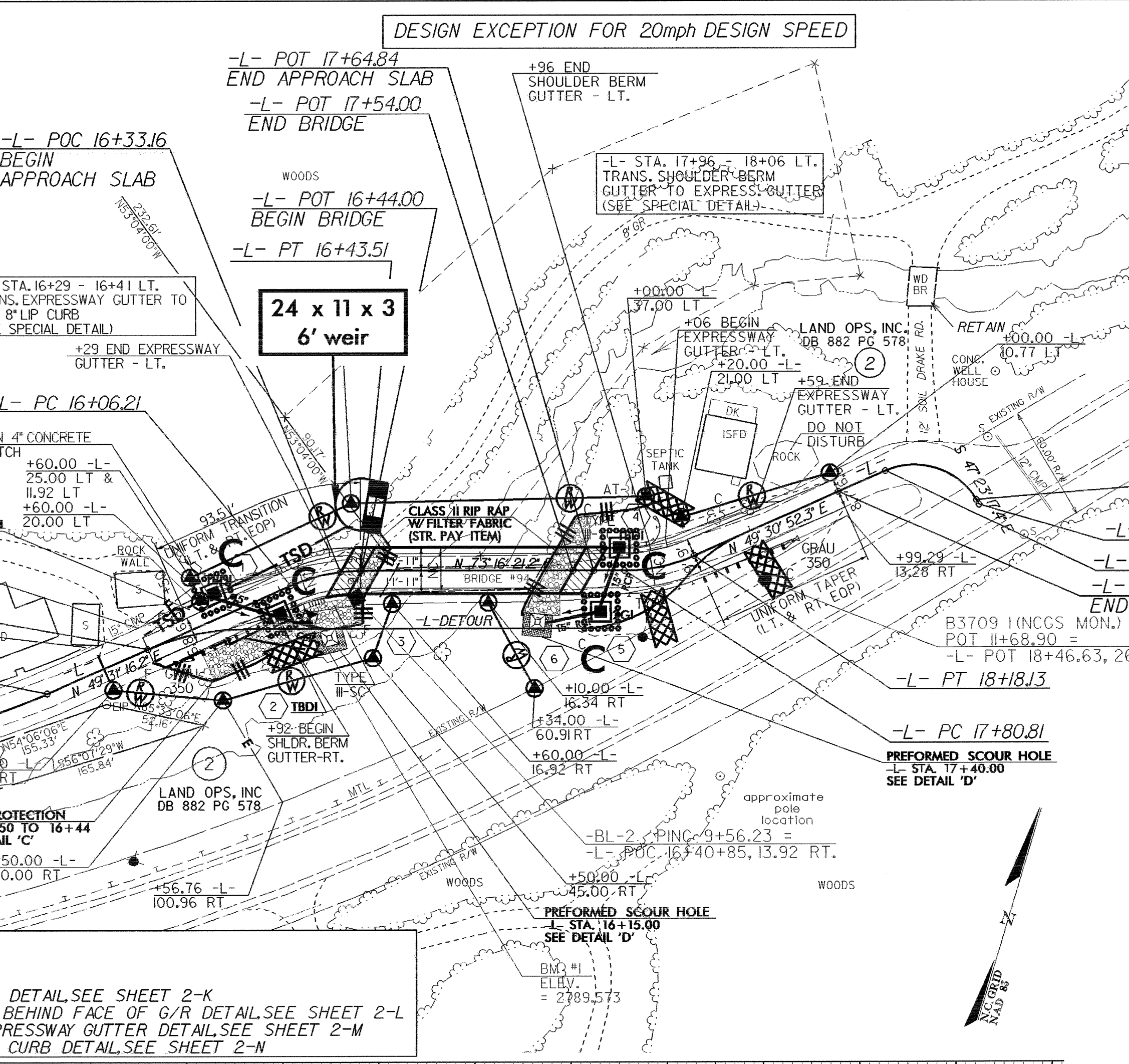
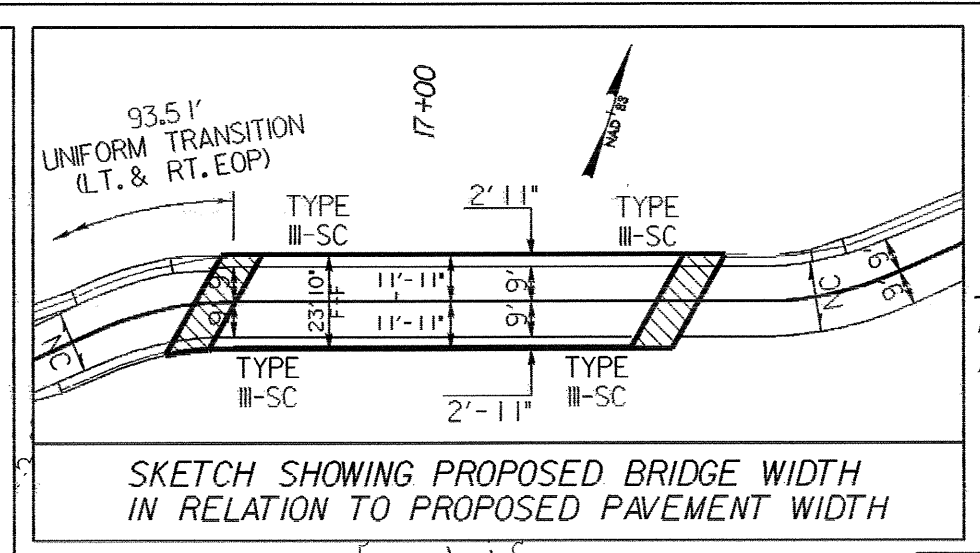
