

FOUNDATION LAYOUT

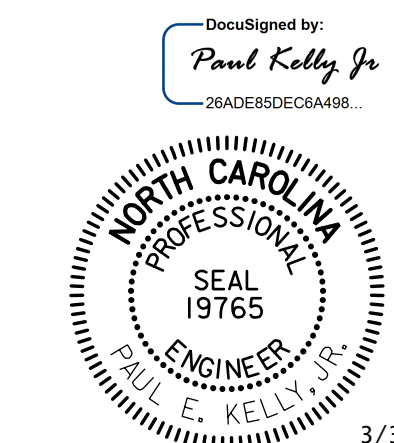
NOTES:

1. FOR PILES, SEE PILES (LFD-ASD) SPECIAL PROVISIONS.
2. DRIVE PILES AT ABUTMENT 2 TO A REQUIRED BEARING CAPACITY OF 130 TONS PER PILE. THE REQUIRED BEARING CAPACITY IS EQUAL TO THE ALLOWABLE BEARING CAPACITY WITH A MINIMUM FACTOR OF SAFETY OF TWO.
3. THE ALLOWABLE BEARING CAPACITY FOR PILES AT ABUTMENT 2 IS 65 TONS PER PILE.
4. FOR DRILLED PIERS, SEE LFD DRILLED PIERS SPECIAL PROVISIONS.
5. DRILLED PIERS AT ABUTMENT 1 ARE DESIGNED FOR BOTH SKIN FRICTION AND END BEARING. CHECK FIELD CONDITIONS FOR THE REQUIRED END BEARING CAPACITY OF 15 TSF.
6. DRILLED PIERS AT PIER 1, PIER 2 AND PIER 3 ARE DESIGNED FOR BOTH SKIN FRICTION AND END BEARING. CHECK FIELD CONDITIONS FOR THE REQUIRED END BEARING CAPACITY OF 40 TSF.
7. DRILLED PIERS AT ABUTMENT 1 ARE DESIGNED FOR AN APPLIED LOAD OF 165 TONS EACH AT THE TOP OF THE COLUMN.
8. DRILLED PIERS AT PIER 1, PIER 2 AND PIER 3 ARE DESIGNED FOR AN APPLIED LOAD OF 395 TONS EACH AT THE TOP OF THE COLUMN.
9. INSTALL DRILLED PIERS AT ABUTMENT 1 THAT EXTEND TO AN ELEVATION NO HIGHER THAN 382 FT (LT) AND 379 FT (CTR & RT) AND SATISFY THE REQUIRED END BEARING CAPACITY.
10. INSTALL DRILLED PIERS AT PIER 1 THAT EXTEND TO AN ELEVATION NO HIGHER THAN 381 FT (LT) AND 378 FT (CTR & RT) AND SATISFY THE REQUIRED END BEARING CAPACITY.
11. INSTALL DRILLED PIERS AT PIER 2 THAT EXTEND TO AN ELEVATION NO HIGHER THAN 376 FT (LT) AND 365 FT (CTR & RT) AND SATISFY THE REQUIRED END BEARING CAPACITY.
12. INSTALL DRILLED PIERS AT PIER 3 THAT EXTEND TO AN ELEVATION NO HIGHER THAN 373 FT AND SATISFY THE REQUIRED END BEARING CAPACITY.
13. DRILLED PIER EXCAVATIONS AT ABUTMENT 1 AND PIER 1 THROUGH PIER 3 WILL EXTEND INTO MATERIAL THAT DETERIORATES WHEN EXPOSED TO THE ELEMENTS. CHECK FIELD CONDITIONS FOR THE REQUIRED END BEARING CAPACITY AND PLACE CONCRETE IMMEDIATELY AFTER THE EXCAVATION IS COMPLETED.
14. SPT TESTING IS REQUIRED FOR DRILLED PIERS AT ABUTMENT 1 AND PIER 2.
15. SID INSPECTIONS MAY BE REQUIRED FOR DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SID INSPECTIONS.
16. CSL TUBES AND TESTING ARE REQUIRED FOR DRILLED PIERS AT ABUTMENT 1 AND PIER 1 THROUGH PIER 3.

PROJECT NO. U-3308
DURHAM COUNTY
 STATION: POT 24+09.63 -LALT-
POT 21+11.43 -NSN-

SHEET 2 OF 4 M.P. H-56.10

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
GENERAL DRAWING
FOUNDATION LAYOUT
 FOR BRIDGE ON NSRR
 OVER NC 55 (ALSTON AVE.)
 BETWEEN NC 147 & ANGIER AVE.



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DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

REVISIONS				SHEET NO.	
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS: 44

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DRAWN BY: RSB DATE: 06-14
 CHECKED BY: DJM DATE: 06-14