



FOUNDATION NOTES

FOR PILES, SEE SPECIAL PROVISIONS.

THE ALLOWABLE BEARING CAPACITY FOR PILES AT ABUTMENT NO.1 AND ABUTMENT NO.2 IS 75 TONS PER PILE.

DRIVE PILES AT ABUTMENT NO.1 AND ABUTMENT NO.2 TO A REQUIRED BEARING CAPACITY OF 150 TONS PER PILE. THE REQUIRED BEARING CAPACITY IS EQUAL TO THE ALLOWABLE BEARING CAPACITY WITH A MINIMUM FACTOR OF SAFETY OF TWO.

THE ALLOWABLE BEARING CAPACITY FOR PILES AT PIER NO.1 IS 115 TONS PER PILE.

DRIVE PILES AT PIER NO.1 TO A REQUIRED BEARING CAPACITY OF 240 TONS PER PILE. THE REQUIRED BEARING CAPACITY IS EQUAL TO THE ALLOWABLE BEARING CAPACITY WITH A MINIMUM FACTOR OF SAFETY OF TWO PLUS ANY ADDITIONAL CAPACITY TO ACCOUNT FOR DOWDRAG OR NEGATIVE SKIN FRICTION AND SCOUR.

INSTALL PILES AT PIER NO.1 TO A TIP ELEVATION NO HIGHER THAN 112.0 FT.

PIPE PILE PLATES ARE REQUIRED FOR PIPE PILES AT PIER NO.1. USE PIPE PILE PLATES WITH A DIAMETER EQUAL TO THE PIPE PILE DIAMETER.

STEEL PILE POINTS ARE REQUIRED FOR STEEL PILES AT ABUTMENT NO.1 AND ABUTMENT NO.2.

TESTING THE FIRST PRODUCTION PILE AT ABUTMENT NO.1 AND ABUTMENT NO.2 WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED. FOR PDA TESTING, SEE SPECIAL PROVISIONS.

TESTING THE FIRST PRODUCTION PILE AT PIER NO.1 WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED. FOR PDA TESTING, SEE SPECIAL PROVISIONS.

THE SCOUR CRITICAL ELEVATION FOR PIER NO.1 IS ELEVATION 141 FT. SCOUR CRITICAL ELEVATIONS ARE USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

DO NOT DRIVE PILES AT ABUTMENT NO.1 UNTIL AFTER OBSERVING A 3 MONTH WAITING PERIOD BEGINNING WHEN SURCHARGE HAS BEEN PLACED AS SHOWN IN RAIL PLANS FOR A MINIMUM DISTANCE OF 300 FT FROM ABUTMENT NO.1. SEE RAIL PLANS AND SURCHARGE SPECIAL PROVISIONS FOR SURCHARGE DETAILS.

DO NOT DRIVE PILES AT ABUTMENT NO.2 UNTIL AFTER OBSERVING A 3 MONTH WAITING PERIOD BEGINNING WHEN SURCHARGE HAS BEEN PLACED AS SHOWN IN RAIL PLANS FOR A MINIMUM DISTANCE OF 300 FT FROM ABUTMENT NO.2. SEE RAIL PLANS AND SURCHARGE SPECIAL PROVISIONS FOR SURCHARGE DETAILS.

FOUNDATION LAYOUT

NOTES:

ABUTMENTS AND PIERS ARE PARALLEL.

ALL DIMENSIONS ARE PARALLEL OR NORMAL TO \odot PIER 1 AND FRONT FACES OF ABUTMENT BACKWALLS.

INDICATES HP 12x53 PILE BATTER IN DIRECTION SHOWN.

BRACE PILES @ ABUTMENTS ARE TO BE BATTERED @ 3:12.

INDICATES PP 18x0.50 PILE BATTER IN DIRECTION SHOWN.

BRACE PILES 1, 2, 7 & 8 AT PIER ARE TO BE BATTERED @ 1/2:12 LONGITUDINALLY AND 1/2:12 TRANSVERSELY.

BRACE PILES 3, 4, 5 & 6 AT PIER ARE TO BE BATTERED @ 1/2:12 LONGITUDINALLY.

ALL PILE DIMENSIONS ARE TO CENTERS OF PILES AT BOTTOM OF ABUTMENTS OR BOTTOM OF PIER 1.

FOR FOUNDATION ELEVATIONS AND DETAILS, SEE PIER AND ABUTMENT DETAILS.

PROJECT NO. P-4900A
ROBESON COUNTY
 STATION: POS 22+07.07 -L-
 MILE POST: 0.23

SHEET 2 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

GENERAL DRAWING

FOUNDATION LAYOUT

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 2/27/2015

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DRAWN BY	J. BAYNE	DATE	8/14	NO.	3
CHECKED BY	D. RAGAN	DATE	1/15	NO.	4
				REVISIONS	SHEET NO. S-2
				TOTAL SHEETS	54