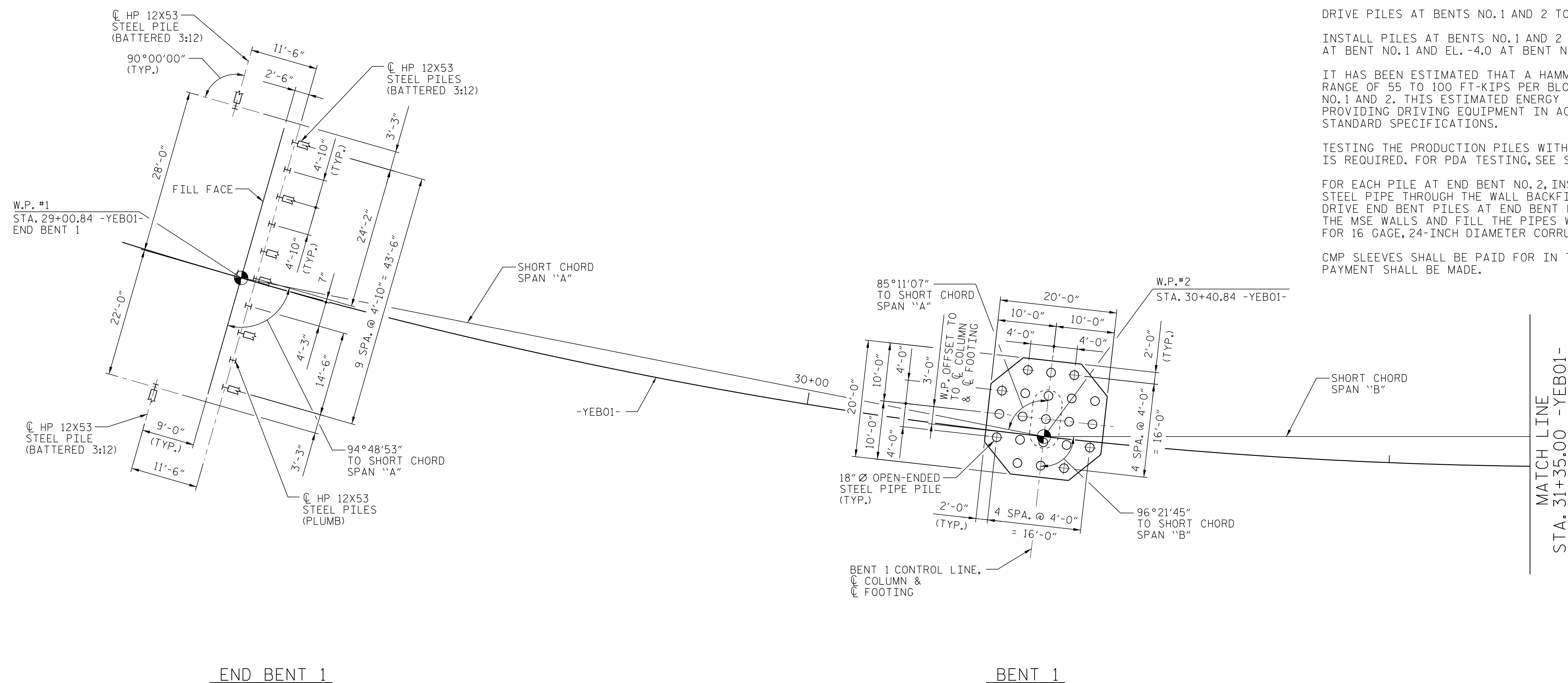
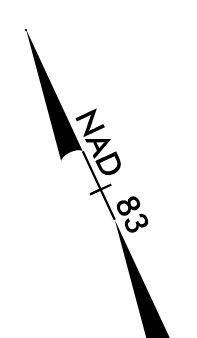


DATE: 4/12/2017
TIME: 2:45:23 PM

USER: jmorriso
DGN: R:\632444_Sigum_Road\400_Technical\408_Structure\Cada\40_L05_503_R5516_SKU.dwg



END BENT 1

BENT 1

FOUNDATION LAYOUT

(DIMENSIONS LOCATING PILES ARE SHOWN TO THE CENTERLINE OF PILES)

NOTES:

FOR END BENTS, THE PILE DIMENSIONS SHOWN ARE TO THE CENTERLINE OF THE PILES AT THE BOTTOM OF CAP.

FOR PILES, SEE GEOTECHNICAL SPECIAL PROVISIONS AND SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT NO.1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 100 AND 105 TONS PER PILE, RESPECTIVELY.

DRIVE PILES AT END BENTS NO.1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 170 AND 175 TONS PER PILE, RESPECTIVELY.

PILES AT BENTS NO.1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 215 TONS PER PILE.

DRIVE PILES AT BENTS NO.1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 290 TONS.

INSTALL PILES AT BENTS NO.1 AND 2 TO A TIP ELEVATION NO HIGHER THAN EL. -1.0 AT BENT NO.1 AND EL. -4.0 AT BENT NO.2, RESPECTIVELY.

IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 55 TO 100 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENTS NO.1 AND 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.

TESTING THE PRODUCTION PILES WITH PDA DURING DRIVING, RESTRIKING, OR REDRIVING IS REQUIRED. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

FOR EACH PILE AT END BENT NO.2, INSTALL A 16 GAGE, 24-INCH DIAMETER CORRUGATED STEEL PIPE THROUGH THE WALL BACKFILLING ZONE DURING MSE WALL CONSTRUCTION. DRIVE END BENT PILES AT END BENT NO.2 THROUGH THE PILES AFTER COMPLETION OF THE MSE WALLS AND FILL THE PIPES WITH SAND BEFORE END BENT CAP CONSTRUCTION. FOR 16 GAGE, 24-INCH DIAMETER CORRUGATED STEEL PIPES, SEE MSE WALL PLANS.

CMP SLEEVES SHALL BE PAID FOR IN THE COST OF STEEL PILES, AND NO SEPARATE PAYMENT SHALL BE MADE.

PROJECT NO. R-5516

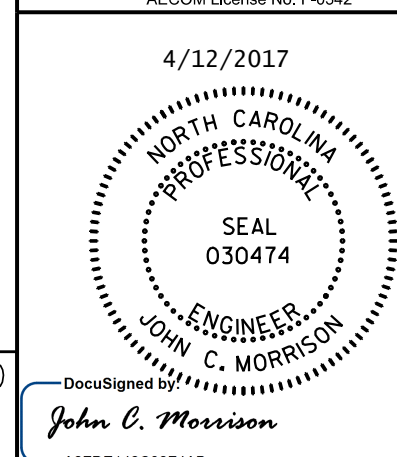
CRAVEN COUNTY

STATION: 32+25.84 -YEB01-
75+13.29 -L-

SHEET 3 OF 6



AECOM TECHNICAL SERVICES, INC.
701 CORPORATE CENTER DRIVE, SUITE 475
RALEIGH, NC 27607
(919) 854-6200 www.aecom.com
AECOM License No. F-0342



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE ON US 70 FLYOVER TO
SLOCUM ROAD OVER US 70 INTERCHANGE

DRAWN BY : S. G. STREDNAK DATE : 10/15
CHECKED BY : J. C. MORRISON DATE : 03/16
DESIGN E.O.R. : J. C. MORRISON DATE : 05/16

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			51
2			4			