



FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES AND DRILLED PIERS ARE SHOWN TO PILE AND DRILLED PIER CENTERLINES.

FOUNDATION NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PILES AT END BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 111 TONS PER PILE.

DRIVE PILES AT END BENT NO.1 TO A REQUIRED DRIVING RESISTANCE OF 185 TONS PER PILE.

DRILLED-IN PILES ARE REQUIRED FOR END BENT NO.1. EXCAVATE HOLES AT PILE LOCATIONS TO ELEVATION 921 FT OR A PENETRATION OF 5 FT INTO ROCK BELOW TOP OF THE MSE WALL LEVELING PADS DEFINED BY ARTICLE 411-1 OF THE STANDARD SPECIFICATIONS. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

CONCRETE IS REQUIRED TO FILL HOLES TO THE TOP OF THE MSE WALL LEVELING PADS FOR PILE EXCAVATION AT END BENT NO.1.

STEEL H-PILE POINTS ARE REQUIRED FOR THE 6 LEFT STEEL H-PILES AT END BENT NO.1. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

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

DRILLED PIERS AT BENT NO.1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 785 TONS PER PIER. CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 25 TSF.

INSTALL DRILLED PIERS AT BENT NO.1 TO A TIP ELEVATION NO HIGHER THAN 903.9 FT (PIERS 1-2), AND 917.0 FT (PIERS 3-7) WITH THE REQUIRED TIP RESISTANCE AND A PENETRATION OF AT LEAST 14 FT INTO WEATHERED ROCK AND ROCK AS DEFINED BY ARTICLE 411-1 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.

PILES AT END BENT NO.2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 111 TONS PER PILE.

DRIVE PILES AT END BENT NO.2 TO A REQUIRED DRIVING RESISTANCE OF 185 TONS PER PILE.

DRILLED-IN PILES ARE REQUIRED FOR END BENT NO.2. EXCAVATE HOLES AT PILE LOCATIONS TO ELEVATION 921 FT OR A PENETRATION OF 5 FT INTO ROCK BELOW TOP OF THE MSE WALL LEVELING PADS DEFINED BY ARTICLE 411-1 OF THE STANDARD SPECIFICATIONS. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

CONCRETE IS REQUIRED TO FILL HOLES TO THE TOP OF THE MSE WALL LEVELING PADS FOR PILE EXCAVATION AT END BENT NO.2.

STEEL H-PILE POINTS ARE REQUIRED FOR THE 6 LEFT STEEL H-PILES AT END BENT NO.2. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

FOUNDATION CONSTRUCTION FOR BRIDGE NO. 723 SHALL NOT BEGIN UNTIL BLASTING FOR THE MSE WALLS, ROADWAY ALIGNMENT, UTILITIES, AND ANY OTHER SUBSURFACE STRUCTURES IS COMPLETED.

PROJECT NO. U-2579AB
FORSYTH COUNTY
 STATION: 30+67.66 -Y4-

SHEET 2 OF 3

10/14/2021
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STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGE ON SR 4315
 OVER WINSTON-SALEM NORTHERN
 BELTWAY BETWEEN SR 2662
 AND SR 2632

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-2
1			3			TOTAL SHEETS
2			4			37

DRAWN BY : NSC DATE : 07/2019
 CHECKED BY : JMR DATE : 09/2019
 DESIGN ENGINEER OF RECORD: JMR DATE : 10/2019

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED