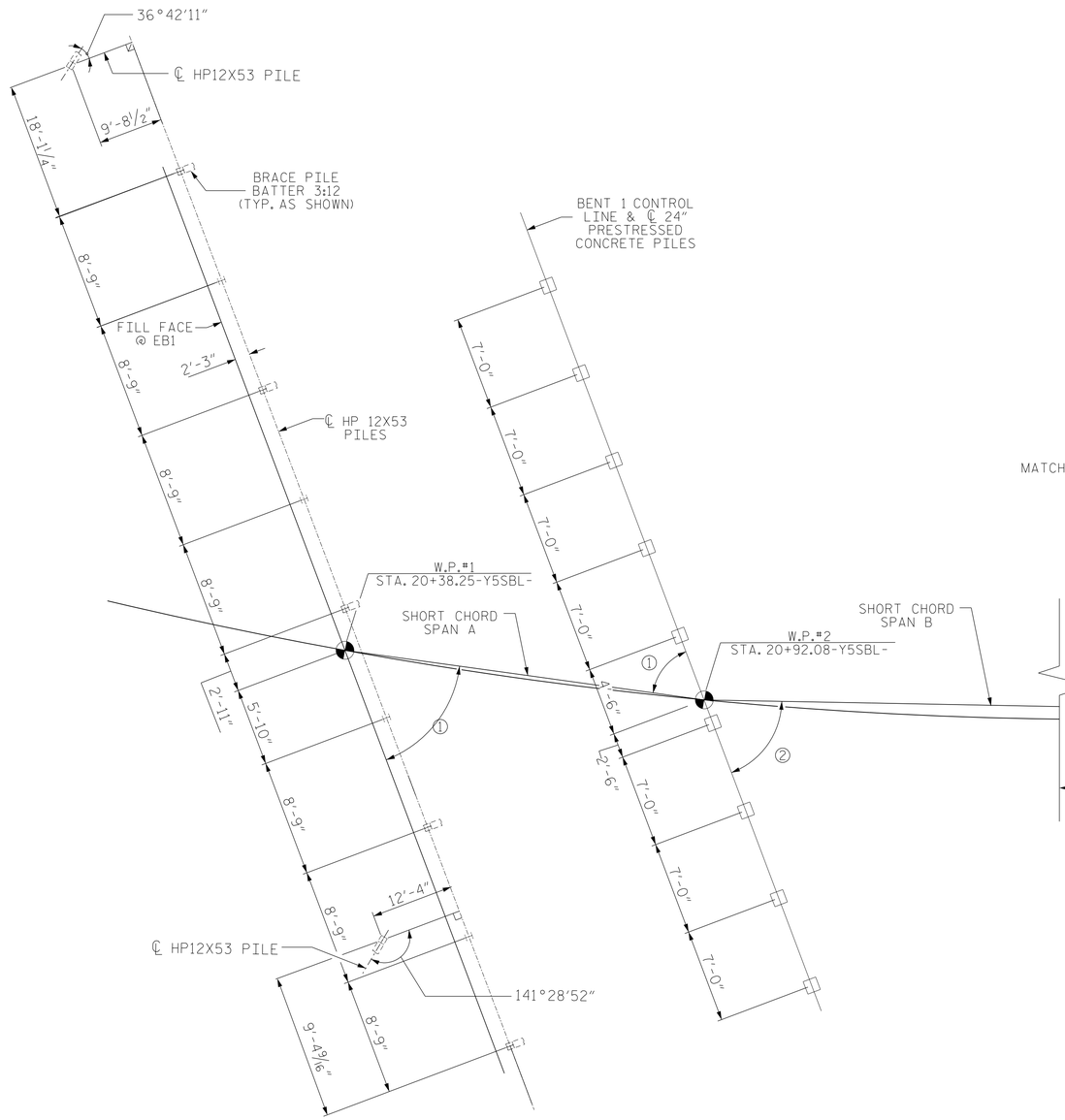

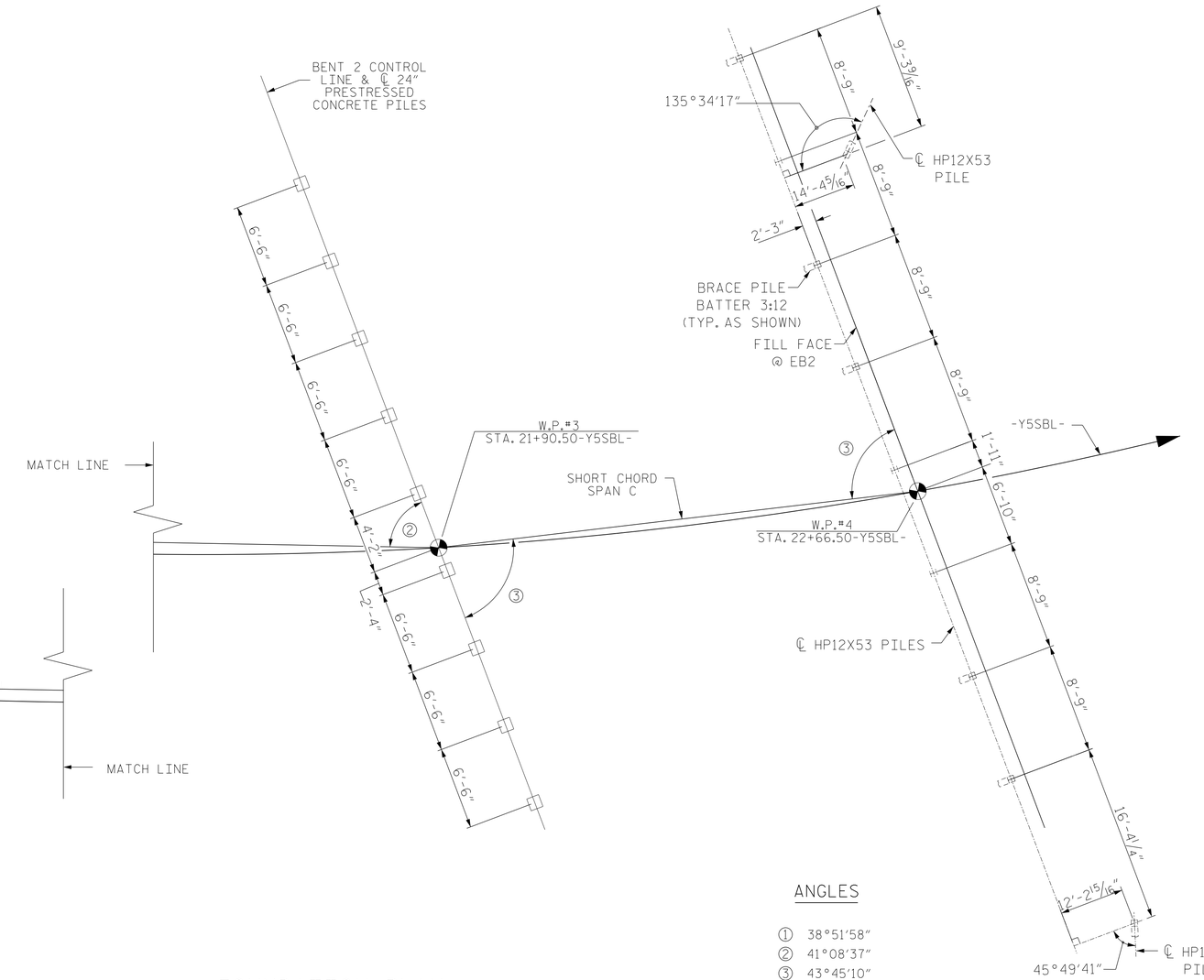

ANGLES

① 38°51'58"
② 41°08'37"
③ 43°45'10"

FOUNDATION PLAN

ALL BENTS ARE PARALLEL
DIMENSIONS LOCATING PILES ARE SHOWN
TO PILE CENTERLINE AT BOTTOM OF CAP

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 80 TONS AND 90 TONS PER PILE, RESPECTIVELY.
3) PILES AT BENT NO. 1 AND BENT NO. 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 150 TONS AND 165 TONS PER PILE, RESPECTIVELY.
4) DRIVE PILES AT END BENT NO. 1 AND END BENT NO. 2 TO A REQUIRED DRIVING RESISTANCE OF 135 TONS AND 150 TONS PER PILE, RESPECTIVELY.
5) DRIVE PILES AT BENT NO. 1 AND BENT NO. 2 TO A REQUIRED DRIVING RESISTANCE OF 250 TONS AND 275 TONS PER PILE, RESPECTIVELY.
6) INSTALL PILES AT BENT NO. 1 TO A TIP ELEVATION NO HIGHER THAN 360 FT (LT) AND 358 FT (CT, RT).
7) INSTALL PILES AT BENT NO. 2 TO A TIP ELEVATION NO HIGHER THAN 362 FT (LT) AND 356 FT (CT, RT).
8) TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
9) IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 70-180 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENT NO. 1 AND BENT NO. 2. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.

PROJECT NO. I-0914BA
VANCE COUNTY
STATION: 21+34.80-Y5SBL-POC

SHEET 2 OF 5

NORTH CAROLINA PROFESSIONAL SEAL 11725 ENGINEER DAVID R. RUGGLES

DocuSigned by: David Ruggles C462768DF412422... 11/14/2014

DWG. 2 OF 40

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE ON SBL US 1
OVER NBL I-85 BETWEEN
MIDDLEBURG AND HENDERSON

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-87
1			3			TOTAL SHEETS
2			4			177

DRAWN BY: P. JACOB	DATE : 07/14	
CHECKED BY: D. RUGGLES	DATE : 08/14	
DESIGN ENGINEER OF RECORD: D. RUGGLES	DATE : 08/14	

11/14/2014 I-914BA SITE 3
...\403_002_I0914BA_SMU_GD02.dgn
USER:jloftus