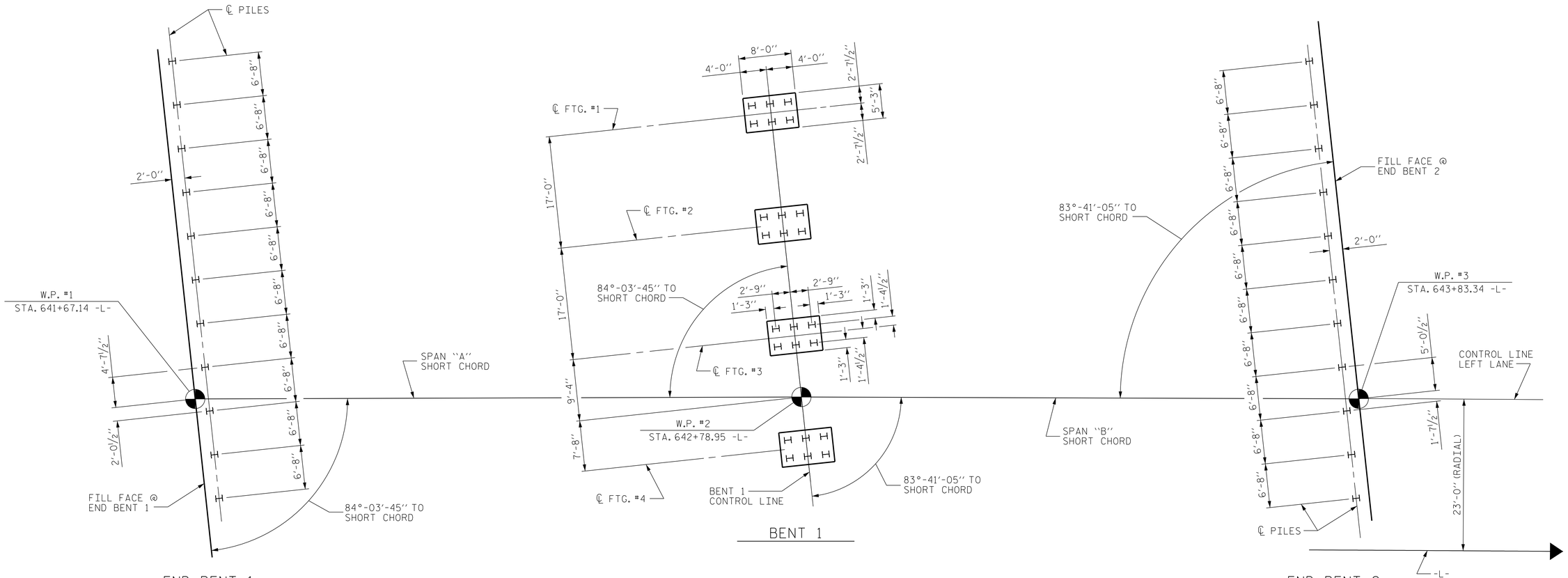
DocuSign Envelope ID: DA0292F4-91E7-4ED7-B36C-F5050A8A9399



FOUNDATION LAYOUT

ALL PILES ARE HP 12 x 53 STEEL PILES.
DIMENSIONS LOCATING PILES ARE SHOWN TO THE PILE CENTERLINE.
FOOTINGS @ BENT 1 ARE TYPICAL.

FOUNDATION NOTES :

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

OBSERVE A 3 MONTH WAITING PERIOD AFTER CONSTRUCTING THE EMBANKMENT TO WITHIN 2 FEET OF FINISHED GRADE BEFORE BEGINNING END BENT CONSTRUCTION AT END BENT No.1.

PILES AT END BENT No.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 115 TONS PER PILE.

DRIVE PILES AT END BENT No.1 TO A REQUIRED DRIVING RESISTANCE OF 192 TONS PER PILE.

IF NECESSARY, PREDRILL PILE LOCATIONS AT BENT No.1 TO ELEVATION 882.0 WITH EQUIPMENT THAT WILL RESULT IN A MAXIMUM PREDRILLING DIAMETER OF 12". FOR PREDRILLING FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT BENT No.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 120 TONS PER PILE.

DRIVE PILES AT BENT No.1 TO A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

OBSERVE A 3 MONTH WAITING PERIOD AFTER CONSTRUCTING THE EMBANKMENT TO WITHIN 2 FEET OF FINISHED GRADE BEFORE BEGINNING END BENT CONSTRUCTION AT END BENT No.2.

PILES AT END BENT No.2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 115 TONS PER PILE.

DRIVE PILES AT END BENT No.2 TO A REQUIRED DRIVING RESISTANCE OF 192 TONS PER PILE.

PROJECT NO. U-2579B
FORSYTH COUNTY
STATION: 642+81.42 -L-

SHEET 2 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR
LEFT LANE BRIDGE ON -L-
OVER I-40 BUS/US 421
BETWEEN SR 4309 AND SR 4315

NORTH CAROLINA PROFESSIONAL S.E. 023891 ENGINEER JOHN T. DIFFEE
DocuSigned by: John T. Diffee 4/29/2014

WETHERILL ENGINEERING
559 Jones Franklin Rd. Suite 164
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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-471
1			3			TOTAL SHEETS
2			4			707

DRAWN BY : J.M. BRITT DATE : 4-9-13
CHECKED BY : B.C. HUNT DATE : 4-15-14
DESIGN ENGINEER OF RECORD : I. DIFFEE DATE : 4-29-14

P:\2013\13109.22 U-2579B\Structures\DGN\Str 13 (L-LtLane)U2579B_SD_STR13_GD2_WE1.dgn
6/9/2014 9:48:38 AM