

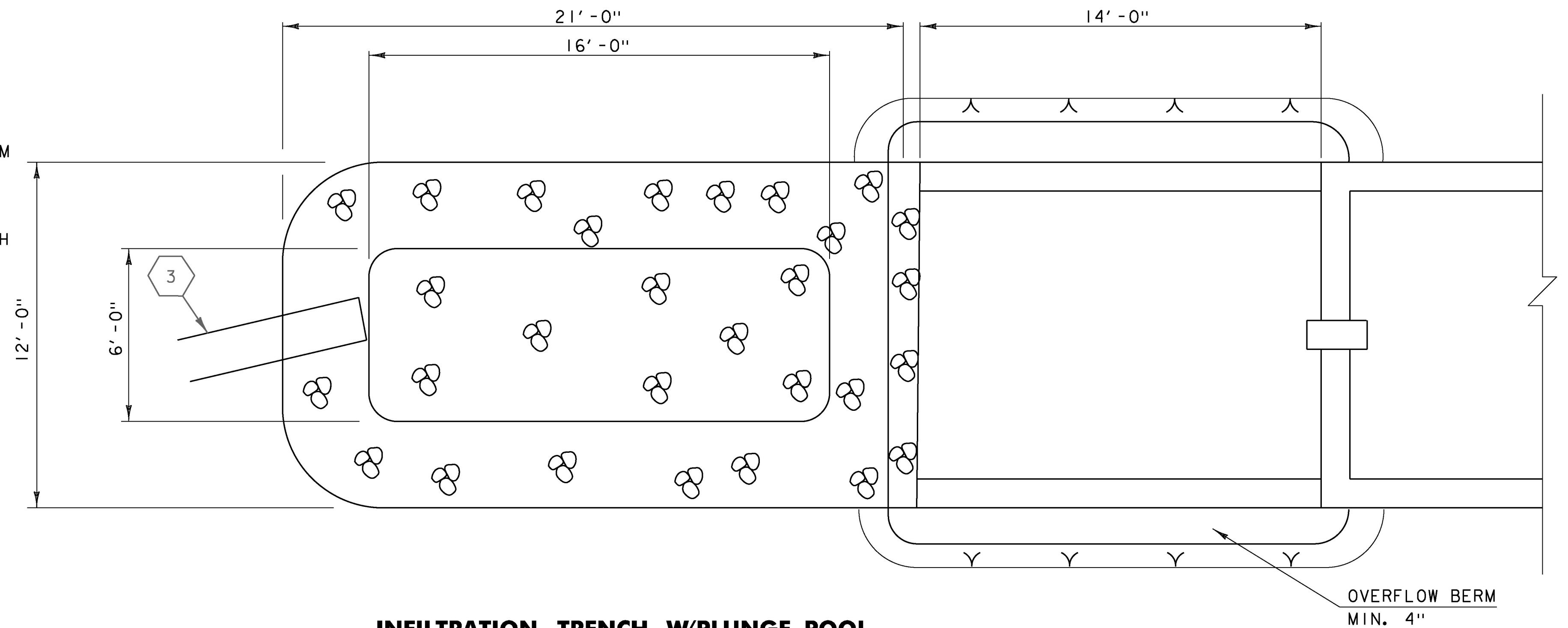
INFILTRATION TRENCH NOTES:

1. THE INFILTRATION TRENCH SHALL NOT RECEIVE RUNOFF UNTIL THE ENTIRE DRAINAGE AREA TO THE INFILTRATION SYSTEM HAS RECEIVED FINAL STABILIZATION.
2. HEAVY EQUIPMENT AND TRAFFIC ARE RESTRICTED FROM TRAVELING OVER THE INFILTRATION TRENCH TO MINIMIZE COMPACTION OF SOIL. THE CONTRACTOR SHALL PERFORM AN INFILTRATION TEST AT THE ELEVATION OF THE INFILTRATION LAYER PRIOR TO INSTALLATION OF THE TRENCH, TO THE SATISFACTION OF THE ENGINEER. THE MINIMUM INFILTRATION RATE SHALL BE 6 INCHES PER HOUR. IF THE INFILTRATION RATE IS LESS THAN 6 INCHES PER HOUR, THE CONTRACTOR SHALL OVER-EXCAVATE THE TRENCH TWO ADDITIONAL FEET AND BACKFILL WITH SAND, OR AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE CONSIDERED INCIDENTAL TO 900.645 SPECIAL PROVISION (INFILTRATION TRENCH AND SAND FILTER).
3. EXCAVATE THE INFILTRATION TRENCH TO THE DESIGN DIMENSIONS. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE TRENCH SIDES TO ENHANCE TRENCH WALL STABILITY. LARGE TREE ROOTS MUST BE TRIMMED FLUSH WITH THE TRENCH SIDES IN ORDER TO PREVENT FABRIC PUNCTURING OR TEARING OF THE FILTER FABRIC DURING SUBSEQUENT INSTALLATION PROCEDURES. THE SIDE WALLS AND BOTTOM OF THE TRENCH SHALL BE ROUGHENED WHERE SHEARED AND SEALED BY HEAVY EQUIPMENT.
4. A CLASS "C" GEOTEXTILE OR BETTER SHOULD INTERFACE BETWEEN THE TRENCH SIDE WALLS AND BETWEEN THE STONE RESERVOIR AND GRAVEL FILTER LAYERS. A PARTIAL LIST OF NON-WOVEN FILTER FABRICS THAT MEET THE CLASS "C" CRITERIA IS CONTAINED BELOW. ANY ALTERNATIVE FILTER FABRIC MUST BE APPROVED BY THE ENGINEER.

