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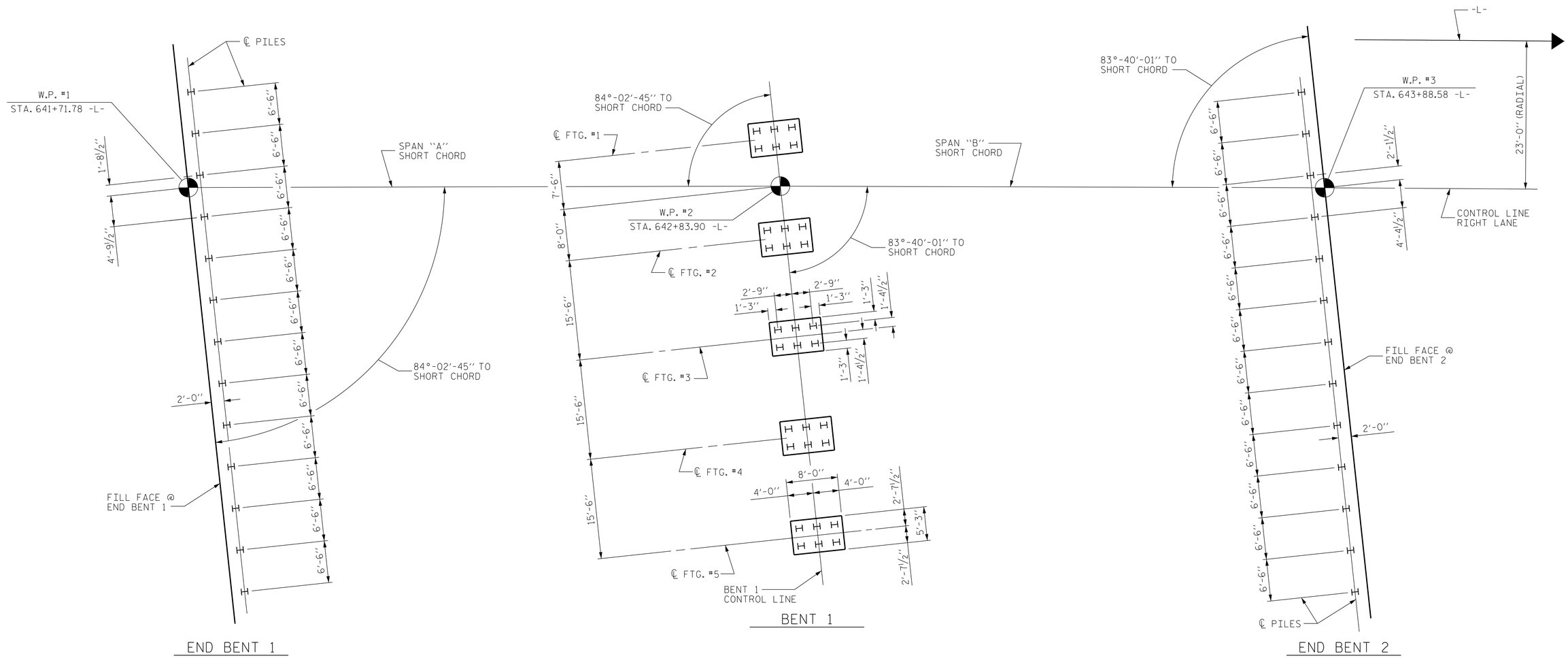

FOUNDATION LAYOUT

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.

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

STEEL H-PILE POINTS ARE REQUIRED FOR STEEL H-PILES AT THE LEFT TWO COLUMNS (FOOTINGS #1 & #2) AT BENT No.1. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

INSTALL PILES AT LEFT TWO COLUMNS (FOOTINGS #1 & #2) AT BENT No.1 TO A TIP ELEVATION NO HIGHER THAN ELEVATIONS 871.0 & 876.0, RESPECTIVELY, AND TO A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

TESTING THE FIRST PRODUCTION PILE WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED FOR THE LEFT TWO COLUMNS AT BENT No.1. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILE EXCAVATION IS REQUIRED TO INSTALL PILES FOR THE RIGHT THREE COLUMNS (FOOTINGS #3, #4, & #5) AT BENT No.1. EXCAVATE HOLES AT PILE LOCATIONS TO ELEVATION 880.0 FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATION.

CONCRETE IS REQUIRED TO FILL HOLES FOR PILE EXCAVATION AT BENT No.1.

OBSERVE A 2 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.

TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED AT END BENT No.2. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILE EXCAVATION MAY ALSO BE REQUIRED FOR THE LEFT TWO COLUMNS (FOOTINGS #1 & #2) AT BENT No.1, TO MEET THE REQUIRED TIP ELEVATIONS AND DRIVING RESISTANCE. THE ENGINEER WILL DETERMINE THE NEED AND EXTENT FOR PILE EXCAVATION, IF REQUIRED.

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
RIGHT LANE BRIDGE ON -L-
OVER I-40 BUS/US 421
BETWEEN SR 4309 AND SR 4315

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-508
1			3			TOTAL SHEETS
2			4			707

NORTH CAROLINA PROFESSIONAL SEAL 026891 ENGINEER JOHN T. DIFFEE III

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

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

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