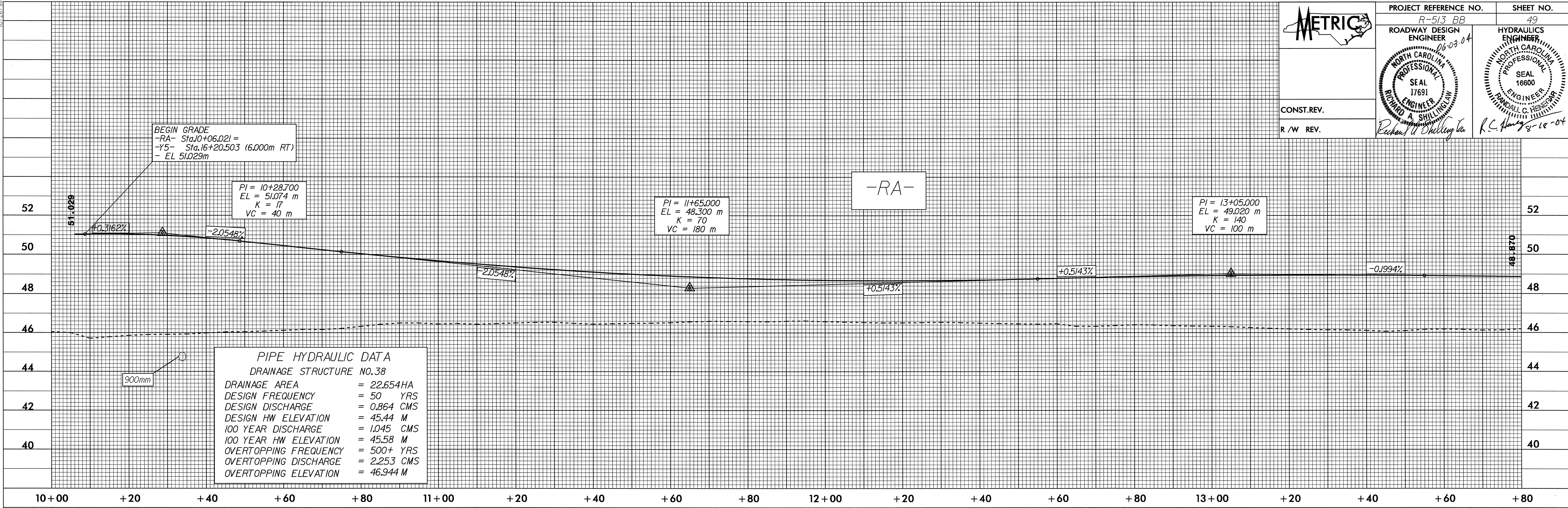


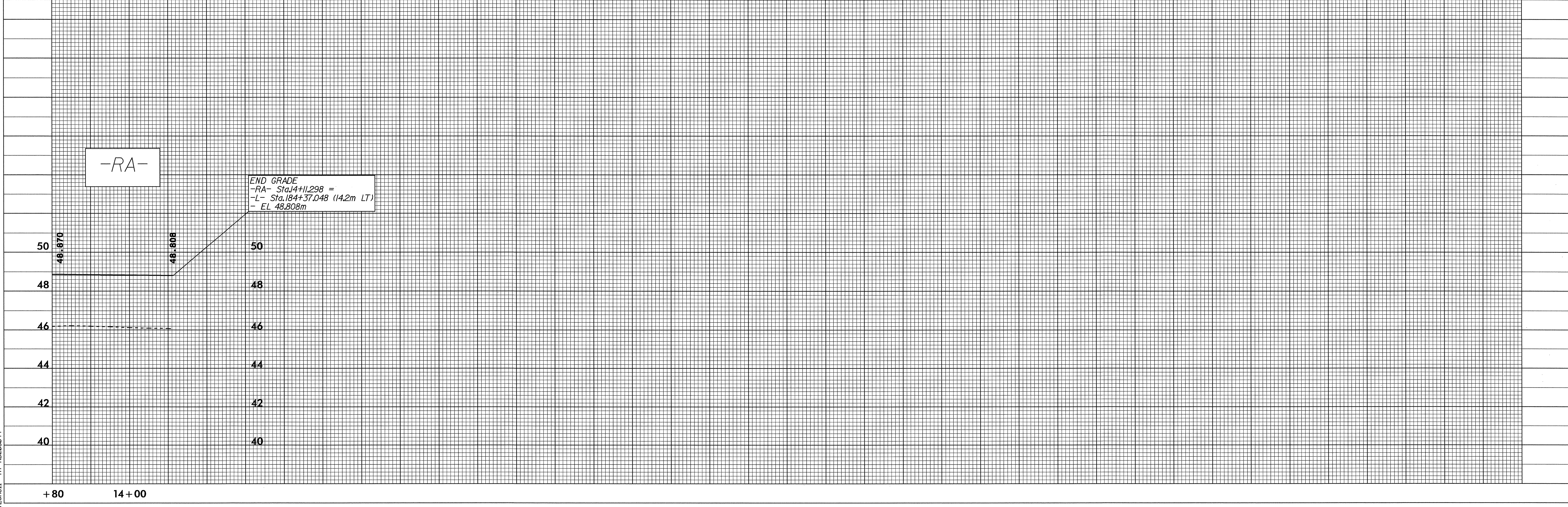


PROJECT REFERENCE NO. R-513 BB	SHEET NO. 49
ROADWAY DESIGN ENGINEER 06-03-04	HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17691 RICHARD A. SHILLING	NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 16600 RICHARD C. HEWITT
CONST.REV.	
R / W REV.	



PIPE HYDRAULIC DATA  
DRAINAGE STRUCTURE NO.38

DRAINAGE AREA	= 22.654HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.864 CMS
DESIGN HW ELEVATION	= 45.44 M
100 YEAR DISCHARGE	= 1.045 CMS
100 YEAR HW ELEVATION	= 45.58 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 2.253 CMS
OVERTOPPING ELEVATION	= 46.944 M



23-FEB-2004 14:03  
TL5ne11 AT 14:03:34