

REVISIONS

**METRIC**

PROJECT REFERENCE NO. U-2912 SHEET NO. 2-B

R/W SHEET NO.

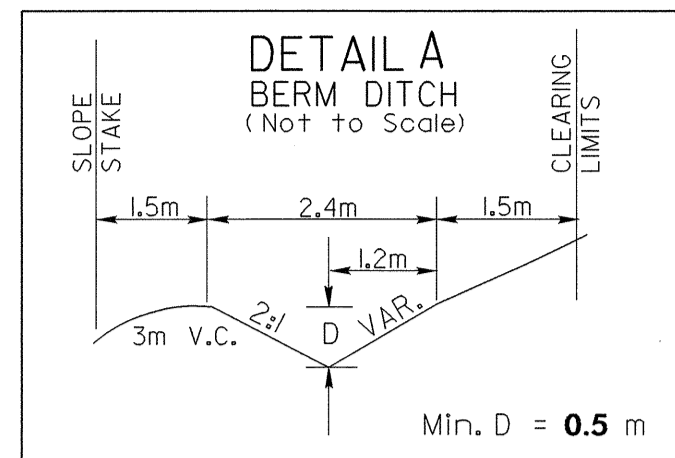
ROADWAY DESIGN ENGINEER  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 14493  
 STEVEN M. BONTOR

HYDRAULICS ENGINEER  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 12786  
 STEVEN M. BONTOR

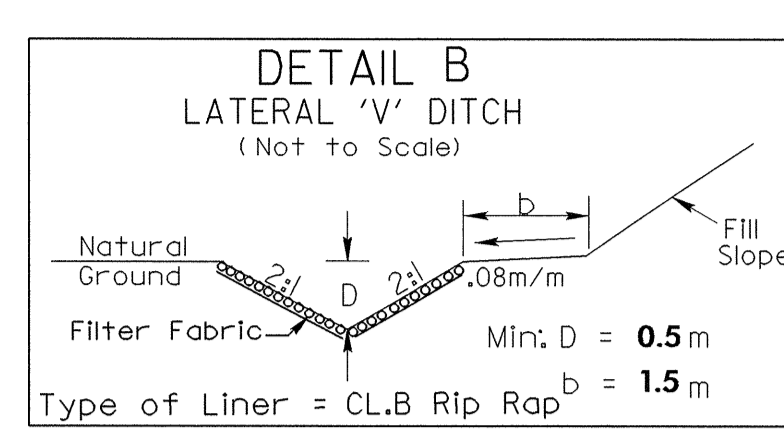
CONST. REV.

R/W REV.

