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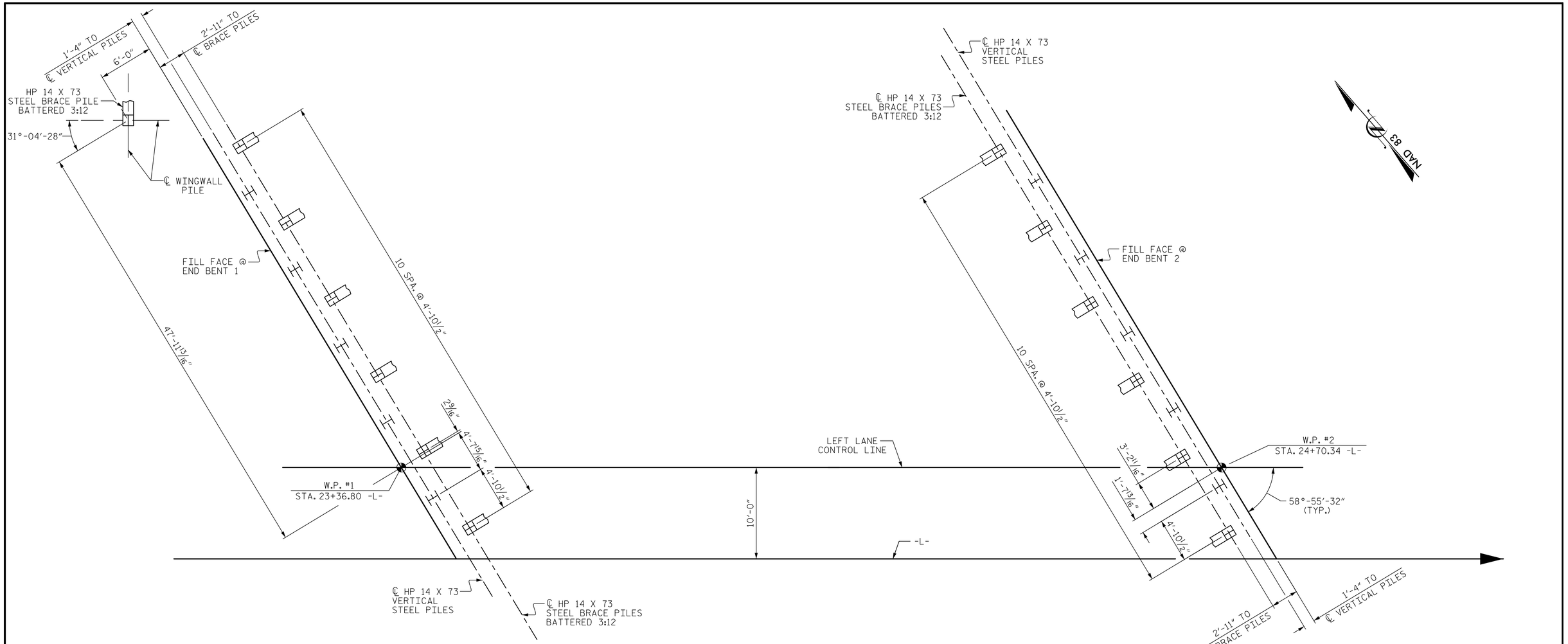

END BENT 1

END BENT 2

FOUNDATION LAYOUT

(DIMENSIONS LOCATING PILES ARE SHOWN TO ℄ PILES AT THE BOTTOM OF CAP)

NOTES:

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENTS 1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 175 TONS PER PILE.

DRIVE PILES AT END BENTS 1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 292 TONS PER PILE.

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 (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 40 TO 45 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT END BENTS 1 AND 2. THIS ESTIMATED ENERGY RANGE DOES NOT REALEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D) OF THE STANDARD SPECIFICATIONS.

PROJECT NO. R-2519B
YANCEY/MITCHELL COUNTY
STATION: 24+11.31 -L-
13+66.91 -Y1-

SHEET 2 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING
FOR BRIDGE ON US 19 OVER SR 1308 (DOUBLE ISLAND RD) BETWEEN SR 1186 AND NC 80 (LEFT LANE)

Prepared by
URS
URS Corporation - North Carolina
1600 Perimeter Park Drive, Suite 400
Morrisville, NC 27560
PHONE: 919) 461-1100 FAX: 919) 461-1415
NC LIC.# C-2243

8/21/2014
NORTH CAROLINA PROFESSIONAL SEAL 038447 ENGINEER ANDREW S. MILLER
DocuSigned by: Andrew S. Miller
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REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			194

DRAWN BY : R. L. WHITCHER DATE : 11/16/12
CHECKED BY : K. H. COMPTON DATE : 2/12/13
DESIGNED BY : R.L. WHITCHER DATE : 11/16/12

8/20/2014
P:\Jobs1\R2519B\Structures\Electronic Signed Plans\Str 1\401_003_S01_R2519B_FL.dgn
kyle_compton