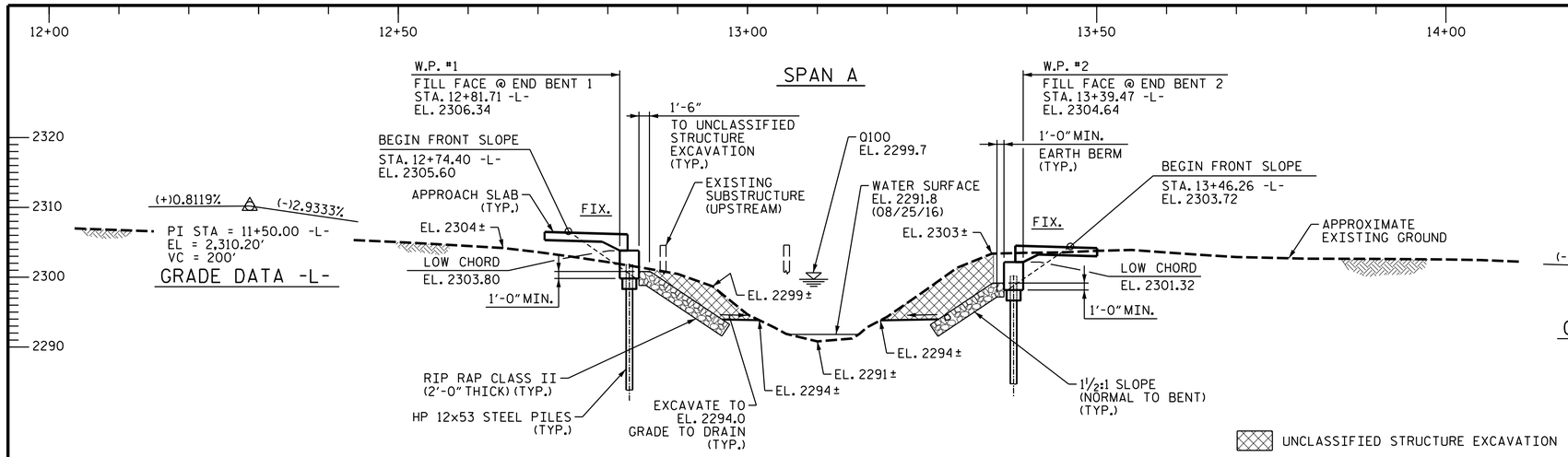
DocuSign Envelope ID: B2A251F8-EAFD-49C2-8AFC-C7F4D06B7B14



SECTION ALONG -L-

(SECTION TAKEN AT RIGHT ANGLES TO END BENTS)

HYDRAULIC DATA

DESIGN DISCHARGE	= 600 CFS
FREQUENCY OF DESIGN FLOOD	= 25 YEARS
DESIGN HIGH WATER ELEVATION	= 2298.9
DRAINAGE AREA	= 1.65 SQ.MI.
BASE DISCHARGE (Q100)	= 800 CFS
BASE HIGH WATER ELEVATION	= 2299.7

