6-09-99

(SR 1349 MUNDY RD.)

266.825

PI = 12+30.000
EL = 273.575 m
VC = 300 m
K = 62
V = 80 km/h ++

-Y13- STA. 14+09.221 =
-Y19- STA. 10+00.000

(-)17.220%

BEGIN SPECIAL CUT DITCH
-Y13- STA.14+00 LT.
EL = 263.042

END SPECIAL CUT DITCH
-Y13- STA.14+05 LT.
EL = 262.681

BEGIN LAT.'V' DITCH
-Y13- STA.14+50 RT.
EL = 257.682

(-)3.08334%

PI =14+62.000
EL = 257.300

PI =14+12.000
EL = 256.492

BEGIN SPECIAL CUT DITCH
-Y13- STA.15+00 LT.
EL = 257.023

(-)8.90000%

(-)16.50000%

(-)6.00000%

600mm

(-)17.02000%

PI =15+10.000
EL = 255.300

(-)3.91200%

PI =15+30.000
EL = 251.900

PI =15+40.000
EL = 251.478

END SPECIAL CUT DITCH
-Y13- STA.15+20 LT.
EL = 254.923

6.00962%

END LAT.'V' DITCH
-Y13- STA.15+65 RT.
EL = 250.200

-4.45257%

600mm

247.429

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 2.10	ha
DESIGN FREQUENCY	= 25	yrs
DESIGN DISCHARGE	= 0.42	cms
DESIGN HW ELEVATION	= 255.58	m
100 YEAR DISCHARGE	= 0.50	cms
100 YEAR HW ELEVATION	= 255.65	m
OVERTOPPING FREQUENCY	= >100+	yrs
OVERTOPPING DISCHARGE	= 0.57	cms
OVERTOPPING ELEVATION	= 255.70	m

PI = 16+20.000
EL = 250.100 m
VC = 100 m
K = 64
V = 100 km/h +

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 1.95	ha
DESIGN FREQUENCY	= 25	yrs
DESIGN DISCHARGE	= 0.42	cms
DESIGN HW ELEVATION	= 248.33	m
100 YEAR DISCHARGE	= 0.50	cms
100 YEAR HW ELEVATION	= 248.41	m
OVERTOPPING FREQUENCY	= >200	yrs
OVERTOPPING DISCHARGE	= 0.79	cms
OVERTOPPING ELEVATION	= 248.81	m

SEE SHEETS 35 & 36 FOR PLAN VIEW

METRIC

5 0 10

CONST.REV.

R /W REV.

PROJECT REFERENCE NO.	SHEET NO.
R-2206C	75

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 15356 ENGINEER RONALD DAVID ALLEN
9-2-04

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 14160 ENGINEER DOUGLAS PAUL ALLEN
9/16/04

-Y13-

14 15 16

(SR 1349) -Y13-

END GRADE
-Y13- STA 17+00.000
EL = 246.538

-Y13- STA 17+20

247.429

MIN. WIDEN & RESURFACING

SEE SHEET 36 FOR PLAN VIEW

(SR 1349 MUNDY RD. DETOUR)

-Y13DET-

BEGIN GRADE
-Y13DET- STA. 10+47.019
EL = 275.456

PI = 11+00.000
EL = 273.890 m
VC = 60 m
K = 10
V = 50 km/h

2.95604%

PI = 11+60.000
EL = 268.340 m
VC = 60 m
K = 12
V = 50 km/h +

-9.24931%

-Y13DET- STA 11+74.640 =
-L- STA. 216+38.067

-9.24931%

4.19665%

END GRADE
-Y13DET- STA 12+26.966
EL = 265.530

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 0.21	ha
DESIGN FREQUENCY	= 5	yrs
DESIGN DISCHARGE	= 0.03	cms
DESIGN HW ELEVATION	= 265.23	m
100 YEAR DISCHARGE	= 0.07	cms
100 YEAR HW ELEVATION	= 265.48	m
OVERTOPPING FREQUENCY	= >500	yrs
OVERTOPPING DISCHARGE	= 0.42	cms
OVERTOPPING ELEVATION	= 266.50	m

450mm

BEGIN LAT.'V' DITCH
-Y13DET- STA.12+00 RT.
EL = 264.700

(-)11.49167%

END LAT.'V' DITCH
-Y13DET- STA.12+32 RT.
EL = 261.600

PI =12+27.000
EL = 261.600

(+) 0.0000%

SEE SHEET 45 FOR PLAN VIEW

17 11 12

15-JUL-2004 15:42
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