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8/17/99

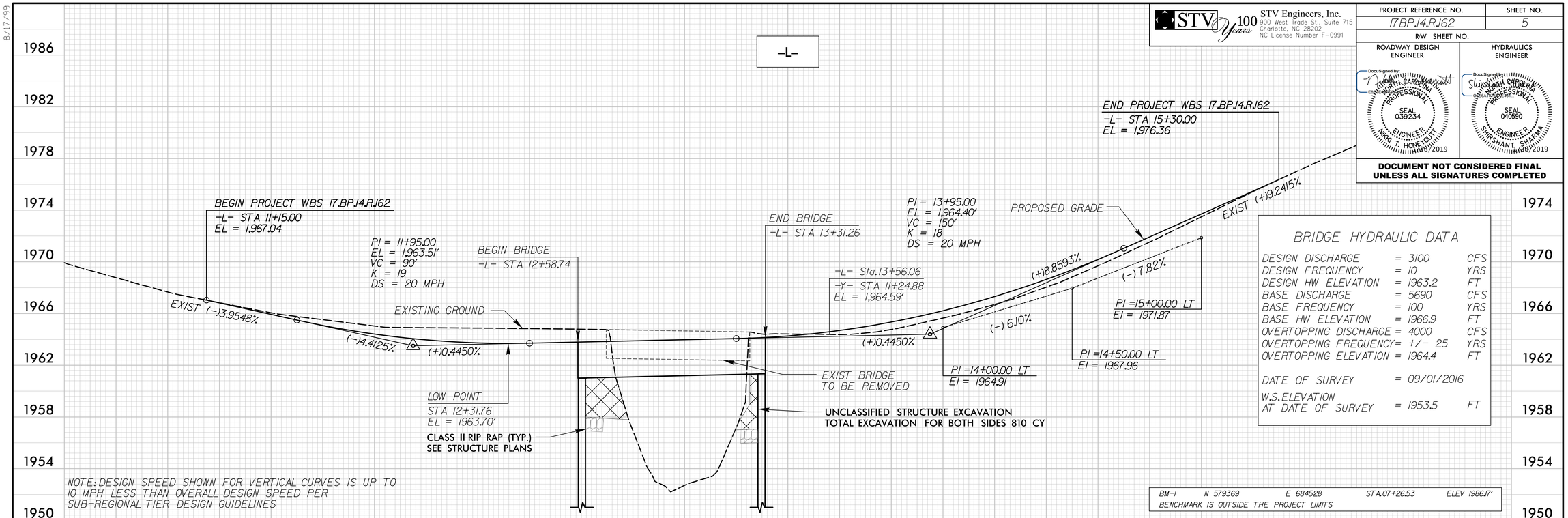
STV 100 Years
STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
17BP.14.R.162	5
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER
DocuSigned by:
NORTH CAROLINA PROFESSIONAL SEAL 039234 ENGINEER NIKI T. HONEYCUTT
1/28/2019

