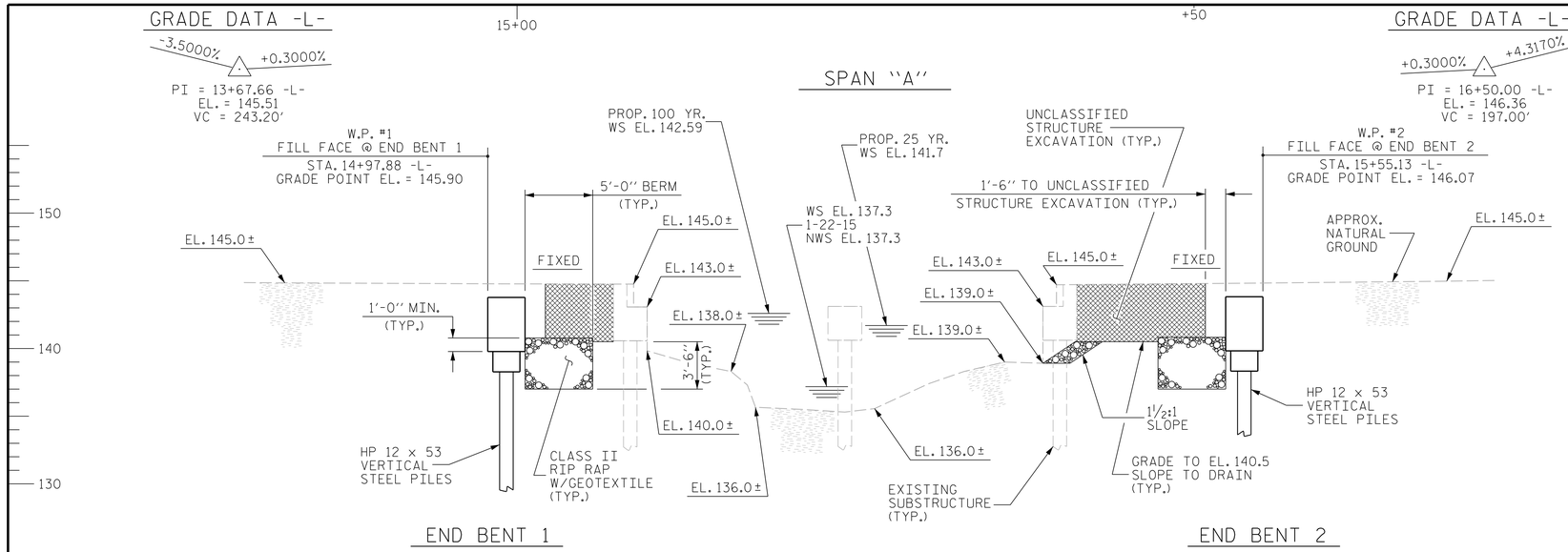
DocuSign Envelope ID: 6ECAA814-7050-4535-9535-74BDC5F41DA1



