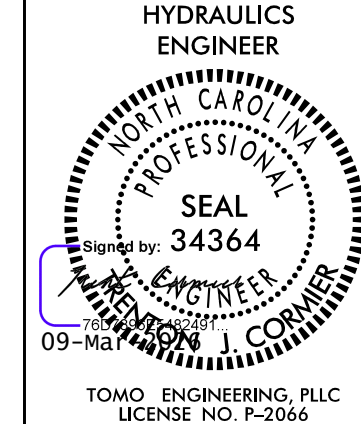



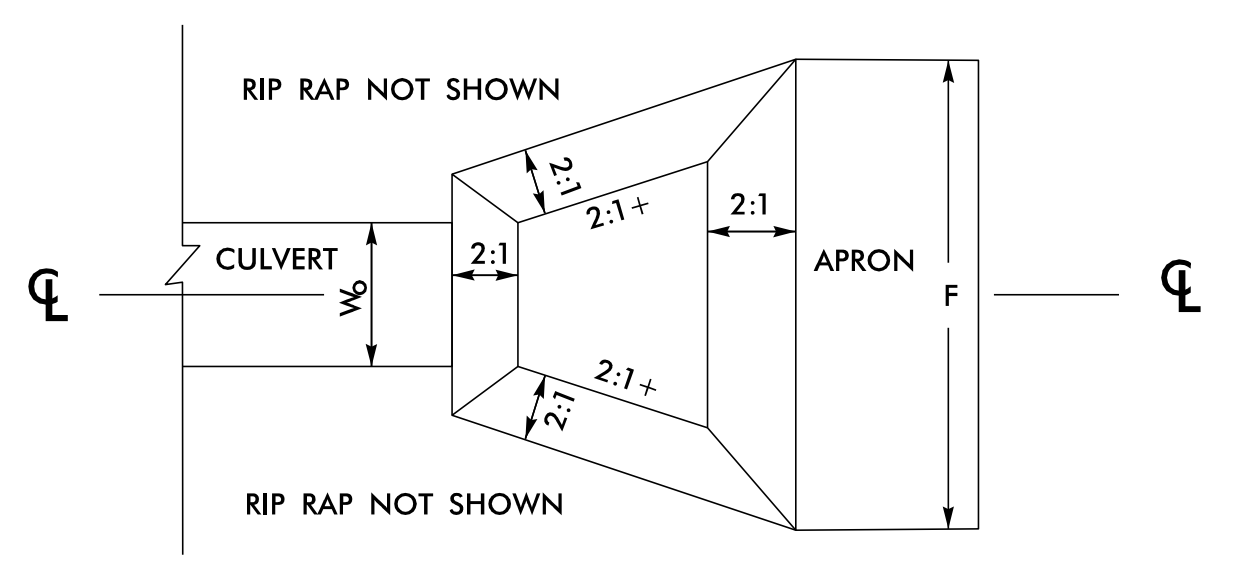
PROJECT REFERENCE NO. BP7.R001	SHEET NO. 2D-1
HYDRAULICS ENGINEER	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
Prepared in the Office of:	 Tomo Engineering, PLLC 2319 Cardinal Drive, Durham, N.C. 27707 N.C.B.E.L.S. License Number: P-2066

