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8/17/99

REVISIONS

BRIDGE NO. 520087

PROJECT REFERENCE NO.	SHEET NO.
17BP.8.R.113	4
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
2/21/2017
NORTH CAROLINA PROFESSIONAL SEAL 034371 ENGINEER BRANDON W. JOHNSON
DocuSigned by: Brandon W. Johnson
6A29A1A4A9A7A4A...

HYDRAULICS ENGINEER
2/22/2017
NORTH CAROLINA PROFESSIONAL SEAL 040744 ENGINEER JAMES A. CROUSE
DocuSigned by: James A. Crouse
C1A1A1A1A1A1A1A...

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVICES
NC FIRM LICENSE No: P-0339
504 Meadowlands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

FOR ROW, PROPERTY INFORMATION AND DIMENSIONS SEE SHEET 2B-1

-L-

PI Sta 10+98.28
△ = 12° 18' 32.1" (LT)
D = 6° 21' 58.3"
L = 193.35'
T = 97.05'
R = 900.00'

PI Sta 13+21.85
△ = 2° 08' 08.7" (LT)
D = 0° 56' 21.4"
L = 227.38'
T = 113.71'
R = 6,100.00'
SE = RC
DS = 55 MPH

PI Sta 17+11.16
△ = 8° 27' 33.0" (LT)
D = 4° 05' 33.2"
L = 206.70'
T = 103.54'
R = 1,400.00'
SE = 07
DS = 55 MPH

PI Sta 19+84.98
△ = 8° 06' 45.9" (LT)
D = 2° 22' 51.3"
L = 340.74'
T = 170.66'
R = 2,406.45'

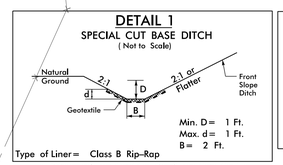
-DRV-

PI Sta 10+41.92
△ = 90° 31' 17.7" (LT)
D = 229° 10' 59.2"
L = 39.50'
T = 25.23'
R = 25.00'

PI Sta 11+36.12
△ = 100° 42' 12.5" (RT)
D = 163° 42' 08.0"
L = 61.52'
T = 42.24'
R = 35.00'

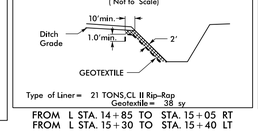
NC GRID NAD 83 NA 2011

DETAIL 1
SPECIAL CUT BASE DITCH
(Not to Scale)



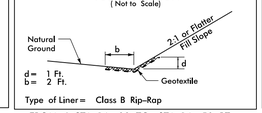
Type of Liner= Class B Rip-Rap
FROM L STA. 13+00 TO STA. 13+58 RT
FROM L STA. 15+33 TO STA. 15+65 LT

DETAIL 2
RIP RAP AT EMBANKMENT
(Not to Scale)



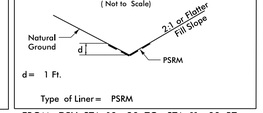
Type of Liner= 21 TONS,CL II Rip-Rap
Geotextile= 38 sy
FROM L STA. 14+85 TO STA. 15+05 RT
FROM L STA. 15+30 TO STA. 15+40 LT

DETAIL 3
TOE PROTECTION
(Not to Scale)



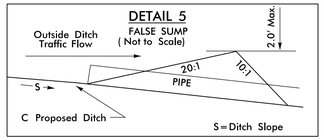
d= 1 Ft.
b= 2 Ft.
Type of Liner= Class B Rip-Rap
FROM L STA. 14+00 TO STA. 14+50 RT
FROM L STA. 15+55 TO STA. 16+65 RT
FROM DRV STA. 10+40 TO STA. 11+00 LT

DETAIL 4
TOE PROTECTION
(Not to Scale)