HYDRAULICS ENGINEER
DocuSigned by:
NORTH CAROLINA PROFESSIONAL SEAL 040590 ENGINEER CHINSHANT SHARMA
1/28/2019

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

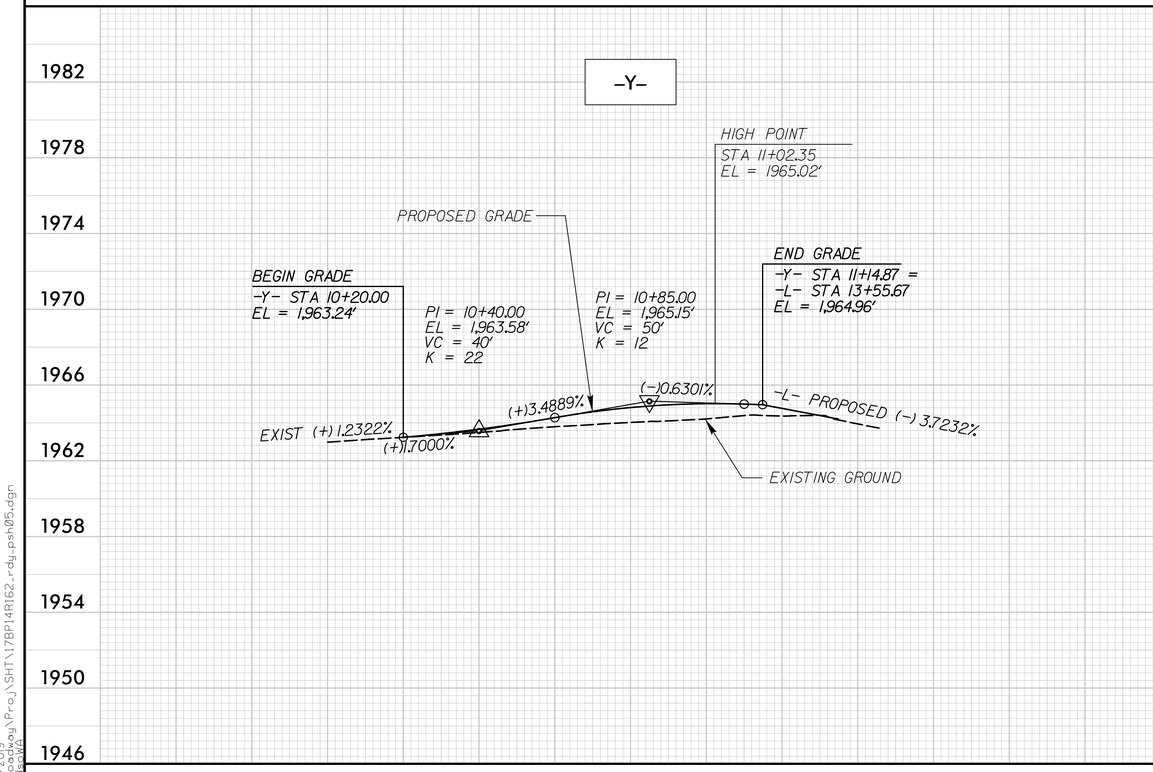


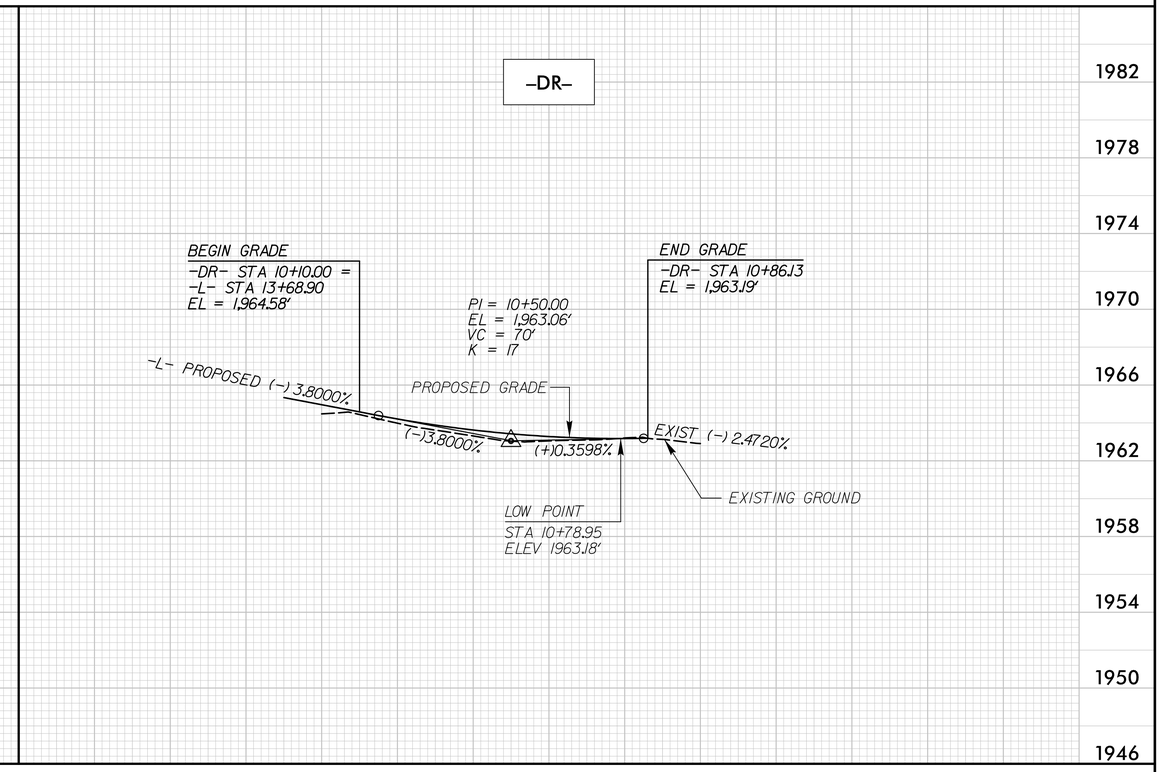
NOTE: DESIGN SPEED SHOWN FOR VERTICAL CURVES IS UP TO 10 MPH LESS THAN OVERALL DESIGN SPEED PER SUB-REGIONAL TIER DESIGN GUIDELINES

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 3100	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 1963.2	FT
BASE DISCHARGE	= 5690	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 1966.9	FT
OVERTOPPING DISCHARGE	= 4000	CFS
OVERTOPPING FREQUENCY	= +/- 25	YRS
OVERTOPPING ELEVATION	= 1964.4	FT
DATE OF SURVEY	= 09/01/2016	
W.S. ELEVATION AT DATE OF SURVEY	= 1953.5	FT

BM-1 N 579369 E 684528 STA.07+26.53 ELEV 1986.17'
BENCHMARK IS OUTSIDE THE PROJECT LIMITS





1/25/2019
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