PROJECT REFERENCE NO.	SHEET NO.
B-4039	5

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 27771 ENGINEER MATTHEW B. COPPLE 11/13/06

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 9334 ENGINEER H. HENRY WELLS, JR. 12/5/06

B.M.#2 ELEV. = 1085.31
8" NAIL SET IN BASE OF 12" BIRCH
175' LT. OF -BL- STA.15+75
186.06' LT.OF -L- STA.12+71.81

BEGIN FEATHERING
-L- STA.10+00.00
TIE TO EXIST.

BEGIN GRADE
-L- STA 10+50.00
ELEV. = 1085.28
(INCLUDES 1.25" OVERLAY)

PI = 12+14.75
EL = 1,085.30'
VC = 240'
K = 182

(+)0.0124%

BEGIN PROP. BRIDGE
-L- STA = 13+52.00
ELEV. = 1087.13

(+)1.3321%

END PROP. BRIDGE
-L- STA = 14+72.00
ELEV. = 1088.73

PI = 16+00.00
EL = 1,090.43'
VC = 230'
K = 87

PROPOSED GRADE

(+)1.3321%

EXISTING GROUND

CL.II RIP RAP TO TOP OF BERM (TYP.)

1½:1 SLOPE (TYP.)

WS & WSE = 107.3.76
SURVEY 04-05-2004

END GRADE
-L- STA 17+50.00
ELEV. = 1096.41
(INCLUDES 1.25" OVERLAY)

END RESURFACING
-L- STA 18+50.00
ELEV. = 1100.91

(+)3.9839%

END FEATHERING
-L- STA.19+00.00
TIE TO EXIST.

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 3,500 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 1083.7 FT.
BASE DISCHARGE	= 5,100 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 1086.3 FT
OVERTOPPING DISCHARGE	= 4,300 CFS
OVERTOPPING FREQUENCY	= 50 YR.
OVERTOPPING ELEVATION	= 1085.2 FT

-L-
(FOR PLAN, SEE SHEET NO.4)

BEGIN GRADE
-Y- STA 10+12.00
ELEV. = 1093.42

(-)2.0000%

PI = 11+20.00
EL = 1,084.52'
VC = 40'
K = 4

(-)14.2516%

END GRADE
-Y- STA 11+40.00
ELEV. = 1083.67

(-)4.2683%

PI = 10+65.00
EL = 1,092.36'
VC = 40'
K = 3

-Y-
(FOR PLAN, SEE SHEET NO.4)

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-26

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