

NOTES

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

PILES AT END BENT 1 AND END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 95 TONS AND 100 TONS PER PILE, RESPECTIVELY.

DRIVE PILES AT END BENT 1 AND END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 160 TONS AND 170 TONS PER PILE, RESPECTIVELY.

FOR DRILLED PIERS, SEE GEOTECHNICAL SPECIAL PROVISIONS AND SECTION 411 OF THE STANDARD SPECIFICATIONS.

DRILLED PIERS AT BENT 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 620 TONS PER PIER. CHECK FIELD CONDITIONS FOR THE REQUIRED TIP RESISTANCE OF 90 TSF.

INSTALL DRILLED PIERS AT BENT 1 TO A TIP ELEVATION NO HIGHER THAN 367 FT (LT.), 364 FT (CT.) AND 362 FT (RT.) WITH THE REQUIRED TIP RESISTANCE AND PENETRATION OF AT LEAST 7 FT INTO ROCK AS DEFINED BY ARTICLE 411-1 OF THE STANDARD SPECIFICATIONS.

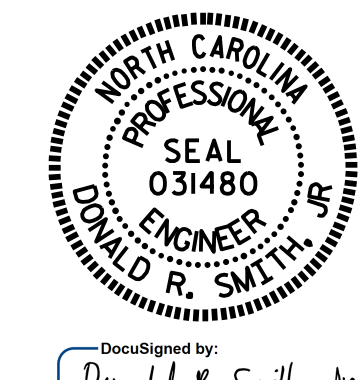
SID INSPECTIONS MAY BE REQUIRED FOR DRILLED PIERS. THE ENGINEER WILL DETERMINE THE NEED FOR SID INSPECTIONS. FOR SID INSPECTIONS, SEE SECTION 411 OF THE STANDARD SPECIFICATIONS.

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.

EVERY EFFORT HAS BEEN MADE TO MISS THE EXISTING END BENT PILES AND BENT FOOTINGS. IF A CONFLICT IS DISCOVERED, THE CONTRACTOR SHALL ALLOW UP TO THREE DAYS FOR REDESIGN OF THE END BENT OR BENT.

PROJECT NO. U-3308
DURHAM COUNTY
 STATION: 16+42.70-LALT-

SHEET 2 OF 3



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING
 FOR BRIDGE OVER NC 147
 (DURHAM EXPRESSWAY) ON
 NC 55 (ALSTON AVE.)

DRAWN BY : P.S. ADKINS DATE : 10/31/14
 CHECKED BY : K.D. LAYNE DATE : 11/15/14
 DESIGN ENGINEER OF RECORD: D.R. SMITH DATE : 11/22/14

FOUNDATION LAYOUT
 DIMENSIONS LOCATING PILES ARE SHOWN TO THE CENTERLINE OF PILES.
 DIMENSIONS FOR DRILLED PIERS ARE SHOWN TO THE CENTERLINE OF DRILLED PIERS.

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	SHEET NO.
1			3			S1-2
2			4			TOTAL SHEETS 47