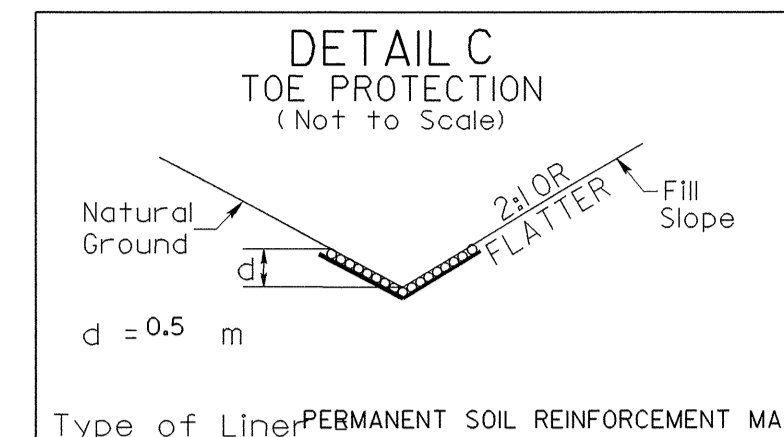
9.1.2004



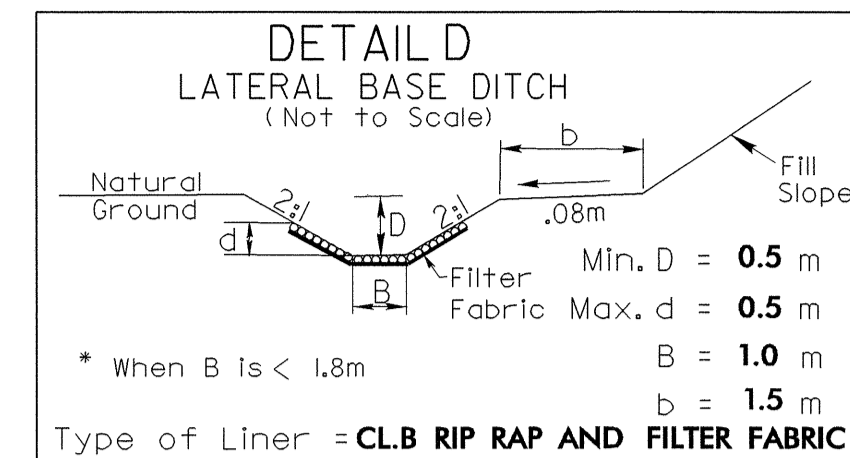
-LREV- 13+31 RT. TO 14+00 RT



-DRIVE 1- 10+20 RT. TO 10+68 RT



-LREV- 18+80 LT. TO 19+30 LT  
 -LREV- 18+72 RT TO 19+20 RT



-LREV- 17+80 RT. TO 18+72 RT.  
 FF = 206 sm

NOTE A IF EXIT VELOCITY OF BASIN IS SPECIFIED, EXTEND BASIN AS REQUIRED TO OBTAIN SUFFICIENT CROSS SECTIONAL AREA AT SECTION A-A SUCH THAT Q DES / CROSS SECTION AREA AT SEC. A-A = SPECIFIED EXIT VELOCITY.

NOTE B WARP BASIN TO CONFORM TO NATURAL STREAM CHANNEL. TOP OF RIPRAP IN FLOOR OF BASIN SHOULD BE AT SAME ELEVATION OR LOWER THAN NATURAL CHANNEL BOTTOM AT SEC. A-A. PROVIDE SMOOTH TRANSITION FROM END OF APRON TO NATURAL CHANNEL WIDTH.

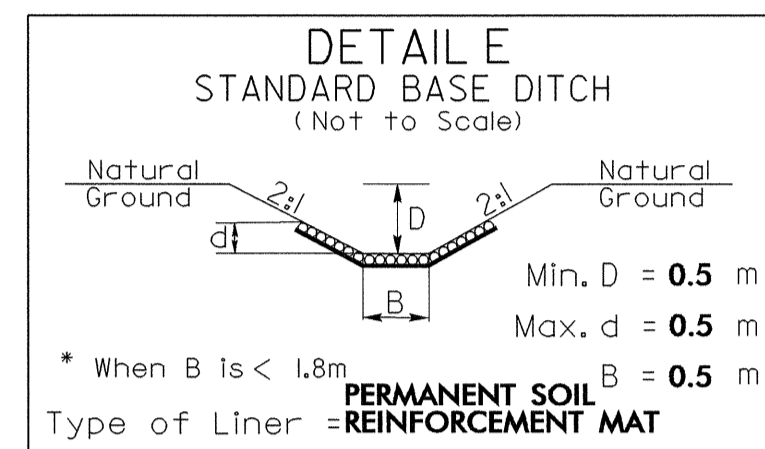
DIM.	22+00/27+00	RIP RAP BASIN *
A	0.50 M	0.50 M
B	0.50 M	0.50 M
C	0.50 M	0.50 M
D	0.50 M	0.50 M
E	0.50 M	0.50 M
F	1.75 M	1.75 M
G	4.60 M	4.60 M
H	2.30 M	2.30 M

