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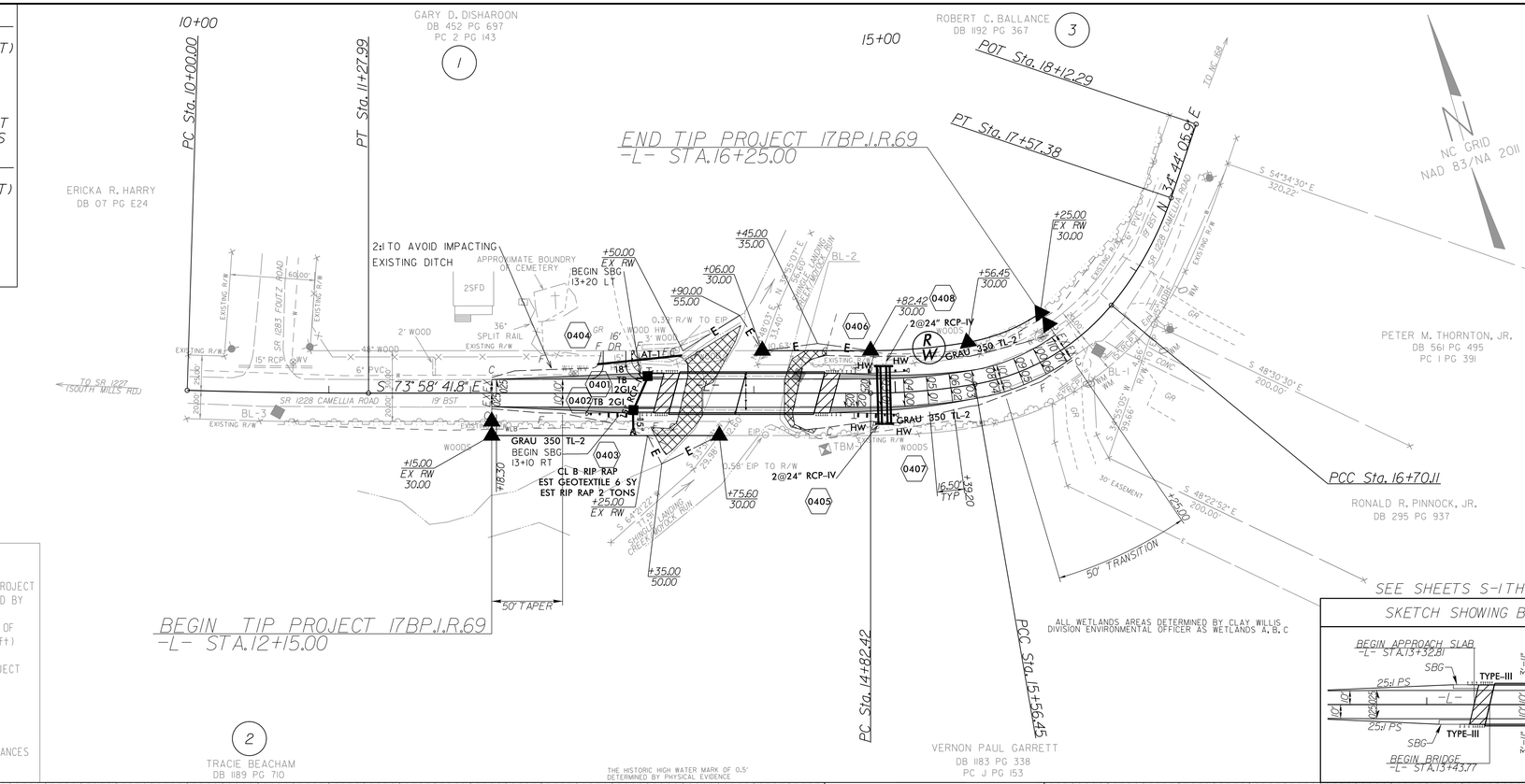
8/17/99

REVISIONS

-L-	
PI Sta 10+64.00	PI Sta 15+19.52
△ = 1° 44' 54.8" (LT)	△ = 9° 45' 00.0" (LT)
D = 1° 21' 58.2"	D = 13° 10' 17.2"
L = 127.99'	L = 74.02'
T = 64.00'	T = 37.10'
R = 4,193.90'	R = 435.00'
SE = EXIST.	SE = 0.04 FT/FT
RO = N/A	RO = SEE PLANS

