

FOUNDATION LAYOUT
 DIMENSIONS LOCATING PILES ARE SHOWN TO THE CENTERLINE OF PILES.
 ALL PILES ARE VERTICAL.

NOTES

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

PILES AT END BENTS 1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 100 TONS AND 75 TONS PER PILE, RESPECTIVELY.

DRIVE PILES AT END BENT 1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 170 TONS AND 125 TONS PER PILE, RESPECTIVELY.

PILES AT BENT 1 AND BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 120 TONS AND 100 TONS PER PILE, RESPECTIVELY.

DRIVE PILES AT BENT 1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 220 TONS AND 135 TONS PER PILE, RESPECTIVELY. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR DOWNDRAG OR SCOUR.

INSTALL PILES AT BENT 1 AND BENT 2 TO A TIP ELEVATION NO HIGHER THAN -48 FT.

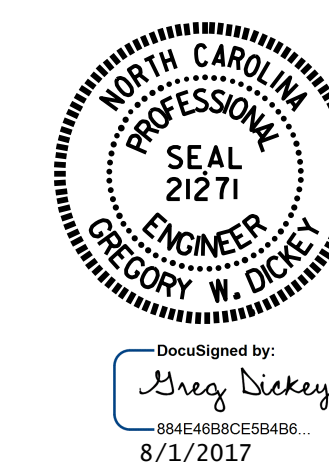
STEEL H-PILE POINTS ARE REQUIRED FOR STEEL H-PILES AT END BENT 1 AND 2. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

THE SCOUR CRITICAL ELEVATIONS FOR BENTS 1 AND 2 ARE ELEVATION -24 FT. AND -2 FT., RESPECTIVELY. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

TESTING THE FIRST PRODUCTION PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED AT BENT 1 AND 2. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

PROJECT NO. B-5236
NEW HANOVER COUNTY
 STATION: 15+64.40 -L-

SHEET 2 OF 3



DocuSigned by:
Greg Dickey
 884E4688CE5D486
 8/1/2017

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
GENERAL DRAWING
 BRIDGE OVER LORDS CREEK
 ON SR 1100 BETWEEN
 RIVER OAKS DRIVE &
 WATAUGA ROAD

DRAWN BY : H. B. DESAI DATE : 03/17
 CHECKED BY : M. K. BEARD DATE : 03/17
 DESIGN ENGINEER OF RECORD: A. K. PATEL DATE : 06/17

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | TOTAL SHEETS |
| 1 | | | 3 | | | S-2 |
| 2 | | | 4 | | | 35 |