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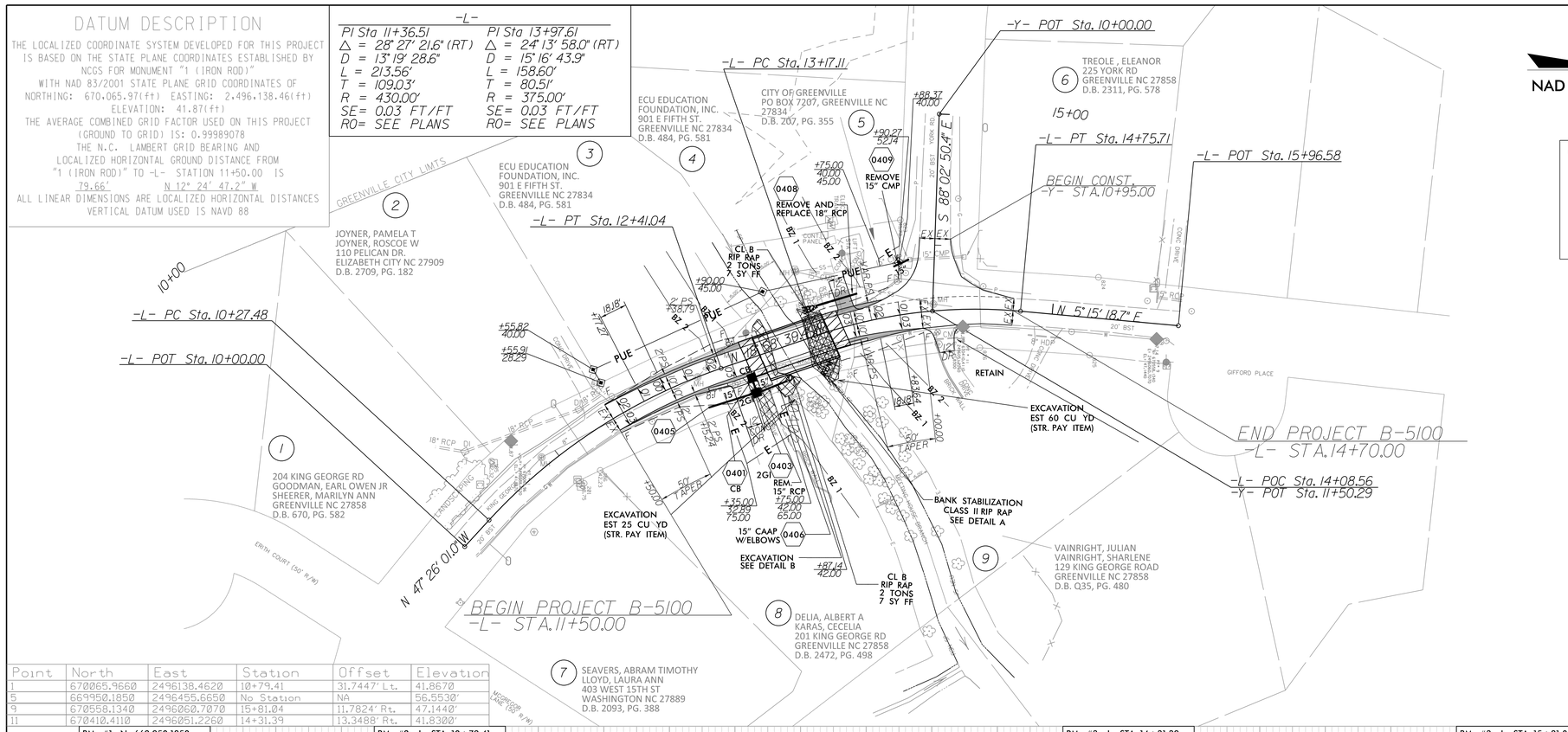
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "1 (IRON ROD)" WITH NAD 83/2001 STATE PLANE GRID COORDINATES OF NORTHING: 670,065.97(ft) EASTING: 2,496,138.46(ft) ELEVATION: 41.87(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989078
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "1 (IRON ROD)" TO -L- STATION 11+50.00 IS 79.66' N 12° 24' 47.2" W
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

-L-	
PI Sta 11+36.51	PI Sta 13+97.61
△ = 28° 27' 21.6" (RT)	△ = 24° 13' 58.0" (RT)
D = 13° 19' 28.6"	D = 15° 16' 43.9"
L = 213.56'	L = 158.60'
T = 109.03'	T = 80.51'
R = 430.00'	R = 375.00'
SE = 0.03 FT/FT	SE = 0.03 FT/FT
RO= SEE PLANS	RO= SEE PLANS



