

5/28/2022

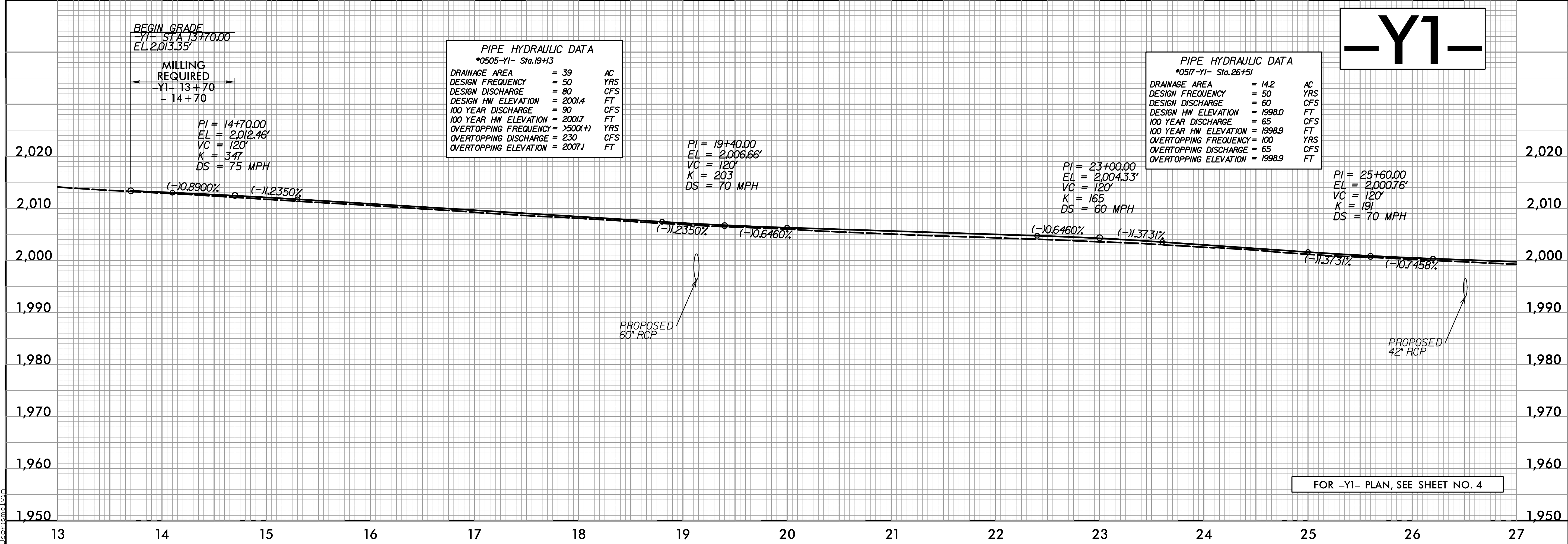
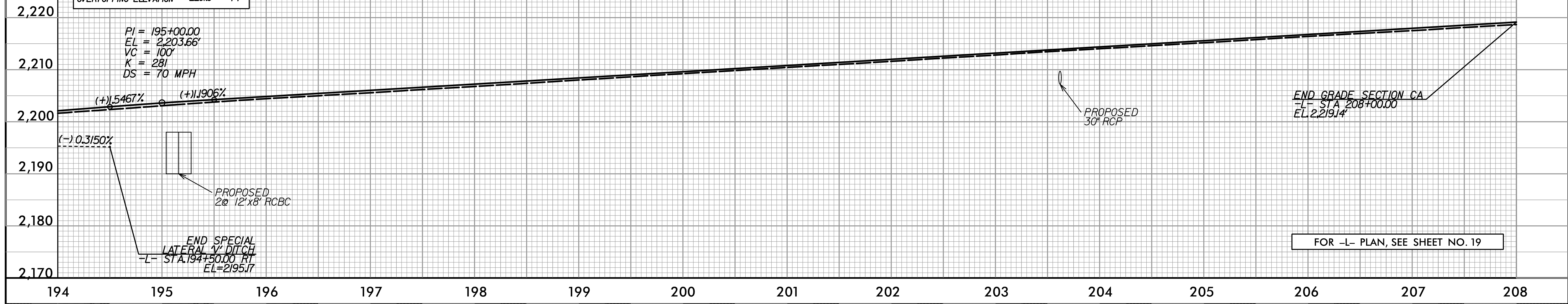
PROJECT REFERENCE NO. A-0009CA	SHEET NO. 27
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
TGS ENGINEERS 201 W. MARION ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

CULVERT HYDRAULIC DATA
2@ 12"x8" RCBC -L- Sta.195+16

DRAINAGE AREA	= 4.39	Sqmi
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 1400	CFS
DESIGN HW ELEVATION	= 2200.3	FT
100 YEAR DISCHARGE	= 1700	CFS
100 YEAR HW ELEVATION	= 2201.4	FT
OVERTOPPING FREQUENCY	= 50+	YRS
OVERTOPPING DISCHARGE	= 1600	CFS
OVERTOPPING ELEVATION	= 2201.0	FT

PIPE HYDRAULIC DATA
*1904-L- Sta.203+62

DRAINAGE AREA	= 13.2	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 19	CFS
DESIGN HW ELEVATION	= 2210.3	FT
100 YEAR DISCHARGE	= 21	CFS
100 YEAR HW ELEVATION	= 2210.5	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 38	CFS
OVERTOPPING ELEVATION	= 2211.7	FT



PIPE HYDRAULIC DATA
*0505-Y1- Sta.19+13

DRAINAGE AREA	= 39	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 80	CFS
DESIGN HW ELEVATION	= 2001.4	FT
100 YEAR DISCHARGE	= 90	CFS
100 YEAR HW ELEVATION	= 2001.7	FT
OVERTOPPING FREQUENCY	= >500(+)	YRS
OVERTOPPING DISCHARGE	= 230	CFS
OVERTOPPING ELEVATION	= 2007.1	FT

PIPE HYDRAULIC DATA
*0517-Y1- Sta.26+51

DRAINAGE AREA	= 14.2	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 60	CFS
DESIGN HW ELEVATION	= 1998.0	FT
100 YEAR DISCHARGE	= 65	CFS
100 YEAR HW ELEVATION	= 1998.9	FT
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING DISCHARGE	= 65	CFS
OVERTOPPING ELEVATION	= 1998.9	FT

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