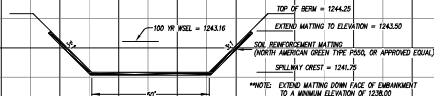


SWM FACILITY 1 BERM CROSS SECTION

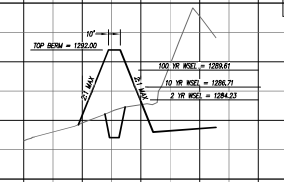
## DETENTION POND EMBANKMENT CONSTRUCTION

SOILS CLASSIFIED AS "G" OR "G" SHALL BE USED TO CONSTRUCT THE EMBANKMENT FOR THE DETENTION POND. A CUTOFF TRENCH SHALL ALSO BE INCLUDED ALONG THE ENTIRE LENGTH OF THE EMBANKMENT. THE CUTOFF TRENCH SHALL BE 6" (6) FEET WIDE AND SHALL EXTEND A MINIMUM OF FOUR (4) FEET INTO NATURAL GROUND WITH 1:1 SIDE SLOPES. THE EMBANKMENT SHALL BE PLACED IN MAXIMUM 8" (8) INCH LOOSE LIFT AND THEN COMPACTED USING HEAVY SHEEPSFOOT OR PNEUMATIC TIRE ROLLERS. THE EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY STANDARD PROCTOR AT A MOISTURE CONTENT OF TWO (2) TO FOUR (4) PERCENT ABOVE OPTIMAL. THE RESULTS OF THE COMPACTION AND MOISTURE TEST SHALL BE PROVIDED TO ROANOKE CITY AND/OR THE OWNER.

SWM FACILITY 1 - EMERGENCY SPILLWAY CROSS SECTION



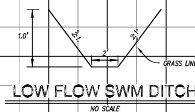
NO SCALE



SWM FACILITY 2 BERM CROSS SECTION

## DETENTION POND EMBANKMENT CONSTRUCTION

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NO SCALE



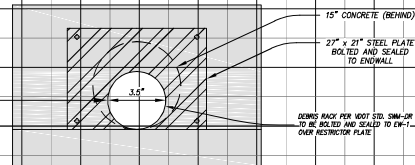
SWM FACILITY 3 BERM CROSS SECTION

## DETENTION POND EMBANKMENT CONSTRUCTION

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## CONSTRUCTION PHASE 1 NOTE:

1. GRIPPE SHALL BE 3" DIA. DURING CONSTRUCTION PHASE 1 - SEE SHEET NO. 3, FOR EXTENT OF DEVELOPMENT DURING THIS PHASE OF DEVELOPMENT.

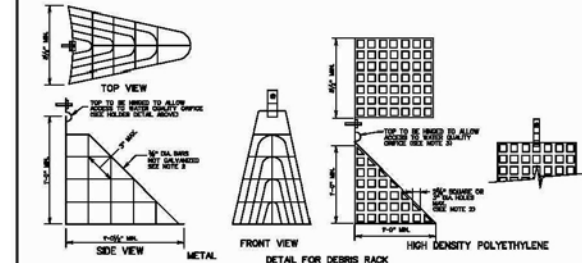
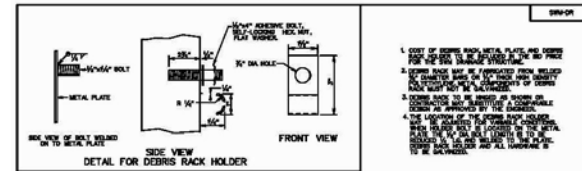


STRUCTURE "A9" EW-1 WITH RESTRICTOR PLATE

DEBRIS RACK PER 1001 STD. SWM-OR TO BE BOLTED AND SEALED TO EWT-1 OVER RESTRICTOR PLATE.

NO SCALE

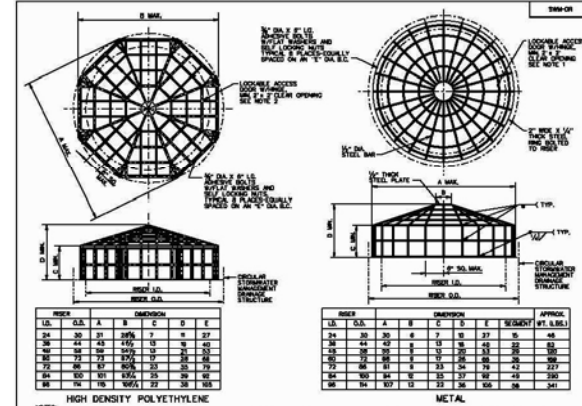
2016 ROAD &amp; BRIDGE STANDARDS



STORMWATER MANAGEMENT (SWM) DETAILS  
DEBRIS RACK, METAL PLATE, WATER QUALITY ORP, CONCRETE CRADLE  
(FOR SWM DRAINAGE STRUCTURES, SWM RESER PIPES AND SWM DAMS)

2016 ROAD &amp; BRIDGE STANDARDS

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STORMWATER MANAGEMENT DETAILS TRASH RACK FOR SWM DRAINAGE STRUCTURES

2016 ROAD &amp; BRIDGE STANDARDS

FIELD REVISION  
APPROVED

by Ken Richardson  
11/15/2021