5/28/99

PROJECT REFERENCE NO.	SHEET NO.
B-3828	5

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 18494 ENGINEER ANTHONY AARON HOUSER
2-21-05

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 19865 ENGINEER WILLIAM S. ZEEMAN, JR.
2-25-05

**DESIGN EXCEPTION REQUIRED FOR THE DESIGN SPEED FROM 45 MPH TO 35 MPH.

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 5200 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 797.9 FT
BASE DISCHARGE	= 7500 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 800.0 FT
OVERTOPPING DISCHARGE	= 8800 CFS
OVERTOPPING FREQUENCY	= 200 YRS
OVERTOPPING ELEVATION	= 800.9 FT

-L-

PI = 14+24.35
EL = 792.69'
VC = 650'
K=50
V=36mph

BEGIN GRADE STA.10+95.00
ELEV. 804.71

BEGIN BRIDGE STA.13+90.00

END BRIDGE STA.15+40.00

END GRADE STA.18+00.00
ELEV. 828.00

54" PRESTRESSED GIRDERS
1 SPAN @ 70' & 1 SPAN @ 80'

(+)1.9400%

(-) 2.0000%

(-)3.6500%

(-) 0.3226%

BM#1
-L- STA.10+13.18 64.19RT
ELEV= 804.30'

BM#2
-L- STA.16+11.53 68.76 RT
ELEV= 812.61'

STRUCTURE EXCAVATION
SEE STRUCTURE PLANS

BEGIN LATERAL BASE DITCH
PI =13+90.00 LT.
EL = 791.60

PI =14+00.00 PIER 4+00.000
EL = 791.40

END LATERAL BASE DITCH
PI =14+31.00 LT
EL = 791.30

FOR -L- ALIGNMENT SEE SHEET 4

10 11 12 13 14 15 16 17 18 19

760 770 780 790 800 810 820 830 840

17-FEB-2005 15:23
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