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BRIDGE NO. 90

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.J25	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 030952 ENGINEER JENNIFER D. FARINO — 11/6/2017

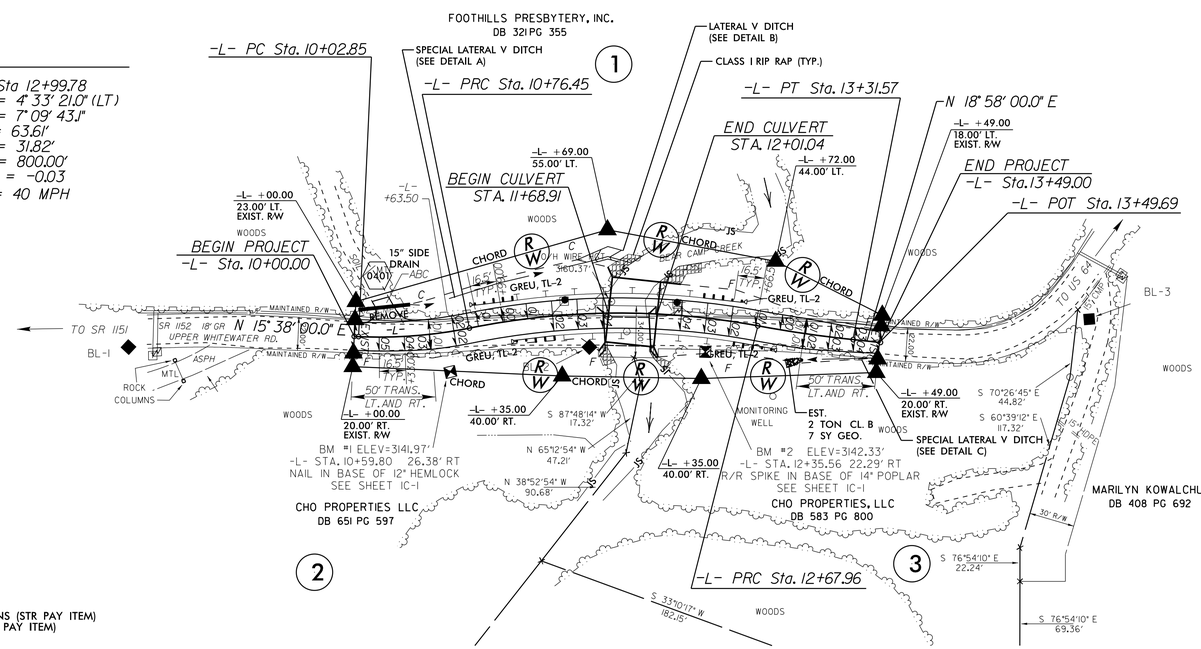
HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 030495 ENGINEER WILL WEATHERSBEE — 11/6/2017

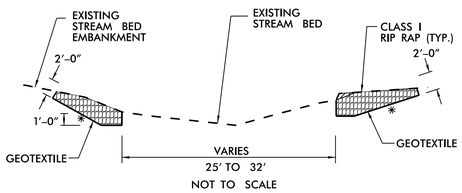
RS&H

NAD 83/NA 2011

-L- CURVE DATA

PI Sta 10+39.84	PI Sta 11+73.39	PI Sta 12+99.78
△ = 14° 03' 21.5" (LT)	△ = 21° 56' 42.4" (RT)	△ = 4° 33' 21.0" (LT)
D = 19° 05' 54.9"	D = 11° 27' 33.0"	D = 7° 09' 43.1"
L = 73.60'	L = 191.51'	L = 63.61'
T = 36.98'	T = 96.94'	T = 31.82'
R = 300.00'	R = 500.00'	R = 800.00'
SE = -0.05	SE = 0.04	SE = -0.03
V = 27 MPH	V = 39 MPH	V = 40 MPH



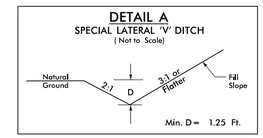


EXCAVATION

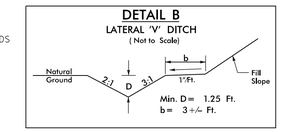
✱ SLOPE VARIES FROM 2:1 TO EXISTING

EST. CLASS I RIP RAP = 76 TONS (STR PAY ITEM)
EST. GEOTEXTILE = 84 SY (STR PAY ITEM)

