PROJECT REFERENCE NO.	SHEET NO.
B-5145	EC-04/CONST.04
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

ECOLOGICAL ENGINEERING — NC FIRM LICENSE No F-1148, 1155 SE Cary Parkway, Suite 101, Cary, NC 27518, (919) 557-0029

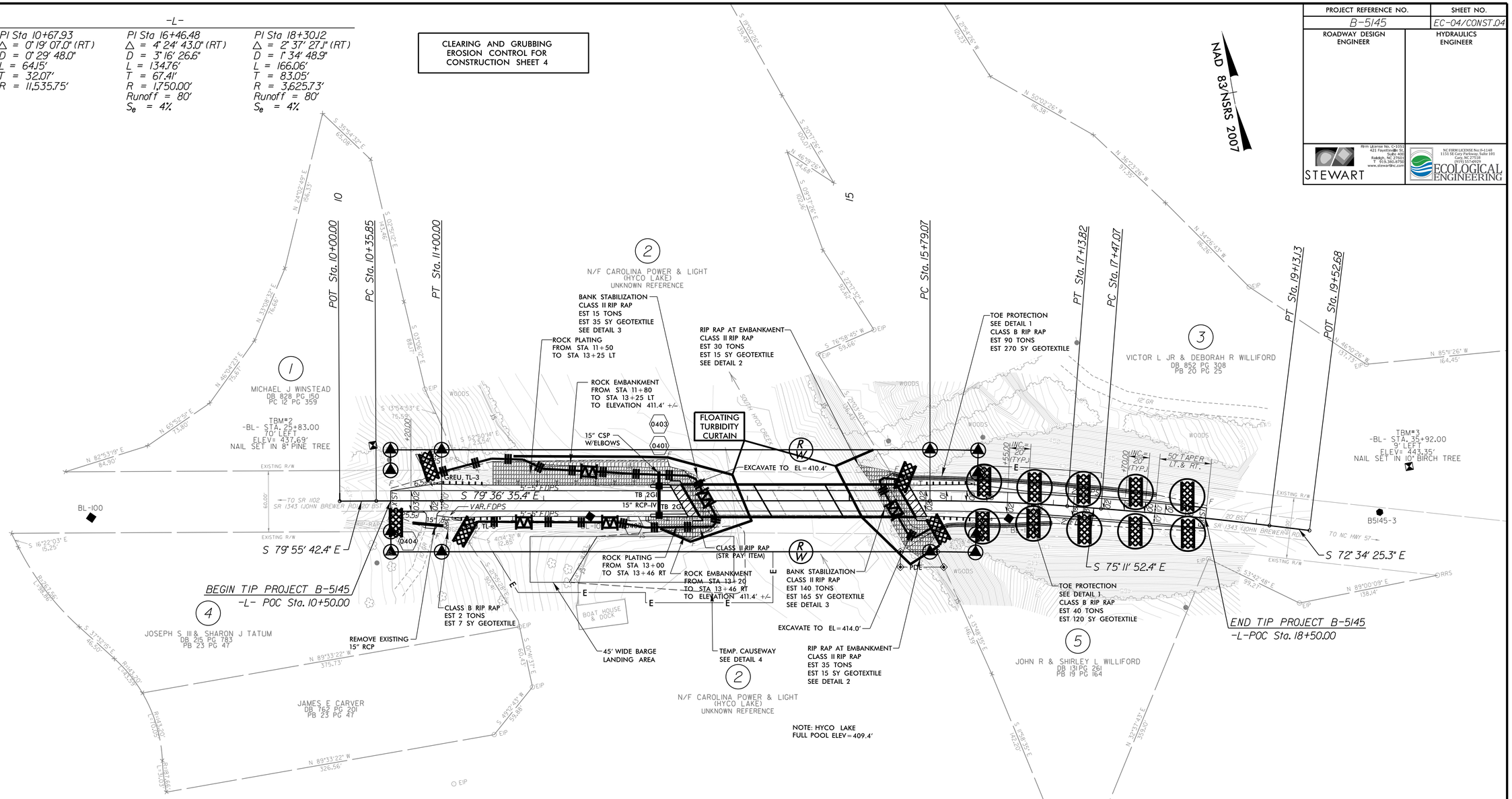
REVISIONS 5/14/99

-L-

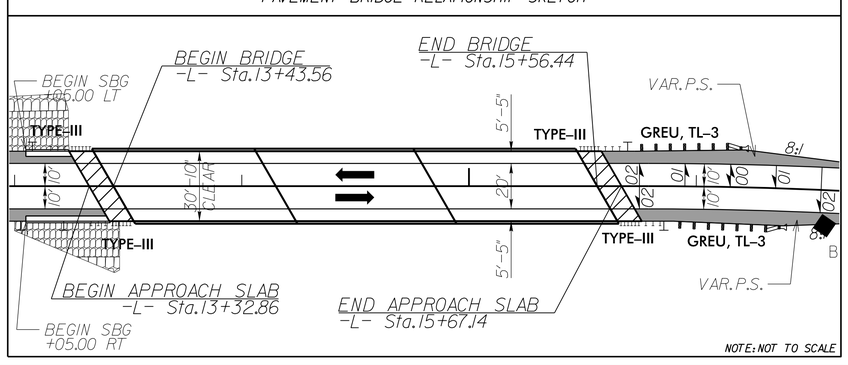
PI Sta 10+67.93	PI Sta 16+46.48	PI Sta 18+30.12
Δ = 0° 19' 07.0" (RT)	Δ = 4° 24' 43.0" (RT)	Δ = 2° 37' 27.1" (RT)
D = 0° 29' 48.0"	D = 3° 16' 26.6"	D = 1° 34' 48.9"
L = 641.5'	L = 1347.6'	L = 1660.6'
T = 320.7'	T = 674.1'	T = 830.5'
R = 11,535.75'	R = 1,750.00'	R = 3,625.73'
	Runoff = 80'	Runoff = 80'
	S_e = 4%	S_e = 4%

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

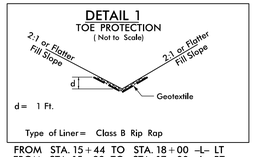
NAD 83/NSRS 2007



PAVEMENT-BRIDGE RELATIONSHIP SKETCH

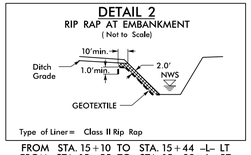


DETAIL 1
TOE PROTECTION
(Not to Scale)



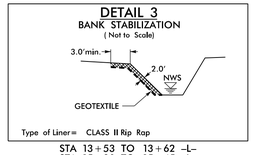
FROM STA. 15+44 TO STA. 18+00 -L- LT
FROM STA. 15+88 TO STA 17+00 -L- RT

DETAIL 2
RIP RAP AT EMBANKMENT
(Not to Scale)



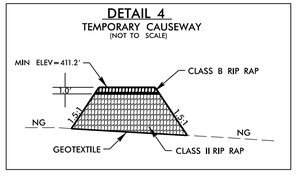
FROM STA. 15+10 TO STA. 15+44 -L- LT
FROM STA. 15+55 TO STA. 15+88 -L- RT

DETAIL 3
BANK STABILIZATION
(Not to Scale)



STA 13+53 TO 13+62 -L-
STA 15+30 TO 15+45 -L-

DETAIL 4
TEMPORARY CAUSEWAY
(NOT TO SCALE)



ALL DRIVEWAY RADII ARE 5' UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET 5

FOR STRUCTURE PLANS, SEE SHEETS S-1 THRU S-22

5/1/2018
B5145_GREU_psh_04_C&G.dgn