### DETAIL 1 CLASS I RIP-RAPPED ENERGY DISSIPATOR BASIN

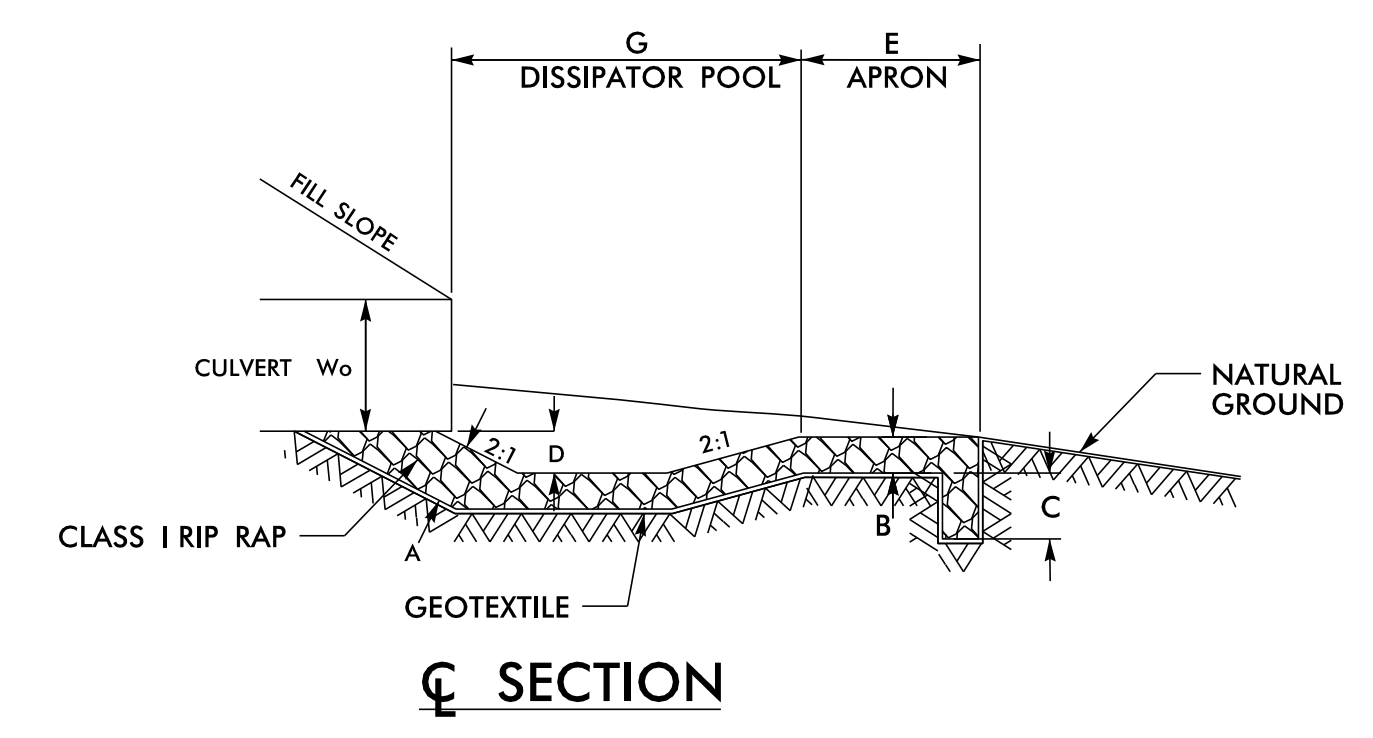
DIM. (ft)	RIP RAP BASIN #
A	3
B	1.5
C	1
D	2
E	10
F	48
G	30

