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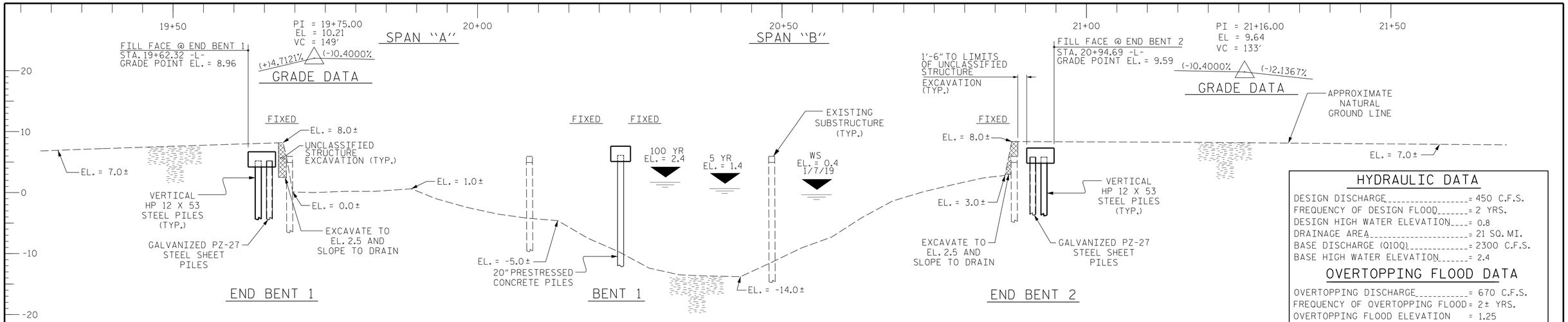


SECTION ALONG -L-

HYDRAULIC DATA

DESIGN DISCHARGE = 450 C.F.S.
FREQUENCY OF DESIGN FLOOD = 2 YRS.
DESIGN HIGH WATER ELEVATION = 0.8
DRAINAGE AREA = 21 SQ. MI.
BASE DISCHARGE (Q10Q) = 2300 C.F.S.
BASE HIGH WATER ELEVATION = 2.4

OVERTOPPING FLOOD DATA

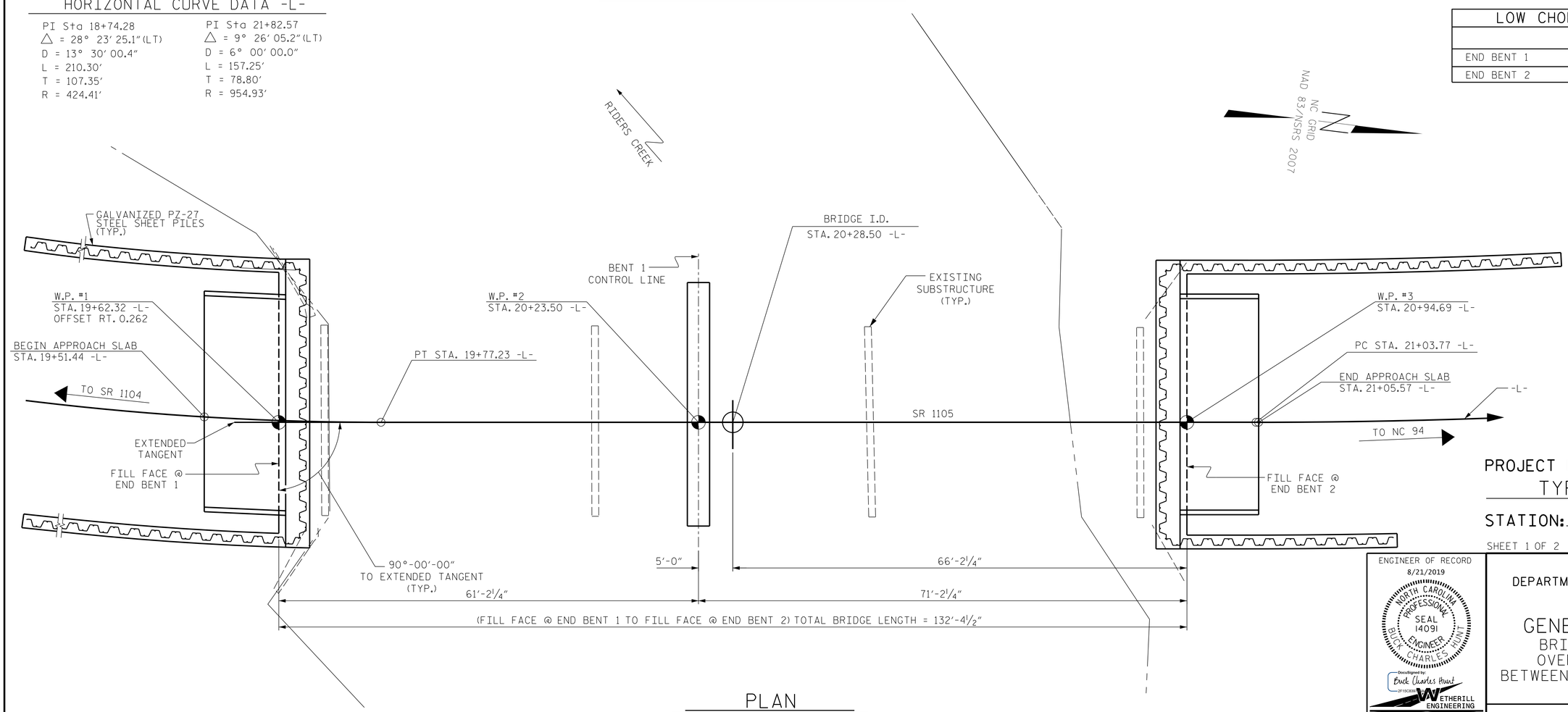
OVERTOPPING DISCHARGE = 670 C.F.S.
FREQUENCY OF OVERTOPPING FLOOD = 2± YRS.
OVERTOPPING FLOOD ELEVATION = 1.25

HORIZONTAL CURVE DATA -L-

PI Sta 18+74.28	PI Sta 21+82.57
△ = 28° 23' 25.1" (LT)	△ = 9° 26' 05.2" (LT)
D = 13° 30' 00.4"	D = 6° 00' 00.0"
L = 210.30'	L = 157.25'
T = 107.35'	T = 78.80'
R = 424.41'	R = 954.93'

LOW CHORD ELEVATIONS

	ELEVATION @ ℄ BRG. @ LEFT END
END BENT 1	6.01
END BENT 2	6.62



PLAN
(PILES NOT SHOWN IN PLAN VIEW)

PROJECT NO. 17BP.1.R.87
TYRRELL COUNTY
STATION: 20+28.50 -L-

SHEET 1 OF 2 REPLACES BRIDGE 17

ENGINEER OF RECORD
8/21/2019
NORTH CAROLINA PROFESSIONAL SEAL 14091 ENGINEER BUCK CHARLES HUNT
DocuSigned by: Buck Charles Hunt
WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
LICENSE NO. F-0377

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
BRIDGE ON SR 1105
OVER RIDERS CREEK
BETWEEN SR 1104 AND NC 94

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-1
1			3					TOTAL SHEETS
2			4					22

DRAWN BY : J. PEMDERGRAFT DATE : 2-19
CHECKED BY : J. DILWORTH DATE : 4-19

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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