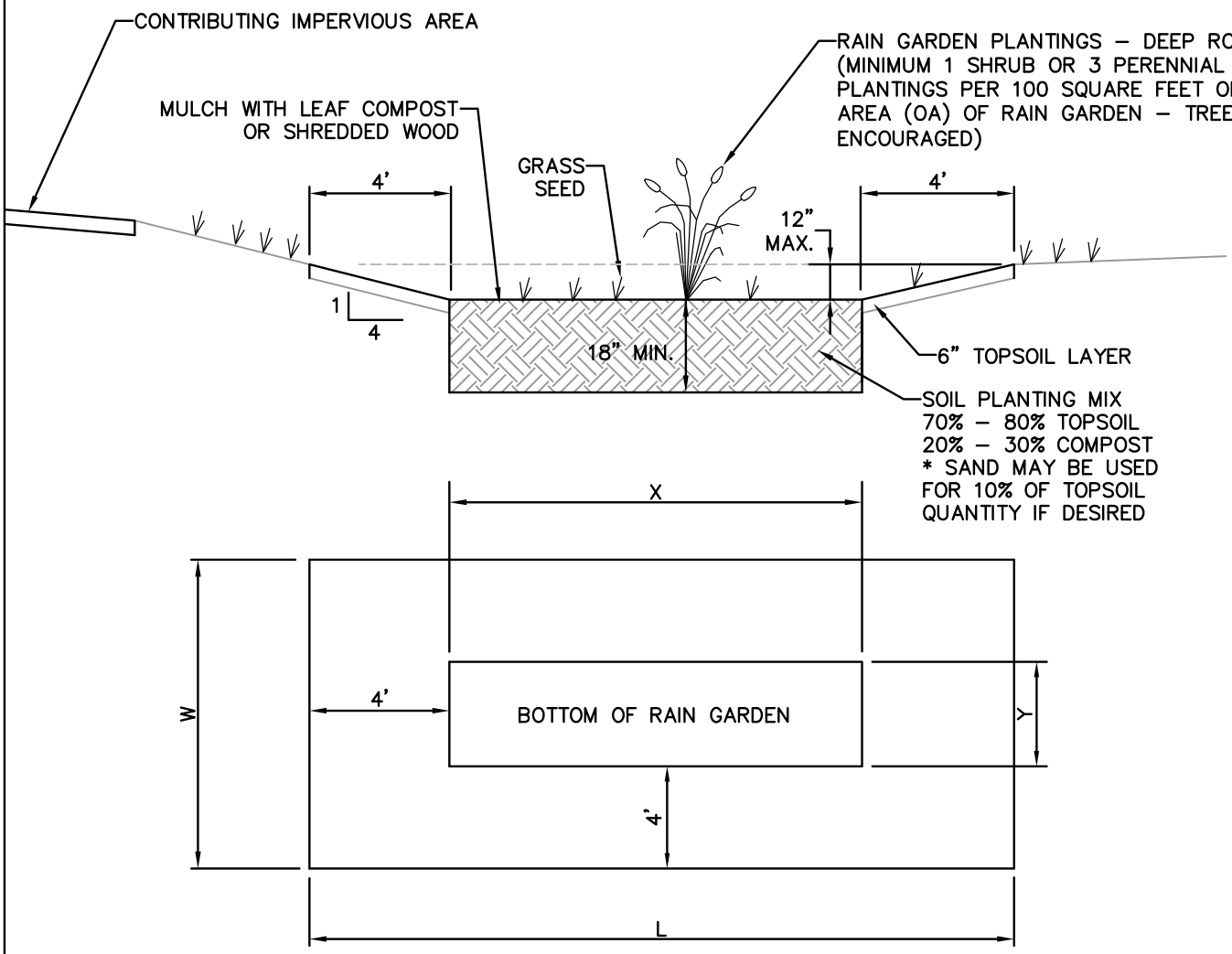
STORAGE VOLUME OF BED (SV) = X*W*d*0.4 _____

IS SV > RV _____

NOTES:
1. SIDE AND BOTTOM OF TRENCH TO BE WRAPPED IN CLASS 1 GEOTEXTILE.
2. TRENCH TO BE FILLED WITH CLEAN STONE AASHTO #1.
3. TRENCH TO BE CONSTRUCTED AT 0% SLOPE ON UNDISTURBED SOIL.
4. TRENCH TO BE CHECKED REGULARLY TO MAINTAIN PROPER OPERATION.
5. A LAWN AREA MAY BE LOCATED BETWEEN THE NEW IMPERVIOUS AREA AND INFILTRATION TRENCH AS LONG AS THE RUNOFF FROM NEW IMPERVIOUS AREA IS CONVEYED TO INFILTRATION TRENCH.

INFILTRATION TRENCH

NTS



1. REQUIRED RAIN GARDEN VOLUME FROM WORKSHEET (RV) RV =_____ft3

2. CALCULATE OUTSIDE AREA OF RAIN GARDEN (OA)
   (OA) = LENGTH (L) X WIDTH (W) OA =_____ft2

3. CALCULATE INSIDE AREA OF RAIN GARDEN (IA)
   (IA) = [X] X [Y] IA =_____ft2

4. CALCULATE AVERAGE AREA OF RAIN GARDEN (AA)
   (AA) = (OA)/2 + (IA)/2 AA =_____ft2

5. CALCULATE STORAGE VOLUME (SV)
   (SV) = (AA) X 1.0' SV =_____ft2

6. CHECK FOR ADEQUATE STORAGE
   STORAGE VOLUME (SV) MUST BE GREATER THAN REQUIRED VOLUME (RV)
   RV =_____ft3 > SV =_____ft3

7. ADJUST RAIN GARDEN SIZE
   IF STORAGE VOLUME (SV) IS NOT GREATER THAN REQUIRED VOLUME (RV), INCREASE THE SIZE OF THE RAIN GARDEN AND REPEAT STEPS 2–6

RAIN GARDEN

NTS