DocuSign Envelope ID: 130516AB-C00F-4731-8378-13BFDBC5DFFC

5/28/99

PROJECT REFERENCE NO.	SHEET NO.
U-5105	5

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL ENGINEER STEPHEN C. BROWDE 15759 — DocuSigned by: Stephen C. Browde — 5/22/2018

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL ENGINEER DAVID P. BOCKS 16229384 — DocuSigned by: David P. Bocks — 5/22/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

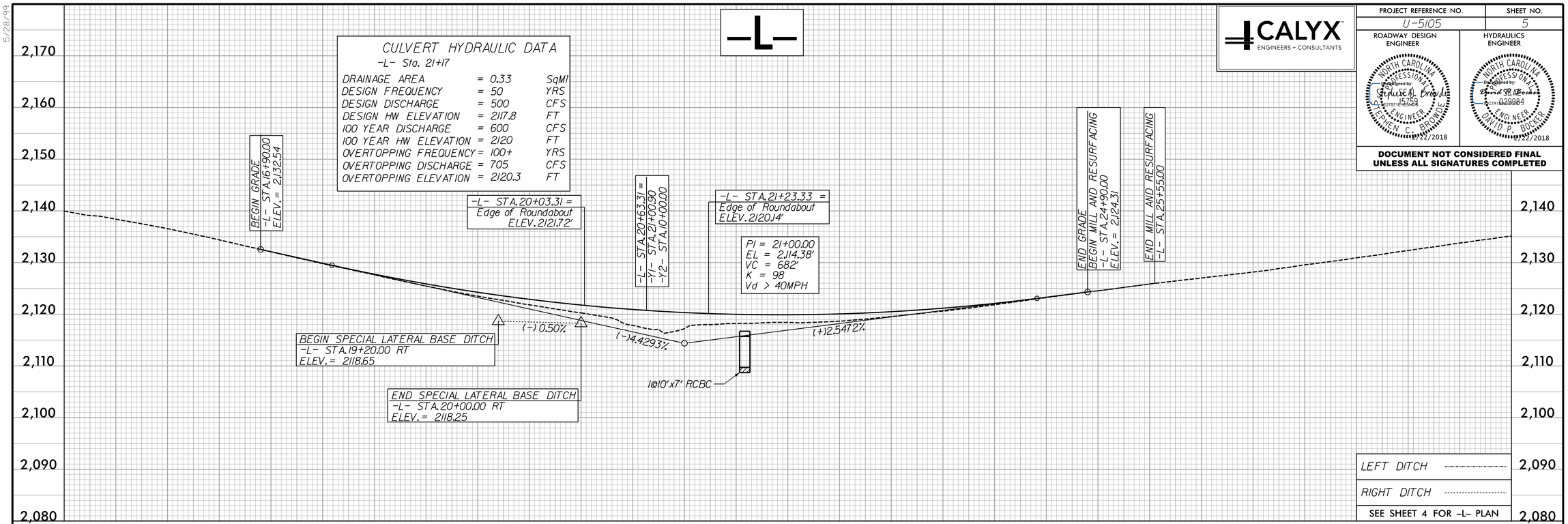
CALYX ENGINEERS + CONSULTANTS

