PROJECT REFERENCE NO.	SHEET NO.
17BP.5.R.61	EC-04/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STEWART
Firm License No. C-1051
421 Fayetteville St.
Suite 400
Raleigh, NC 27601
T 919.380.8750
www.stewartinc.com

NC FIRM LICENSE No: F-1148
1151 SE Cary Parkway, Suite 101
Cary, NC 27511
(919) 557-0929
ECOLOGICAL ENGINEERING

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

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REVISIONS

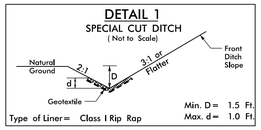
8/17/99

-L-

PI Sta 11+47.23
△ = 18° 01' 25.4" (RT)
D = 6° 10' 18.2"
L = 292.04'
T = 147.23'
R = 928.36'
Se = 0.04
Runoff = 96'
V_D = 50 MPH

PI Sta 18+53.30
△ = 9° 16' 25.6" (LT)
D = 3° 31' 06.1"
L = 263.58'
T = 132.08'
R = 1,628.48'
Se = N/A
Runoff = N/A

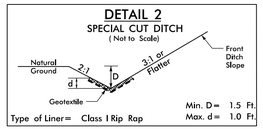
DETAIL 1
SPECIAL CUT DITCH
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1.0 Ft.
Type of Liner= Class I Rip Rap

FROM STA. 10+50 TO STA. 13+00 –L– RT
FROM STA. 11+00 TO STA. 12+50 –L– LT
FROM STA. 15+00 TO STA. 18+00 –L– LT

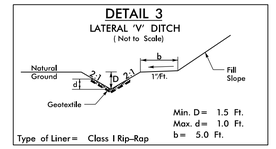
DETAIL 2
SPECIAL CUT DITCH
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1.0 Ft.
Type of Liner= Class I Rip Rap

FROM STA. 15+50 TO STA. 16+00 –L– RT
FROM STA. 16+50 TO STA. 18+00 –L– RT

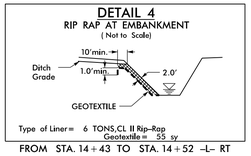
DETAIL 3
LATERAL 'V' DITCH
(Not to Scale)



Min. D = 1.5 Ft.
Max. d = 1.0 Ft.
b = 5.0 Ft.
Type of Liner= Class I Rip-Rap

FROM STA. 14+52 TO STA. 15+50

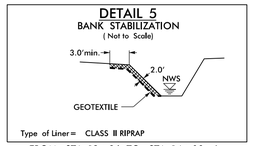
DETAIL 4
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner= 6 TONS,CL II Rip-Rap
Geotextile = 55 sy

FROM STA. 14+43 TO STA. 14+52 –L– RT

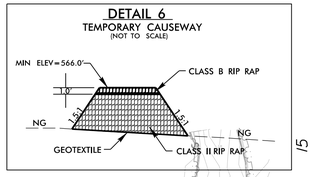
DETAIL 5
BANK STABILIZATION
(Not to Scale)



Type of Liner= CLASS II RIPRAP

FROM STA. 13+96 TO STA. 14+09 –L–

DETAIL 6
TEMPORARY CAUSEWAY
(NOT TO SCALE)