-L-	
PI Sta 16+15.80	PI Sta 17+14.23
△ = 40° 42' 12.4" (LT)	△ = 20° 50' 00.0" (LT)
D = 35° 48' 35.5"	D = 23° 52' 23.7"
L = 113.67'	L = 87.27'
T = 59.35'	T = 44.12'
R = 160.00'	R = 240.00'
SE = EXIST.	SE = EXIST.
RO = SEE PLANS	RO = N/A



PROJECT REFERENCE NO.	SHEET NO.
17BP.1.R.69	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
Bob A. May
NORTH CAROLINA PROFESSIONAL SEAL 21116 ENGINEER BOB A. MAY
6/19/2015

HYDRAULICS ENGINEER
Anne Gamber
NORTH CAROLINA PROFESSIONAL SEAL 23454 ENGINEER ANNE D. GAMBER
6/22/2015

WETHERILL ENGINEERING
559 Jones Franklin Rd. Suite 164
Raleigh, N.C. 27606
Liscense No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

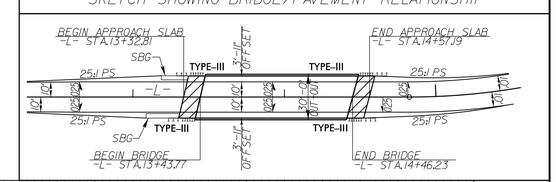
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DATUM DESCRIPTION

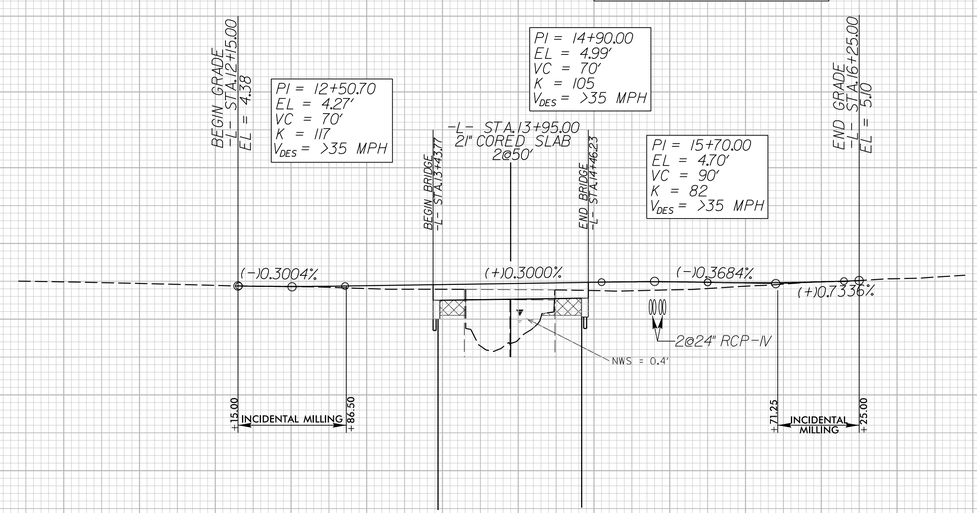
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY JOYNER/KEENY FOR MONUMENT "GPS BL-4"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 1021308.86(ft) EASTING: 2827516.93(ft)
ELEVATION: 8.08(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.000124749
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS BL-4" TO -L- STATION 12+15.00
S 69° 57' 54.78" E 681.39'
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

SEE SHEETS S-1 THRU S-20 FOR STRUCTURE PLANS

SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP



TBM-1 ELEVATION = 3.79
N 1020972 E 2828372
BL STATION 14+15.00 54' RIGHT
RR SPIKE IN 36" CYPRESS



BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 1,270	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 3.8	FT
BASE DISCHARGE	= 1,860	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 5.07	FT
OVERTOPPING DISCHARGE	= 1,520	CFS
OVERTOPPING FREQUENCY	= 50+	YRS
OVERTOPPING ELEVATION	= 4.5	FT
DATE OF SURVEY	= 1-16-2014	
W.S. ELEVATION AT DATE OF SURVEY	= -0.21	FT

10 11 12 13 14 15 16

6/18/2015
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