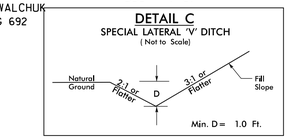
FOR CULVERT PLANS, SEE SHEET C-1 THRU C-4



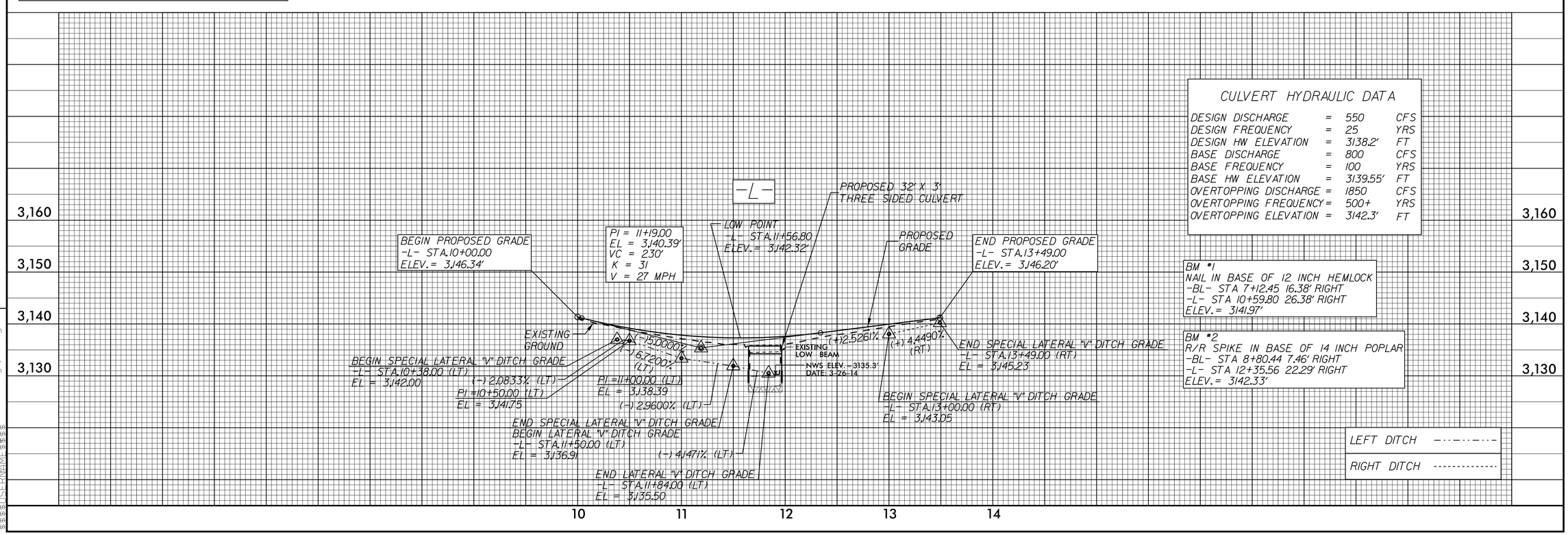
-L- FROM STA. 10+38 TO STA. 11+50 (LT)



-L- FROM STA. 11+50 TO STA. 11+84 (LT)
DDE = 7 CY



-L- FROM STA. 13+00 TO STA. 13+49 (RT)



CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	=	550	CFS
DESIGN FREQUENCY	=	25	YRS
DESIGN HW ELEVATION	=	3138.2'	FT
BASE DISCHARGE	=	800	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	3139.55'	FT
OVERTOPPING DISCHARGE	=	1850	CFS
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING ELEVATION	=	3142.3'	FT

BM #1
NAIL IN BASE OF 12 INCH HEMLOCK
-BL- STA 7+12.45 16.38' RIGHT
-L- STA 10+59.80 26.38' RIGHT
ELEV. = 3141.97'

BM #2
R/R SPIKE IN BASE OF 14 INCH POPLAR
-BL- STA 8+80.44 7.46' RIGHT
-L- STA 12+35.56 22.29' RIGHT
ELEV. = 3142.33'

LEFT DITCH
RIGHT DITCH

REVISIONS

8/17/99

31-OCT-2017 10:57
R:\Roadway\Proj\17BP14R25_H70090_Rdy_psh.dgn
$$$$USERNAME$$$$