ALL DIMENSIONS APPROXIMATE

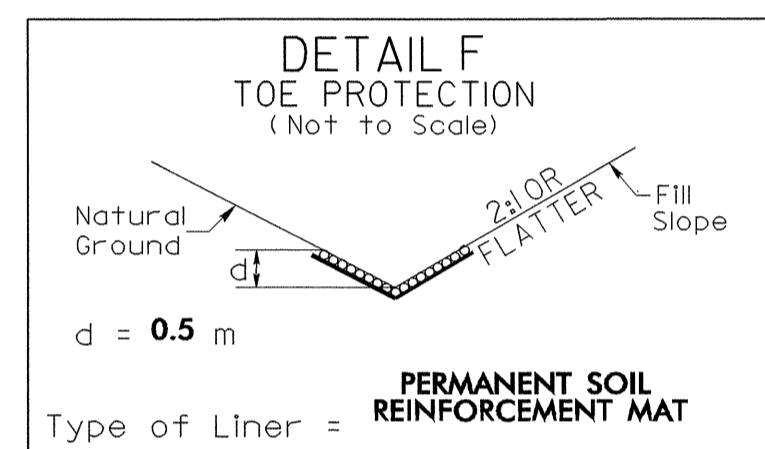
PER DISSIPATOR BASIN

DDE - 30 cu. m.  
 Filter Fabric - 35 sq. m.  
 Class I - 33 Tons

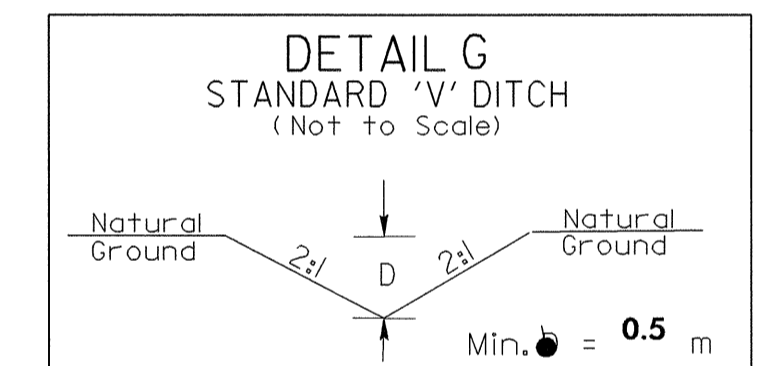
DETAIL OF RIP-RAPPED ENERGY DISSIPATOR BASIN



-LREV- 22+00 LT. TO 23+00 LLT.



-LREV- 24+80LT TO 25+35LT



-Y5- 11+85 RT. TO 12+63 RT.

NOTE A SET END OF APRON FLUSH WITH NATURAL GRADE.

NOTE THE PERMANENT SOIL REINFORCEMENT MATTING (PSRM) SHALL BE SEEDED WITH NATIVE GRASSES AT INSTALLATION.

3 M PERMANENT SOIL REINFORCEMENT MATTING (PSRM) AROUND PERIMETER OF SCOUR HOLES SHALL BE GRADED LEVEL.

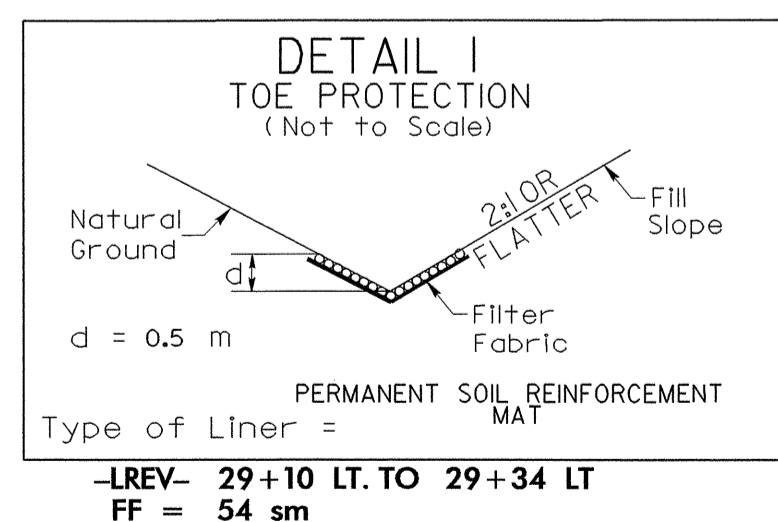
DIM.	17+80RT	18+73LT	24+22RT	29+42RT	31+45 LT	32+91LT
A	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M
B	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M
C	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M
D	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M
E	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M	0.50 M
F	1.75 M	1.75 M	1.75 M	1.75 M	1.75 M	1.75 M
G	4.60 M	4.60 M	4.60 M	4.60 M	4.60 M	4.60 M
H	2.30 M	2.30 M	2.30 M	2.30 M	2.30 M	2.30 M