ALL DIMENSIONS APPROXIMATE

BASIN #	LOCATION (AT OUTLET)
1	0422



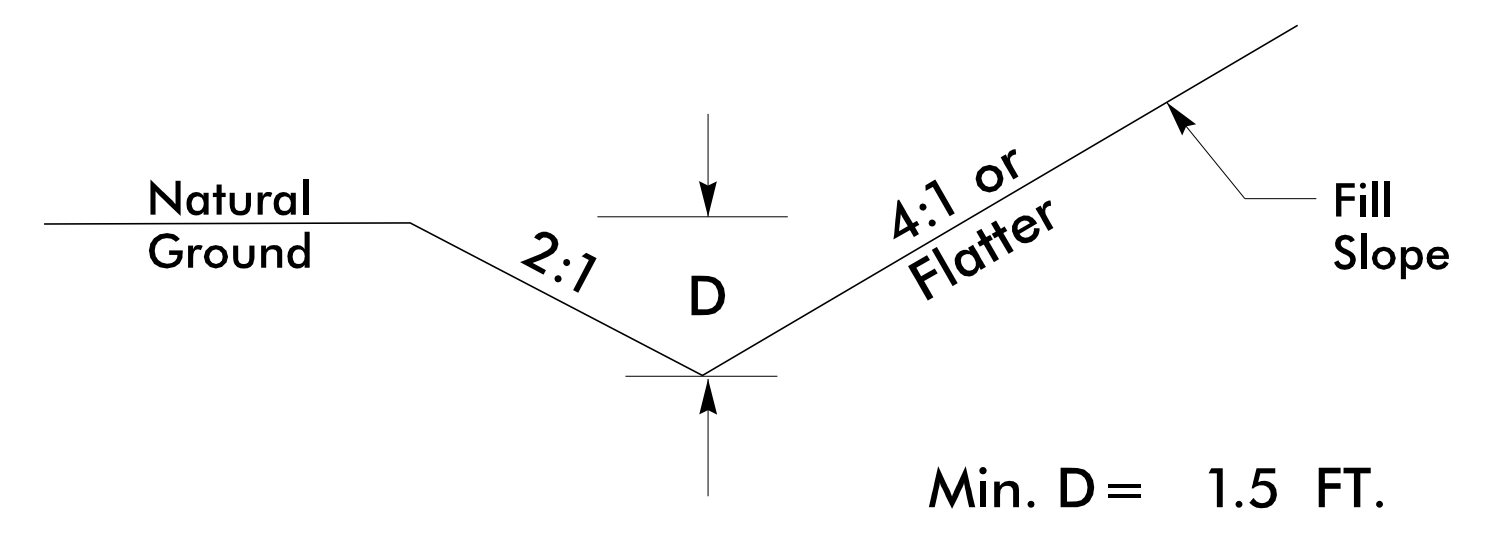
PLAN



SECTION

-L- STA. 13+90 RT

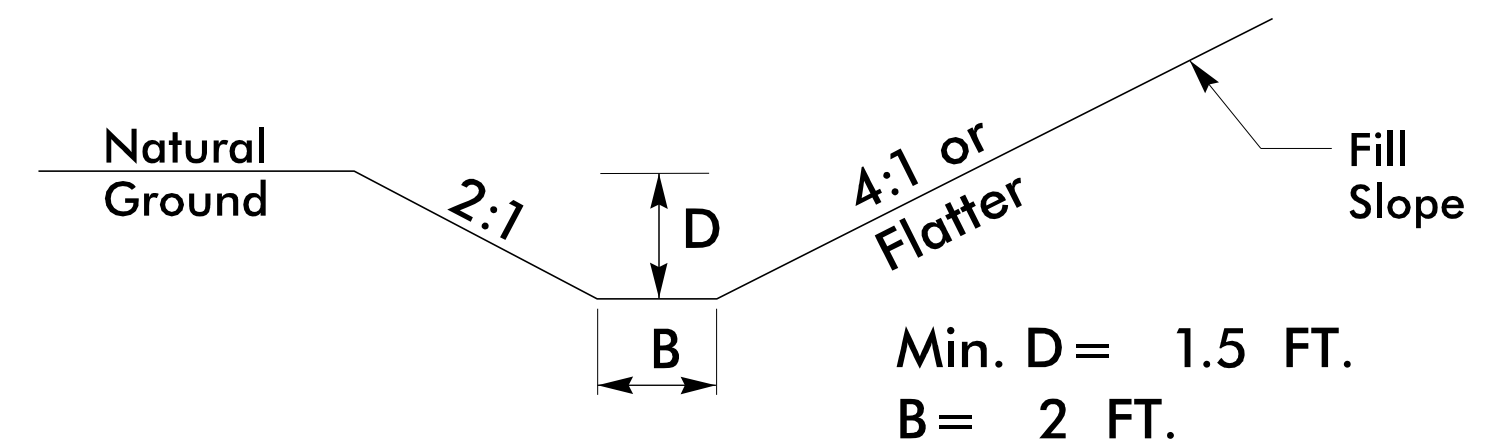
### DETAIL 2 SPECIAL LATERAL 'V' DITCH (Not to Scale)



Min. D = 1.5 FT.

