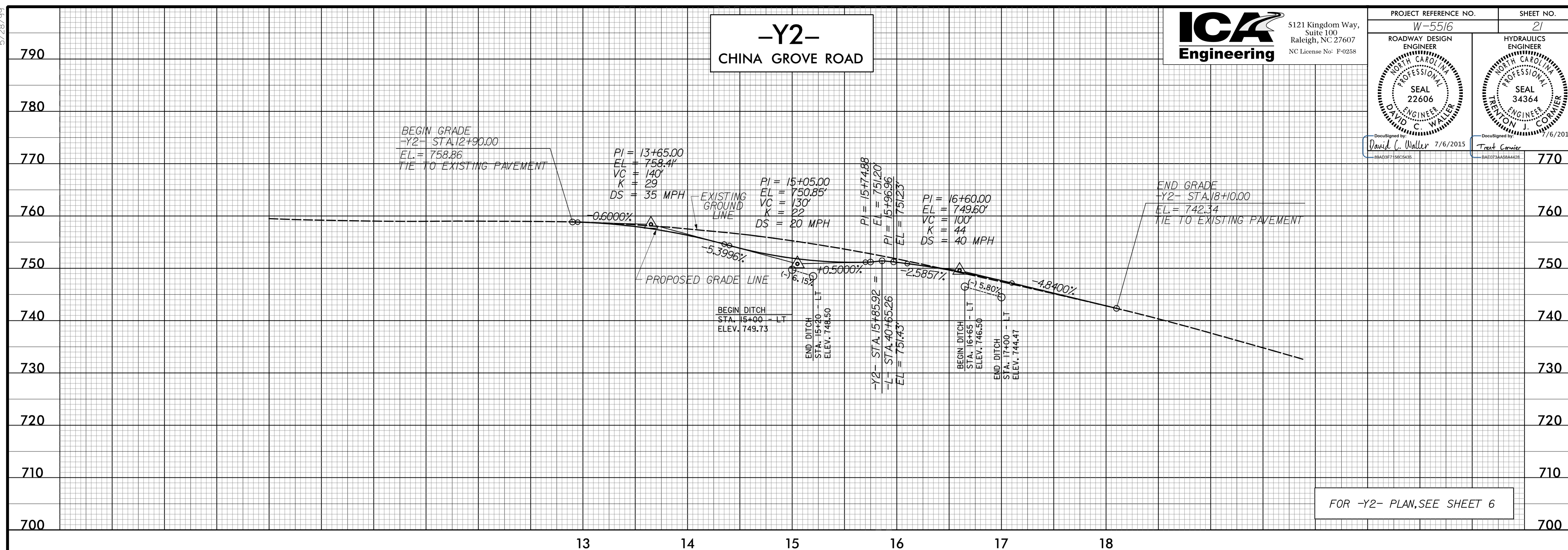


5/28/09

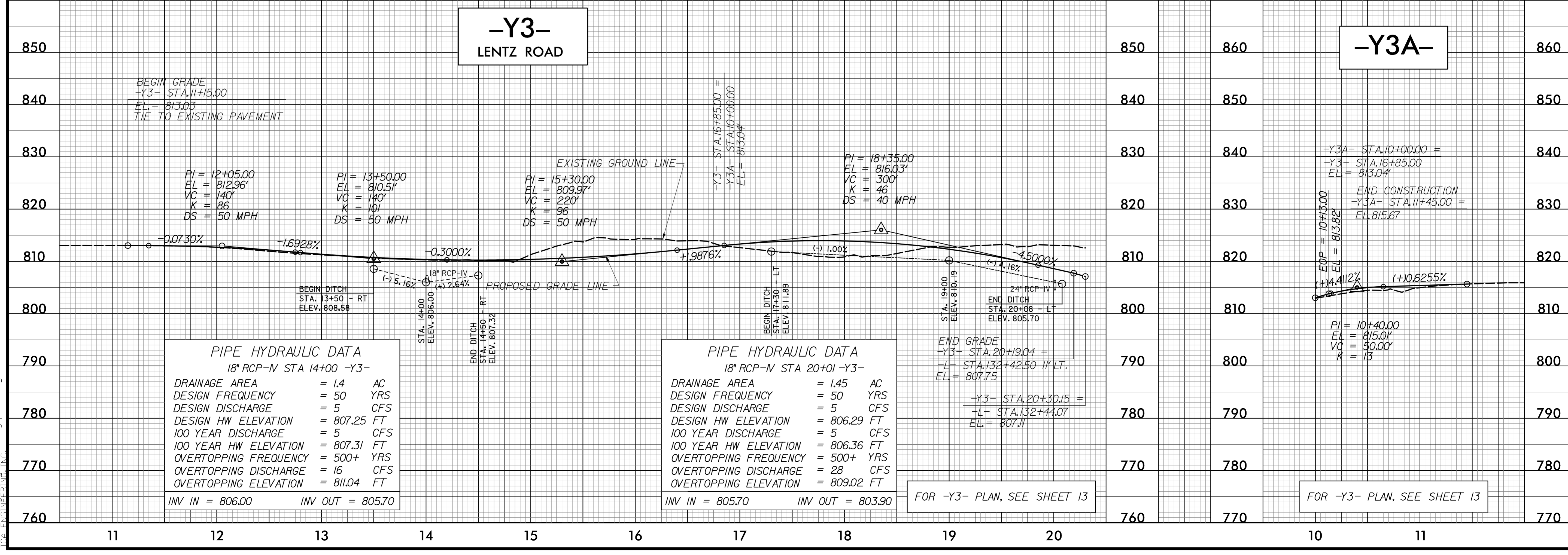


5121 Kingdom Way,
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Raleigh, NC 27607
NC License No: F-0258

PROJECT REFERENCE NO. W-5516	SHEET NO. 21
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
SEAL 22606 DAVID C. WALLER	SEAL 34364 TREAT CORNIER
DocuSigned by: David C. Waller 7/6/2015	DocuSigned by: Treat Cornier 7/6/2015



FOR -Y2- PLAN, SEE SHEET 6



PIPE HYDRAULIC DATA
18" RCP-IV STA 14+00 -Y3-

DRAINAGE AREA	= 1.4	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 5	CFS
DESIGN HW ELEVATION	= 807.25	FT
100 YEAR DISCHARGE	= 5	CFS
100 YEAR HW ELEVATION	= 807.31	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 16	CFS
OVERTOPPING ELEVATION	= 811.04	FT
INV IN	= 806.00	
INV OUT	= 805.70	

PIPE HYDRAULIC DATA
18" RCP-IV STA 20+01 -Y3-

DRAINAGE AREA	= 1.45	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 5	CFS
DESIGN HW ELEVATION	= 806.29	FT
100 YEAR DISCHARGE	= 5	CFS
100 YEAR HW ELEVATION	= 806.36	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 28	CFS
OVERTOPPING ELEVATION	= 809.02	FT
INV IN	= 805.70	
INV OUT	= 803.90	

FOR -Y3- PLAN, SEE SHEET 13

FOR -Y3- PLAN, SEE SHEET 13

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