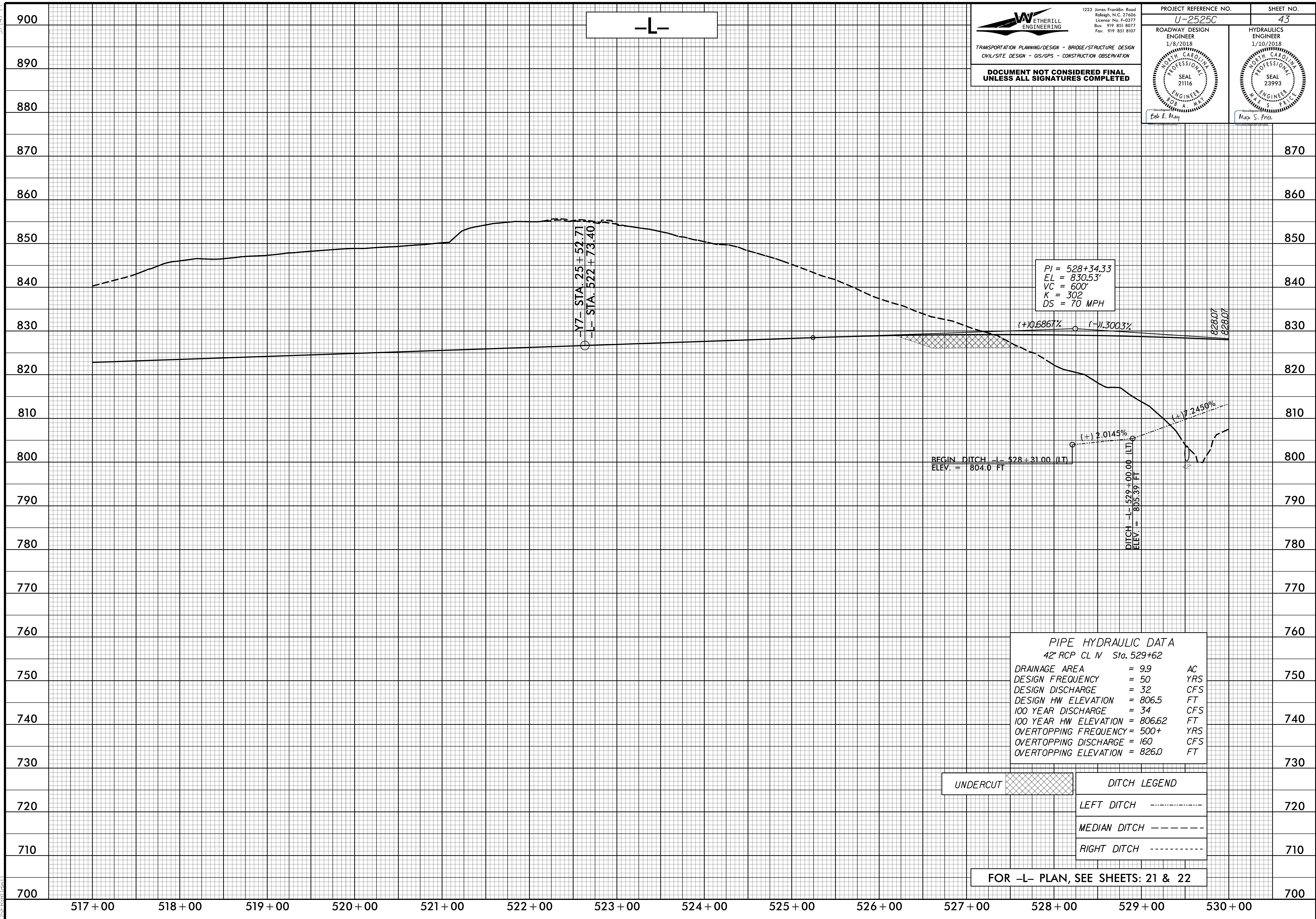



5/14/99

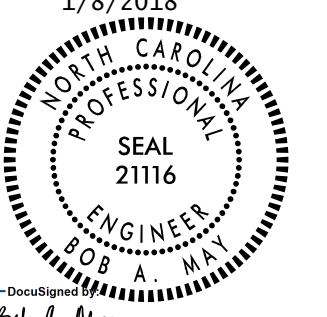
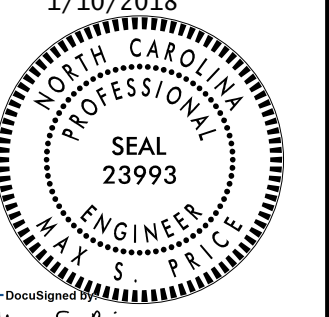


-L-


 1223 Jones Franklin Road
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. U-2525C	SHEET NO. 43
ROADWAY DESIGN ENGINEER 1/8/2018 	HYDRAULICS ENGINEER 1/10/2018 
Bob A. May	Max S. Price


PI = 528+34.33
 EL = 830.53'
 VC = 600'
 K = 302
 DS = 70 MPH

BEGIN DITCH -L- 528+31.00 (LT)
 ELEV. = 804.0 FT

DITCH -L- 529+00.00 (LT)
 ELEV. = 805.39 FT

PIPE HYDRAULIC DATA
42" RCP CL IV Sta. 529+62

DRAINAGE AREA	= 99	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 32	CFS
DESIGN HW ELEVATION	= 806.5	FT
100 YEAR DISCHARGE	= 34	CFS
100 YEAR HW ELEVATION	= 806.62	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 160	CFS
OVERTOPPING ELEVATION	= 826.0	FT

UNDERCUT 

DITCH LEGEND

LEFT DITCH -----

MEDIAN DITCH -----

RIGHT DITCH -----

FOR -L- PLAN, SEE SHEETS: 21 & 22

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