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5/28/99

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G & M of North Carolina, Inc.
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Raleigh, NC 27607-5073
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WSP
Transportation & Infrastructure
15401 Weston Parkway Suite 100
Cary, NC 27513 - 919.678.0035
www.wspsells.com
LICENSE NO. F-0891

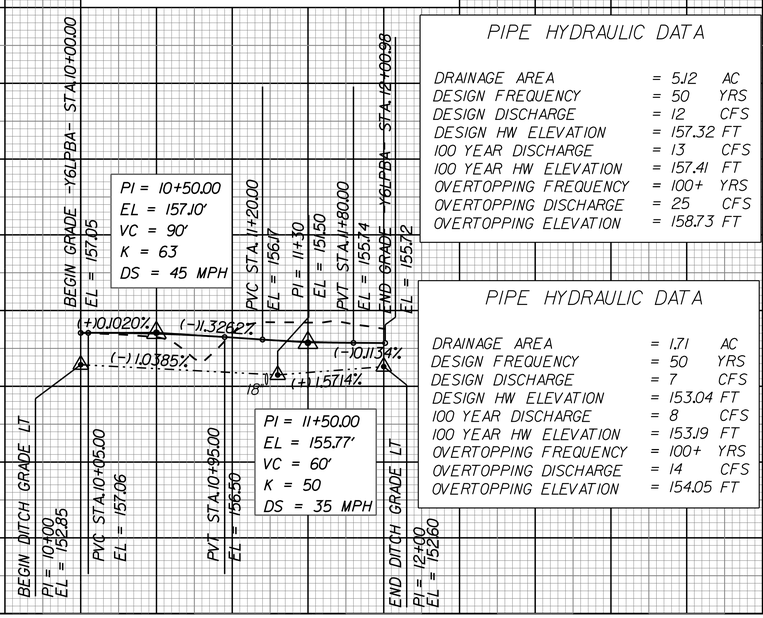
PROJECT REFERENCE NO.	SHEET NO.
W-5107	25

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 022037 ENGINEER — STEPHEN T. SMALLWOOD — SEAL NOT VALID UNLESS SIGNED AND DATED

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 26306 ENGINEER — MARK M. PASSMORE — REGISTERED ENGINEER

SEE SHEET 10 FOR -Y6LPBA- PLAN

-Y6LPBA-



PIPE HYDRAULIC DATA

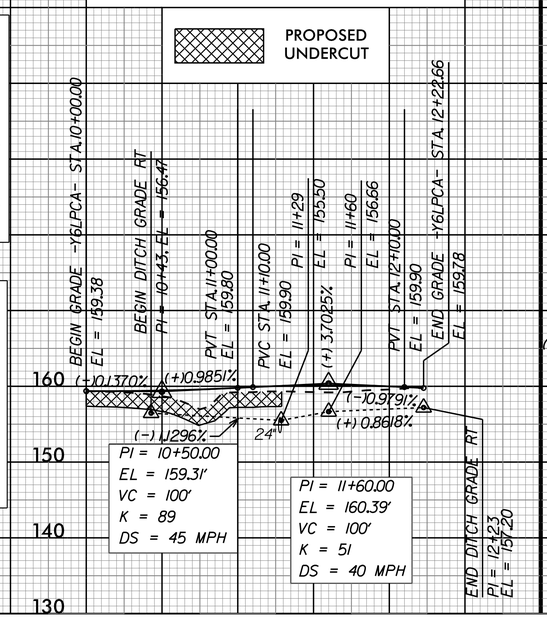
DRAINAGE AREA	= 5.12	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 12	CFS
DESIGN HW ELEVATION	= 157.32	FT
100 YEAR DISCHARGE	= 13	CFS
100 YEAR HW ELEVATION	= 157.41	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 25	CFS
OVERTOPPING ELEVATION	= 158.73	FT

