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5/28/99

SUNGATE DESIGN GROUP, P.A.
905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

PROJECT REFERENCE NO.	SHEET NO.
U-2412A	31

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 27391 ENGINEER
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4/24/2018

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26971 ENGINEER
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Prepared in the Office of:
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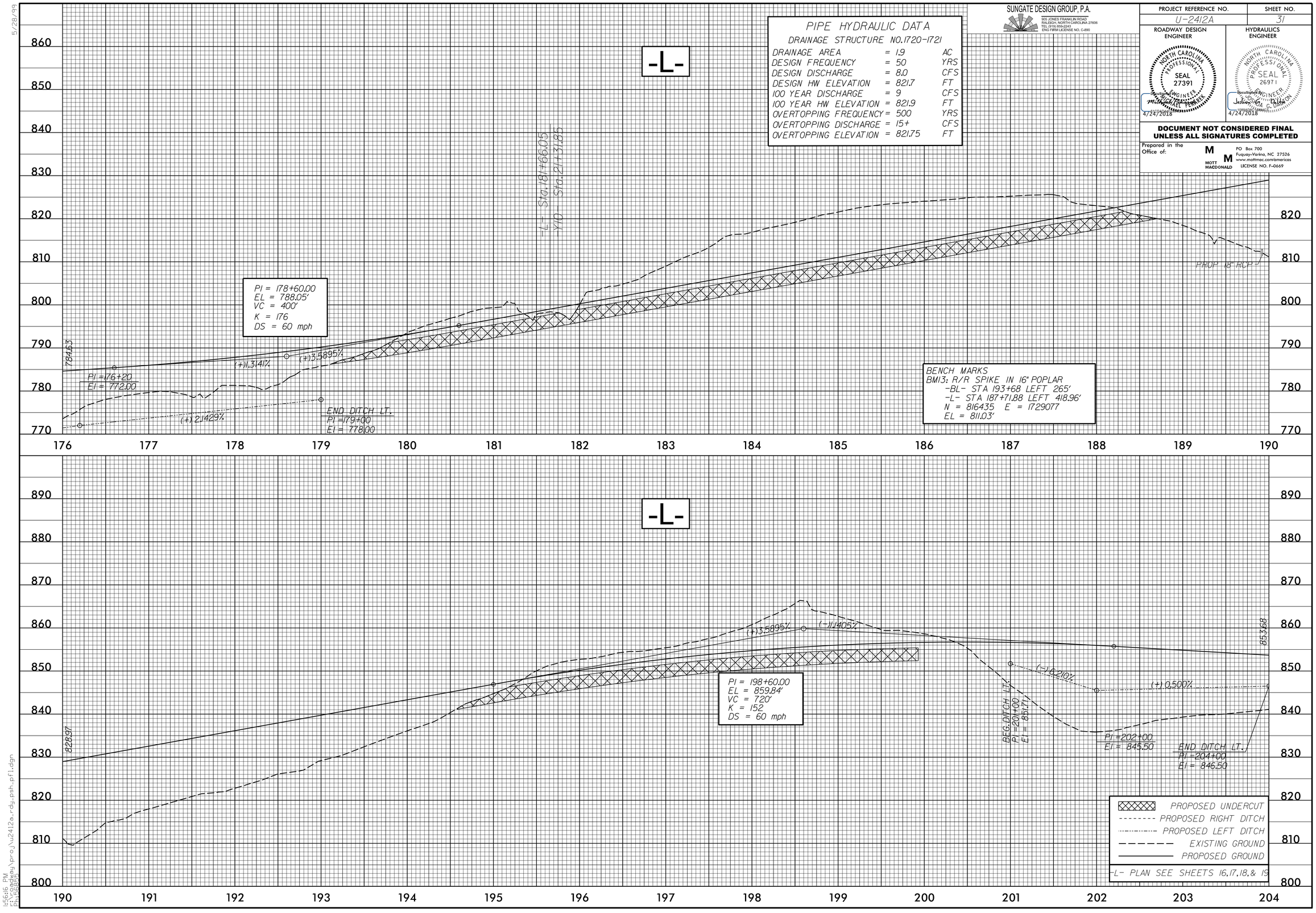
LICENSE NO. F-0669

PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO.1720-1721

DRAINAGE AREA	=	1.9	AC
DESIGN FREQUENCY	=	50	YRS
DESIGN DISCHARGE	=	8.0	CFS
DESIGN HW ELEVATION	=	821.7	FT
100 YEAR DISCHARGE	=	9	CFS
100 YEAR HW ELEVATION	=	821.9	FT
OVERTOPPING FREQUENCY	=	500	YRS
OVERTOPPING DISCHARGE	=	15+	CFS
OVERTOPPING ELEVATION	=	821.75	FT



15/6/16 PM
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