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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.123	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 040418 ENGINEER JARED W. BOLD — Docusigned by: Jared W. Bold — 8/29/2017

NORTH CAROLINA PROFESSIONAL SEAL 042564 ENGINEER WILL WEATHERSBEE — Docusigned by: Will Weathersbee — 8/29/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

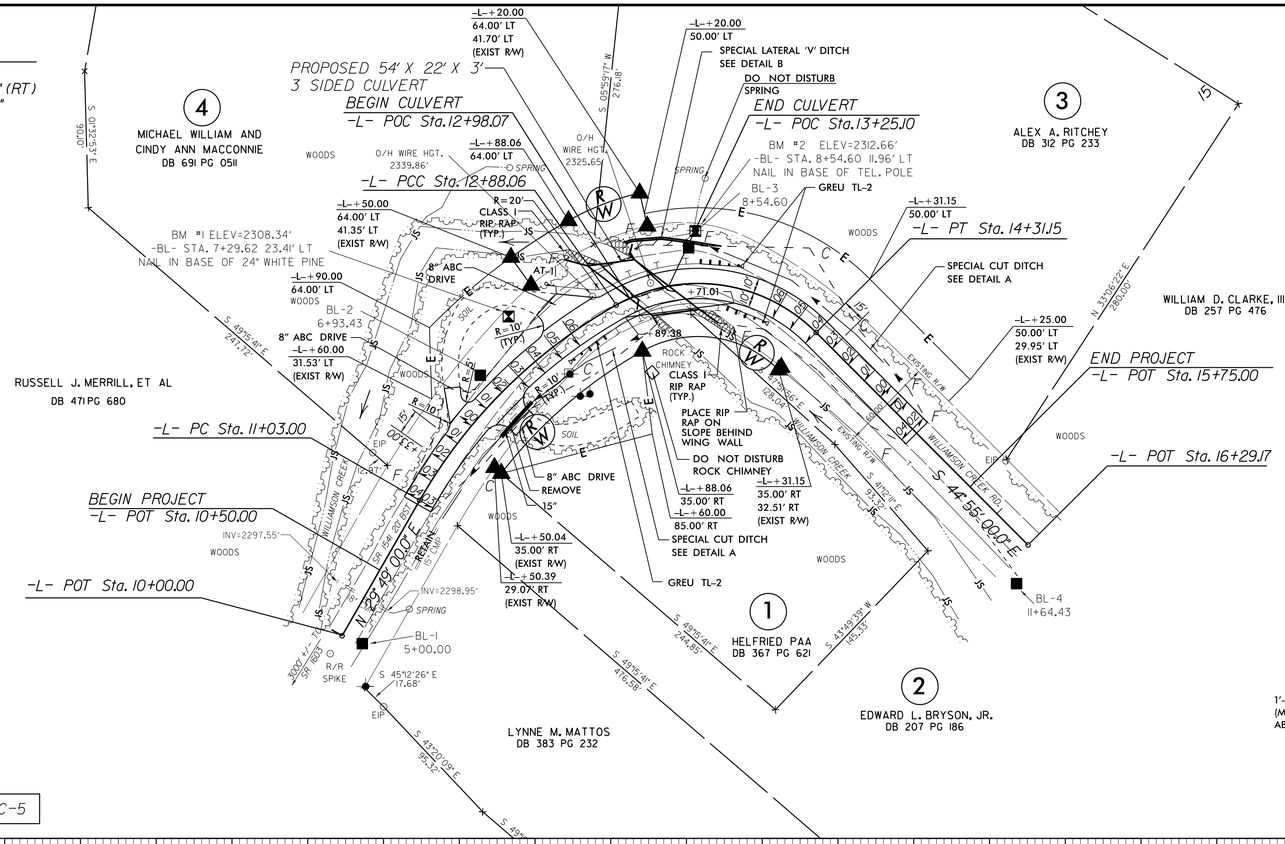
BRIDGE NO. 127

NAD 83/NA 2011

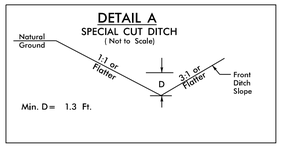
RS&H

-L- CURVE DATA

PI Sta 11+97.81	PI Sta 13+71.75
△ = 30° 43' 58.8" (RT)	△ = 74° 32' 01.2" (RT)
D = 16° 36' 26.9"	D = 52° 05' 13.5"
L = 185.06'	L = 143.09'
T = 94.81'	T = 83.70'
R = 345.00'	R = 110.00'
e = 0.06	e = 0.06
V = 35 MPH	V = 20 MPH

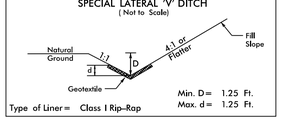


DETAIL A
SPECIAL CUT DITCH
(Not to Scale)



