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NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATION.

BRACE PILES AT END BENT 1 AND 2 SHALL BE BATTERED 3 (HORIZ.) ON 12 (VERT.).

PILES AT END BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 95 TONS PER PILE.

PILES AT END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 85 TONS PER PILE.

DRIVE PILES AT END BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE.

DRIVE PILES AT END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 145 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.

FOR DRILLED PIERS, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.

DRILLED PIERS AT BENT 1 AND BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 325 TONS PER PIER. CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 20 TSF.

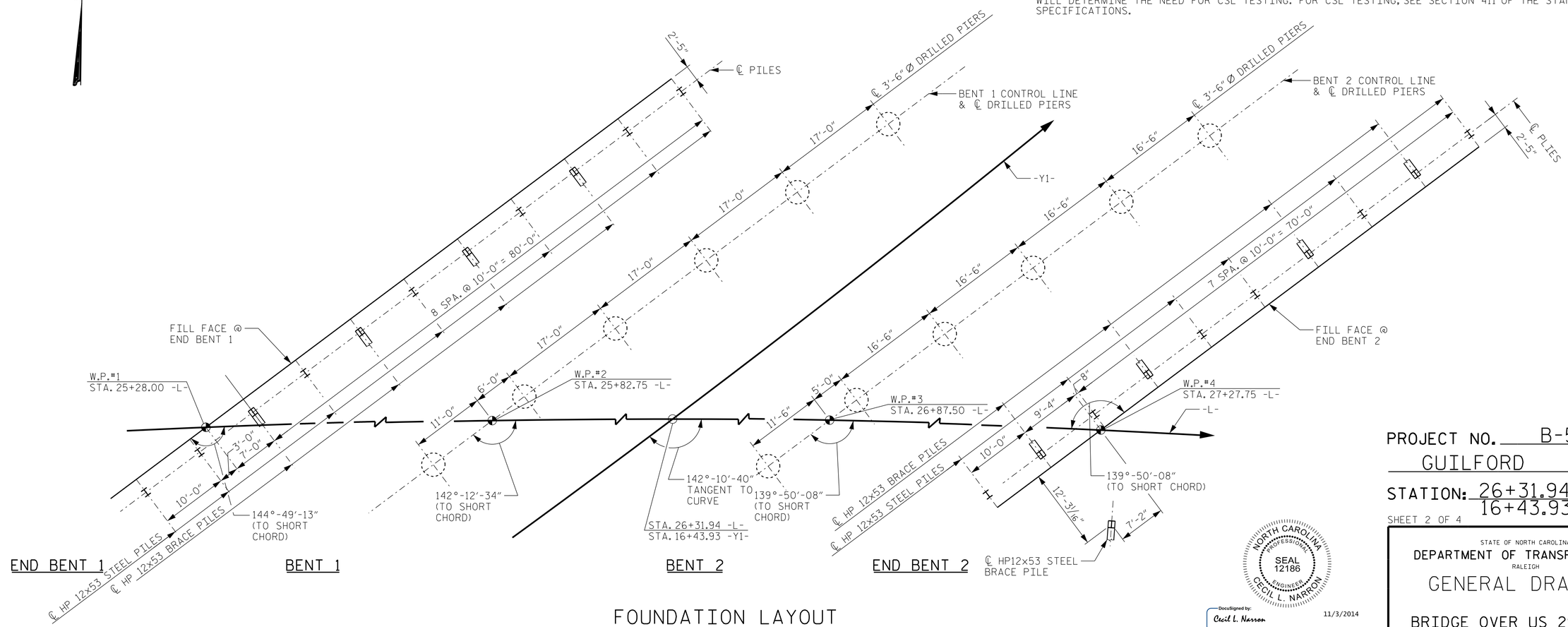
INSTALL DRILLED PIERS AT BENT 1 THAT EXTEND TO AN ELEVATION NO HIGHER THAN 687 FT. AND WITH THE REQUIRED TIP RESISTANCE.

INSTALL DRILLED PIERS AT BENT 2 THAT EXTEND TO AN ELEVATION NO HIGHER THAN 694 FT. AND WITH THE REQUIRED TIP RESISTANCE.

SPT MAY BE REQUIRED FOR DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SPT. FOR SPT TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.

SID INSPECTIONS MAY BE REQUIRED FOR DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SID. FOR SID TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.

CSL TUBES ARE REQUIRED AND CSL TESTING MAY BE REQUIRED FOR DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR CSL TESTING. FOR CSL TESTING, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.



FOUNDATION LAYOUT

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

PROJECT NO. B-5119

GUILFORD COUNTY

STATION: 26+31.94 -L-
16+43.93 -Y1-

SHEET 2 OF 4

NORTH CAROLINA PROFESSIONAL SEAL 12186 ENGINEER CECIL L. NARRON

DocuSigned by: Cecil L. Narron
C169A3D6450240D...
11/3/2014

Kimley»Horn
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Raleigh, NC 27601-1772
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NC LICENSE # F-0102

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

BRIDGE OVER US 29-70-220 ON I-40/85 BUS. WEST BETWEEN MLK JR. DR. AND WILLOW RD.

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

SHEET NO. S-2

TOTAL SHEETS 77

DRAWN BY: J. I. KIMBLE	DATE: 10/14	
CHECKED BY: J. C. WILSON	DATE: 10/14	
DESIGN ENGINEER OF RECORD: C.L. NARRON	DATE: 10/14	

10/31/2014 K:\RDT_Structures_Bridge\NC\01036186_B-5119 I40-85 Bridges\Cad\dgn\B-5119_349_S02.dgn