

5/14/99

PROJECT REFERENCE NO. B-5546	SHEET NO. 5
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 020111 NINA K. BOYALUK ENGINEER	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 039168 ERNEST J. HUBB ENGINEER
DocuSigned by: 7/26/2016	DocuSigned by: 7/26/2016

DITCH LEGEND
LEFT DITCH - - - - -

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1,900	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 516.8	FT
BASE DISCHARGE	= 2,801	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 518.15	FT
OVERTOPPING DISCHARGE	= 6,000	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 520.9	FT

DATE OF SURVEY	= SEP 13, 2014
W.S. ELEVATION AT DATE OF SURVEY	= 507.8 FT

BM#1
SEE SHEET IC-1

-L-

BEGIN GRADE
-L- STA. 11+25.00
ELEV. = 525.89'

END GRADE
-L- STA. 17+25.00
ELEV. 535.29'

☉ STA 13+56 -L-
1@77'3" 33-INCH BOX BEAM
WITH 4-FOOT CAPS
GRADE POINT ELEVATION = 520.87
90-DEGREE SKEW

PI = 12+38.50
EL = 521.31'
VC = 120'
K = 33*
V = 25MPH*

PI = 15+30.00
EL = 520.23'
VC = 245'
K = 30*
V = 25MPH*

BEGIN DITCH LT
STA 12+00.00
EL = 520.53'

PI = 12+50.00
EI = 518.00'

END DITCH LT
STA 13+15.00
EL = 515.40'

*DESIGN EXCEPTION REQUIRED FOR
SAG VERTICAL CURVE, K FACTOR, AND
NIGHTTIME STOPPING SIGHT DISTANCE

SEE SHEET 4 FOR PLAN VIEW

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