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5/28/99

PROJECT REFERENCE NO.	SHEET NO.
I-5883	119

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 027373 ENGINEER SUSAN C. LANCASTER
DocuSigned by: Susan C Lancaster 4EB965A26CFC495... 6/24/2021

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26971 ENGINEER JOSHUA G. DALTON
DocuSigned by: Joshua G. Dalton 1089AD8C149943C3... 6/24/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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SUNGATE DESIGN GROUP, P.A.
905 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27609
NC COA No. C-0890

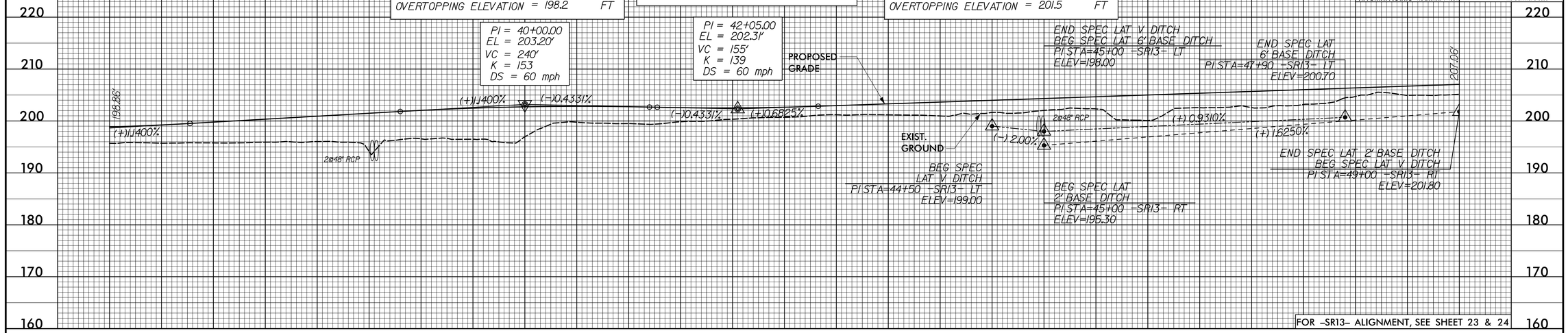
-SR13-

PIPE HYDRAULIC DATA
2@48" RCP Sta. 38+55 -SR13-

DRAINAGE AREA	= 65	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 100	CFS
DESIGN HW ELEVATION	= 196.4	FT
100 YEAR DISCHARGE	= 120	CFS
100 YEAR HW ELEVATION	= 197.3	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 130	CFS
OVERTOPPING ELEVATION	= 198.2	FT

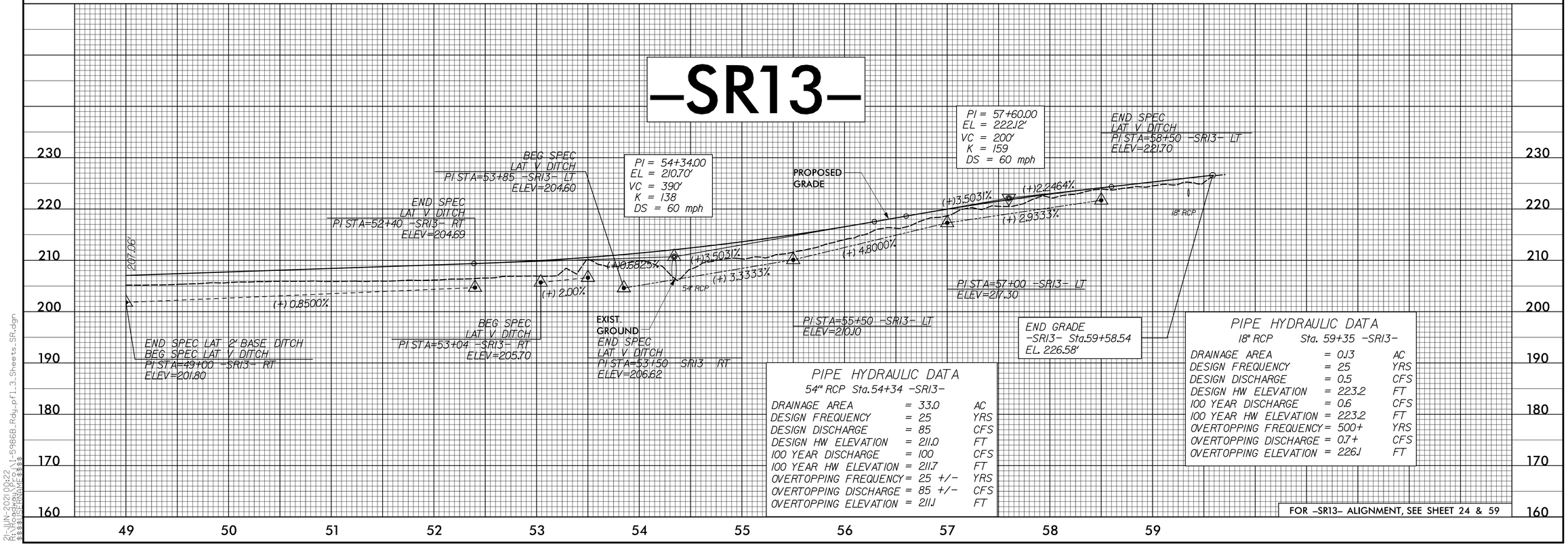
PIPE HYDRAULIC DATA
2@48" RCP Sta. 44+97 -SR13-

DRAINAGE AREA	= 58.2	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 100	CFS
DESIGN HW ELEVATION	= 201.3	FT
100 YEAR DISCHARGE	= 120	CFS
100 YEAR HW ELEVATION	= 201.7	FT
OVERTOPPING FREQUENCY	= 25+	YRS
OVERTOPPING DISCHARGE	= 100+	CFS
OVERTOPPING ELEVATION	= 201.5	FT



FOR -SR13- ALIGNMENT, SEE SHEET 23 & 24

-SR13-



PIPE HYDRAULIC DATA
54" RCP Sta.54+34 -SR13-

DRAINAGE AREA	= 33.0	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 85	CFS
DESIGN HW ELEVATION	= 211.0	FT
100 YEAR DISCHARGE	= 100	CFS
100 YEAR HW ELEVATION	= 211.7	FT
OVERTOPPING FREQUENCY	= 25 +/-	YRS
OVERTOPPING DISCHARGE	= 85 +/-	CFS
OVERTOPPING ELEVATION	= 211.1	FT

PIPE HYDRAULIC DATA
18" RCP Sta. 59+35 -SR13-

DRAINAGE AREA	= 0.13	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 0.5	CFS
DESIGN HW ELEVATION	= 223.2	FT
100 YEAR DISCHARGE	= 0.6	CFS
100 YEAR HW ELEVATION	= 223.2	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 0.7+	CFS
OVERTOPPING ELEVATION	= 226.1	FT

FOR -SR13- ALIGNMENT, SEE SHEET 24 & 59

21-JUN-2021 09:22
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$$$$USERNAME$$$$