-L- STA. 27+00 TO 29+00 RT

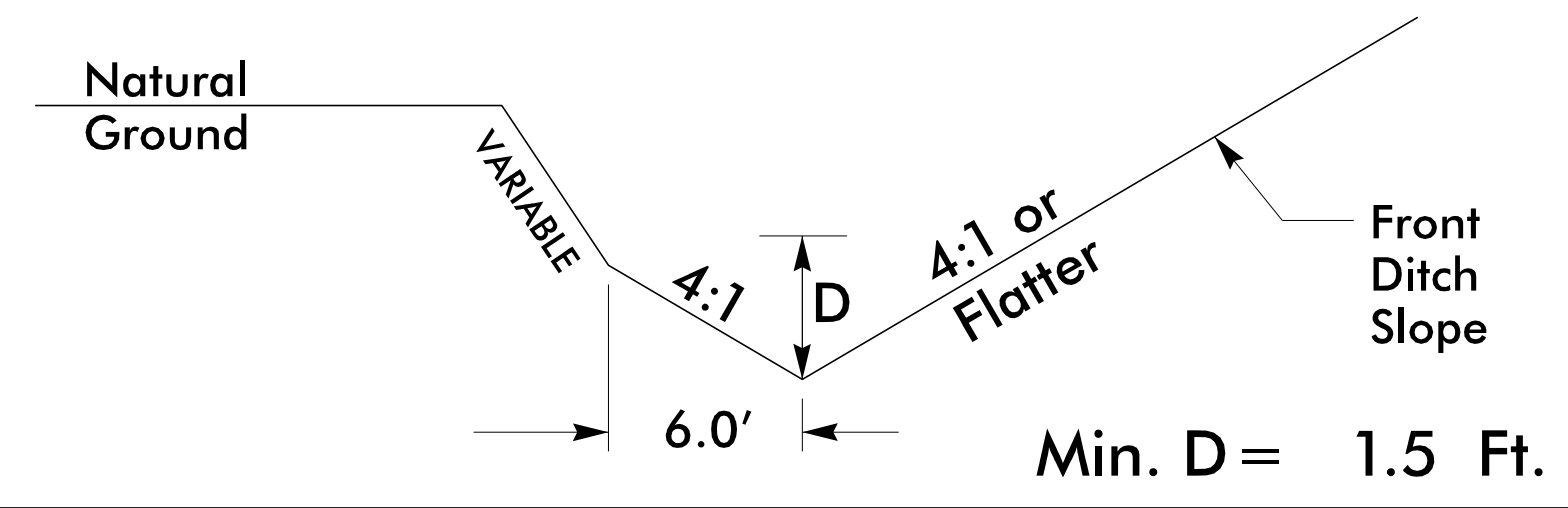
### DETAIL 3 SPECIAL LATERAL BASE DITCH (Not to Scale)



Min. D = 1.5 FT.  
B = 2 FT.

