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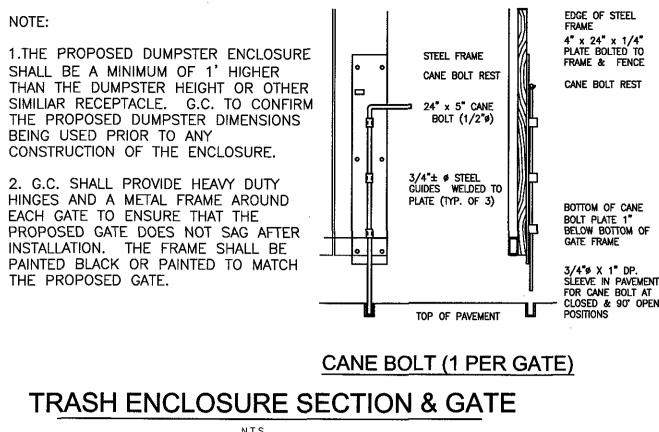
WDOT

ROAD AND BRIDGE STANDARDS

SHEET 2 OF 5

STORMWATER MANAGEMENT (SWM) DETAILS

DEBRIS RACK, METAL PLATE, WATER QUALITY ORIFICE, CONCRETE CRADLE (FOR SWM DRAINAGE STRUCTURES, SWM RISER PIPES AND SWM DAMS) VIRGINIA DEPARTMENT OF TRANSPORTATION



- THE PROPOSED EMBANKMENT SHALL BE A HOMOGENEOUS EMBANKMENT COMPOSED OF MATERIAL THAT IS SUFFICIENTLY IMPERVIOUS TO PROVIDE AN ADEQUATE WATER BARRIER. SEE DETAILS ON THIS SHEET.
- 2. THE G.C. SHALL ENSURE 95% COMPACTION OF THE EMBANKMENT MATERIAL.

MODIFICATIONS REQUIRED FOR CONVERSION TO PERMANENT SWM:

1. REMOVE ANY SEDIMENT LADEN WATER WITHIN THE BASIN. A FILTER BAG OR APPROVED EQUAL SEDIMENT TRAPPING MEASURE SHALL BE USED BEFORE DISCHARGING ANY WATER TO A DOWNSTREAM

2. REMOVE DEWATERING STRUCTURE AT THIS TIME.

3. REMOVE TEMPORARY ORIFICE PLUGS AND RESHAPE BASIN BOTTOM TO PROVIDE POSITIVE DRAINAGE. ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND FINISH GRADE SHALL BE THOSE GRADES INDICATED ON THE PLAN SET INCLUDING TOPSOIL

4. PLACE MINIMUM OF 4" OF TOPSOIL OVER ALL OF THE EMBANKMENT SLOPES & TOP, AND OTHER EXCAVATED SLOPES ASSOCIATED WITH THE SWM FACILITY.

5. SEED AND BLANKET MAT ALL REQUIRED SLOPES DISTURBED AND DENUDED WITH THE BASIN INCLUDING THE INTERIOR AND EXTERIOR SLOPES.

6. STORMWATER MANAGEMENT AS-BUILTS WILL NEED TO BE SUBMITTED TO AND APPROVED BY ROANOKE COUNTY PRIOR TO FINAL PROJECT ACCEPTANCE AND BOND RELEASE.

GEOTECHNICAL TESTING REQUIREMENTS FOR S.W.M. FACILITY:

1. A GEOTECHNICAL REPORT SHALL BE REQUIRED FOR THE S.W.M. FACILITY TO INCLUDE THE FOLLOWING INFORMATION AND PROVIDED TO ROANOKE COUNTY PRIOR TO CONSTRUCTION OF THE FACILITY INCLUDING

. REPORT SHALL INCLUDE THE FOLLOWING: RECOMMENDATIONS AND STANDARDS FOR EMBANKMENT MATERIALS INCLUDING BUT NOT LIMITED TO SUITABILITY OF MATERIALS, RECOMMENDED PLACEMENT CRITERIA (MOISTURE CONTENT, COMPACTION, ETC.).

3. THE REPORT SHALL ALSO INCLUDE DETAILS RELATED TO THE CUTOFF TRENCH CONSTRUCTION.

4. The report shall be provided by a licensed geotechnical engineer or licensed geologist AND THE REPORT SHALL BE SUBMITTED TO ROANOKE COUNTY.

5. THIS REQUIREMENT SHALL COMPLY WITH RCSWMDM 9.2.6.

DATE:

DRAWN BY:

APP'D BY:

DETAIL

SIDE SLOPES SHALL BE NO GREATER THAN 1:1 SLOPE REQUIREMENTS. CUTOFF TRENCH SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE VSMH (BLUE BOOK).

