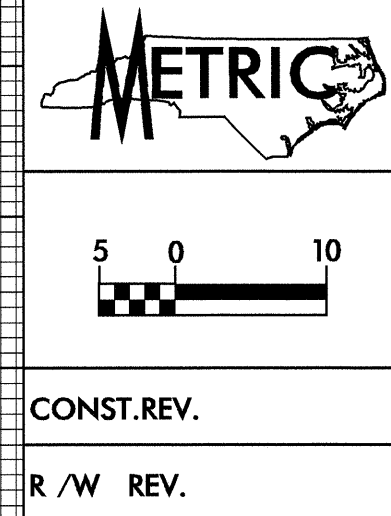


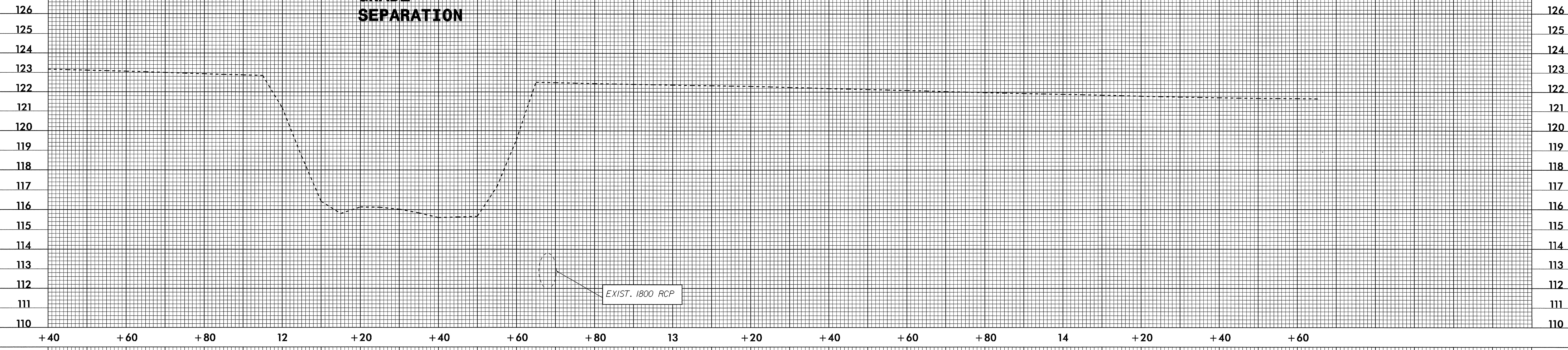
10/26/08



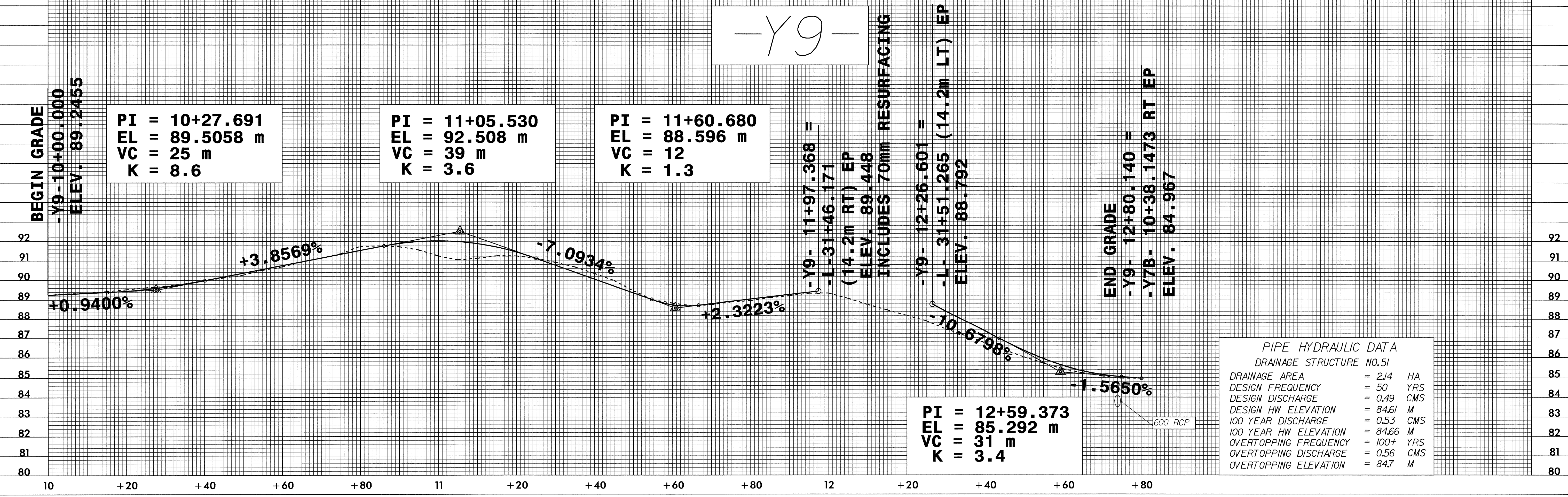
PROJECT REFERENCE NO. R-2610A	SHEET NO. 43
ROADWAY DESIGN ENGINEER 12-11-03	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 17691 RICHARD A. SHILLINGLAW	NORTH CAROLINA PROFESSIONAL SEAL 12786 STEVEN M. BONDOR
CONST. REV.	R / W REV.
<i>Richard A. Shillinglaw</i>	<i>S. Bondor 12-15-03</i>

-Y8-

EXISTING GRADE SEPARATION



-Y9-



PI = 10+27.691
EL = 89.5058 m
VC = 25 m
K = 8.6

PI = 11+05.530
EL = 92.508 m
VC = 39 m
K = 3.6

PI = 11+60.680
EL = 88.596 m
VC = 12
K = 1.3

-Y9- 11+97.368 =
-L- 31+46.171
(14.2m RT) EP
ELEV. 89.448
INCLUDES 70mm RESURFACING

-Y9- 12+26.601 =
-L- 31+51.265 (14.2m LT) EP
ELEV. 88.792

END GRADE
-Y9- 12+80.140 =
-Y7B- 10+38.1473 RT EP
ELEV. 84.967

PI = 12+59.373
EL = 85.292 m
VC = 31 m
K = 3.4

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.51

DRAINAGE AREA	= 2.14	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.49	CMS
DESIGN HW ELEVATION	= 84.61	M
100 YEAR DISCHARGE	= 0.53	CMS
100 YEAR HW ELEVATION	= 84.66	M
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 0.56	CMS
OVERTOPPING ELEVATION	= 84.7	M

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