Docusign Envelope ID: 83617E26-EBF2-8BCC-8248-7916CADECCD9

5/28/99

HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
R-5759	29

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 36786 ENGINEER

10/12/2026

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 40801 ENGINEER

10/12/2026

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-Y2-

DITCH LEGEND	
LEFT DITCH	----------
RIGHT DITCH	----------

PI = 14+50.00
EL = 1,186.36'
K = 7
VC = 100'
V = 20 MPH

PI = 17+65.00
EL = 1,170.53'
K = 49
VC = 290'
V = 35 MPH

PI = 23+00.00
EL = 1,175.07'
K = 42
VC = 200'
V = 30 MPH

(+)9.8278%
(-)5.0280%
(-)5.0280%
(+)0.8500%
(+)0.8500%
(+)5.6000%
(+)1.5667%

EXISTING GROUND

BEGIN GRADE
-Y2- STA 13+75.00
ELEV. = 1178.99'

CENTERLINE INTERSECTION
-Y2- STA 15+09.18=
-Y2A- STA 12+71.55

PROPOSED GRADE

EXISTING GROUND

24" CLASS IV PIPE

BEGIN DITCH
PI = 22+75.00 (RT)
EI = 1172.84

FOR -Y2- PLAN, SEE SHEETS 5 & 17

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00 23+00 24+00

1230 1220 1210 1200 1190 1180 1170 1160 1150 1140

-Y2-

DITCH LEGEND	
LEFT DITCH	----------
RIGHT DITCH	----------

PI = 24+75.00
EL = 1,184.87'
K = 42
VC = 150'
V = 35 MPH

(+)5.6000%
(+)2.0000%
(+)1.5667%

PROPOSED GRADE

CENTERLINE INTERSECTION
-L- STA 29+90.26=
-Y2- STA 25+91.61

EXISTING GROUND

END DITCH
PI = 24+50.00 (RT)
EI = 1175.58

END GRADE
-Y2- STA 25+56.61
ELEV. = 1186.51'

FOR -Y2- PLAN, SEE SHEET 5

24+00 25+00 26+00

-Y2A-

PI = 11+60.00
EL = 1,184.02'
K = 32
VC = 70'
V = 25 MPH

PI = 12+25.00
EL = 1,185.73'
K = 8
VC = 60'
V = 20 MPH

(+)0.4500%
(+)2.6214%
(-)5.0280%

CENTERLINE INTERSECTION
-Y2- STA 15+09.18=
-Y2A- STA 12+71.55

PROPOSED GRADE

EXISTING GROUND

BEGIN GRADE
-Y2A- STA 11+25.00
ELEV. = 1183.87'

END GRADE
-Y2A- STA 12+71.55
ELEV. = 1183.39'

FOR -Y2A- PLAN, SEE SHEET 17

10+00 11+00 12+00 13+00

1230 1220 1210 1200 1190 1180 1170 1160 1150 1140

07-AUG-2026 09:40
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HNTB