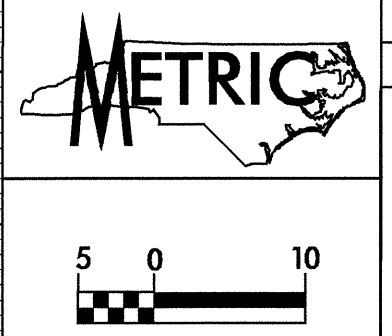
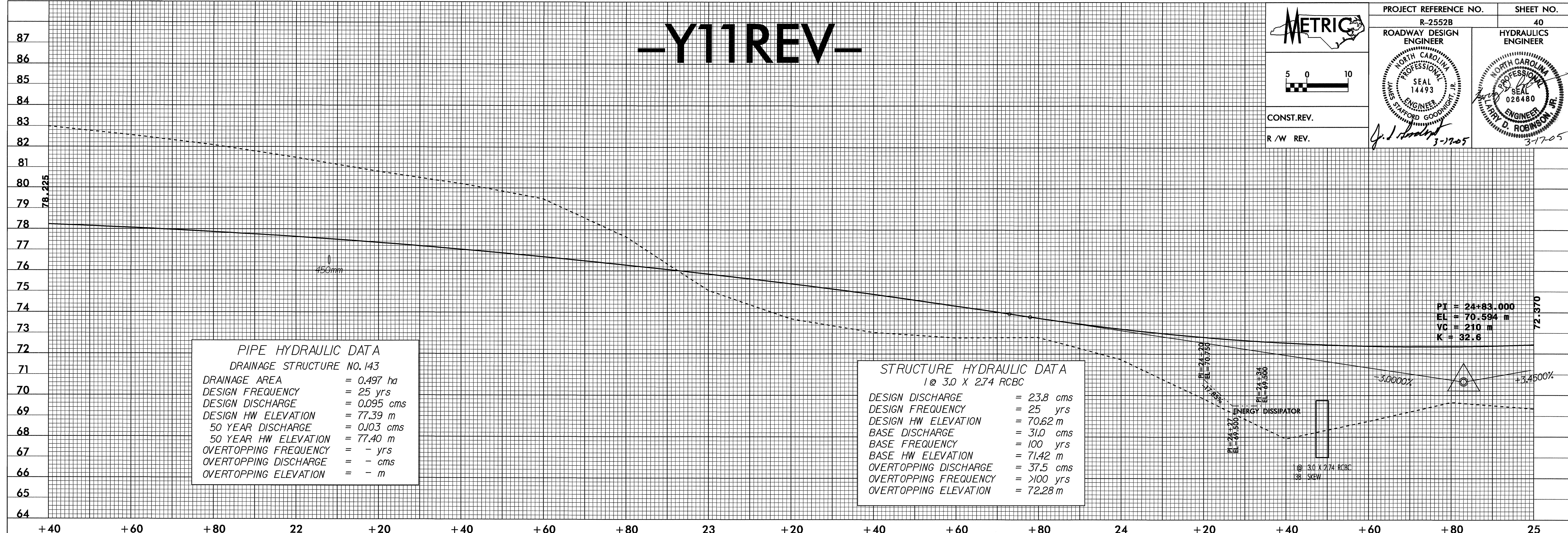


-Y11REV-



5 0 10
CONST. REV.
R / W REV.