PIPE HYDRAULIC DATA

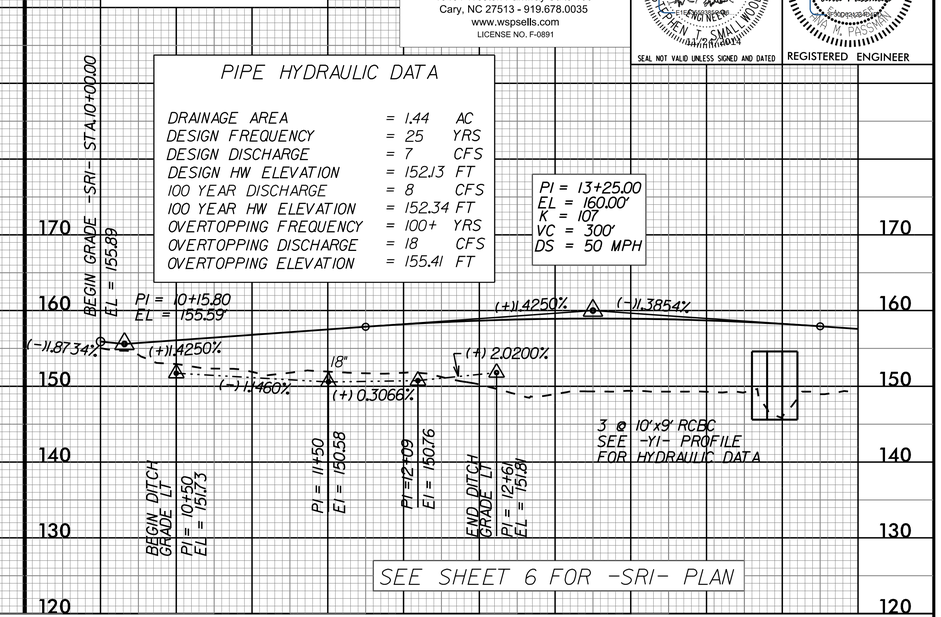
DRAINAGE AREA	= 1.71	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 7	CFS
DESIGN HW ELEVATION	= 153.04	FT
100 YEAR DISCHARGE	= 8	CFS
100 YEAR HW ELEVATION	= 153.19	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 14	CFS
OVERTOPPING ELEVATION	= 154.05	FT

SEE SHEET 10 FOR -Y6LPCA- PLAN

-Y6LPCA-



-SR1-



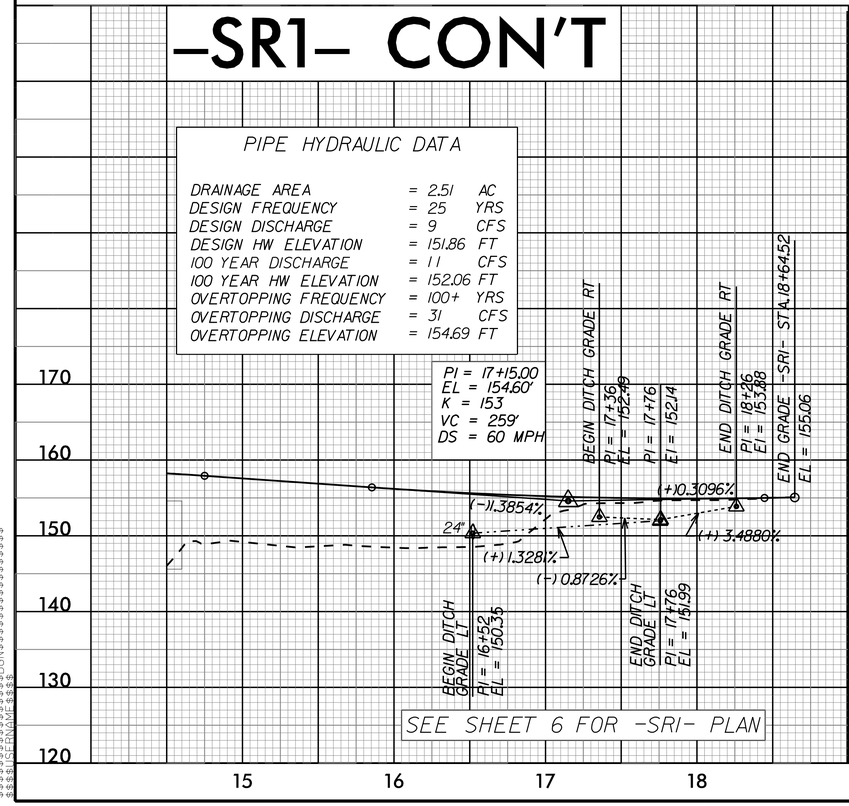
PIPE HYDRAULIC DATA

DRAINAGE AREA	= 1.44	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 7	CFS
DESIGN HW ELEVATION	= 152.13	FT
100 YEAR DISCHARGE	= 8	CFS
100 YEAR HW ELEVATION	= 152.34	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 18	CFS
OVERTOPPING ELEVATION	= 155.41	FT