VAIDEQ STORMWATER DESIGN SPECIFICATION INTRODUCTION: APPENDIX A: EARTHEN EMBANKMENT

SECTION A-9: TYPICAL GRAPHICAL DETAILS

TYPICAL HOMOGENEOUS **EMBANKMENT**

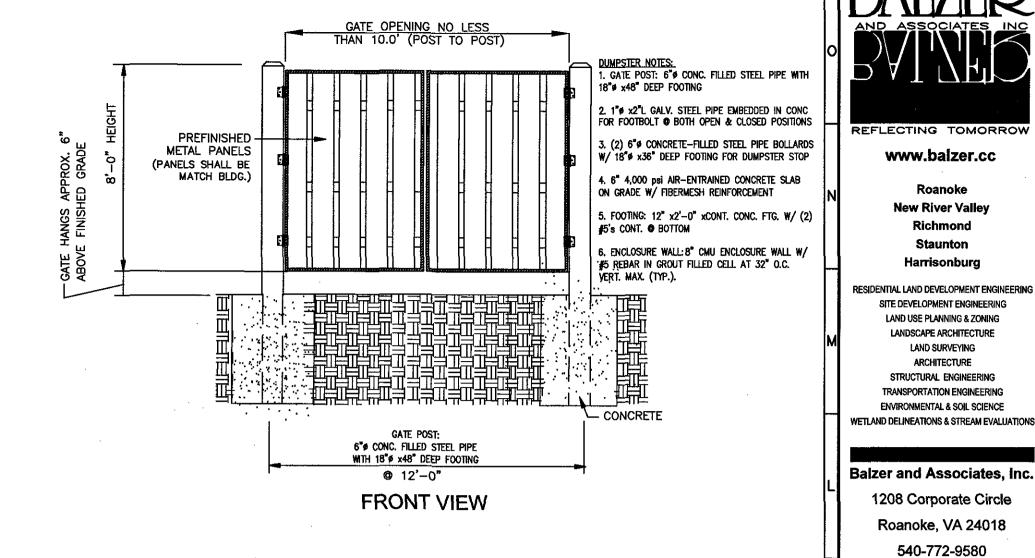
Figure A-1a. Homogeneous Embankments w/ Seepage Controls

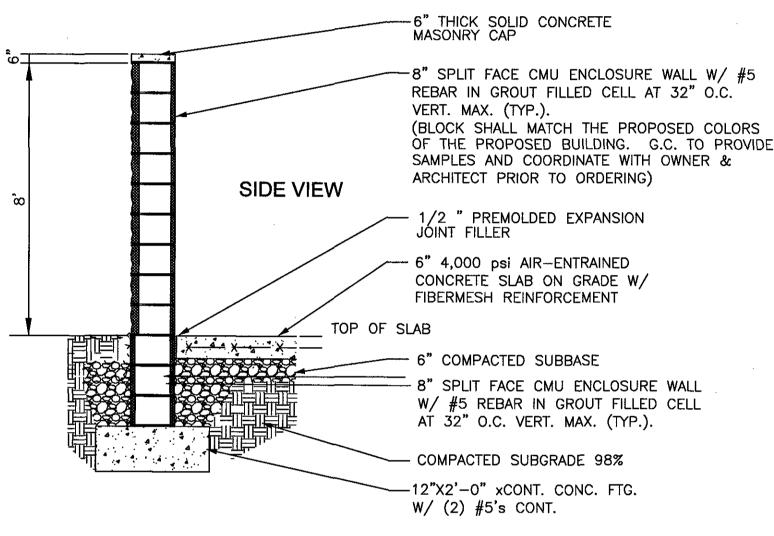
BLANKET DRAIN

TOE DRAIN

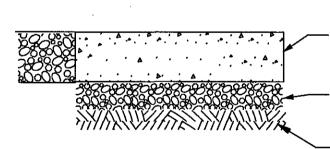
FOUNDATION DRAIN

CHIMNEY DRAIN





TRASH ENCLOSURE SECTION & GATE



CONCRETE SLAB ON GRADE W/ FIBERMESH REINFORCEMENT - 6" COMPACTED SUBBASE

-SUBGRADE COMPACTED TO 98% MAX. DENSITY (ASTM D698)

G.C. SHALL BE RESPONSIBLE FOR OBTAINING ADEQUATE SUB-GRADE COMPACTION.

SECTION THROUGH DUMPSTER PAD

NO SCALE

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Thin Ban

s Christopher P. Burns 🕏

Lic. No.047338

4/21/17

DESIGNED BY BTC 3/14/2017

AS SHOWN SCALE **REVISIONS:**

4/12/2017 4/21/2017

DRAWN BY CHECKED BY