PROJECT REFERENCE NO.	SHEET NO.
R-2552C	38

METRIC

5 0 10

CONST.REV.

R /W REV.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 15759 ENGINEER STEPHEN C. BROWNE

3/15/05

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 6982 ENGINEER RICHARD N. SCARCE

PI = 151+20.000
EL = 79.750 m
VC = 100 m
K = 187

PI = 154+44.000
EL = 78.326 m
VC = 88 m
K = 79

-0.439%

SP. DITCH +0.40%

SP. DITCH -1.90%

SP. DITCH -2.34%

SP. DITCH -0.62%

151+59.000 RT
77.600

151+80.000 RT
78.000

152+20.000 RT
76.220

152+46.000 RT
77.300

153+38.000 RT
75.700

10 BASE DITCH -0.24%

600mm

153+80.000 RT
75.600

154+14.000 WED
77.680

243x184 RCBC

-L2-

+20 +40 +60 +80 152+00 +20 +40 +60 +80 153+00 +20 +40 +60 +80 154+00 +20 +40 +60

92 90 88 86 84 82 80 78 76 74 72 70 68

PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO. 294

DRAINAGE AREA	= 2.5	SQKM
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 29	CMS
DESIGN HW ELEVATION	= 78.02	M
100 YEAR DISCHARGE	= 33	CMS
100 YEAR HW ELEVATION	= 78.39	M
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING DISCHARGE	= 33.4	CMS
OVERTOPPING ELEVATION	= 78.43	M

END PROPOSED GRADE
BEGIN PROP. 60 mm RESURFACING
-L2- STA. 156+10.000
FINISHED ELEV. = 79.386

PI = 154+44.000
EL = 78.326 m
VC = 88 m
K = 79

+0.683%

-0.156%

SP. DITCH +0.90%

154+64.500 WED
77.560

155+10.000 WED
77.920

1650mm

2.0 BASE DITCH +0.75%

900mm

155+50.000 RT
74.900

3.0 BASE DITCH +1.44%

3.0 BASE DITCH +1.561%

3.0 BASE DITCH +5.00%

156+15.000 RT
75.540

156+25.000 RT
75.950

157+20.000 RT
77.500

157+35.000 RT
78.250

-L2-

+40 +60 +80 155+00 +20 +40 +60 +80 156+00 +20 +40 +60 +80 157+00 +20 +40

92 90 88 86 84 82 80 78 76 74 72 70 68

LOCHNER
H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612

17-MAR-2005 12:51
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