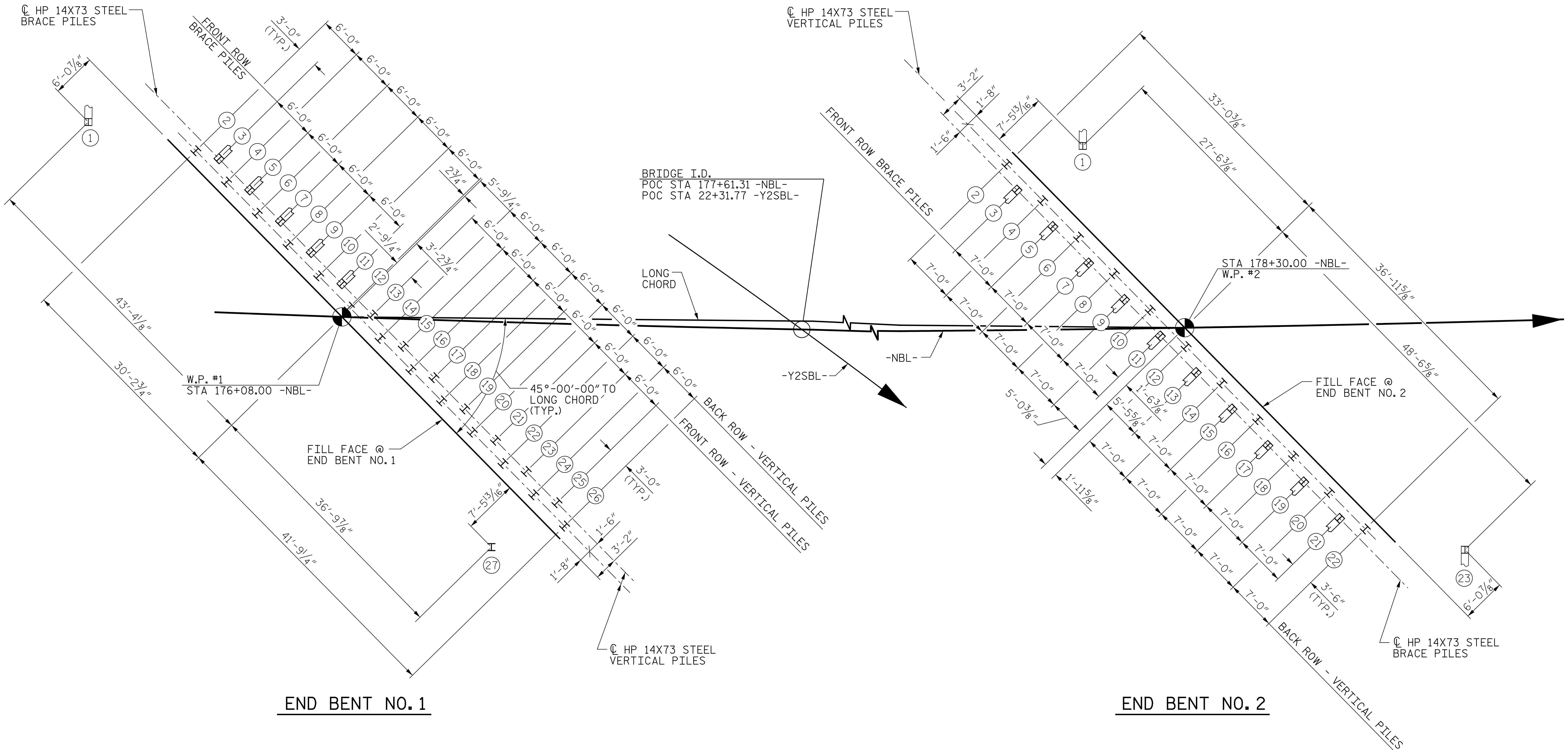

FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES ARE SHOWN TO THE CENTERLINES.

BRACE PILES SHALL BE BATTERED AT 3:12.

FOUNDATION NOTES:

1) FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
2) PILES AT END BENT NO. 1 AND END BENT NO. 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 160 TONS AND 185 TONS PER PILE, RESPECTIVELY.
3) DRIVE PILE NO. 1 THROUGH PILE NO. 11 AT END BENT NO. 1 TO A REQUIRED DRIVING RESISTANCE OF 270 TONS PER PILE.
4) DRIVE PILES AT END BENT NO. 2 TO A REQUIRED DRIVING RESISTANCE OF 310 TONS PER PILE.
5) STEEL PILE POINTS WITH TEETH ARE REQUIRED FOR PILE NO. 1, 3, 5, 7, 9 AND 11 AT END BENT NO. 1. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
6) STEEL PILE POINTS ARE REQUIRED FOR PILE NO. 2, 4, 6, 8 AND 10 AT END BENT NO. 1 AND PILE NO. 11 THROUGH PILE NO. 23 AT END BENT NO. 2. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
7) CONCRETE OR GROUT IS REQUIRED TO FILL HOLES FOR PILE EXCAVATION FOR PILE NO. 12 THROUGH PILE NO. 27 AT END BENT NO. 1.
8) PILE EXCAVATION IS REQUIRED TO INSTALL PILE NO. 12 THROUGH PILE NO. 27 AT END BENT NO. 1. EXCAVATE HOLES AT PILE LOCATIONS TO 10 FT. BELOW THE BOTTOM OF CAP OR WING WALL ELEVATION AT EACH PILE LOCATION. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
9) PILE NO. 12 THROUGH PILE NO. 27 AT END BENT NO. 1 DO NOT NEED TO BE DRIVEN, IF HARD ROCK IS VERIFIED.
10) CONTRACTORS ARE ADVISED BOULDERS MAY BE PRESENT AT END BENT NO. 2, WHICH MAY INTERFERE WITH PILE DRIVING. ANY COST ASSOCIATED WITH REMOVAL OF BOULDERS, IF NECESSARY, WILL BE INCIDENTAL.

PROJECT NO. I-0914BA

VANCE COUNTY

STATION: 177+61.31 -NBL-
22+31.77 -Y2SBL-

SHEET 3 OF 4

DocuSigned by: Hardy Willis CC287FCE0223461...

SEAL 20771 NORTH CAROLINA PROFESSIONAL ENGINEER HARDY L. WILLIS

7/14/2014

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

FOUNDATION LAYOUT

FOR BRIDGE OVER US 158 SBL
ON I-85 NBL BETWEEN
NC 39 AND SR 1312

SHEET 3 OF 37

DWN. BY: MAF	DATE: 5/14
CHKD. BY: HLW	DATE: 5/14
DES. EGR. OF RECORD: RTS	DATE: 5/14

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. S-51

TOTAL SHEETS 177