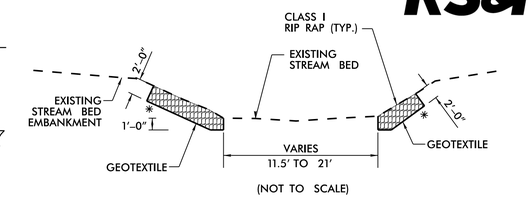
FROM -L- STA. 13+50 TO STA. 15+00 (LT)
FROM -L- STA. 11+00 TO STA. 13+00 (RT)

DETAIL B
SPECIAL LATERAL 'V' DITCH
(Not to Scale)



FROM STA. 13+06 TO STA. 13+50 (LT)

FOR CULVERT PLANS, SEE SHEET C-1 THRU C-5

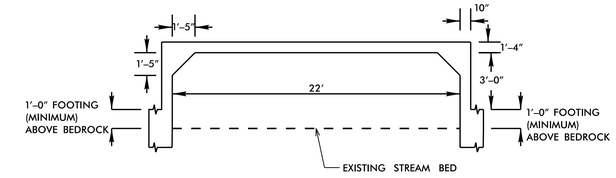


(NOT TO SCALE)

*SLOPE VARIES FROM 2:1 TO EXISTING

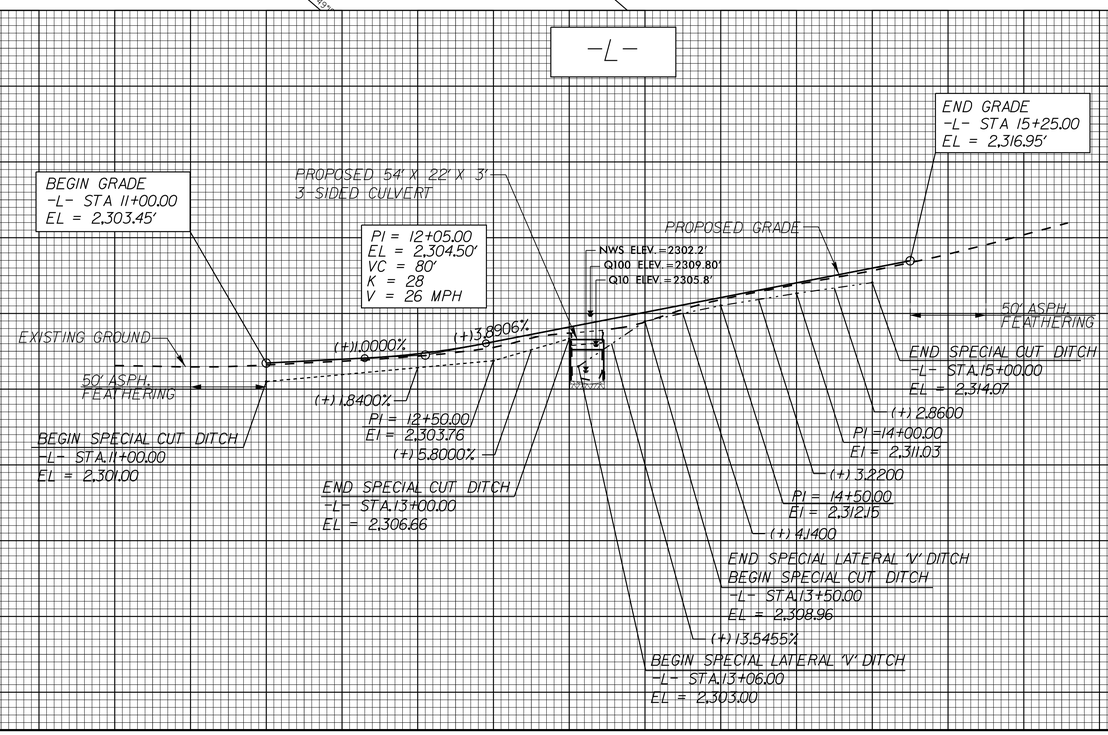
EST. EXCAVATION = 34 CY (STR PAY ITEM)
EST. CLASS I RIP RAP = 56 TONS (STR PAY ITEM)
EST. GEOTEXTILE = 58 SY (STR PAY ITEM)

CHANNEL DETAIL



(NOT TO SCALE)

CULVERT FOOTING DETAIL



CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	=	650	CFS
DESIGN FREQUENCY	=	10	YRS
DESIGN HW ELEVATION	=	2305.8	FT
BASE DISCHARGE	=	1200	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	2309.80	FT
OVERTOPPING DISCHARGE	=	855	CFS
OVERTOPPING FREQUENCY	=	10+	YRS
OVERTOPPING ELEVATION	=	2307.4	FT

BM #1
NAIL IN BASE OF 24" WHITE PINE
-BL- STA.7+29.62 23.41' LT
-L- STA.12+28.08 34.03' LT
ELEV.= 2308.34'

BM #2
NAIL IN BASE OF TEL.POLE
-BL- STA.8+54.60 11.96' LT
-L- STA.13+43.20 34.66' LT
ELEV.= 2312.66'

LEFT DITCH

RIGHT DITCH