

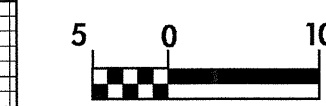
10/26/08

21-SEP-2004 07:48
SEC:calhoun rd-09oce34

(NC 16)



PROJECT REFERENCE NO. R-2206AA	SHEET NO. 47
R-2206A SHEET NO. 59	
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 15356 HOWARD DAVID HALLIN 10-8-04	NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 9334 HENRY WILLS 10/21/04



CONST. REV.
R/W REV.

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 6.04 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 1.30 CMS
DESIGN HW ELEVATION	= 227.24 M
100 YEAR DISCHARGE	= 1.51 CMS
100 YEAR HW ELEVATION	= 227.36 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 2.56+ CMS
OVERTOPPING ELEVATION	= 237.0 M

BM 201
-L- STA 86+44.883
0.145 m RIGHT
EL.233.825 IP & CAP

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

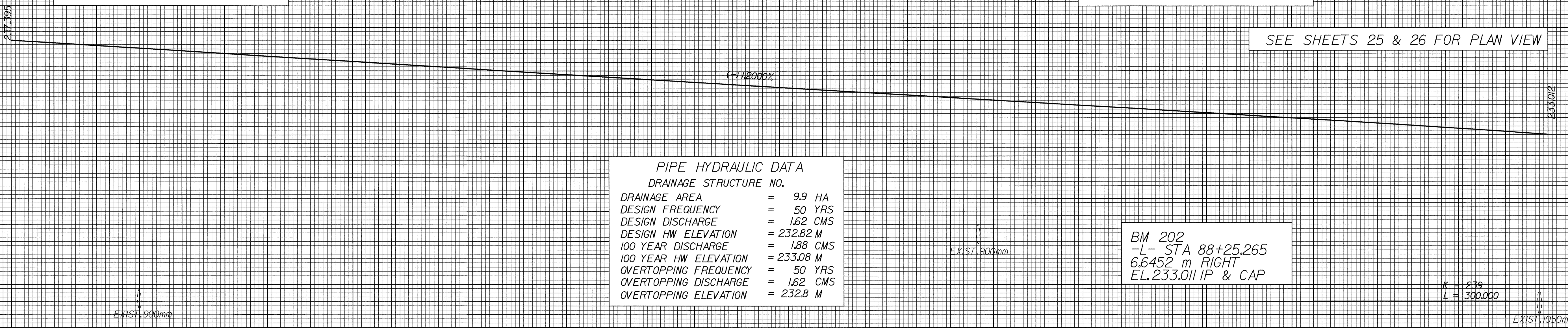
DRAINAGE AREA	= 11.7 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 2.1 CMS
DESIGN HW ELEVATION	= 227.77 M
100 YEAR DISCHARGE	= 2.45 CMS
100 YEAR HW ELEVATION	= 227.98 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 5.0 CMS
OVERTOPPING ELEVATION	= 230.5 M

BM 202
-L- STA 88+25.265
6.6452 m RIGHT
EL.233.011 IP & CAP

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 9.9 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 1.62 CMS
DESIGN HW ELEVATION	= 232.82 M
100 YEAR DISCHARGE	= 1.88 CMS
100 YEAR HW ELEVATION	= 233.08 M
OVERTOPPING FREQUENCY	= 50 YRS
OVERTOPPING DISCHARGE	= 1.62 CMS
OVERTOPPING ELEVATION	= 232.8 M

SEE SHEETS 25 & 26 FOR PLAN VIEW



(NC 16)

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.

DRAINAGE AREA	= 22.1 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 3.4 CMS
DESIGN HW ELEVATION	= 220.43 M
100 YEAR DISCHARGE	= 3.95 CMS
100 YEAR HW ELEVATION	= 220.65 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 6.73+ CMS
OVERTOPPING ELEVATION	= 224.5 M

BM 203
-L- STA 90+14.431
7.9519 m LEFT
EL.231.953 IP & CAP

BM 204
-L- STA 92+07.918
4.9479 m RIGHT
EL.223.610 IP & CAP

Slope: (-) 1.2000%
Slope: (-) 2.4556%

K = 239
L = 300,000

SEE SHEET 26 FOR PLAN VIEW

