

PLAN VIEW DETAIL

-REINSTALL EXCAVATED MATERIAL TO DEPTH AND GRADE SPECIFIED ON THE PLANS \_AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE MINIMUM 4" TOPSOIL CATCH BASIN LEND CAP 1 - 2-inch Washed, Crushed, angular Stone. Depth of Stone To be determined by Design engineer\* \_DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THE SUITABILITY OF SUBGRADE SOILS\*

> UNDERGROUND INFILTRATION SYSTEM VENT DETAIL

## -REINSTALL EXCAVATED MATERIAL TO DEPTH AND GRADE AS SPECIFIED ON THE PLANS STORAGE SYSTEM 1 - 2-INCH WASHED, CRUSHED, ANGULAR STONE-NON-WOVEN GEOTEXTILE— SELECT TYPE BASED ON DEPTH FROM SURFACE AND INTENDED LOAD USE AT DEPTH TO VARY— DEPENDING ON OVERLYING VEGATATION AND DEPTH OF ROOT REQUIREMENTS MINIMUM 4" TOPSOIL-6" MIN. | TOP OF 1" TO 2" ROCK. DEPTH TO VARY— DEPENDING ON UNDERGROUND STORAGE METHOD SELECTED FOR BOTTOM OF TRAIN TILE 6" MINIMUM DEPTH OF STONE BASE OF 1" TO 2" ROCK\_ NOTE: THIS EXAMPLE DETAIL DEMONSTRATES THE USE OF PERFORATED DRAIN TILE TO PROVIDE THE REQUISITE STORAGE FOR THE INFILITRATION SYSTEM. OTHER STORAGE METHODS MAY BE SUITABLE DEPENDING UPON SPECIFIC APPLICATION. (E.G. PRE-MANUFACTURED PIPES, VAULTS AND MODULE STRUCTURES) -12" MIN. TYP. 6" \_ WIDTH VARIES DEPENDING ON UNDERGROUND STORAGE METHOD SELECTED FOR APPLICATION

NOT TO SCALE

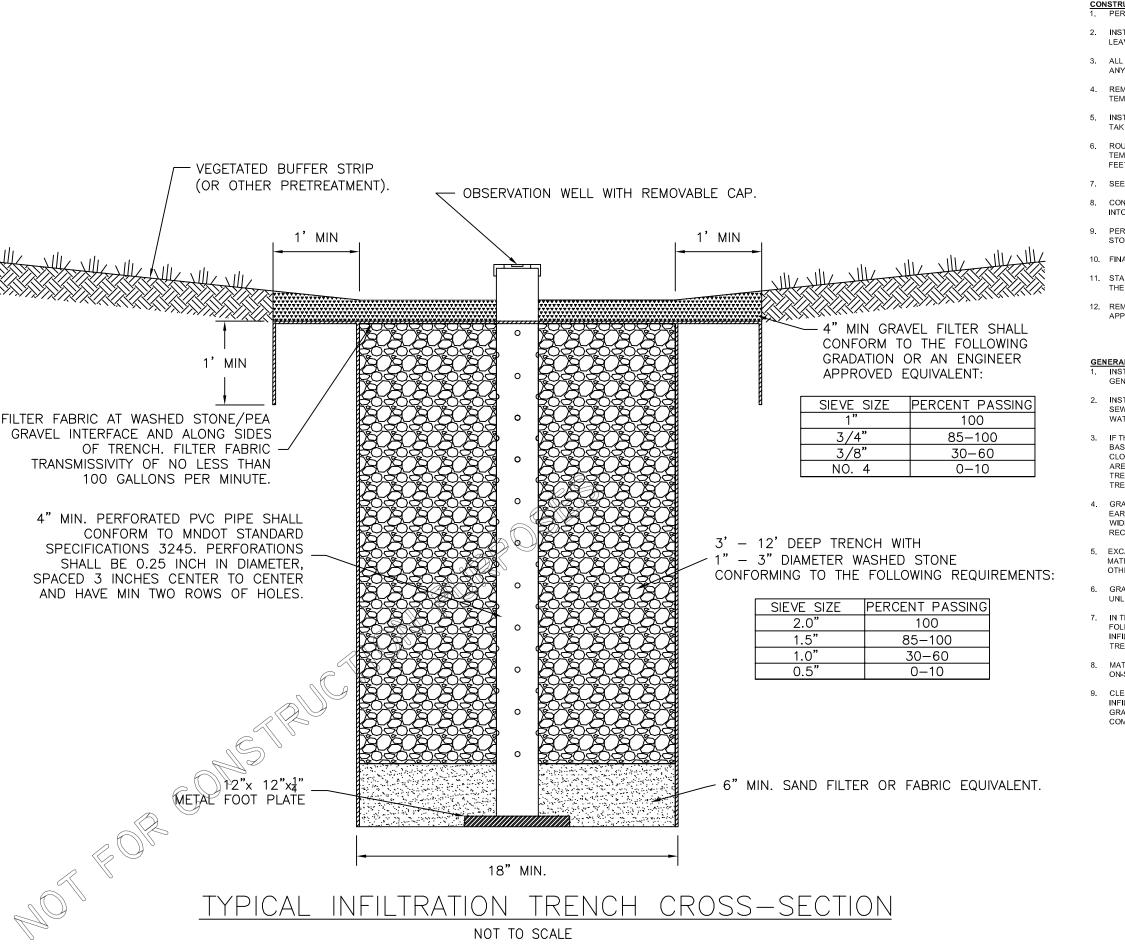
UNDERGROUND INFILTRATION SYSTEM TYPICAL CROSS SECTION DETAIL INFILTRATION SUBSURFACE PLANS & PROFILE NOT TO SCALE

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INFILTRATION SUBSURFACE PLANS AND SECTIONS

Sheet No.