PI = 13+25.00
EL = 160.00'
K = 107
VC = 300'
DS = 50 MPH

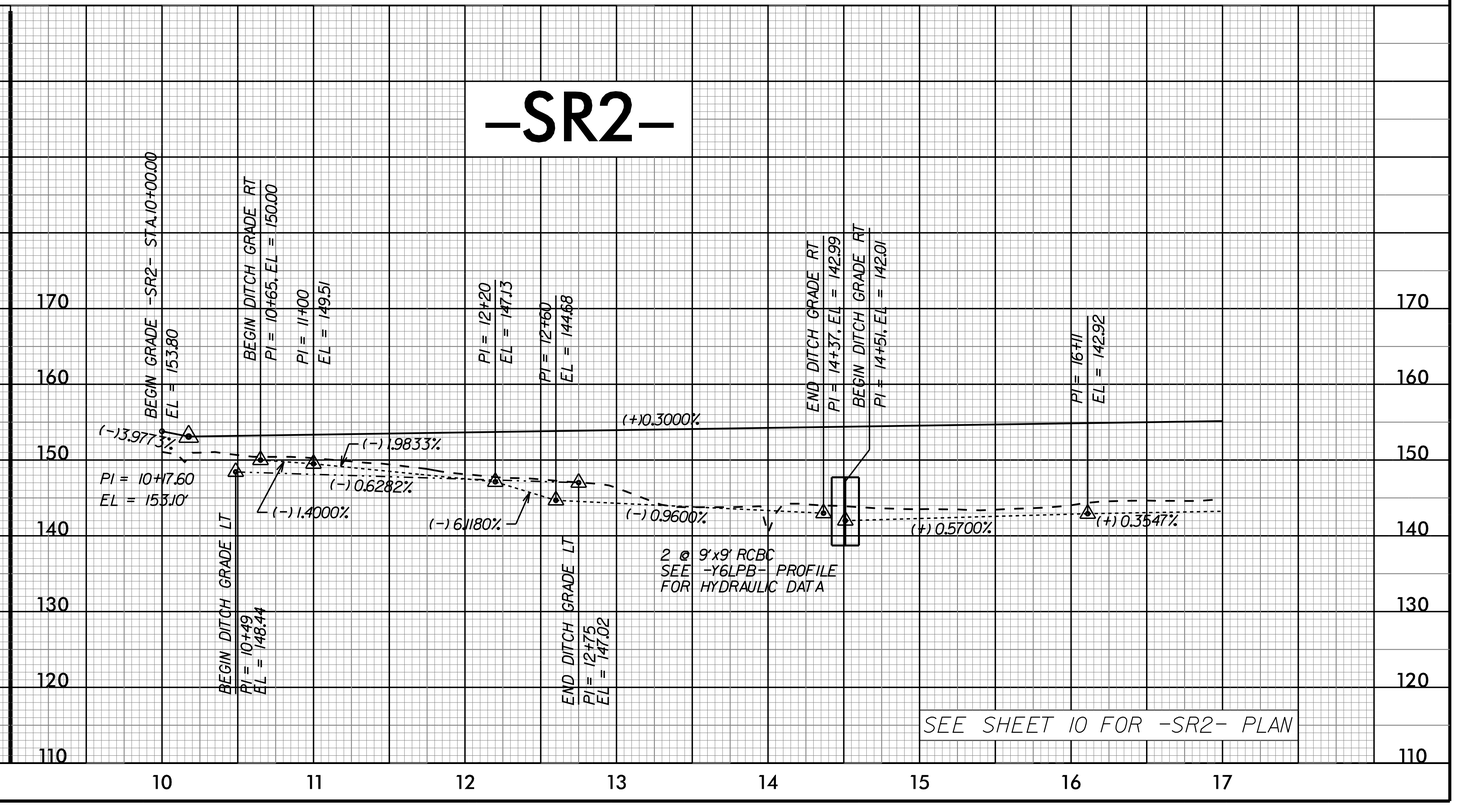
SEE SHEET 6 FOR -SRI- PLAN

-SR1- CON'T



SEE SHEET 6 FOR -SRI- PLAN

-SR2-



SEE SHEET 10 FOR -SR2- PLAN