

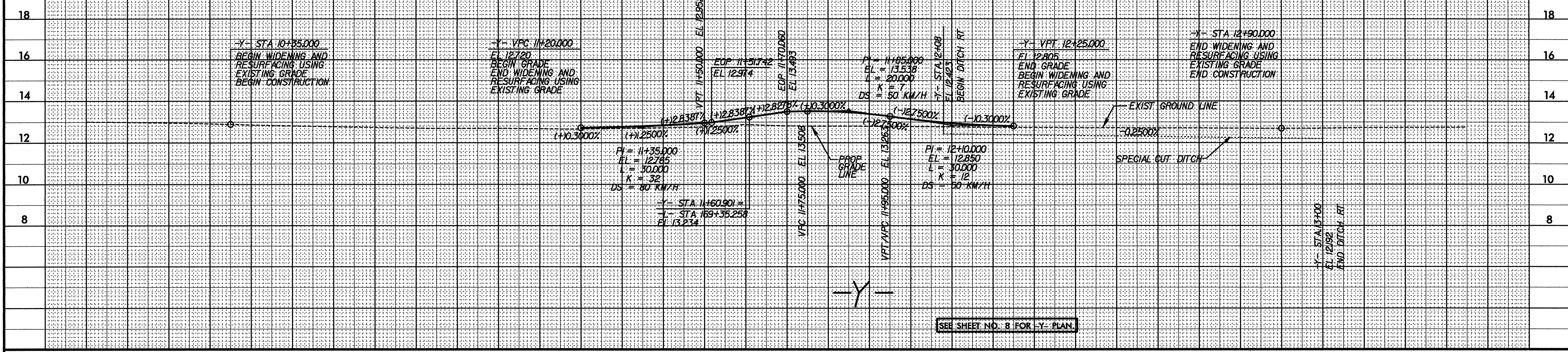
BM#3 EL. 13.429
 NAIL IN PP 5CG08
 22.324m LT. -Y- STA. 11+23.974

GREENHORNE & O'MARA, INC.
 5565 CENTERVIEW DRIVE, SUITE 107
 RALEIGH, NORTH CAROLINA 27606
 (919) 851-1919

METRIC
 ROADWAY DESIGN ENGINEER
 CONST. REV.
 R/W REV.

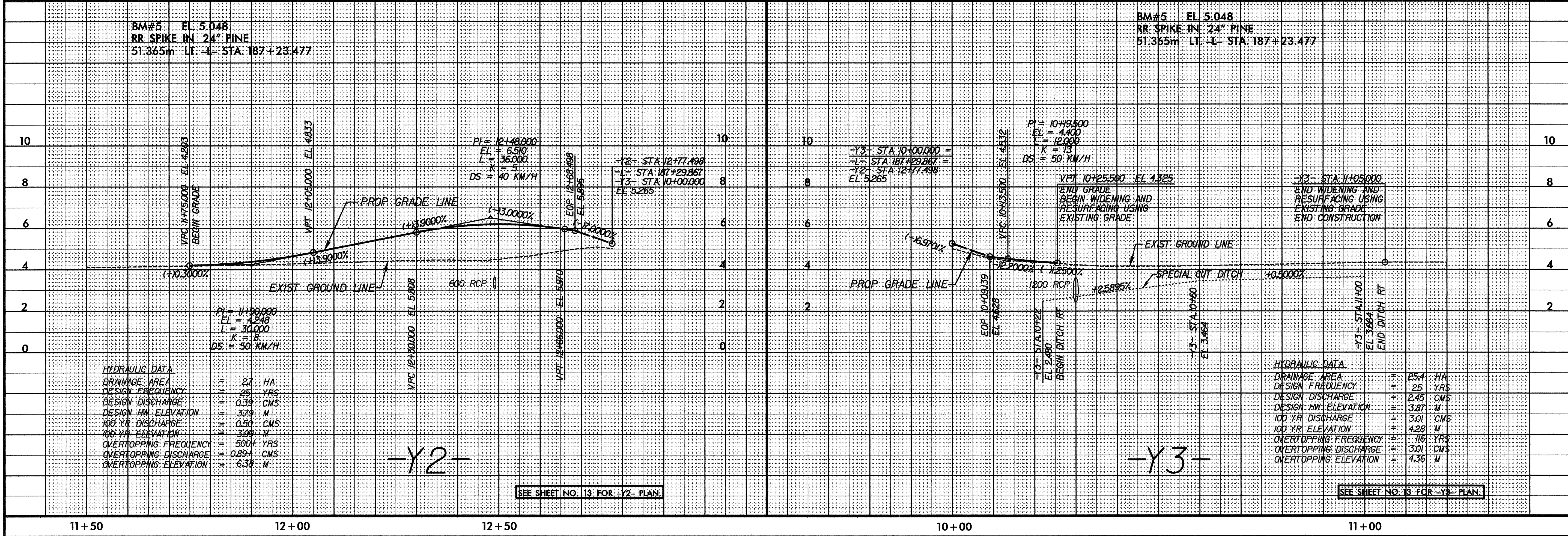
PROJECT REFERENCE NO.
 R-2539C
 NORTH CAROLINA PROFESSIONAL SEAL
 1850
 ENGINEER
 STACEY C. KEENER
 9-29-04

SHEET NO.
 41
 HYDRAULICS ENGINEER
 NORTH CAROLINA PROFESSIONAL SEAL
 24451
 ENGINEER
 STACEY H. BAILEY
 9/29/04



BM#5 EL. 5.048
 RR SPIKE IN 24" PINE
 51.365m LT. -L- STA. 11+23.477

BM#5 EL. 5.048
 RR SPIKE IN 24" PINE
 51.365m LT. -L- STA. 11+23.477



HYDRAULIC DATA

DRAINAGE AREA	=	27	HA
DESIGN FREQUENCY	=	25	YRS
DESIGN DISCHARGE	=	0.39	CMS
DESIGN HW ELEVATION	=	3.79	M
100 YR DISCHARGE	=	0.50	CMS
100 YR ELEVATION	=	3.99	M
OVERTOPPING FREQUENCY	=	500	YRS
OVERTOPPING DISCHARGE	=	0.89	CMS
OVERTOPPING ELEVATION	=	6.38	M

HYDRAULIC DATA

DRAINAGE AREA	=	254	HA
DESIGN FREQUENCY	=	25	YRS
DESIGN DISCHARGE	=	2.45	CMS
DESIGN HW ELEVATION	=	3.87	M
100 YR DISCHARGE	=	3.01	CMS
100 YR ELEVATION	=	4.28	M
OVERTOPPING FREQUENCY	=	116	YRS
OVERTOPPING DISCHARGE	=	3.01	CMS
OVERTOPPING ELEVATION	=	4.36	M