

FOUNDATION LAYOUT

▲ INDICATES PILE BATTERED @ 3:12 IN DIRECTION OF ARROW

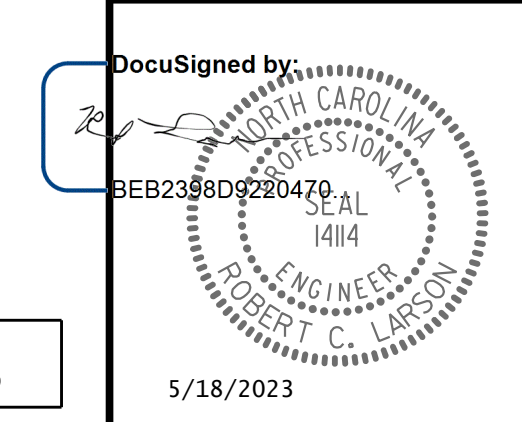
NOTES

- ALL PILES ARE HP 12 X 53.
- DIMENSIONS LOCATING PILES ARE SHOWN TO THE PILE CENTERLINE AT THE BOTTOM OF THE CAP. FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- PILES AT END BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 97 TONS PER PILE.
- PILES AT END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 106 TONS PER PILE.
- DRILLED-IN PILES ARE REQUIRED FOR END BENT 1 EXCAVATE HOLES AT PILE LOCATIONS TO ELEVATION 2625 FT. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- DRIVE PILES AT END BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 162 TONS PER PILE.
- CONCRETE IS REQUIRED TO FILL HOLES FOR PILE EXCAVATION AT END BENT 1
- DRIVE PILES AT END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 177 TONS PER PILE.

- FOR DRILLED PIERS, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.
- DRILLED PIERS AT BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 386 TONS PER PIER. TIP RESISTANCE IS NOT REQUIRED.
- DRILLED PIERS AT BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 387 TONS PER PIER. TIP RESISTANCE IS NOT REQUIRED.
- INSTALL DRILLED PIERS AT BENT 1 TO A TIP ELEVATION NO HIGHER THAN 2585.3 FT. AND A PENETRATION OF AT LEAST 8 FT. INTO ROCK AS DEFINED BY ARTICLE 411-1 OF THE STANDARD SPECIFICATIONS.
- INSTALL DRILLED PIERS AT BENT 2 TO A TIP ELEVATION NO HIGHER THAN 2583.8 FT. AND A PENETRATION OF AT LEAST 8 FT. INTO 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.

PROJECT NO. U-5839
HAYWOOD COUNTY
 STATION: 24+64.13 -L- POC

SHEET 2 OF 5



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
GENERAL DRAWING
 FOR BRIDGE ON -L- US 276
 (RUSS AVE.) OVER -Y6-
 (BLUE RIDGE SOUTHERN RAILROAD)
 BETWEEN US 23 (N. MAIN ST.)
 AND SR 1247 (DELLWOOD RD.)

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | SHEET NO. |
| 1 | | | 3 | | | TOTAL SHEETS |
| 2 | | | 4 | | | 63 |

**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

DRAWN BY : W. B. ALLEN DATE : 5/20
 CHECKED BY : Z. H. BROWN DATE : 8/20
 DESIGN ENGINEER OF RECORD: R. C. LARSON DATE : 4/23

DocuSigned by:
 BEB2388D9220470
 14114

5/18/2023

5/17/2023 7:04:46 PM R:\Structures\3 span Bridge cover RRV02 USB19 SMU_FL_43084.dgn