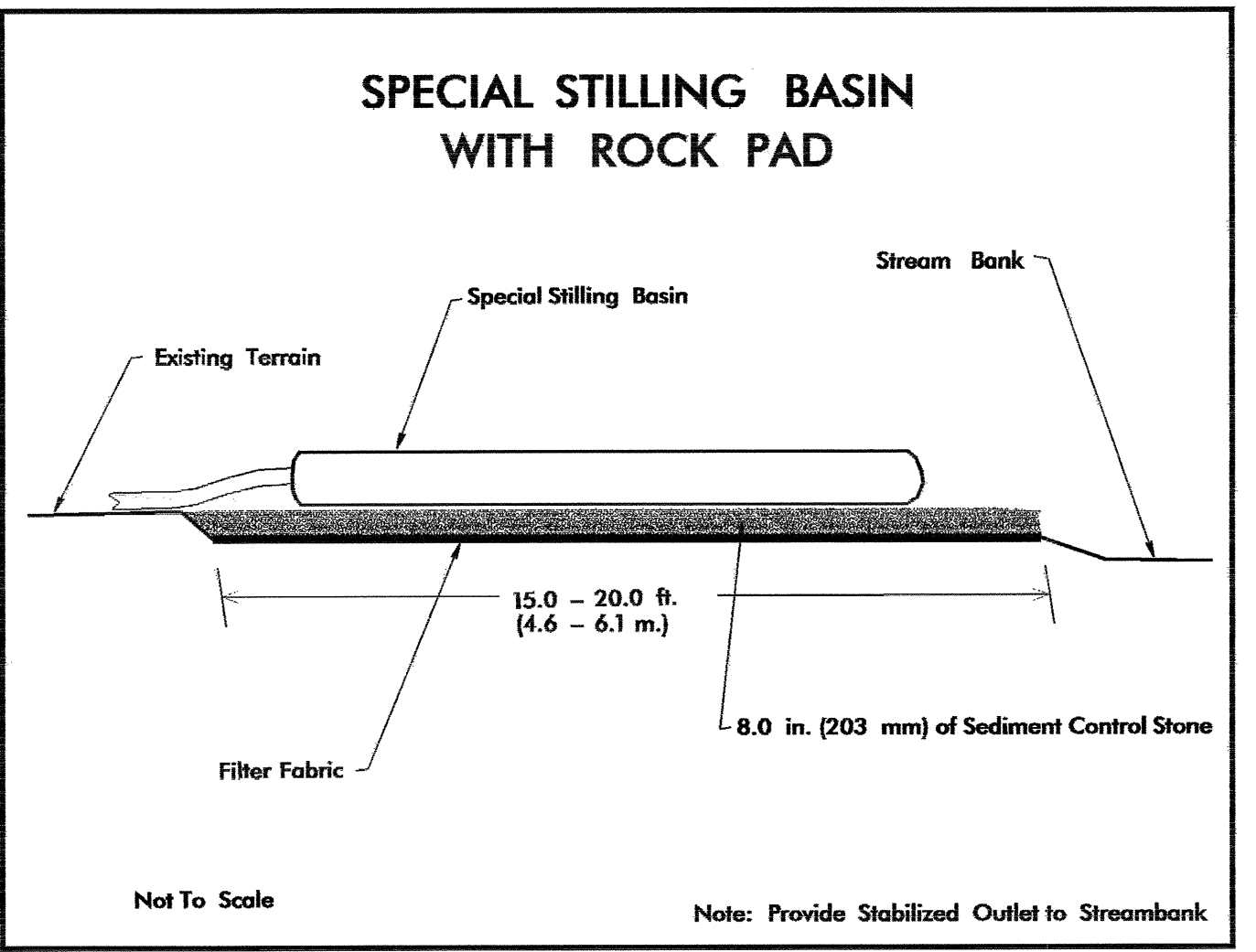