SECTION ALONG -L-

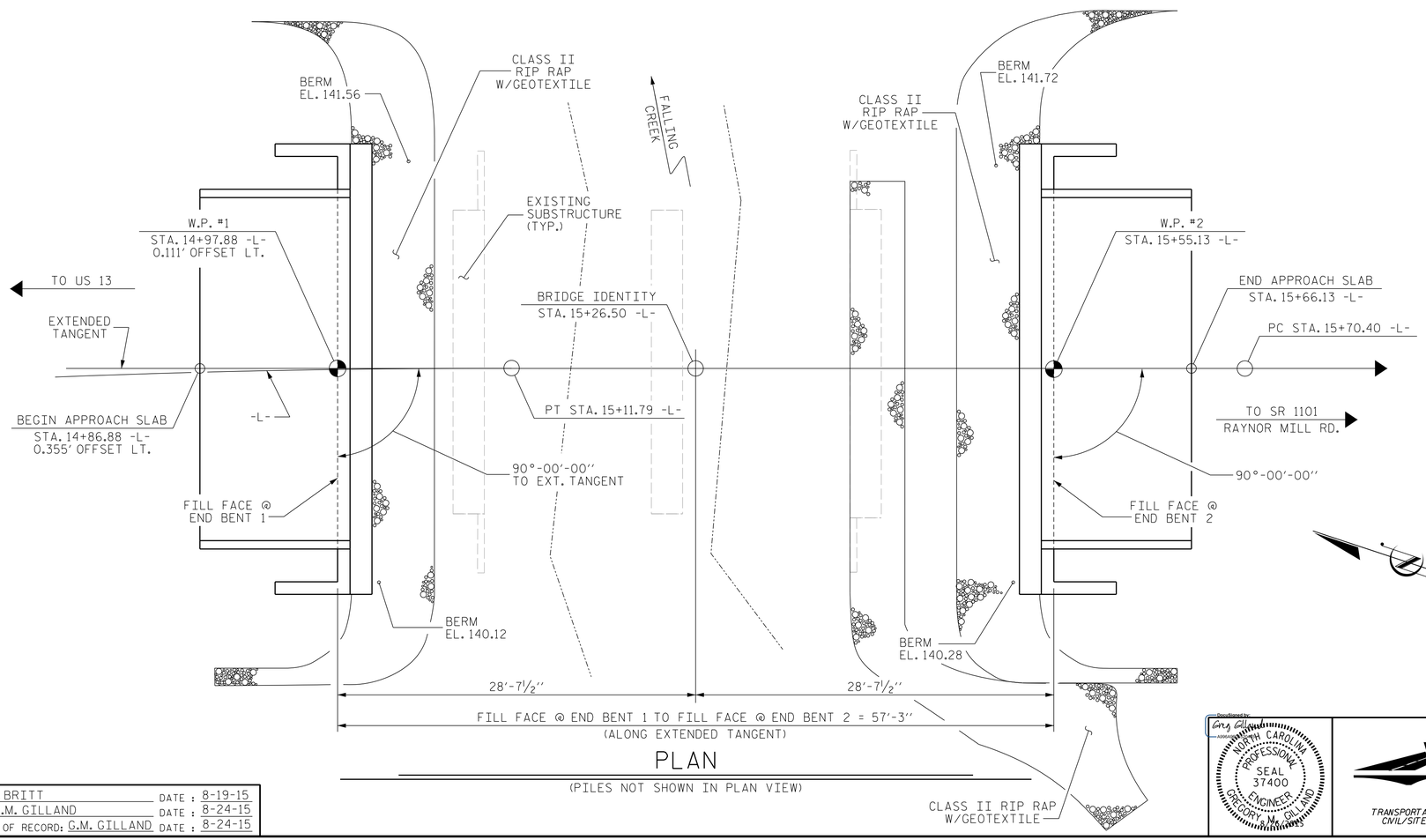
LOW CHORD ELEVATIONS	
	ELEVATION @ ℄ BRG.
END BENT 1	143.32 @ RT. END
END BENT 2	143.49 @ RT. END

HORIZONTAL CURVE DATA -L- (CURVE 1)

PI Sta 13+76.10 -L-
Δ = 17°-55'-01.6"(RT)
D = 6°-32'-53.1"
L = 273.62'
T = 137.94'
R = 875.00'

HORIZONTAL CURVE DATA -L- (CURVE 2)

PI Sta 16+83.67 -L-
Δ = 9°-55'-15.3"(RT)
D = 4°-23'-25.7"
L = 225.96'
T = 113.27'
R = 1,305.00'



PLAN

(PILES NOT SHOWN IN PLAN VIEW)

HYDRAULIC DATA

DESIGN DISCHARGE---------- 540 CFS
FREQUENCY OF DESIGN FLOOD------ 25 YR.
DESIGN HIGH WATER ELEVATION---- 141.7
DRAINAGE AREA---------- 3.7 SQ.MI.
BASE DISCHARGE (Q100)---------- 830 CFS
BASE HIGH WATER ELEVATION------ 142.59

OVERTOPPING FLOOD DATA
OVERTOPPING DISCHARGE---------- 1200+ CFS
FREQUENCY OF OVERTOPPING FLOOD- 500+ YRS
OVERTOPPING FLOOD ELEVATION---- 145.9 ✱

✱ OVERTOPPING OCCURS HIGH SIDE OF SUPER @ STA. 14+70.6± EL. = 145.85

PROJECT NO. 17BP.4.R.62
WAYNE COUNTY
STATION: 15+26.50 -L-

SHEET 1 OF 2 REPLACES BRIDGE No. 92

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE ON
SR 1102 (EDWARDS STORE RD.)
OVER FALLING CREEK
BETWEEN
US 13 & SR 1101

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-1
1			3					TOTAL SHEETS
2			4					13

DocuSigned by: Greg Gilland A3B0C3A... NORTH CAROLINA PROFESSIONAL SEAL 37400 ENGINEER GREGORY M. GILLAND

WETHERILL ENGINEERING
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Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
License: F-0377

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

DRAWN BY : J.M. BRITT DATE : 8-19-15
CHECKED BY: G.M. GILLAND DATE : 8-24-15
DESIGN ENGINEER OF RECORD: G.M. GILLAND DATE : 8-24-15

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