-RPD- STA. 11+00 TO 13+70 RT

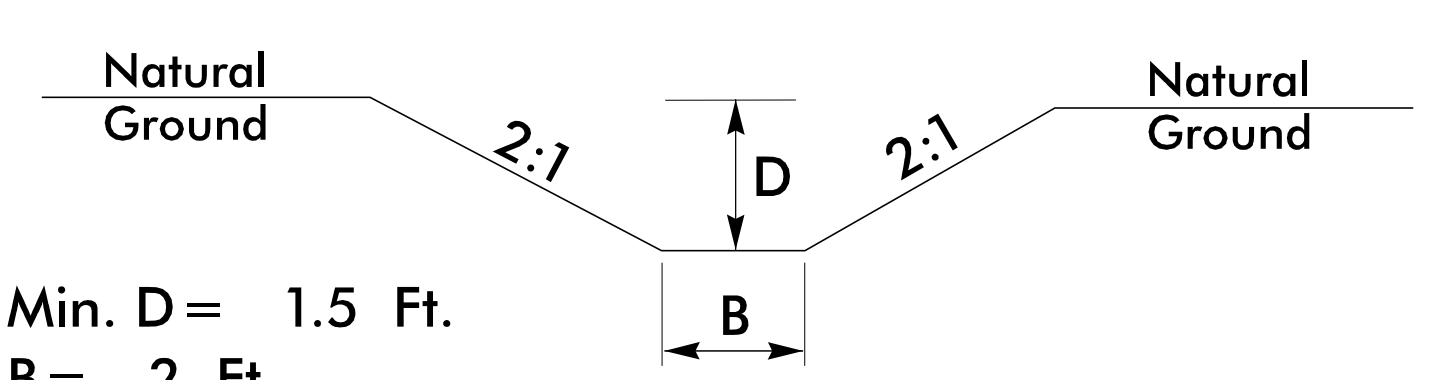
### DETAIL 4 SPECIAL CUT DITCH w/HINGE (Not to Scale)



Min. D = 1.5 Ft.

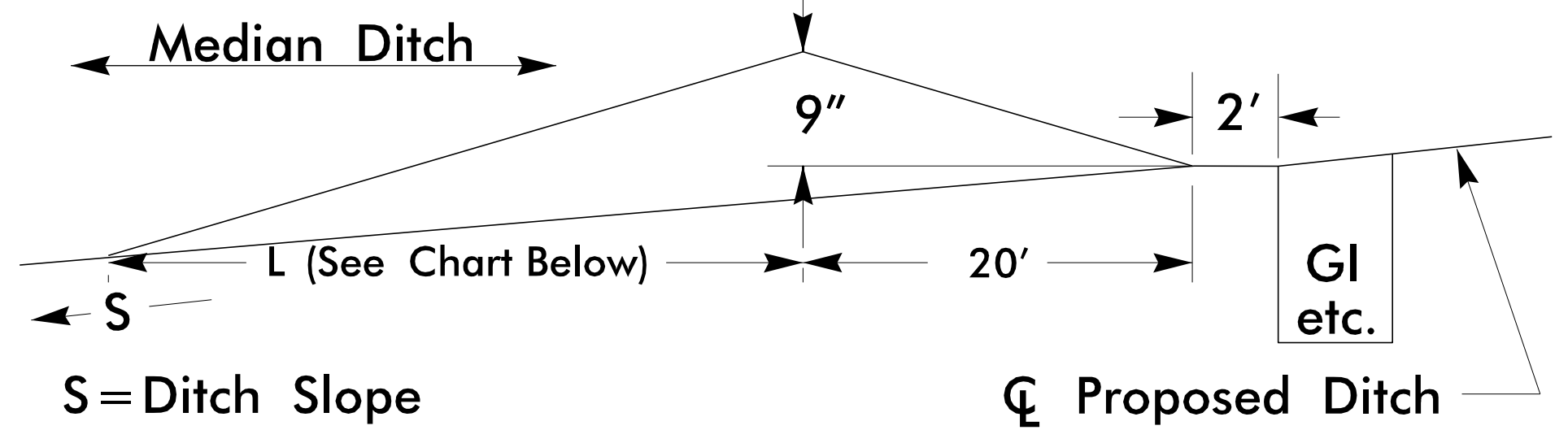
-Y- STA. 26+00 TO 28+00 LT

### DETAIL 5 STANDARD BASE DITCH (Not to Scale)



Min. D = 1.5 Ft.  
B = 2 Ft.

### DETAIL 6 FALSE SUMP (Not to Scale)



Ditch Grade	L	Ditch Grade	L
0.0% To 2.0%	20'	Over 4.0% To 6.0%	40'
Over 2.0% To 4.0%	30'	Over 6.0%	50'

FROM -Y- STA. 21+23 TO STA. 21+53 MED