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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
R-3620	21

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 25873 ENGINEER GARY R. LOVERING
DocuSigned by: Gary Lovering 4/3/2014
DF07BF34A6B0A25...

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 22000 ENGINEER W. GALEN CAIL
DocuSigned by: Galen Cail 4/7/2014
D275B26E60EC454...

DITCH LEGEND

LEFT DITCH

RIGHT DITCH

UNDERCUT

-L-

PI = 67+00.00
EL = 15.80'
VC = 180'
K = 250

PI = 75+00.00
EL = 18.60'
VC = 180'
K = 277

(-)0.3000% (+)0.3500% (+)0.3500% (-)0.3000%

(+) 0.0000%
(+) 0.0000%

48" RCP IV

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 0801 & 0802

DRAINAGE AREA	= 35	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 42	CFS
DESIGN HW ELEVATION	= 10.8	FT
100 YEAR DISCHARGE	= 68	CFS
100 YEAR HW ELEVATION	= 11.98	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 15.9	FT

FOR -L- ALIGNMENT, SEE SHEET NO. 8

20 10 0

66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

-L-

BM #13 RR SPIKE IN 12" GUM
-L- STA. 88+61.63, 122.97' LEFT
ELEV. = 13.78'

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 0903 & 0904

DRAINAGE AREA	= 24	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 34	CFS
DESIGN HW ELEVATION	= 11.64	FT
100 YEAR DISCHARGE	= 54	CFS
100 YEAR HW ELEVATION	= 12.67	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 15.1	FT

PI = 87+00.00
EL = 15.00'
VC = 180'
K = 297

(-)0.3000% (+)0.3062%

42" RCP IV

(+) 0.0000%
(+) 0.0000%

42" RCP IV

36" RCP IV EQUALIZER PIPE

36" RCP IV EQUALIZER PIPE

END DITCH
STA. 89+10-L-LT
ELEV. 8.50'

END DITCH
STA. 89+35-L-RT
ELEV. 8.50'

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NOS. 0901 & 0902

DRAINAGE AREA	= 22	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 33	CFS
DESIGN HW ELEVATION	= 11.41	FT
100 YEAR DISCHARGE	= 53	CFS
100 YEAR HW ELEVATION	= 12.46	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	=	CFS
OVERTOPPING ELEVATION	= 15.1	FT

FOR -L- ALIGNMENT, SEE SHEET NO. 9

20 10 0

80 81 82 83 84 85 86 87 88 89 90 91 92 93 94

02-APR-2014 09:50
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$$$$USERNAME$$$$