5/14/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
B-4448	11

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 034407 ENGINEER ANDREW P YOUNG

DocuSigned by: Andrew P. Young 5/14/2018

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 20147 ENGINEER FRANK F FLEMING

DocuSigned by: Frank F Fleming 5/14/2018

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:P-1148
1151 SE Cary Parkway, Suite 101
Cary, NC 27518
T 919.760.0020

ECOLOGICAL ENGINEERING

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-Y1-

-Y1- STA.12+11.70
-Y1RPA- STA.22+25.62
EL.1,217.06'

-Y1- STA.12+14.47
-Y1RPB- STA.22+05.79
EL.1,216.90'

BEGIN GRADE
-Y1- STA.10+50.00
EL.1,226.67'

(-)5.941/3%

(-)6.4%

BEGIN DITCH GRADE LT
STA.10+50
EL=1,225.04'

END DITCH GRADE LT
STA.11+90
EL=1,213.27'

-Y1- STA.17+04.50
-Y1RPC- STA.23+20.87
-Y1RPD- STA.20+40.60
EL.1,189.37'

END GRADE
-Y1- STA.18+00.00
EL.1,186.48

(-)7.5%

(-)5.941/3%

(-)12.3000%

PI = 16+80.00
EL = 1,189.24'
VC = 240'
K = 66
V_D = 40 MPH

BEGIN DITCH GRADE RT
STA.15+00
EL=1,196.21'

BEGIN DITCH GRADE LT
STA.15+50
EL=1,192.61'

END DITCH GRADE RT
STA.16+26
EL=1,186.73'

END DITCH GRADE LT
STA.16+50
EL=1,185.31'

FOR PLAN VIEW.SEE SHEET 5

1,250 1,240 1,230 1,220 1,210 1,200 1,190 1,180 1,170 1,160 1,150

10 11 12 13 14 15 16 17 18 19 20

5/10/2018
U:\B4448\RDY_PFL11.dgn
USER:Rdavis