

5/28/19

PROJECT REFERENCE NO. <b>R-5021</b>	SHEET NO. <b>47</b>
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 

**PIPE HYDRAULIC DATA**  
-L- Sta. 217+29 (STR #1608)

DRAINAGE AREA	= 43	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 37.5*	CFS
DESIGN HW ELEVATION	= 42.3	FT
100 YEAR DISCHARGE	= 42.5*	CFS
100 YEAR HW ELEVATION	= 42.5	FT
OVERTOPPING FREQUENCY	= 200	YRS
OVERTOPPING DISCHARGE	= 55*	CFS
OVERTOPPING ELEVATION	= 43.08	FT

\* ABOVE NOTED FLOWS ARE 50% OF THE TOTAL FLOW FROM THE DRAINAGE AREA

**DITCH LEGEND**

LEFT DITCH -----

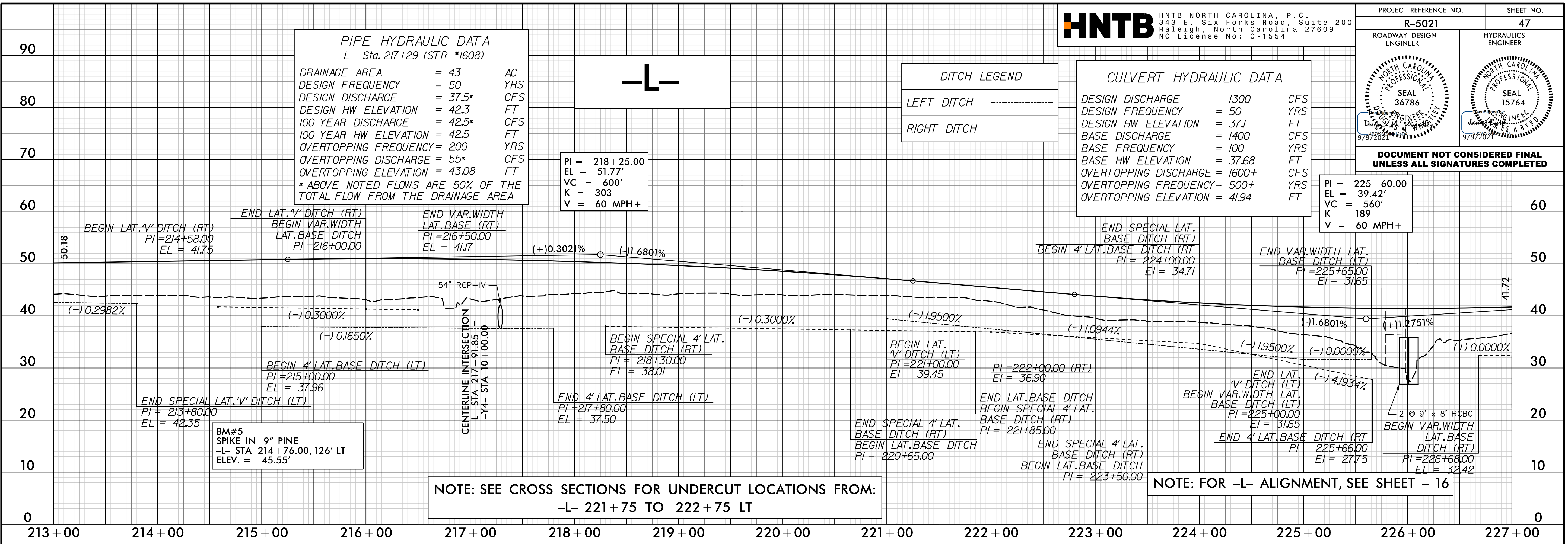
RIGHT DITCH -----

**CULVERT HYDRAULIC DATA**

DESIGN DISCHARGE	= 1300	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 37.1	FT
BASE DISCHARGE	= 1400	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 37.68	FT
OVERTOPPING DISCHARGE	= 1600+	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 41.94	FT

PI = 225+60.00  
EL = 39.42'  
VC = 560'  
K = 189  
V = 60 MPH+

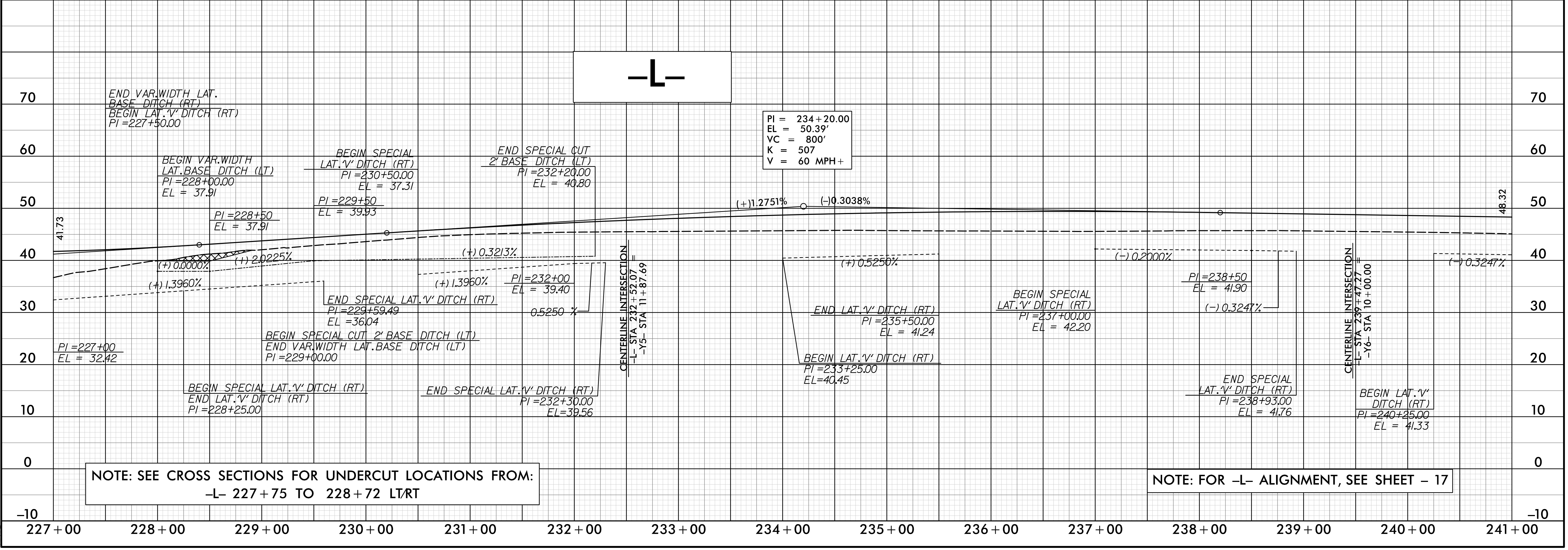
PI = 218+25.00  
EL = 51.77'  
VC = 600'  
K = 303  
V = 60 MPH+



NOTE: SEE CROSS SECTIONS FOR UNDERCUT LOCATIONS FROM:  
-L- 221+75 TO 222+75 LT

NOTE: FOR -L- ALIGNMENT, SEE SHEET - 16

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NOTE: SEE CROSS SECTIONS FOR UNDERCUT LOCATIONS FROM:  
-L- 227+75 TO 228+72 L/RT

NOTE: FOR -L- ALIGNMENT, SEE SHEET - 17