ALL DIMENSIONS APPROXIMATE

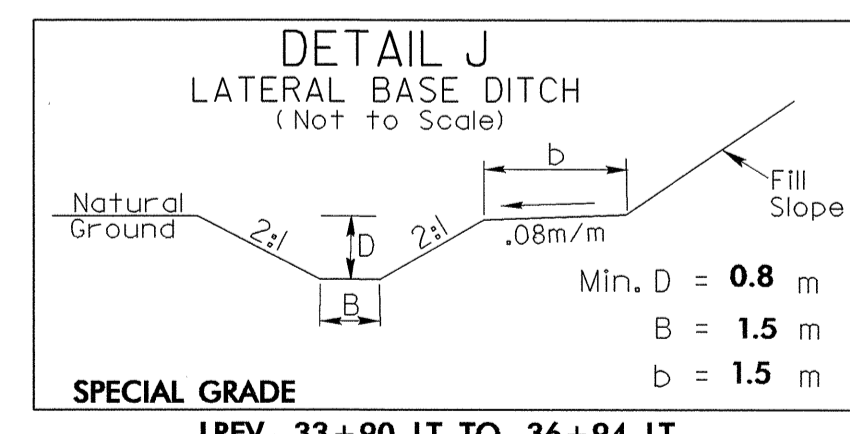
PER SCOUR HOLE

DDE - 30 cu. m.  
 Filter Fabric - 31 sq. m.  
 Class B - 29 Tons  
 PSRM - 53 sq. m.

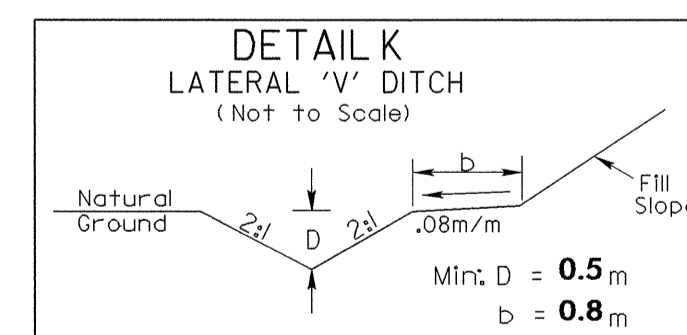
DETAIL OF RIP-RAPPED PREFORMED SCOUR HOLE BASIN



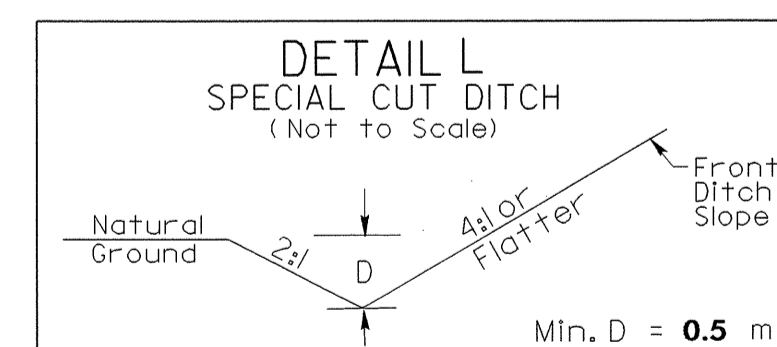
-LREV- 29+10 LT. TO 29+34 LT  
 FF = 54 sm



-LREV- 33+90 LT. TO 36+94 LT



-LREV- 33+66 LT. TO 33+90 LT



-LREV- 35+20 RT. TO 36+50 RT.

03-SEP-2004 10:37  
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