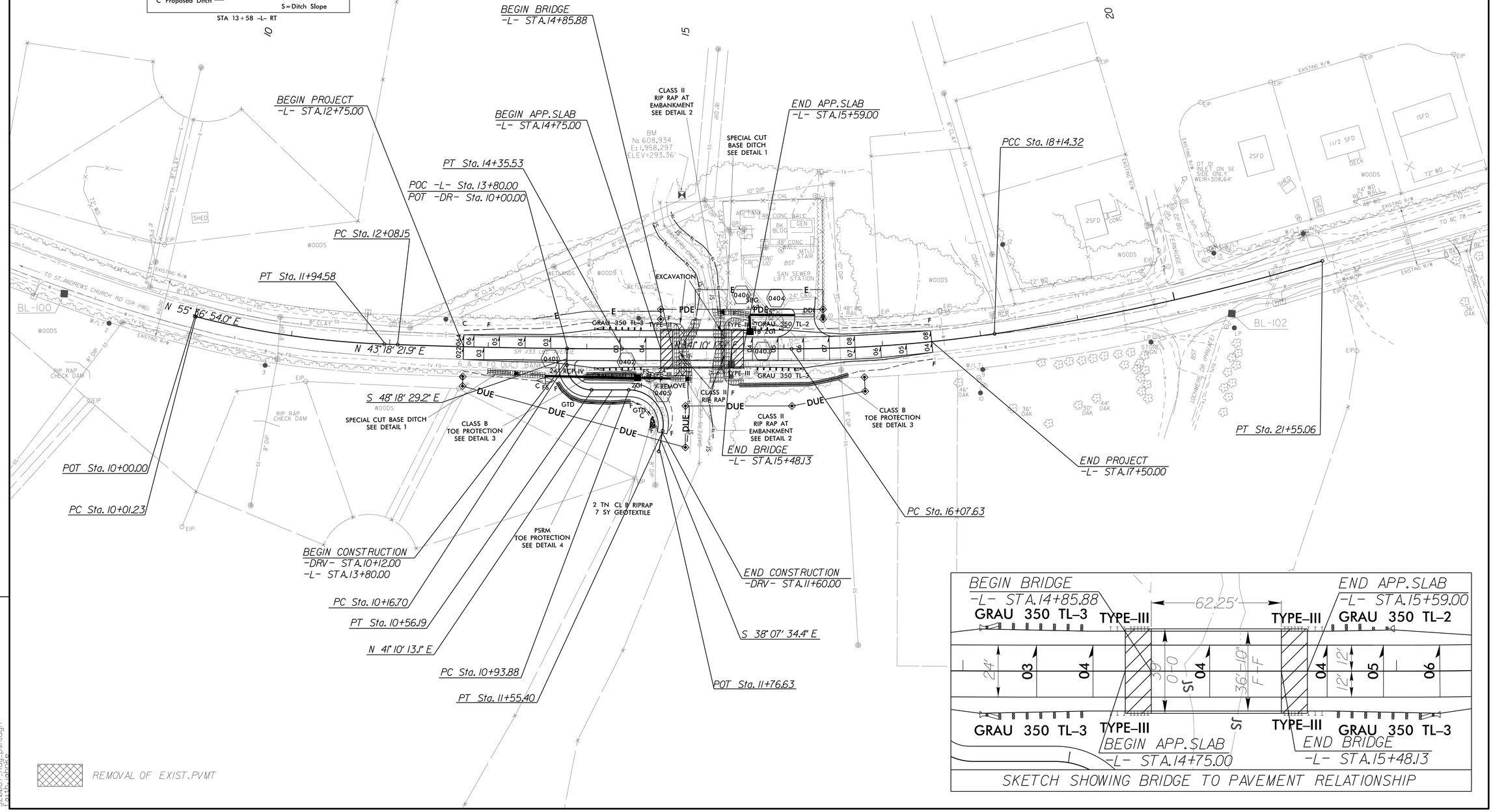


d= 1 Ft.
Type of Liner= PSRM
FROM DRV STA. 10+20 TO STA. 11+00 RT

DETAIL 5
FALSE SUMP
(Not to Scale)



STA 13+58 -L- RT



SKETCH SHOWING BRIDGE TO PAVEMENT RELATIONSHIP

14-FEB-2017 16:42
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$$$$ USERNAME