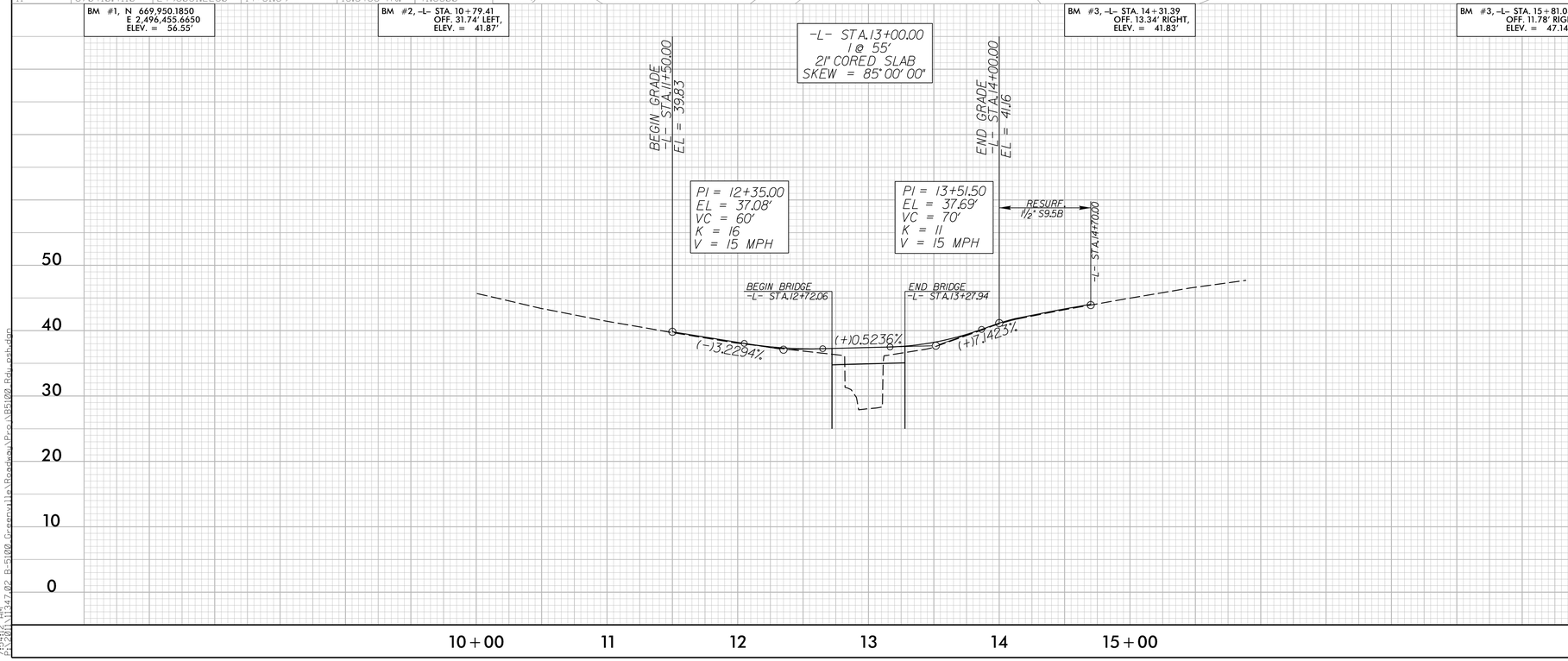
Point	North	East	Station	Offset	Elevation
1	670065.9660	2496138.4620	10+79.41	31.7447' Lt.	41.8670
5	669950.1850	2496455.6650	No Station	NA	56.5530'
9	670558.1340	2496060.7070	15+81.04	11.7824' Rt.	47.1440'
11	670410.4110	2496051.2260	14+31.39	13.3488' Rt.	41.8300'

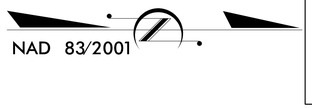
BM #1, N 669,950.1850 E 2,496,455.6650 ELEV. = 56.55'

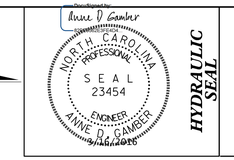
BM #2, -L- STA. 10+79.41 OFF. 31.74' LEFT, ELEV. = 41.87'

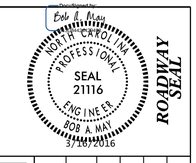
BM #3, -L- STA. 14+31.39 OFF. 13.34' RIGHT, ELEV. = 41.83'

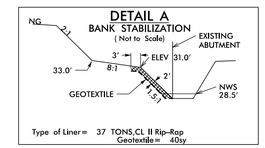
BM #3, -L- STA. 15+81.04 OFF. 11.78' RIGHT, ELEV. = 47.14'



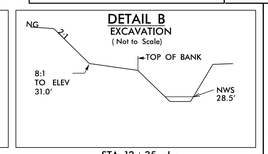




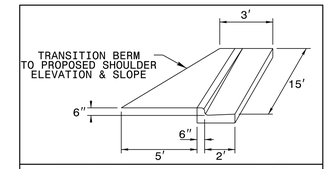




STA. 13+15 -L-

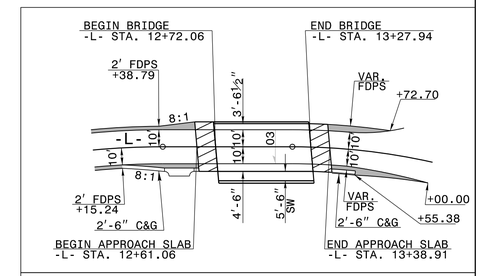


STA. 12+35 -L-



DETAIL FOR TRANSITION OF CURB & BERM

-L- STA. 12+16.77 TO -L- STA. 12+41.77 RT.
-L- STA. 13+40.38 TO -L- STA. 13+55.38 RT.



SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP

SEE SHEET S-1 THRU S-21 FOR STRUCTURE PLANS

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 750	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 34.50	FT
BASE DISCHARGE	= 1100	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 35.50	FT
OVERTOPPING DISCHARGE	= 1900	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 37.70	FT
DATE OF SURVEY	= 8/16/2011	
W.S.ELEVATION AT DATE OF SURVEY	= 28.50	FT

REVISIONS			
NO.	DATE	DESCRIPTION	BY

1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
License No. F-0377

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

B-5100, BRIDGE NO. 421

PITT COUNTY — CITY OF GREENVILLE — NORTH CAROLINA

PLAN & PROFILE

DATE:	9/12/2011
SCALE:	1" = 50'
DRAWN:	BAM
CHECKED:	
PROJ. NO.:	B-5100
SHEET:	4

3/30/2016 2:45:17 PM
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