5/14/99

PROJECT REFERENCE NO.	SHEET NO.
B-5244	5

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 033136 ENGINEER NITHIAN N. ADIMA

Nathan N. Adima 12/18/2015

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 037526 ENGINEER WYATT D. YELVERTON

Wyatt D. Yelverton 1/4/2016

–L– (SR 3197)

BM #1
-L- Sta 13+52.09 39.80 RT
Elevation 2123.63'
RR Spike Set in Base of 18"
Cherry tree across from BL-2

BEGIN TIP PROJECT
–L– STA 12+50

BEGIN GRADE
–L– STA 12+75
EL. 2125.02

END GRADE
–L– STA 15+25
EL. 2125.89

END TIP PROJECT
–L– STA 15+50

100yr WSEL=2125.42'

℄ BRIDGE
-L- STA. 14+02
GP ELEV. = 2125.5'
1 @ 45' 18" CORED SLAB
SKEW = 120°
VERTICAL ABUTMENTS

(+)0.3480%

2' BASE @2.60%
SP CUT @9.67%
2' BASE @4.24%
SP CUT @10.89%
2' BASE @4.30%
2' BASE @1.28%

MIN. RESURFACING & WIDENING
–L– Sta. 12+50 TO 12+75

STA. 12+75 LT
EL.=2122.75

25yr WSEL=2123.53'

OVERTOPPING ABUTMENT SCOUR

STA. 13+50 LT
EL.=2120.60
STA. 13+50 RT
EL.=2119.53
STA. 13+50 RT
EL.=2119.27

STA. 14+10 RT
EL.=2116.88
STA. 14+25 LT
EL.=2117.70

NWSEL=2118.75'
3-12-14

STA. 14+75 RT
EL.=2121.46
STA. 14+75 LT
EL.=2119.45

STA. 15+25 LT
EL.=2120.49

STA. 15+50 LT
EL.=2121.55

MIN. RESURFACING & WIDENING
–L– Sta. 15+25 TO 15+50

UNCL. EXCAVATION
EST. 91 CY
(STR. PAY ITEM)

2,130
2,120
2,110
2,100
2,090
2,080
2,070
2,060
2,050
2,040
2,030
2,020

10 11 12 13 14 15 16 17 18

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 1250	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 2124.4	FT
BASE DISCHARGE	= 1830	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 2125.61	FT
OVERTOPPING DISCHARGE	= 1299	CFS
OVERTOPPING FREQUENCY	= <50	YRS
OVERTOPPING ELEVATION	= 2124.9	FT

Note: W.S.EL. Taken @ River Station 0.883
Note: Road is overtopped approximately 234 ft from centerline of bridge (at approximately L STA. 11+68 Lt.).

SEE SHEET 4 FOR –L– PLAN

09-NOV-2015 14:58
R:\Roadway\Projects\b5244_rdy_pf1_psh5.dgn
$$USER$$
$$STRUCTURE$$