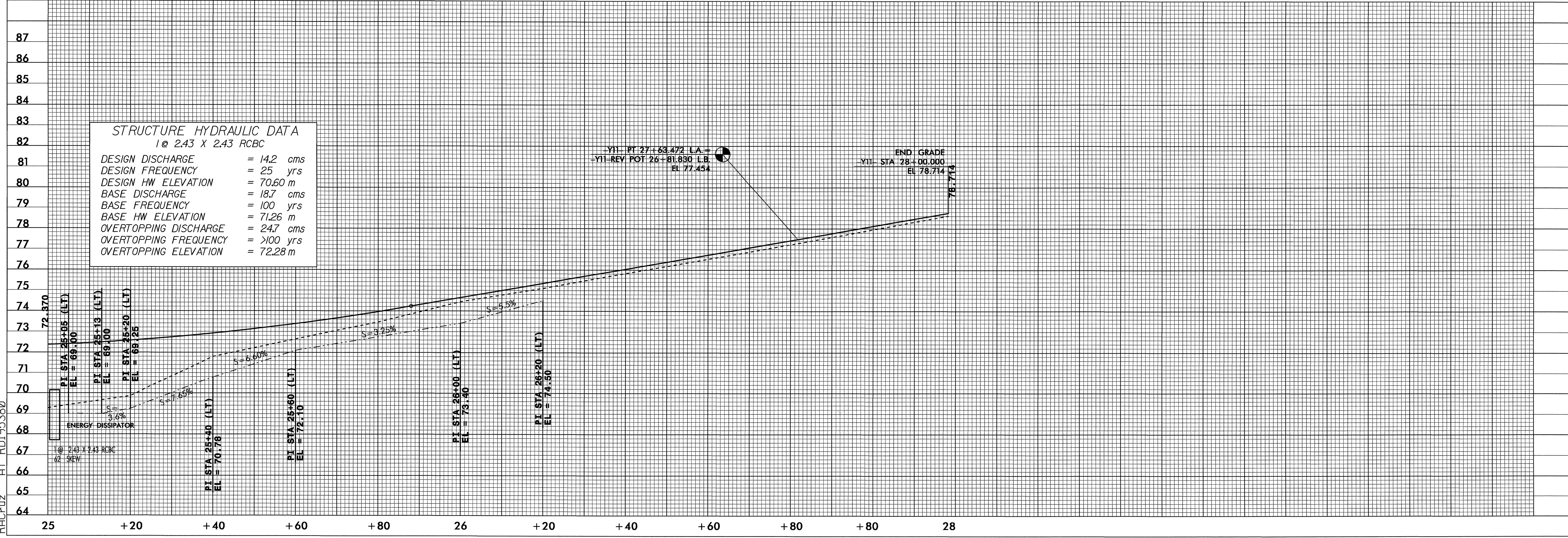
PROJECT REFERENCE NO. R-2552B ROADWAY DESIGN ENGINEER	SHEET NO. 40 HYDRAULICS ENGINEER
3-17-05	3-17-05



PIPE HYDRAULIC DATA	
DRAINAGE STRUCTURE NO. 143	
DRAINAGE AREA	= 0.497 ha
DESIGN FREQUENCY	= 25 yrs
DESIGN DISCHARGE	= 0.095 cms
DESIGN HW ELEVATION	= 77.39 m
50 YEAR DISCHARGE	= 0.103 cms
50 YEAR HW ELEVATION	= 77.40 m
OVERTOPPING FREQUENCY	= - yrs
OVERTOPPING DISCHARGE	= - cms
OVERTOPPING ELEVATION	= - m

STRUCTURE HYDRAULIC DATA	
1 @ 3.0 X 2.74 RCBC	
DESIGN DISCHARGE	= 23.8 cms
DESIGN FREQUENCY	= 25 yrs
DESIGN HW ELEVATION	= 70.62 m
BASE DISCHARGE	= 31.0 cms
BASE FREQUENCY	= 100 yrs
BASE HW ELEVATION	= 71.42 m
OVERTOPPING DISCHARGE	= 37.5 cms
OVERTOPPING FREQUENCY	= >100 yrs
OVERTOPPING ELEVATION	= 72.28 m

PI = 24+83.000
EL = 70.584 m
VC = 210 m
K = 32.6



STRUCTURE HYDRAULIC DATA	
1 @ 2.43 X 2.43 RCBC	
DESIGN DISCHARGE	= 14.2 cms
DESIGN FREQUENCY	= 25 yrs
DESIGN HW ELEVATION	= 70.60 m
BASE DISCHARGE	= 18.7 cms
BASE FREQUENCY	= 100 yrs
BASE HW ELEVATION	= 71.26 m
OVERTOPPING DISCHARGE	= 24.7 cms
OVERTOPPING FREQUENCY	= >100 yrs
OVERTOPPING ELEVATION	= 72.28 m

Y11- PT 27+63.472 L.A. =
Y11-REV POT 24+81.890 I.B.
EL 77.454

END GRADE
Y11- STA 28+00.000
EL 78.714

PI STA 25+05 (LT) EL = 69.100
PI STA 25+13 (LT) EL = 69.100
PI STA 25+20 (LT) EL = 69.125
PI STA 25+40 (LT) EL = 70.178
PI STA 25+60 (LT) EL = 72.10
PI STA 26+00 (LT) EL = 73.40
PI STA 26+20 (LT) EL = 74.50

31-JAN-2005 14:56
 P:\proj\2552B\rd-04oce34\RD195380.dwg
 RACruz AT RD195380