PROJECT REFERENCE NO.	SHEET NO.
R-2552C	47

METRIC

5 0 10

CONST.REV.

R /W REV.

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 15759 ENGINEER STEPHEN C. PROCTOR 3/15/05

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 6982 ENGINEER RICHARD N. SCARCE

PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO. 223

DRAINAGE AREA	= 11.6	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 1.7	CMS
DESIGN HW ELEVATION	= 80.07	M
100 YEAR DISCHARGE	= 2.0	CMS
100 YEAR HW ELEVATION	= 80.18	M
OVERTOPPING FREQUENCY	= 50+	YRS
OVERTOPPING DISCHARGE	= 1.79	CMS
OVERTOPPING ELEVATION	= 80.10	M

PI = 7+00.000
EL = 80.329 m
VC = 40 m
K = 43

-0.506%

+0.421%

1050mm

SP. DITCH -0.50%

SP. DITCH -1.50%

SP. DITCH -2.50%

SP. DITCH -0.36%

5+400.000 LT
79.800

5+800.000 LT
79.600

6+400.000 LT
78.700

6+800.000 LT
77.700

94 92 90 88 86 84 82 80 78 76 74 72 70

+60 +80 4+00 +20 +40 +60 +80 5+00 +20 +40 +60 +80 6+00 +20 +40 +60 +80 7+00 +20

-RAMP C-

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	=	12.0 CMS
DESIGN FREQUENCY	=	50 YRS
DESIGN HW ELEVATION	=	77.94 M
BASE DISCHARGE	=	14.0 CMS
BASE FREQUENCY	=	100 YRS
BASE HW ELEVATION	=	78.08 M
OVERTOPPING DISCHARGE	=	12.0 CMS
OVERTOPPING FREQUENCY	=	500+ YRS
OVERTOPPING ELEVATION	=	80.995 M

END PROPOSED GRADE
STA 8+62.243
ELEV. 81.015

+0.421%

-2.939%

2.7 x 1.8 RCBC

SP. DITCH -0.36%

600mm

1800mm

7+195.000 LT
77.300

94 92 90 88 86 84 82 80 78 76 74 72 70

+20 +40 +60 +80 8+00 +20 +40 +60 +80 9+00

-RAMP C-

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

17-MAR-2005 12:52
u:\127\des\roads\r2552c_rdy_pfl_rp.dgn
awesley $$$$ACTIVE_LEVELS