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PROJECT REFERENCE NO.	SHEET NO.
852114	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
11/30/2021	11/30/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
201 W. MARION ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

NOTE: USE CLASS I RIP RAP AS DIRECTED BY THE ENGINEER FOR BANK/DITCH STABILIZATION AROUND PIPE ARCH EST. 20 TONS

NAD 83/2011

-L- CURVE DATA
PI Sta 12+65.85
Δ = 3° 28' 39.1" (RT)
D = 2° 17' 30.6"
L = 151.74'
T = 75.89'
R = 2,500.00'
SE = EXIST.

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 890	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 970.6	FT
BASE DISCHARGE	= 1040	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 971.5	FT
OVERTOPPING DISCHARGE	= 1760	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 976.8	FT
DATE OF SURVEY	=	
W.S. ELEVATION AT DATE OF SURVEY	=	FT

REVISIONS

8/17/99

11/29/2021
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