## CONSTRUCTION SEQUENCING:

- PERFORM CONTINUOUS INSPECTION OF EROSION CONTROL PRACTICES.
- INSTALL SILT FENCE ALONG THE PERIMETER OF THE SITE TO PREVENT SEDIMENT FROM LEAVING THE SITE DURING THE CONSTRUCTION PROCESS.
- ALL DOWNGRADIENT PERIMETER SEDIMENT-CONTROL BMPS MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND-DISTURBING ACTIVITY BEGINS.
- REMOVE TOPSOIL FROM THE SITE AND PLACE IN TEMPORARY STOCKPILE LOCATION. TEMPORARY SEED THE STOCKPILE.
- INSTALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, ELECTRIC AND PHONES) TAKING THE LOCATION AND FUNCTION OF STORM WATER BMPS INTO CONSIDERATION.
- ROUGH GRADE THE SITE. IF THE INFILTRATION TRENCH IS GOING TO BE USED FOR TEMPORARY SEDIMENT CONTROL, GRADE THE INFILTRATION TRENCH TO WITHIN THREE (3) FEET OF FINAL GRADE TO PREVENT CLOGGING OF INSITU SOIL.
- 7. SEED AND MULCH DISTURBED AREAS ON SITE.
- CONSTRUCT THE ROADS TAKING THE LOCATION AND FUNCTION OF STORM WATER BMPS
- PERFORM ALL OTHER SITE IMPROVEMENTS TAKING THE LOCATION AND FUNCTION OF THE STORM WATER BMPS INTO CONSIDERATION.
- 10. FINAL GRADE THE SITE.
- 11. STABILIZE THE SITE BY IMPLEMENTING THE NATIVE SEEDING AND PLANTING PORTION OF
- 12. REMOVE THE SILT FENCE AFTER THE SITE IS STABILIZED PER PROJECT ENGINEER

- INSTALL ALL TEMPORARY EROSION CONTROL MEASURES (IN ACCORDANCE WITH MnDOT GENERAL CONDITIONS 2573) PRIOR TO SITE DISTURBANCE.
- 2 INSTALL STORM DRAIN INLET PROTECTION TO PREVENT CLOGGING OF THE STORM SEWER AND SEDIMENT LOADS TO DOWNSTREAM STORM WATER FACILITIES OR WATERBODIES.
- 3. IF THE STORM WATER BMP IS BEING DESIGNED TO SERVE AS A TEMPORARY SEDIMENT BASIN, GRADE THE BMP TO WITHIN THREE (3) FEET OF FINAL GRADE TO PREVENT CLOGGING OF INSITU SOIL. ONCE CONSTRUCTION IN THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETED AND THE SITE IS STABILIZED, EXCAVATE THE INFILTRATION TRENCH TO FINAL GRADE AND COMPLETE CONSTRUCTION OF THE INFILTRATION
- 4. GRADING OF THE INFILTRATION TRENCH SHALL BE ACCOMPLISHED USING LOW-IMPACT EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION OF THE UNDERLYING SOILS. WIDE TRACKED VEHICLES SUCH AS BACK HOES, SMALL DOZERS AND BOBCATS ARE
- 5. EXCAVATE THE INFILTRATION TRENCH TO THE SPECIFIED DEPTH (ELEVATION). ALL SUB MATERIAL BELOW THE SPECIFIED ELEVATION SHALL BE LEFT UNDISTURBED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER
- 6. GRADE TO THE DEPTH (ELEVATION) SPECIFIED IN THE CONSTRUCTION DOCUMENTS
- 7. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THE SEDIMENT WILL NEED TO BE REMOVED FROM THE INFILTRATION TRENCH PRIOR TO INITIATING THE NEXT STEP IN THE INFILTRATION TRENCH CONSTRUCTION PROCESS.
- 8 MATERIAL EXCAVATED FROM THE INFILTRATION TRENCH SHALL BE DISPOSED OF ON-SITE AT LOCATIONS (TEMPORARY STOCKPILE AREAS) DESIGNATED BY ENGINEER.
- CLEAN, WASHED 1 TO 3-INCH GRAVEL SHALL BE PLACED IN THE BOTTOM OF THE INFILTRATION TRENCH TO THE DEPTH SPECIFIED IN THE CONSTRUCTION DOCUMENTS. GRAVEL SHOULD BE PLACED IN LIFTS AND LIGHTLY COMPACTED WITH PLATE

Date	I hereby certify that this plan was prepared	IO. REVISION DESCRIPTION	DATE
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TYPICAL INFILTRATION TRENCH CROSS—SECTION

Sheet No.