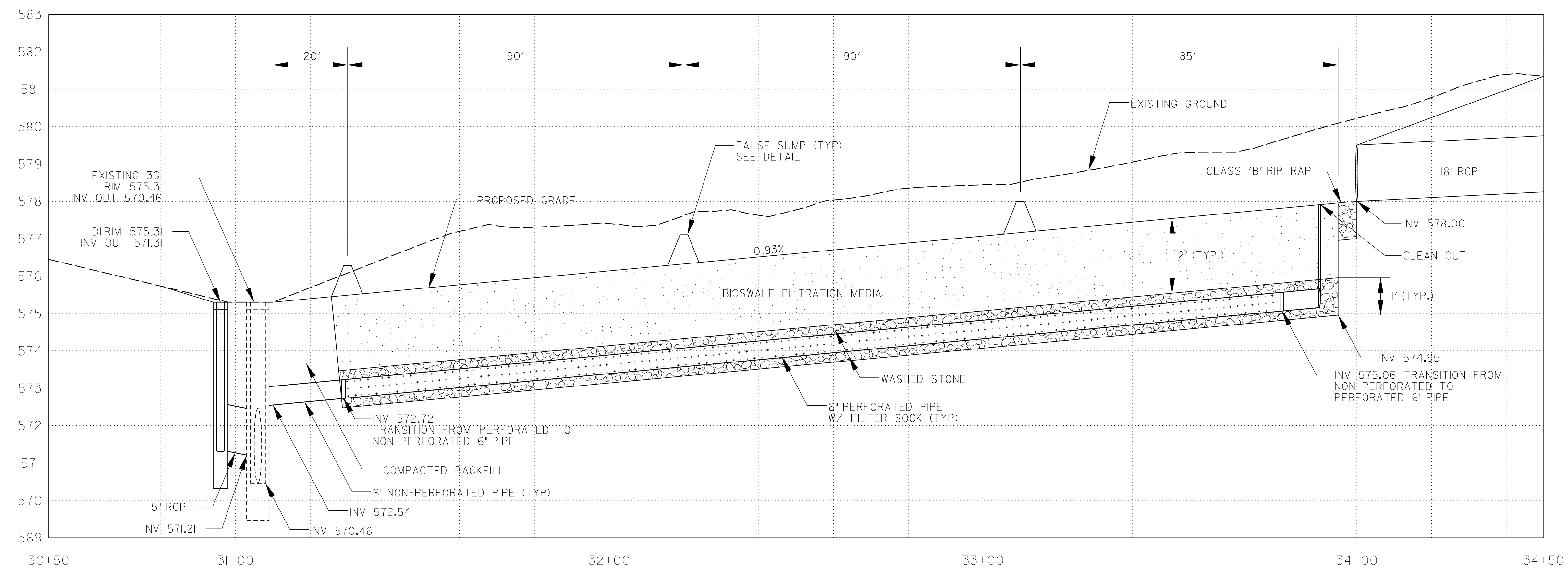


8/17/99

PROJECT REFERENCE NO. B-4626	SHEET NO. 2D-1
RW SHEET NO.	
HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

BIOSWALE PROFILE – STA. 31+00 to STA. 34+00 MEDIAN



REVISIONS

DETAIL A TYPICAL BIOSWALE CROSS-SECTION (Not to Scale)

NOTES:

- PERFORATED, NON-PERFORATED, AND CLEANOUT PIPE MATERIAL SHALL MEET THE AASHTO SPECIFICATIONS FOR EITHER HDPE (SECT. 1032-7 AASHTO M294 FOR TYPE S OR FOR TYPE D – SECT. 1044-7 AASHTO M252) OR PVC (SECT. 1032-8 AASHTO M304, SECT. 1044-6, ASTM D1785).
- PERFORATED UNDERDRAIN PIPES SHALL HAVE A MINIMUM OF 4 ROWS OF PERFORATIONS AT 38-IN DIAMETER PLACED 6-INCHES ON CENTER WITHIN EACH ROW. WRAP WITH FILTER SOCK.
- PROVIDE WATER TIGHT CONNECTIONS USING WATERSTOP OR COMPRESSION GASKET APPROVED BY ENGINEER ON ALL STRUCTURE PENETRATIONS.

DETAIL B FALSE SUMP LONGITUDINAL SECTION (Not to Scale)

NOTES:

- TOP ELEVATION OF BERM SHALL EXTEND ACROSS SWALE BASIN SECTION UNTIL IT INTERSECTS WITH EXISTING GRADE.
- BERM SHALL BE COVERED WITH 3-D GEOTEXTILE PERMANENT SOIL REINFORCEMENT MAT (PSRM) AND BERMUDA SOD. PSRM & BERMUDA SOD SHALL EXTEND 2 FEET BEYOND TOE OF SLOPE.
- 3-D GEOTEXTILE PERMANENT SOIL REINFORCEMENT MAT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH PROJECT SPECIFICATIONS, SPECIAL PROVISIONS AND DETAILS.
- 3-D GEOTEXTILE PERMANENT SOIL REINFORCEMENT MAT MATERIAL ANCHORING METHOD AND INSTALLATION PLAN SHALL BE APPROVED BY NCDOT PRIOR TO INSTALLATION.

DETAIL C RECESSED CLEANOUT W/ CONCRETE COLLAR (Not to Scale)

NOTES:

- CLEANOUT CAP SHALL BE RECESSED 1" MIN. BELOW GROUND, REMOVABLE, WATER TIGHT, AND CLOSED UNDER NORMAL CONDITIONS.
- CONCRETE SHALL BE 3,000 PSI.
- THIS CONCRETE COLLAR DETAIL SHALL BE APPLIED TO ALL CLEANOUTS ON PROJECT.
- USE 45 DEG ELBOWS AT ALL BENDS IN PIPE CLEANOUTS.

DETAIL D PERFORATED PIPE END CLEANOUT (Not to Scale)

NOTE:

- ONLY UNDERDRAIN PIPE SHOULD BE PERFORATED.

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HNTB