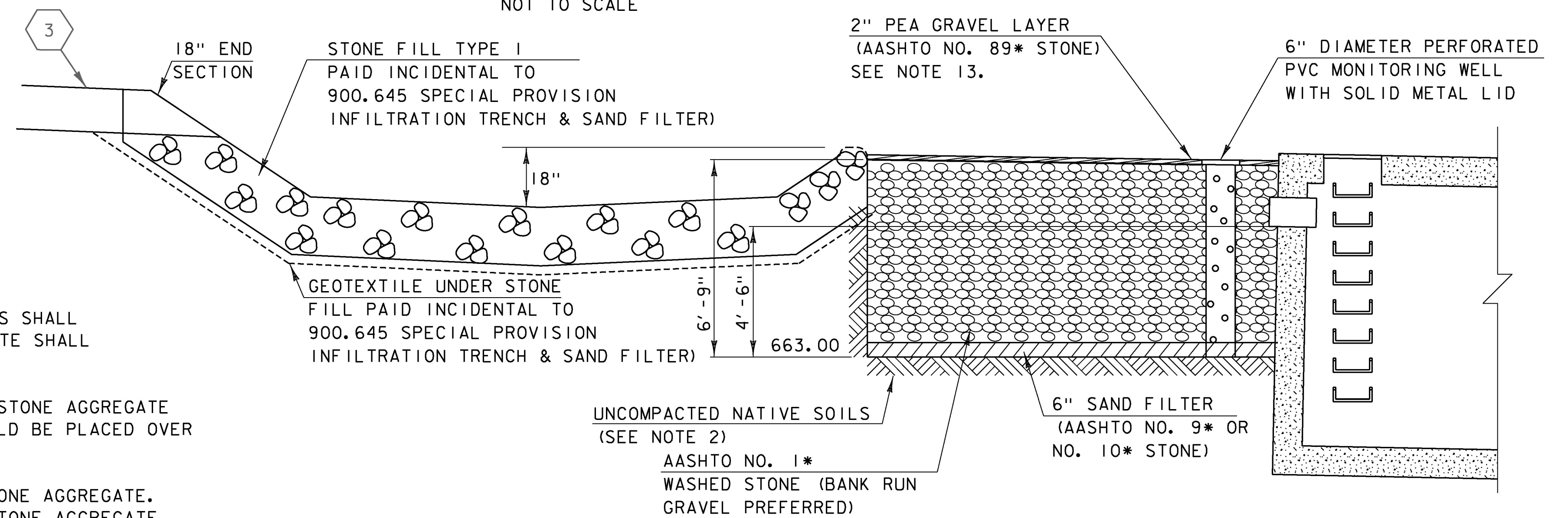
MIRAFI 180-N GEOLON N70 CARTHAGE FX-80S
 WEBTEC N70 AMOCO 4552

THE WIDTH OF THE GEOTEXTILE MUST INCLUDE SUFFICIENT MATERIAL TO CONFORM TO TRENCH PERIMETER IRREGULARITIES AND FOR A 6-INCH MINIMUM TOP OVERLAP. THE FILTER FABRIC SHALL BE TUCKED UNDER THE SAND LAYER ON THE BOTTOM OF THE INFILTRATION TRENCH FOR A DISTANCE OF 6 TO 12 INCHES. STONES OR OTHER ANCHORING OBJECTS SHALL BE PLACED ON THE FABRIC AT THE EDGE OF THE TRENCH TO KEEP THE TRENCH OPEN DURING WINDY PERIODS. WHEN OVERLAPS ARE REQUIRED BETWEEN ROLLS, THE UPHILL ROLL SHALL LAP A MINIMUM OF 2 FEET OVER THE DOWNHILL ROLL IN ORDER TO PROVIDE A SHINGLED EFFECT.

