6.09.93

METRIC

2.5 0 5

CONST.REV.

R /W REV.

PROJECT REFERENCE NO.	SHEET NO.
U-2717	59

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 14493 ENGINEER JAMES STAFFORD WOODNIGHT JR.
3RD 9

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 19660 ENGINEER PAUL ATKINSON
8/19/04

–DR–

BEGIN GRADE
-DR- STA 10+04.005
ELEV 250.209

02

-2.0000%

PI = 11+00.000
EL = 248.289 m
VC = 40 m
K = 13

-2.0000%

+1.0771%

+1.8375%

+1.8375%

248.935

END DITCH GRADE LEFT
DR STA 11+80
ELEV 248.440

BEGIN DITCH GRADE LEFT
DR STA 11+00
ELEV 246.970

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 14.18	HA
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 2.03	CMS
DESIGN HW ELEVATION	= 246.01	M
100 YEAR DISCHARGE	= 3.23	CMS
100 YEAR HW ELEVATION	= 246.84	M
OVERTOPPING FREQUENCY	= 200	YRS
OVERTOPPING DISCHARGE	= 4.00	CMS
OVERTOPPING ELEVATION	= 247.5	M

1200mm

DITCH GRADE LEFT

10+00 +20 +40 +60 +80 11+00 +20 +40 +60

250.0 249.0 248.0 247.0 246.0 245.0 244.0 243.0 242.0

–DR–

248.935

+1.0771%

END GRADE
-DR- STA 11+97.846
ELEV 249.343

+60 +80 12+00

250.0 249.0 248.0 247.0 246.0 245.0 244.0 243.0 242.0

–DR2–

DITCH GRADE LEFT
DITCH GRADE RIGHT

BEGIN GRADE
-DR2- STA 10+09.633
ELEV 258.952

06

-2.0867%

END DITCH GRADE LEFT
-DR2- STA 10+40
ELEV 257.79

END GRADE
-DR2- STA 10+60.000
ELEV 257.901

BEGIN DITCH GRADE LEFT
-DR2- STA 10+20
ELEV 258.02

-11500%

-.05400%

BEGIN DITCH GRADE RIGHT
-DR2- STA 10+27.500
ELEV 257.63

END DITCH GRADE RIGHT
-DR2- STA 10+57
ELEV 257.440

260.0 259.0 258.0 257.0

BEGIN GRADE
-DR3- STA 10+03.840
ELEV 252.260

PI = 10+18.840
EL = 251.955 m
VC = 30 m
K = 5

–DR3–

02

-2.0000%

-7.8649%

END GRADE
-DR- STA 10+58.970
ELEV 248.799

248.799

253 252 251 250 249 248

10+00 +20 +40 +60

250.0 249.0 248.0 247.0 246.0 245.0 244.0 243.0 242.0

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