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Transportation & Infrastructure
15401 Weston Parkway Suite 100
Cary, NC 27513 - 919.678.0035
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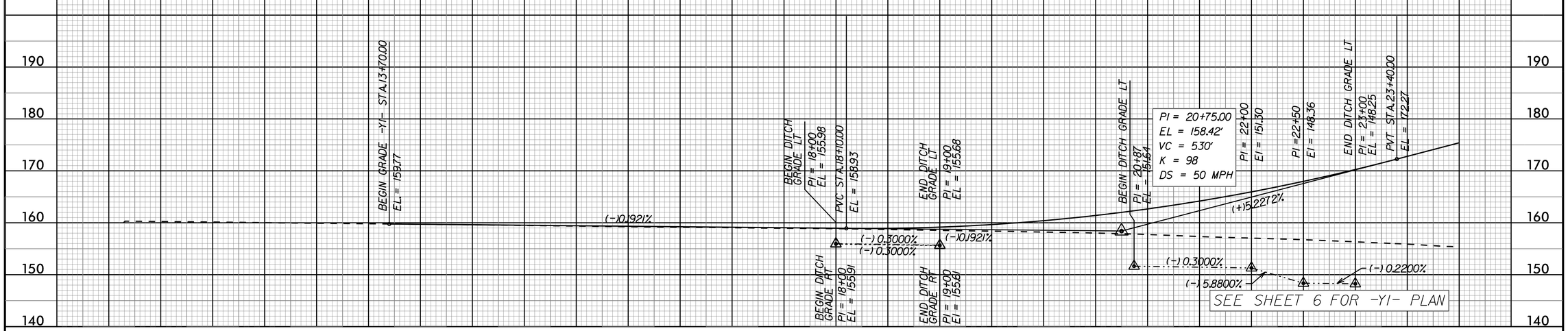
PROJECT REFERENCE NO.	SHEET NO.
W-5107	19

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 022037 ENGINEER STEPHEN T. SMALLWOOD
DocuSigned by: 4/24/2014
SEAL NOT VALID UNLESS SIGNED AND DATED

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26306 ENGINEER DAVID M. PASSMAN
DocuSigned by: David Passman 4/24/2014
REGISTERED ENGINEER

-Y1-



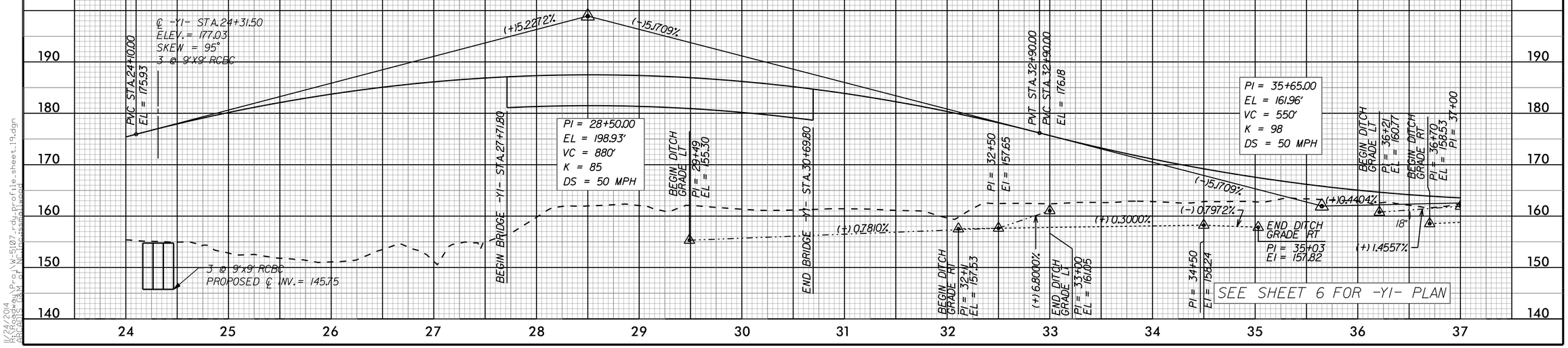
-Y1-

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 650	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 152.4	FT
BASE DISCHARGE	= 800	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 153.05	FT
OVERTOPPING DISCHARGE	= 2500	CFS
OVERTOPPING FREQUENCY	= 500 +	YRS
OVERTOPPING ELEVATION	= 159.5	FT

PIPE HYDRAULIC DATA

DRAINAGE AREA	= 0.83	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 2.6	CFS
DESIGN HW ELEVATION	= 161.61	FT
100 YEAR DISCHARGE	= 2.80	CFS
100 YEAR HW ELEVATION	= 161.64	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 11	CFS
OVERTOPPING ELEVATION	= 162.92	FT



1/24/2014
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