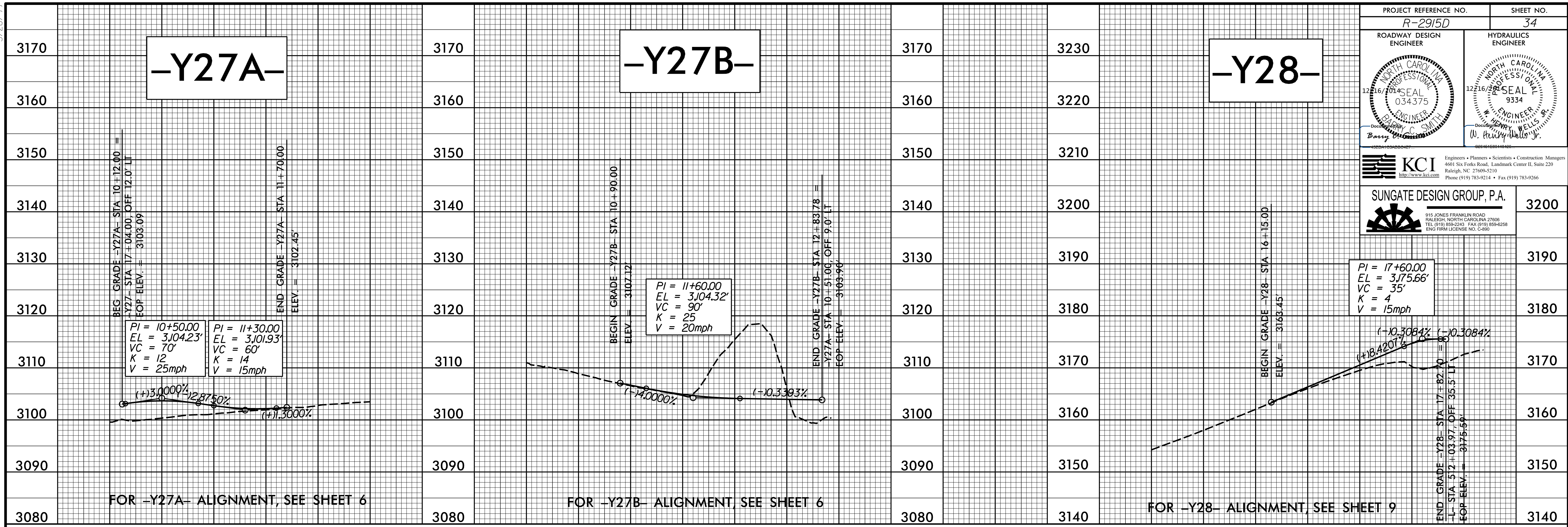
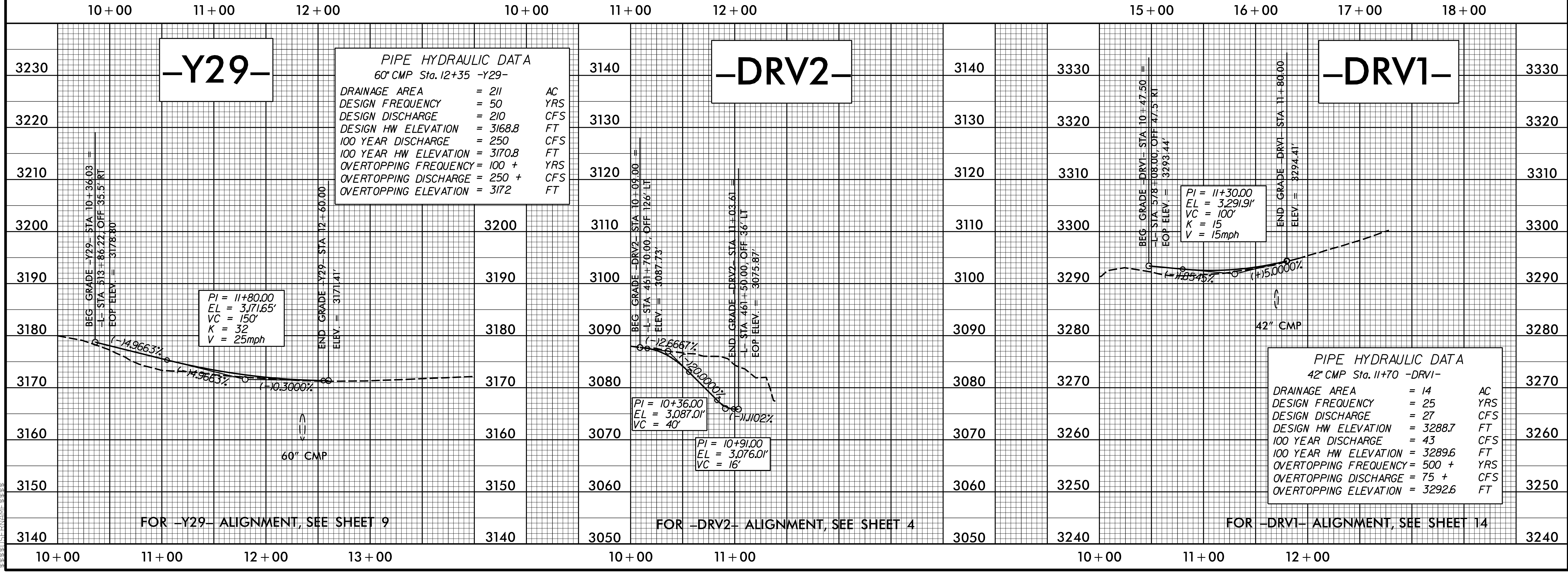


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PROJECT REFERENCE NO. R-2915D	SHEET NO. 34
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Engineers • Planners • Scientists • Construction Managers 4601 Six Forks Road, Landmark Center II, Suite 220 Raleigh, NC 27609-5210 Phone (919) 783-9214 • Fax (919) 783-9266	
SUNGATE DESIGN GROUP, P.A.	
4201 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27606 TEL (919) 859-2243 FAX (919) 859-6258 ENG FROM LICENSE NO. C-400	



PIPE HYDRAULIC DATA
60" CMP Sta. 12+35 -Y29-

DRAINAGE AREA	= 211	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 210	CFS
DESIGN HW ELEVATION	= 3168.8	FT
100 YEAR DISCHARGE	= 250	CFS
100 YEAR HW ELEVATION	= 3170.8	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 250 +	CFS
OVERTOPPING ELEVATION	= 3172	FT

PIPE HYDRAULIC DATA
42" CMP Sta. 11+70 -DRV1-

DRAINAGE AREA	= 14	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 27	CFS
DESIGN HW ELEVATION	= 3288.7	FT
100 YEAR DISCHARGE	= 43	CFS
100 YEAR HW ELEVATION	= 3289.6	FT
OVERTOPPING FREQUENCY	= 500 +	YRS
OVERTOPPING DISCHARGE	= 75 +	CFS
OVERTOPPING ELEVATION	= 3292.6	FT