

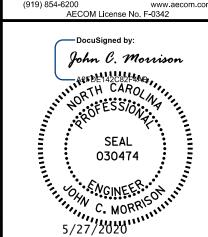
FOUNDATION LAYOUT

DIMENSIONS LOCATING PILES ARE SHOWN TO CENTERLINE OF PILES. DIMENSIONS LOCATING FOOTINGS ARE SHOWN TO CENTERLINE OF COLUMNS AND FOOTINGS.

FOUNDATION NOTES:

- 1) FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- 2) PILES AT END BENT 1 AND END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 95 TONS PER PILE.
- 3) PILES AT BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 105 TONS PER PILE.
- 4) DRIVE PILES AT END BENT 1 AND END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 160 TONS PER PILE.
- 5) DRIVE PILES AT BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 175 TONS PER PILE.
- IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 40,000 FT-LBS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT END BENT 1, BENT 1, AND END BENT 2. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(S) OF THE STANDARD SPECIFICATIONS.
- 7) TESTING THE FIRST PRODUCTION PILE WITH 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.
- BEFORE BEGINNING END BENT CONSTRUCTION AT END BENT 1. FOR BRIDGE WAITING PERIODS, SEE ROADWAY PLANS AND SECTIONS 235 OF THE STANDARD SPECIFICATIONS.

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STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PROJECT NO.

STATION:

SHEET 2 OF 3

ROCKINGHAM

BR-0042

19+56.99 -L-

COUNTY

GENERAL DRAWING

BRIDGE ON SR 2600 (MIZPAH CHURCH RD.) OVER US 29 BETWEEN SR 2683 AND SR 2598

REVISIONS					SHEET NO.
BY:	DATE:	NO.	BY:	DATE:	S-02
		3			TOTAL SHEETS
		4			28 I

OBSERVE A 1 MONTH WAITING PERIOD AFTER CONSTRUCTING THE MECHANICALLY STABILIZED EARTH (MSE) END BENT WALL TO WITHIN 1 FT OF THE BOTTOM OF CAP ELEVATION

> DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DRAWN BY : H.T. ROSEMOND _ DATE : <u>04/2019</u> ___ DATE : 04/2019 CHECKED BY: D.RITACCO
DATE: 04/2019
DESIGNED BY: H.T.ROSEMOND
DESIGN CHECKED BY: D.RITACCO
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