5. THE 6 INCH SAND FILTER LAYER ON THE BOTTOM OF THE INFILTRATION TRENCH SHALL BE COMPACTED USING PLATE COMPACTORS. THE SAND FOR THE INFILTRATION TRENCH SHALL BE WASHED AND MEET AASHTO STD. M-43, SIZE NO. 9* OR NO. 10*. ANY ALTERNATIVE SAND GRADATION MUST BE APPROVED BY THE ENGINEER.
6. THE STONE AGGREGATE SHALL BE PLACED IN MAXIMUM LOOSE LIFT THICKNESS OF 12 INCHES AND COMPACTED USING PLATE COMPACTORS. THE AGGREGATE FOR INFILTRATION TRENCHES SHALL CONSIST OF CLEAN, WASHED AGGREGATE MEETING AASHTO STD M-43 SIZE NO. 1*. THE AGGREGATE SHALL BE GRADED SUCH THAT THERE WILL BE FEW AGGREGATES SMALLER THAN THE SELECTED SIZE.
7. FOLLOWING THE STONE AGGREGATE PLACEMENT, THE FILTER FABRIC SHALL BE FOLDED OVER THE STONE AGGREGATE TO FORM A 6-12 INCH LONGITUDINAL LAP. THE DESIRED FILL SOIL OR STONE AGGREGATE SHOULD BE PLACED OVER THE LAP AT SUFFICIENT INTERVALS TO MAINTAIN THE LAP DURING SUBSEQUENT BACKFILLING.
8. CARE SHALL BE EXERCISED TO PREVENT NATURAL OR FILL SOILS FROM INTERMIXING WITH THE STONE AGGREGATE. ALL CONTAMINATED STONE AGGREGATE SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED STONE AGGREGATE.
9. IF REMOVAL OF BOULDERS OR OTHER OBSTACLES FROM THE TRENCH WALLS CREATES A VOID BETWEEN THE FABRIC AND EXCAVATION SIDES, NATURAL SOILS SHALL BE PLACED IN THESE VOIDS AT THE MOST CONVENIENT TIME DURING CONSTRUCTION TO ENSURE FABRIC CONFORMITY TO THE EXCAVATION SIDES.
10. VERTICALLY EXCAVATED WALLS MAY BE DIFFICULT TO MAINTAIN IN AREAS WHERE SOIL MOISTURE IS HIGH OR WHERE SOFT COHESIVE OR COHESIONLESS SOILS ARE PREDOMINANT. THESE CONDITIONS MAY REQUIRE LAYING BACK OF THE SIDE SLOPES TO MAINTAIN STABILITY AT NO ADDITIONAL COST TO THE OWNER.
11. THE OBSERVATION WELL IS TO CONSIST OF 6-INCH DIAMETER PVC SCHEDULE 40 PIPE (ASTM STD. D 1784) WITH A CAP SET FLUSH WITH THE GROUND LEVEL AND LOCATED NEAR THE LONGITUDINAL CENTER OF THE INFILTRATION TRENCH. THE PIPE SHALL BE PERFORATED (1/2 INCH IN DIAMETER) AND PLACED VERTICALLY WITHIN THE GRAVEL PORTION OF THE INFILTRATION TRENCH AND A CAP PROVIDED AT THE BOTTOM OF THE PIPE. THE BOTTOM OF THE CAP SHALL REST ON THE INFILTRATION TRENCH BOTTOM. THE PIPE SHALL HAVE A PLASTIC COLLAR WITH RIBS TO PREVENT ROTATION WHEN REMOVING CAP. THE SCREW TOP LID SHALL BE A "PANELLA" TYPE CLEANOUT WITH A LOCKING MECHANISM OR SPECIAL BOLT TO DISCOURAGE VANDALISM.
12. ALL WORK REQUIRED TO CONSTRUCT PLUNGE POOL, INFILTRATION TRENCH, SAND FILTER, STONE FILL EMERGENCY OVERFLOW DITCH AND STONE FILL OUTLET DITCH, WITHIN THE LIMITS SHOWN ON THE PLANS AND DETAILS SHALL BE PAID AS ITEM 900.645 SPECIAL PROVISION (INFILTRATION TRENCH AND SAND FILTER).
13. PEA GRAVEL SHALL BE CLEAN, NATURALLY ROUNDED AGGREGATE.



INFILTRATION TRENCH W/PLUNGE POOL
PLAN VIEW
 NOT TO SCALE



INFILTRATION TRENCH ELEVATION
WITH SAND FILTER ATTACHED
 NOT TO SCALE

* SEE AASHTO STANDARD SPECIFICATIONS FOR TRANSPORTATION MATERIALS AND METHODS OF SAMPLING AND TESTING, M43 SPECIFICATIONS FOR STANDARD SIZES OF PROCESSED AGGREGATE.

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