PROJECT REFERENCE NO.	SHEET NO.
B-3709	EC-5/CONST.4
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

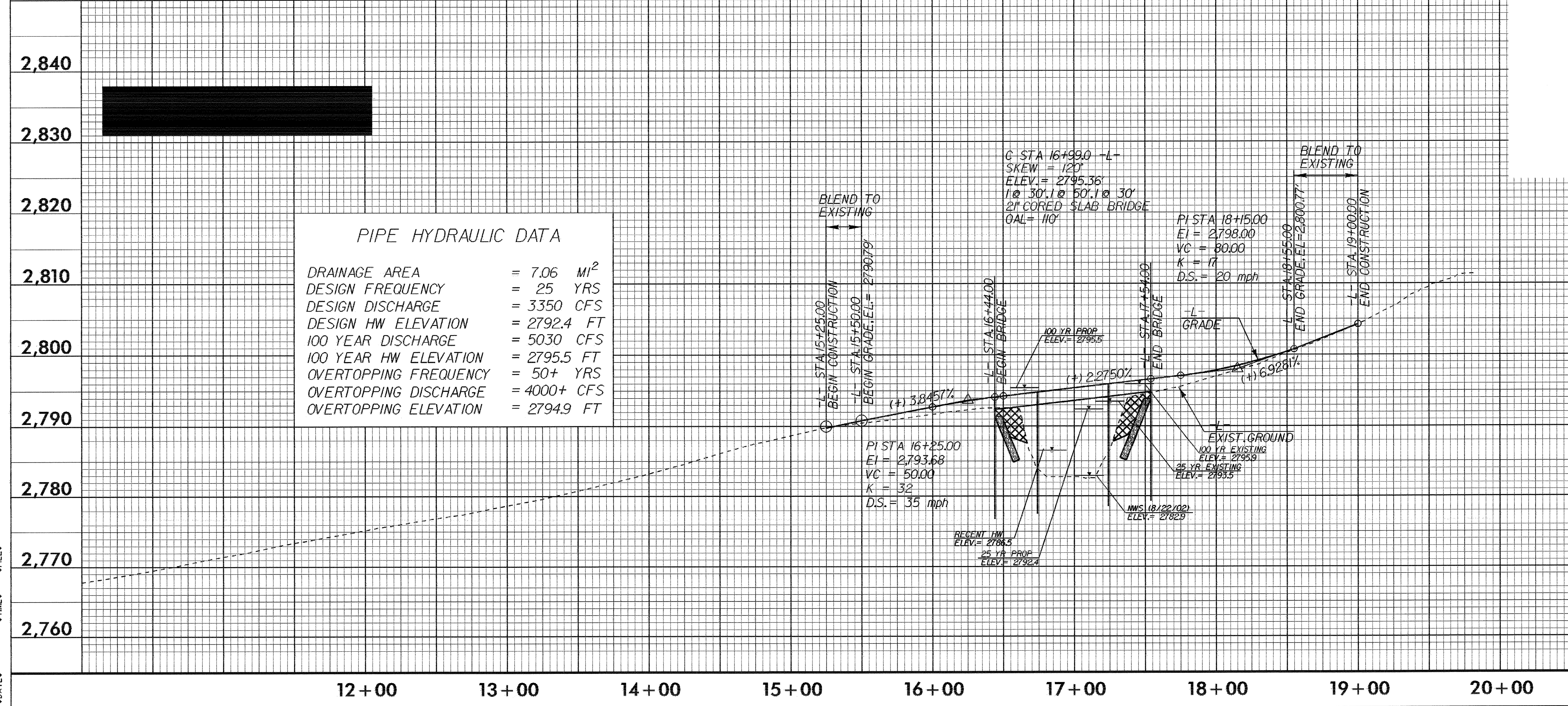
DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B-3709-1" WITH STATE PLANE GRID COORDINATES OF NORTHING: 902083.8946(FH) EASTING: 1,191,700.8974(FH) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99987953 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B-3709-1" TO L- STA. 15+25.00 IS S 66° 58' 43.5" W - 32275 (FH) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29



