

INTEGRAL END BENT #1

BENT #1

INTEGRAL END BENT #2

FOUNDATION LAYOUT

(DIMENSIONS LOCATING PILES ARE SHOWN TO PILE CENTERLINE AT BOTTOM OF CAP AND FOOTING)
 (FOOTING DIMENSIONS AND PILE LAYOUT ARE TYPICAL FOR EACH FOOTING.)

NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT INTEGRAL END BENT No.1 AND INTEGRAL END BENT No.2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 105 TONS PER PILE.

DRIVE PILES AT INTEGRAL END BENT No.1 AND INTEGRAL END BENT No.2 TO A REQUIRED DRIVING RESISTANCE OF 175 TONS PER PILE.

PILES AT BENT No.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 155 TONS PER PILE.

DRIVE PILES AT BENT No.1 TO A REQUIRED DRIVING RESISTANCE OF 210 TONS PER PILE.

INSTALL PILES AT BENT No.1 TO A TIP ELEVATION NO HIGHER THAN -20 FEET.

STEEL H-PILE POINTS ARE REQUIRED FOR STEEL H-PILES AT INTEGRAL END BENT No.1 AND INTEGRAL END BENT No.2. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

STEEL PIPE PILE INSIDE FIT CONICAL POINTS ARE REQUIRED FOR STEEL PIPE PILES AT BENT No.1. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

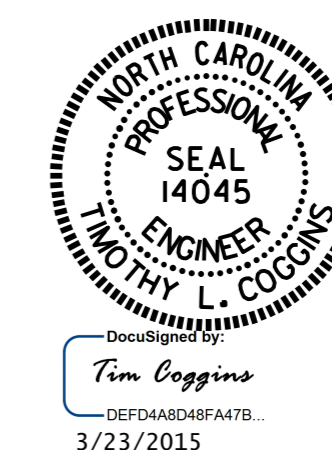
IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 59,500 FT-LBS TO 96,800 FT-LBS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENT No.1. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.

TESTING OF THE FIRST PRODUCTION PILE WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED AT BENT No.1. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED AT INTEGRAL END BENT No.1 OR INTEGRAL END BENT No.2. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PROJECT NO. R-2514D
JONES & CRAVEN COUNTY
 STATION: 611+69.32 -L-
28+29.35 -Y10-

SHEET 2 OF 3



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING
 BRIDGE ON US 17 CONNECTOR
 OVER PROPOSED US 17
 BETWEEN SR 1330 AND SR 1224
 (LEFT LANE)

REVISIONS						SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:	S15-002	
1			3			TOTAL SHEETS	30
2			4				

DRAWN BY : D. G. ELY DATE : 12/2014
 CHECKED BY : N. RUFFIN DATE : 01/12/15
 DESIGN ENGINEER OF RECORD: G. KOUCHEKI DATE : 02/2015