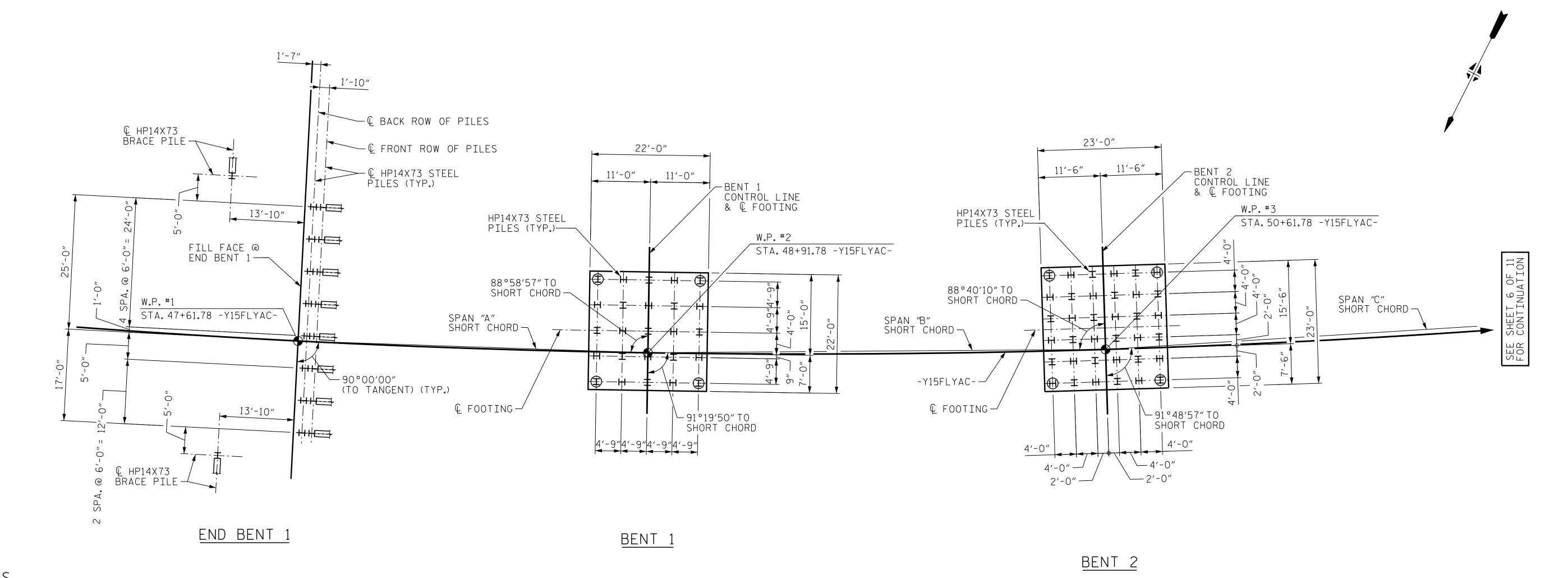
TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED AT BENT NOS. 1-9. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS AND FOR PILE DRIVING CRITERIA, SEE PILE DRIVING CRITERIA PROVISION. IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 45,000 TO 72,600 FT-LBS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENT NOS. 1-9. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS. DES BY: J. CABABE DWG BY: D. CARTER DATE : 10/19 DES CHK: S. CHAUDHARI _ DATE : 10/19 CHK BY: M. WERNER



NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT NOS. 1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 75 TONS PER PILE. DRIVE PILES AT END BENT NOS. 1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 125 TONS PER PILE. PILES AT BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 150 TONS PER PILE. DRIVE PILES AT BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 250 TONS PER PILE. PILES AT BENT NOS. 2, 4 AND 5 ARE DESIGNED FOR A FACTORED RESISTANCE OF 135 TONS PER PILE. DRIVE PILES AT BENT NOS. 2, 4 AND 5 TO A REQUIRED DRIVING RESISTANCE OF 225 TONS PER PILE. PILES AT BENT NOS. 3 AND 6 ARE DESIGNED FOR A FACTORED RESISTANCE OF 143 TONS PER PILE. DRIVE PILES AT BENT NOS. 3 AND 6 TO A REQUIRED DRIVING RESISTANCE OF 238 TONS PER PILE. PILES AT BENT NO.7 ARE DESIGNED FOR A FACTORED RESISTANCE OF 158 TONS PER PILE. DRIVE PILES AT BENT NO. 7 TO A REQUIRED DRIVING RESISTANCE OF 263 TONS PER PILE. PILES AT BENT NO.8 ARE DESIGNED FOR A FACTORED RESISTANCE OF 180 TONS PER PILE. DRIVE PILES AT BENT NO.8 TO A REQUIRED DRIVING RESISTANCE OF 300 TONS PER PILE.

PILES AT BENT NO.9 ARE DESIGNED FOR A FACTORED RESISTANCE OF 175 TONS PER PILE.

DRIVE PILES AT BENT NO.9 TO A REQUIRED DRIVING RESISTANCE OF 292 TONS PER PILE.

DATE : 11/19

_ DATE : 12/19

FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES ARE SHOWN TO PILE CENTERLINE AT BOTTOM OF THE CAP OR FOOTING, MEASURED FROM THE TANGENT TO -Y15FLYAC- AT EACH WORK POINT.

WITH THE BENT CONTROL LINE, AND RADIAL TO -Y15FLYAC-, AT

OBSERVE PILE ORIENTATION AND LOCATION OF OMITTED PILES IN EACH FOOTING.

LEGEND

HP14X73 BRACE PILE (BATTER 3H:12V)

HP14X73 VERTICAL PILE

HP14X73 TENSION PILE

SEAL 29589

GENERAL DRAWING

STATION: 60+66.06 -Y15FLYAC-

793+45.42 -L-

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

PROJECT NO.___

SHEET 5 OF 11

FORSYTH

BRIDGE ON -Y15FLYAC- IN INTERCHANGE CONNECTING WINSTON-SALEM NORTHERN BELTWAY AND I-40 BYPASS BETWEEN SR 4315 AND SR 2679

U-2579AB

COUNTY

BRIDGE NO. 725

SHEET NO. REVISIONS NO. BY: BY: DATE: DATE: S04-005 TOTAL SHEETS

HDR Engineering, Inc. of the Carolinas 555 Fayetteville St., Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116

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