

10/26/08

METRIC

CONST. REV.
R / W REV.

PROJECT REFERENCE NO. R-2610A
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER

SHEET NO. 31

SEAL 17691
RICHARD A. SHILLINGHAM
NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 12786
STEVEN M. BONJOR
NORTH CAROLINA PROFESSIONAL ENGINEER

12-15-03

BM*4
R/R SPIKE IN BASE OF 600mm PINE 35.640m RIGHT OF -L- 35+75.544 ELEV.93.070m

-L-

88.275

92.258

+1.0480%

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 62A & 63

DRAINAGE AREA	= 2.8	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.56	CMS
DESIGN HW ELEVATION	= 90.22	M
100 YEAR DISCHARGE	= 0.60	CMS
100 YEAR HW ELEVATION	= 90.27	M
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 0.62	CMS
OVERTOPPING ELEVATION	= 90.3	M

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 64 & 65

DRAINAGE AREA	= 3.0	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.54	CMS
DESIGN HW ELEVATION	= 89.52	M
100 YEAR DISCHARGE	= 0.58	CMS
100 YEAR HW ELEVATION	= 89.58	M
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 0.83	CMS
OVERTOPPING ELEVATION	= 90.0	M

450 RCP

600 RCP

+80 35 +20 +40 +60 +80 36 +20 +40 +60 +80 37 +20 +40 +60 +80 38 +20 +40 +60

-L-

PI = 39+69.000
EL = 93.400 m
VC = 120 m
K = 41

92.258

104.160

+3.9706%

+1.0480%

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.70

DRAINAGE AREA	= 0.49	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.1	CMS
DESIGN HW ELEVATION	= 98.52	M
100 YEAR DISCHARGE	= 0.11	CMS
100 YEAR HW ELEVATION	= 98.54	M
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 0.31	CMS
OVERTOPPING ELEVATION	= 98.9	M

450 RCP

BEG. DITCH (LT.)
STA. 41+96
EL. 99.670

END DITCH (LT.)
STA. 42+40
EL. 102.900

PI = 42+95.000
EL = 102.350

DITCH LEGEND
LEFT DITCH - - - - -

+60 +80 39 +20 +40 +60 +80 40 +20 +40 +60 +80 41 +20 +40 +60 +80 42 +20 +40

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