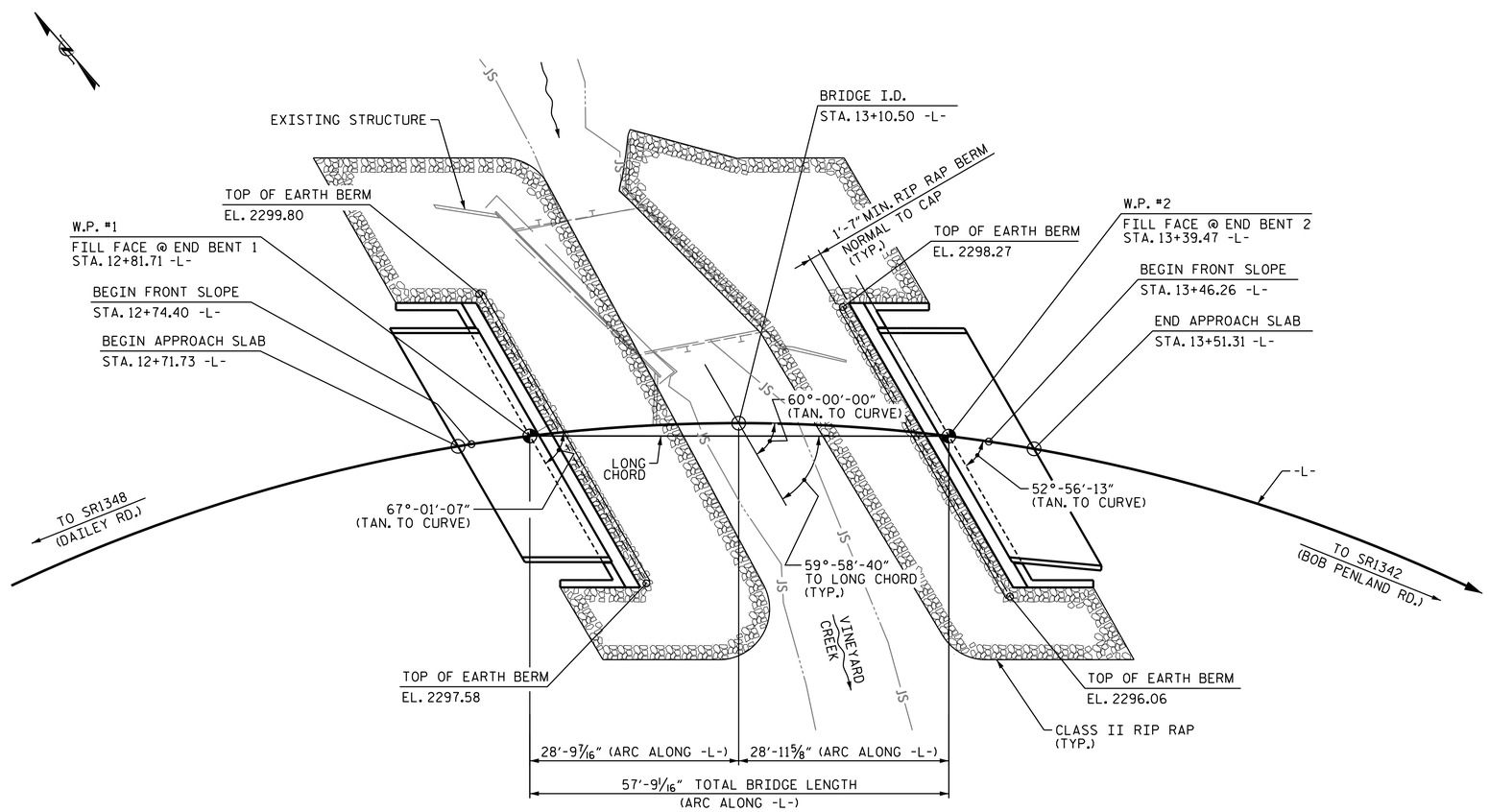
OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 2150 CFS
FREQUENCY OF OVERTOPPING FLOOD	= >500 YEARS
OVERTOPPING FLOOD ELEVATION	= 2303.9

✱ OVERTOPPING WOULD OCCUR @ STA. 14+05 -L-

HORIZONTAL CURVE DATA

PI STA. 13+65.23 -L-
Δ = 106°-09'-03.2" (RT)
D = 24°-22'-52.3"
L = 435.38'
T = 312.71'
R = 235.00'



PLAN

PILES NOT SHOWN FOR CLARITY
END BENTS ARE PARALLEL

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

PROJECT NO. 17BP.14.R.169
CLAY COUNTY
STATION: 13+10.50 -L-

SHEET 1 OF 4 REPLACES BRIDGE NO. 99

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE ON SR 1168 OVER VINEYARD CREEK BETWEEN SR 1348 AND SR 1342

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NORTH CAROLINA PROFESSIONAL SEAL 19299 ENGINEER THOMAS M. HARRIS

DocuSigned by: Thomas Harris 11/23/2021
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WSP USA Inc.
434 FAYETTEVILLE STREET
SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
LICENSE NO. F-0165

REVISIONS							SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:		S-1
1			3				TOTAL SHEETS
2			4				17

DESIGNED BY:	J. WHEATLEY	DATE :	10/2021
DRAWN BY:	M. HOBBS	DATE :	10/2021
CHECKED BY:	T. HARRIS	DATE :	10/2021
DESIGN ENGINEER OF RECORD:	T. HARRIS	DATE :	10/2021

9/28/2021
JX188360C - 2015 W Divisions Planning & Design On-Call\I188360C Group 3 Bridges\17BP.R169.210099\Structures\Drafting\DGNs\401_001_17BP.14.R.169_G001.dgn