NOTE:
 UTILIZE SPECIAL STILLING BASIN AS STILLING BASIN WHERE APPLICABLE.



NOTES:
 1- DETOUR SEE SHEET 2-B FOR STRUCTURE SEE SHEET S-1 THRU S-23 FOR TYPE III SHOP CURVED STRUCTURE ANCHOR UNIT DETAIL SEE SHEET 2-K FOR G/R PLACEMENT FOR 2' SHOULDER BREAK POINT BEHIND FACE OF G/R DETAIL SEE SHEET 2-L FOR TRANSITION OF SHOULDER BERM GUTTER TO EXPRESSWAY GUTTER DETAIL SEE SHEET 2-M FOR TRANSITION OF EXPRESSWAY GUTTER TO 4'x8' LIP CURB DETAIL SEE SHEET 2-N

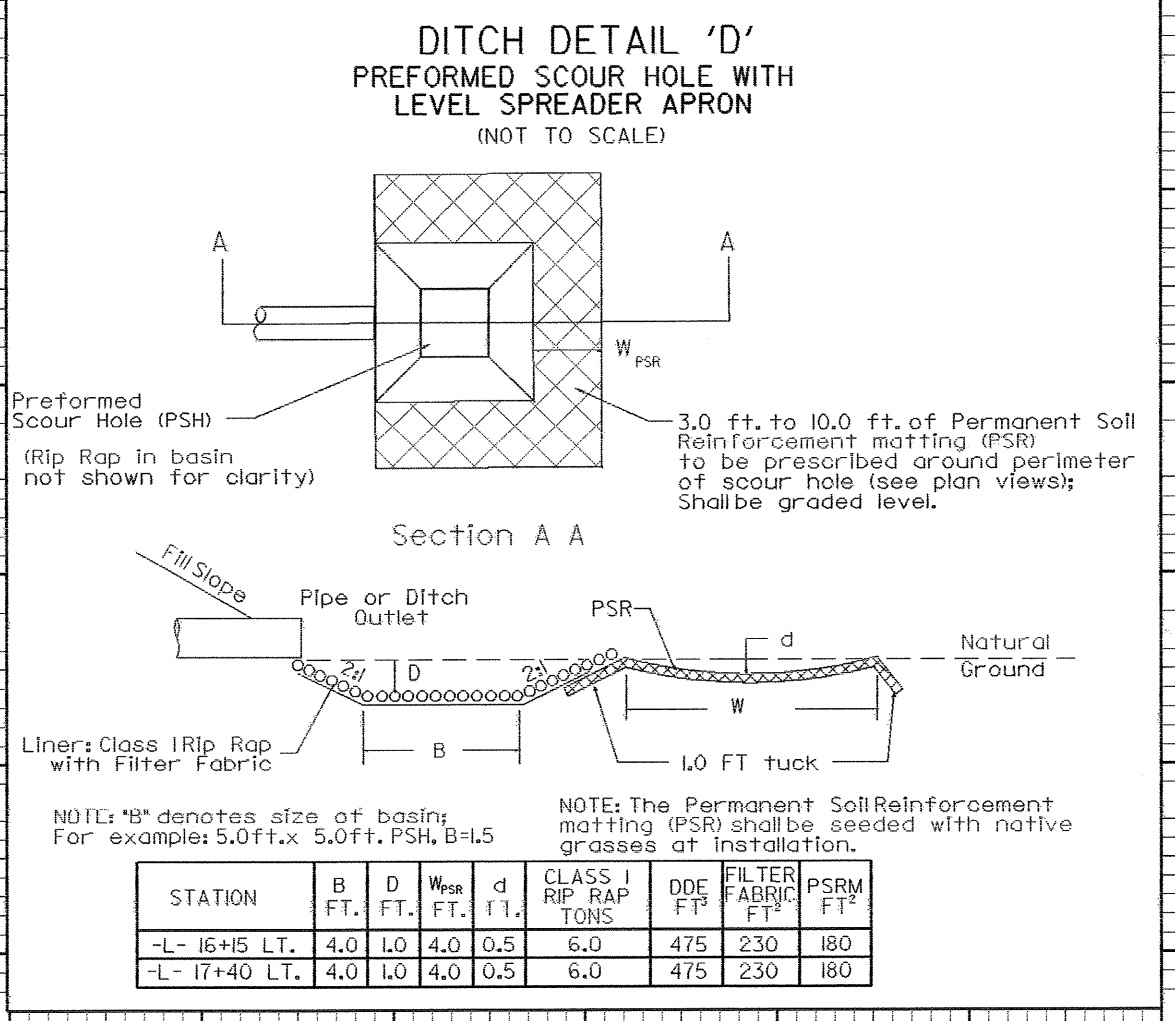


PIPE HYDRAULIC DATA

DRAINAGE AREA	= 7.06 MI ²
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 3350 CFS
DESIGN HW ELEVATION	= 2792.4 FT
100 YEAR DISCHARGE	= 5030 CFS
100 YEAR HW ELEVATION	= 2795.5 FT
OVERTOPPING FREQUENCY	= 50+ YRS
OVERTOPPING DISCHARGE	= 4000+ CFS
OVERTOPPING ELEVATION	= 2794.9 FT

Type of Liner = CLASS 'R' RIP RAP

LINE	STA. TO STA.	RIP RAP (TONS)	FILTER FABRIC (SQ. YDS.)
-L-	15+50 - 16+44 LT.	100	205



STATION	B FT.	D FT.	W _{PSR} FT.	d FT.	CLASS RIP RAP TONS	DOC F.F. FT.	FILTER FABRIC FT ²	PSR FT ²
-L- 16+15 LT.	4.0	1.0	4.0	0.5	6.0	475	230	180
-L- 17+40 LT.	4.0	1.0	4.0	0.5	6.0	475	230	180

#FILES
 #TIMES
 #DATES