

5/14/99

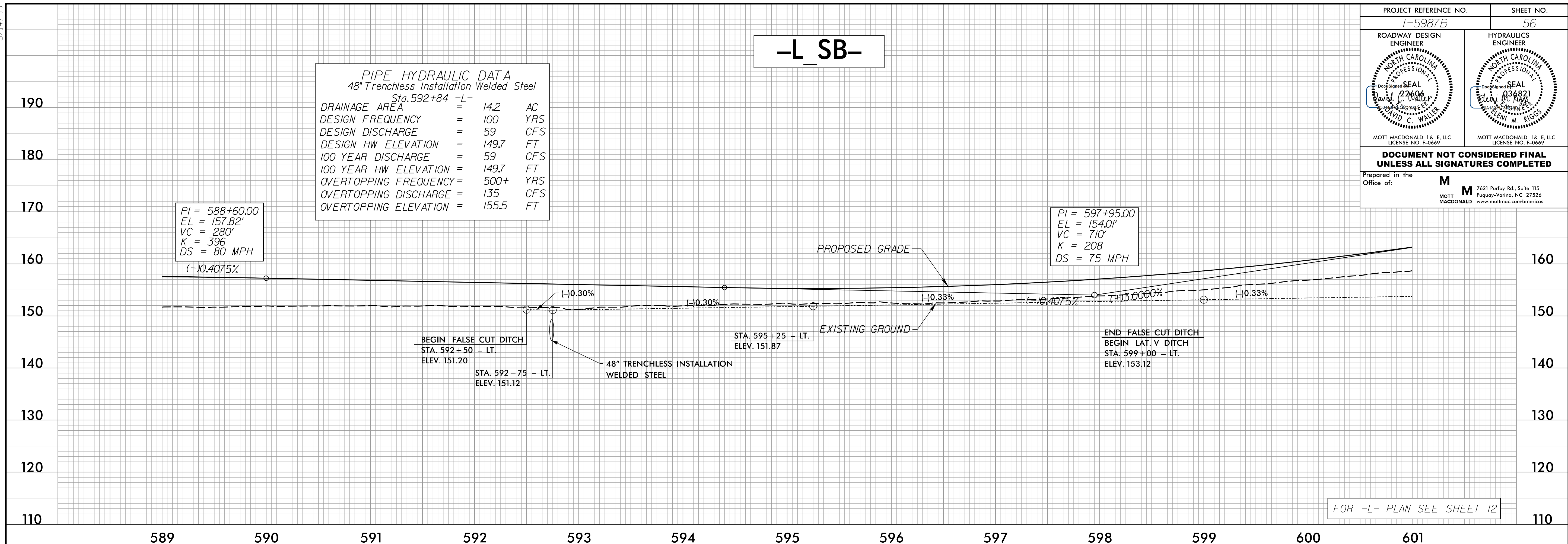
PROJECT REFERENCE NO. 1-5987B	SHEET NO. 56
ROADWAY DESIGN ENGINEER MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	HYDRAULICS ENGINEER MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
<p>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p> <p>Prepared in the Office of: M MOTT MACDONALD I & E, LLC 7621 Purfoy Rd., Suite 115 Fuquay-Varina, NC 27526 www.mottmcc.com/americas</p>	

PIPE HYDRAULIC DATA
48" Trenchless Installation Welded Steel
Sta. 592+84 -L-

DRAINAGE AREA	=	14.2	AC
DESIGN FREQUENCY	=	100	YRS
DESIGN DISCHARGE	=	59	CFS
DESIGN HW ELEVATION	=	149.7	FT
100 YEAR DISCHARGE	=	59	CFS
100 YEAR HW ELEVATION	=	149.7	FT
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING DISCHARGE	=	135	CFS
OVERTOPPING ELEVATION	=	155.5	FT

PI = 588+60.00
EL = 157.82'
VC = 280'
K = 396
DS = 80 MPH
(-)0.4075%

PI = 597+95.00
EL = 154.01'
VC = 710'
K = 208
DS = 75 MPH

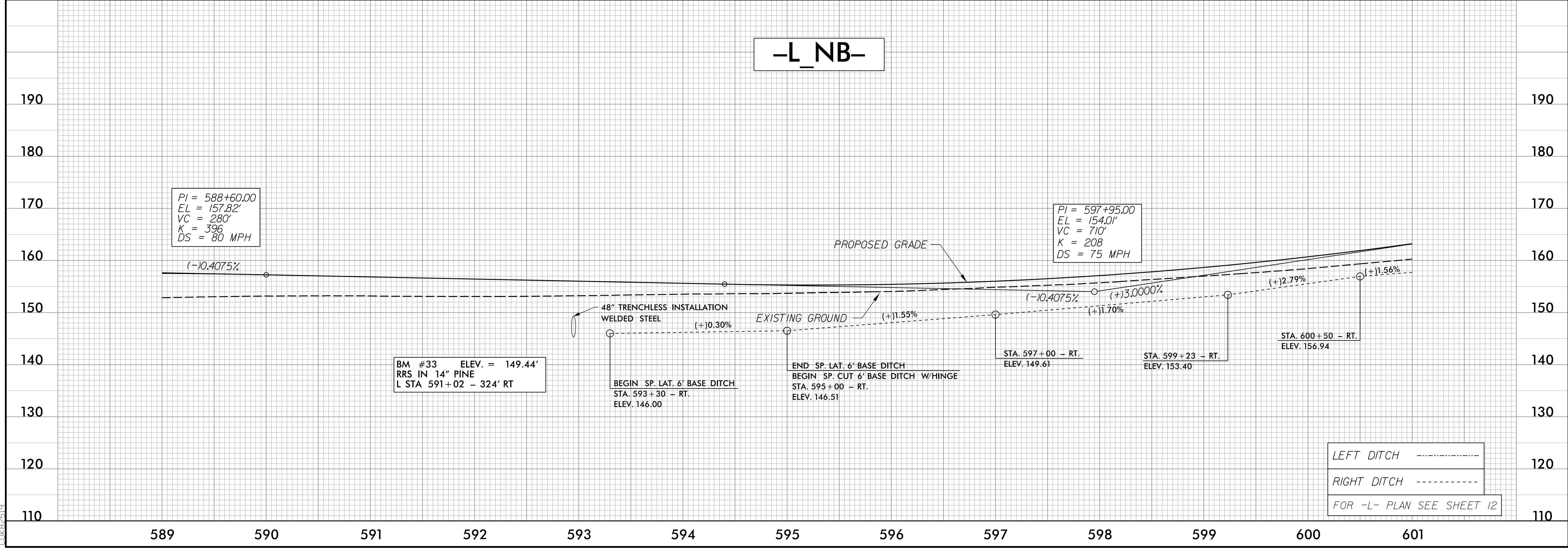


FOR -L- PLAN SEE SHEET 12

-L_NB-

PI = 588+60.00
EL = 157.82'
VC = 280'
K = 396
DS = 80 MPH
(-)0.4075%

PI = 597+95.00
EL = 154.01'
VC = 710'
K = 208
DS = 75 MPH



LEFT DITCH -----
RIGHT DITCH -----
FOR -L- PLAN SEE SHEET 12

4/18/2002
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 5/14/99