

DITCH LEGEND LEFT DITCH - - - - - RIGHT DITCH - - - - -	PROJECT REFERENCE NO. B-3649	SHEET NO. 5
	ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 2982 J.W. MUMFORD 5/10/04	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 16600 RANDALL C. HEYER 5-10-04

**-L-**

**STRUCTURE HYDRAULIC DATA**

DESIGN DISCHARGE = 2950 CFS  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN HW ELEVATION = 609J FT  
 BASE DISCHARGE = 3900 CFS  
 BASE FREQUENCY = 100 YRS  
 BASE HW ELEVATION = 610.2 FT  
 OVERTOPPING DISCHARGE = 27500 CFS  
 OVERTOPPING FREQUENCY = 500+ YRS  
 OVERTOPPING ELEVATION = 621.8 FT

**BM# 1 -L- STA. 10+00.00 TO RAILROAD SPIKE SET IN 17" GUM TREE IS S 12° 23' 35.76" E DISTANCE 116.31' ELEV.=631.93' N 833512 E 1803235**

**BM# 2 RAILROAD SPIKE SET IN 13" POPLAR TREE 123.37' LT. OF -L- STA. 15+74.45 ELEV. 612.40' N 834176 E 1802949**

**54" PRESTRESSED GIRDER BRIDGE**  
 SPANS = 1@45', 1@70', 1@45'  
 SKEW = 55° 00' 00"  
 C -L- STA. 17+39.20

**END GRADE -L- STA. 22+00.00**  
 EL = 623.63'

**BEGIN GRADE -L- STA. 10+00.00**  
 EL = 634.54'

PI = 11+20.00  
 EL = 635.90'  
 VC = 150'  
 K = 67

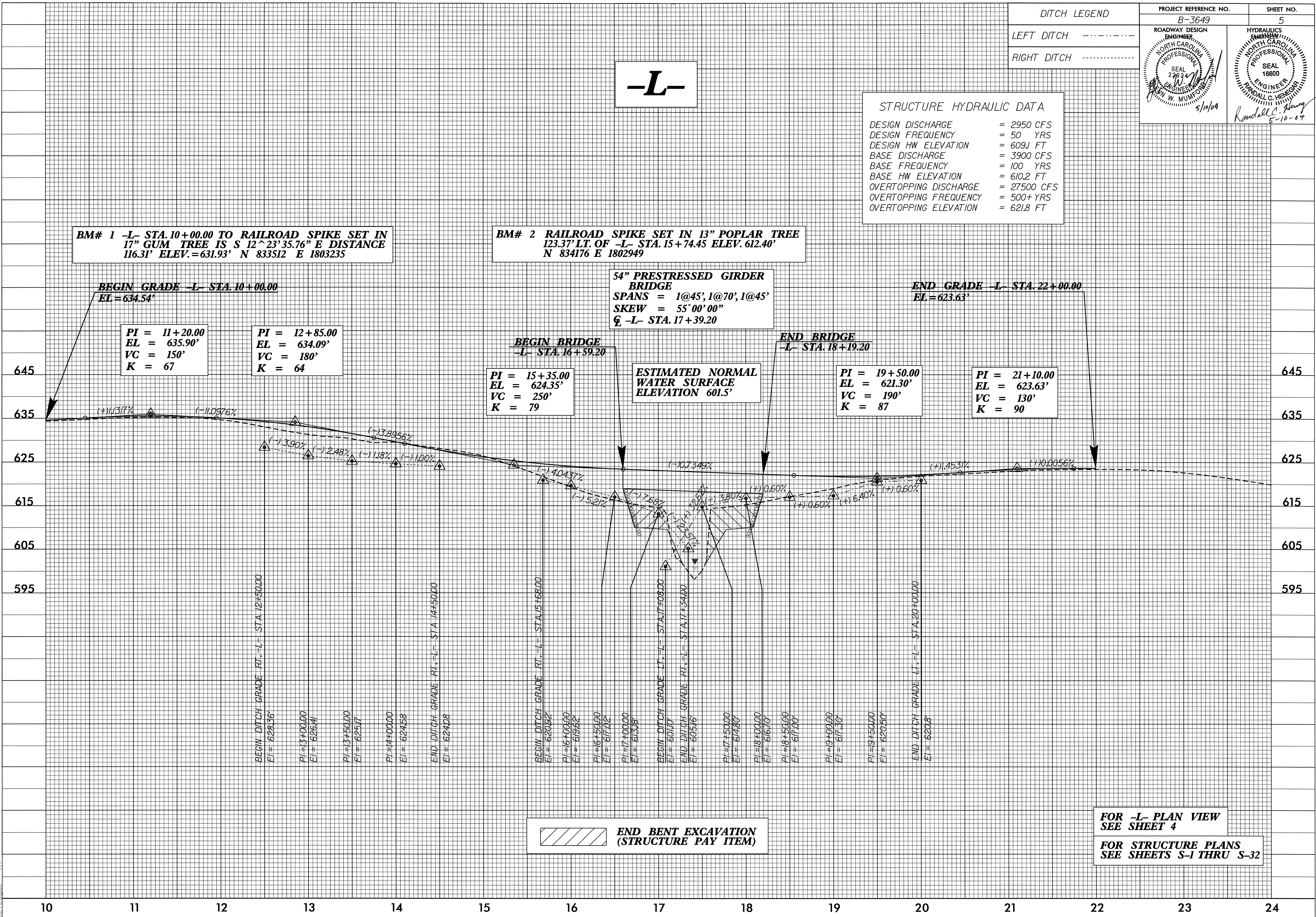
PI = 12+85.00  
 EL = 634.09'  
 VC = 180'  
 K = 64

**BEGIN BRIDGE -L- STA. 16+59.20**  
 PI = 15+35.00  
 EL = 624.35'  
 VC = 250'  
 K = 79

**END BRIDGE -L- STA. 18+19.20**  
 PI = 19+50.00  
 EL = 621.30'  
 VC = 190'  
 K = 87

PI = 21+10.00  
 EL = 623.63'  
 VC = 130'  
 K = 90

**ESTIMATED NORMAL WATER SURFACE ELEVATION 601.5'**



**END BENT EXCAVATION (STRUCTURE PAY ITEM)**

**FOR -L- PLAN VIEW SEE SHEET 4**

**FOR STRUCTURE PLANS SEE SHEETS S-1 THRU S-32**