-L-

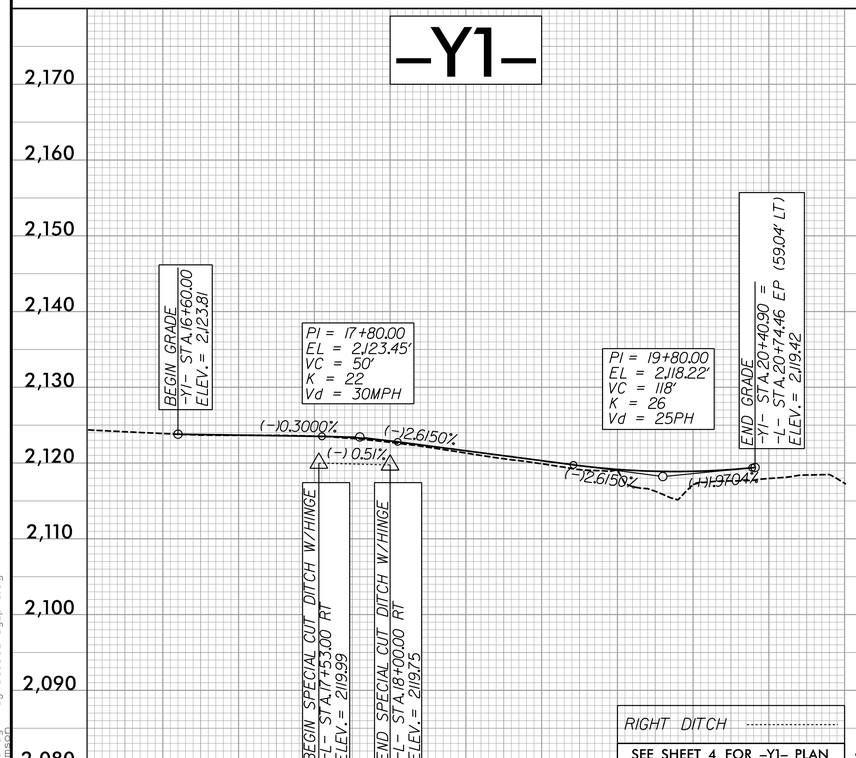
CULVERT HYDRAULIC DATA

-L- Sta. 21+17

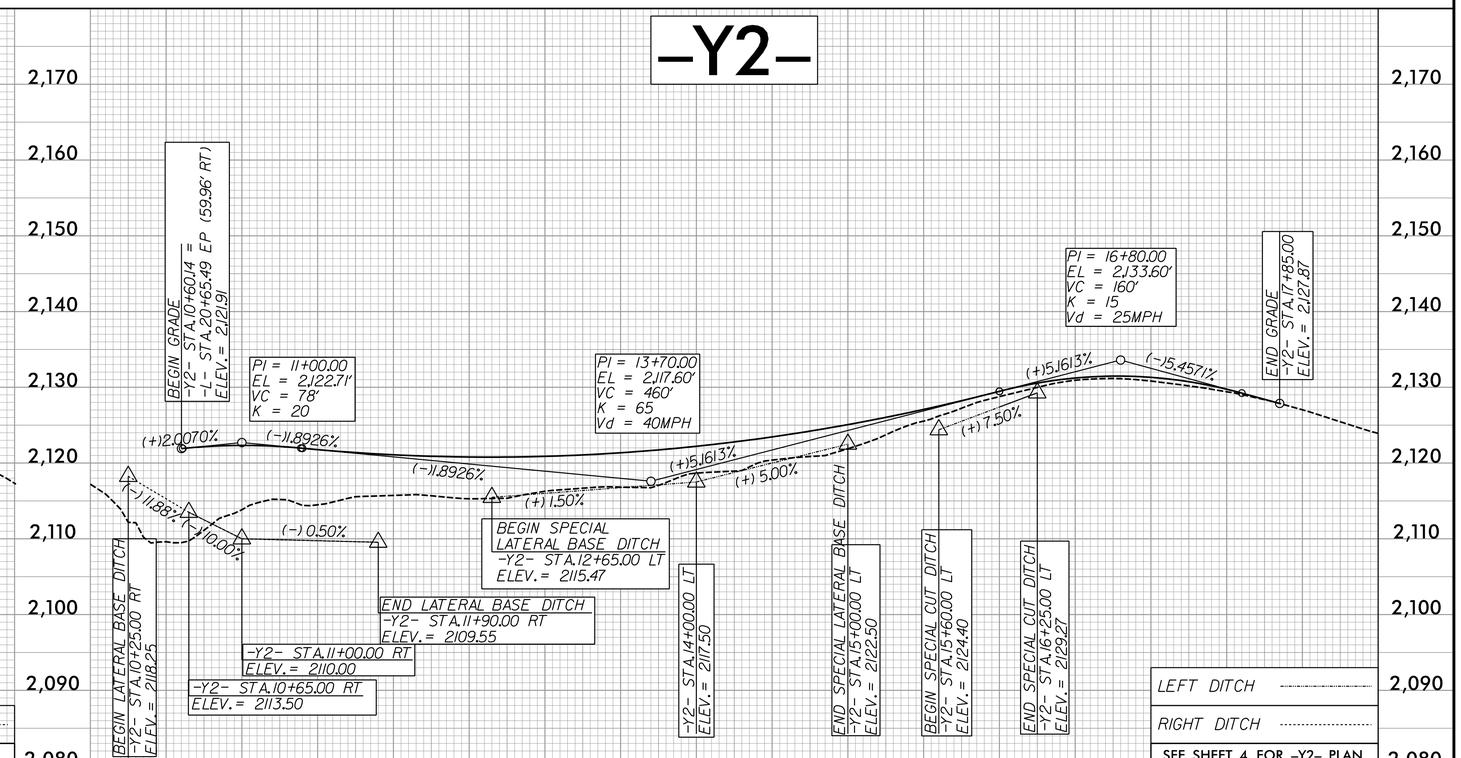
DRAINAGE AREA	=	0.33	SqMi
DESIGN FREQUENCY	=	50	YRS
DESIGN DISCHARGE	=	500	CFS
DESIGN HW ELEVATION	=	2117.8	FT
100 YEAR DISCHARGE	=	600	CFS
100 YEAR HW ELEVATION	=	2120	FT
OVERTOPPING FREQUENCY	=	100+	YRS
OVERTOPPING DISCHARGE	=	705	CFS
OVERTOPPING ELEVATION	=	2120.3	FT



-Y1-



-Y2-



2/21/2018
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mwilkinson