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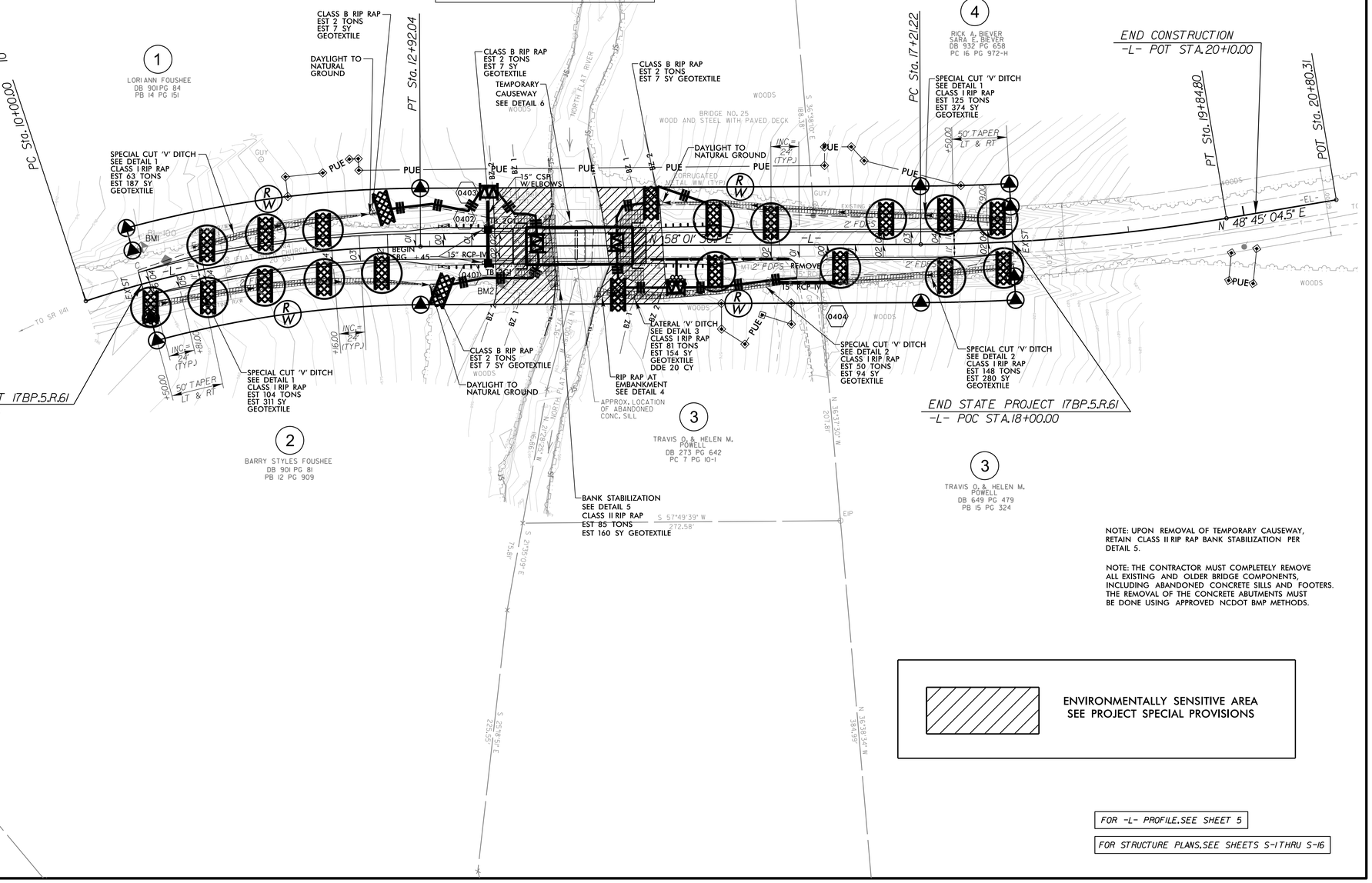
NAD 83/NA 2011



NOTE: UPON REMOVAL OF TEMPORARY CAUSEWAY, RETAIN CLASS II RIP RAP BANK STABILIZATION PER DETAIL 5.

NOTE: THE CONTRACTOR MUST COMPLETELY REMOVE ALL EXISTING AND OLDER BRIDGE COMPONENTS, INCLUDING ABANDONED CONCRETE SILLS AND FOOTERS. THE REMOVAL OF THE CONCRETE ABUTMENTS MUST BE DONE USING APPROVED NCDOT BMP METHODS.

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

FOR -L- PROFILE, SEE SHEET 5

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-16

5/15/2018
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USER: Rdoll