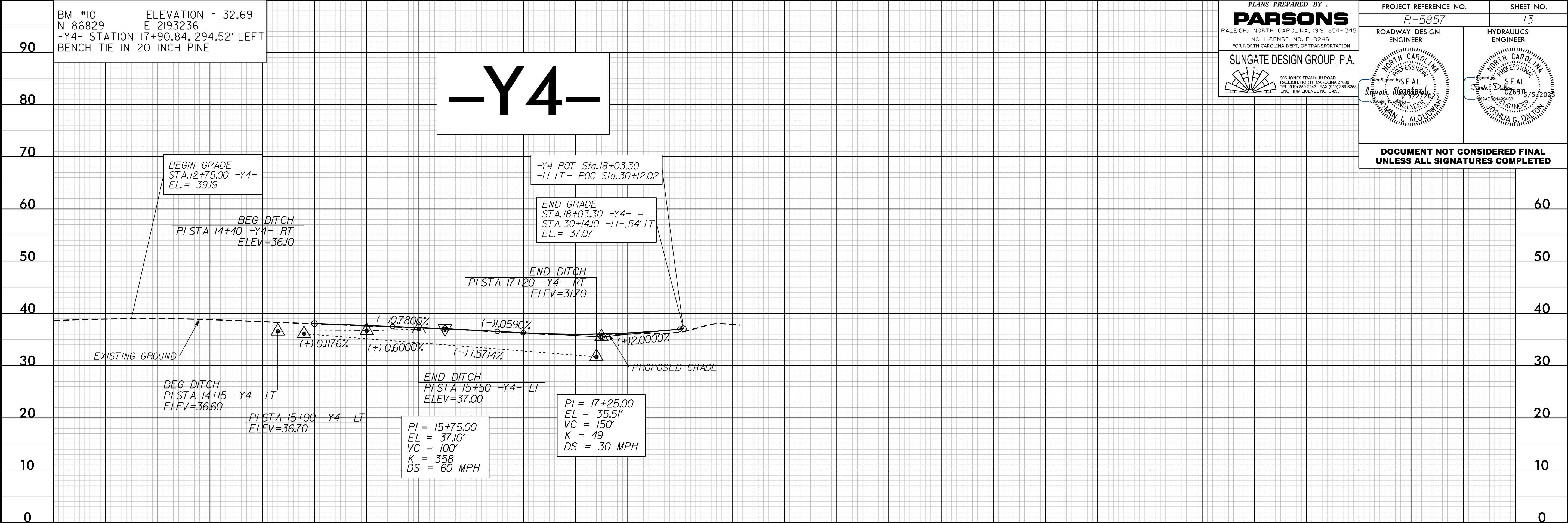


5/28/99



PLANS PREPARED BY :

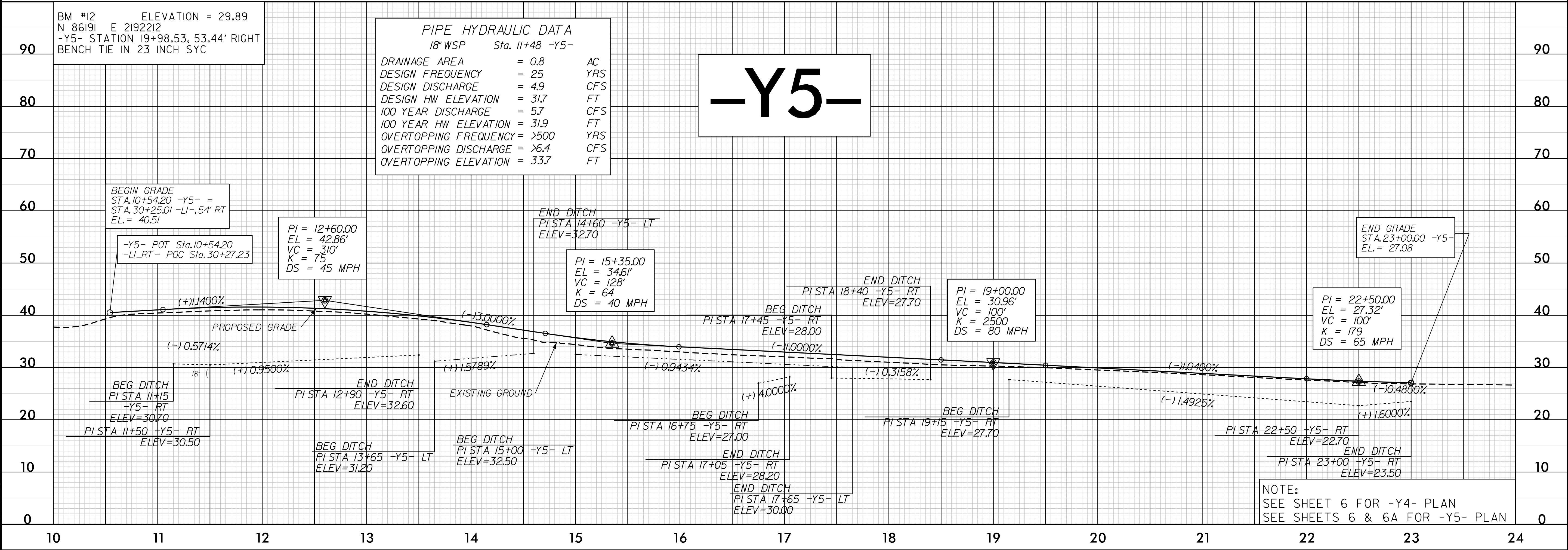
PARSONS
RALEIGH, NORTH CAROLINA, (919) 854-1345
NC LICENSE NO. F-0246
FOR NORTH CAROLINA DEPT. OF TRANSPORTATION

SUNGATE DESIGN GROUP, P.A.
905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243 FAX (919) 858-4258
ENG. FIRM LICENSE NO. C-480

PROJECT REFERENCE NO. <i>R-5857</i>		SHEET NO. <i>13</i>	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

Q:\APR 2005_0850_04\6657_P-00\1R-5857_Rdy_PFL_13.dgn
\$\$\$\$\$ USER:RAMONLOPEZ \$\$\$



PIPE HYDRAULIC DATA
18" WSP Sta. 11+48 -Y5-

DRAINAGE AREA	= 0.8	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.9	CFS
DESIGN HW ELEVATION	= 31.7	FT
100 YEAR DISCHARGE	= 5.7	CFS
100 YEAR HW ELEVATION	= 31.9	FT
OVERTOPPING FREQUENCY	= >500	YRS
OVERTOPPING DISCHARGE	= >6.4	CFS
OVERTOPPING ELEVATION	= 33.7	FT

NOTE:
SEE SHEET 6 FOR -Y4- PLAN
SEE SHEETS 6 & 6A FOR -Y5- PLAN