

### NOTES

FOR PILES, SEE SECTION 450 OF STANDARD SPECIFICATIONS.

PILES AT END BENTS 1 AND 2 ARE DESIGNED FOR A FACTORED STRUCTURAL LOAD OF 130 TONS PER PILE.

DRIVE PILES AT END BENT 1 TO A REQUIRED DRIVING RESISTANCE OF 363 TON PER PILE. THIS RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR DOWN DRAG.

DRIVE PILES AT END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 273 TON PER PILE. THIS RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR DOWN DRAG.

TESTING THE FIRST PRODUCTION PILE OR TEST PILE WITH THE PILE DRIVING ANALYZER (PDA) DURING DRIVING, RESTRIKING OR REDRIVING IS REQUIRED AT END BENT 1 AND END BENT 2. SEE SECTION 450 OF THE STANDARD SPECIFICATION.

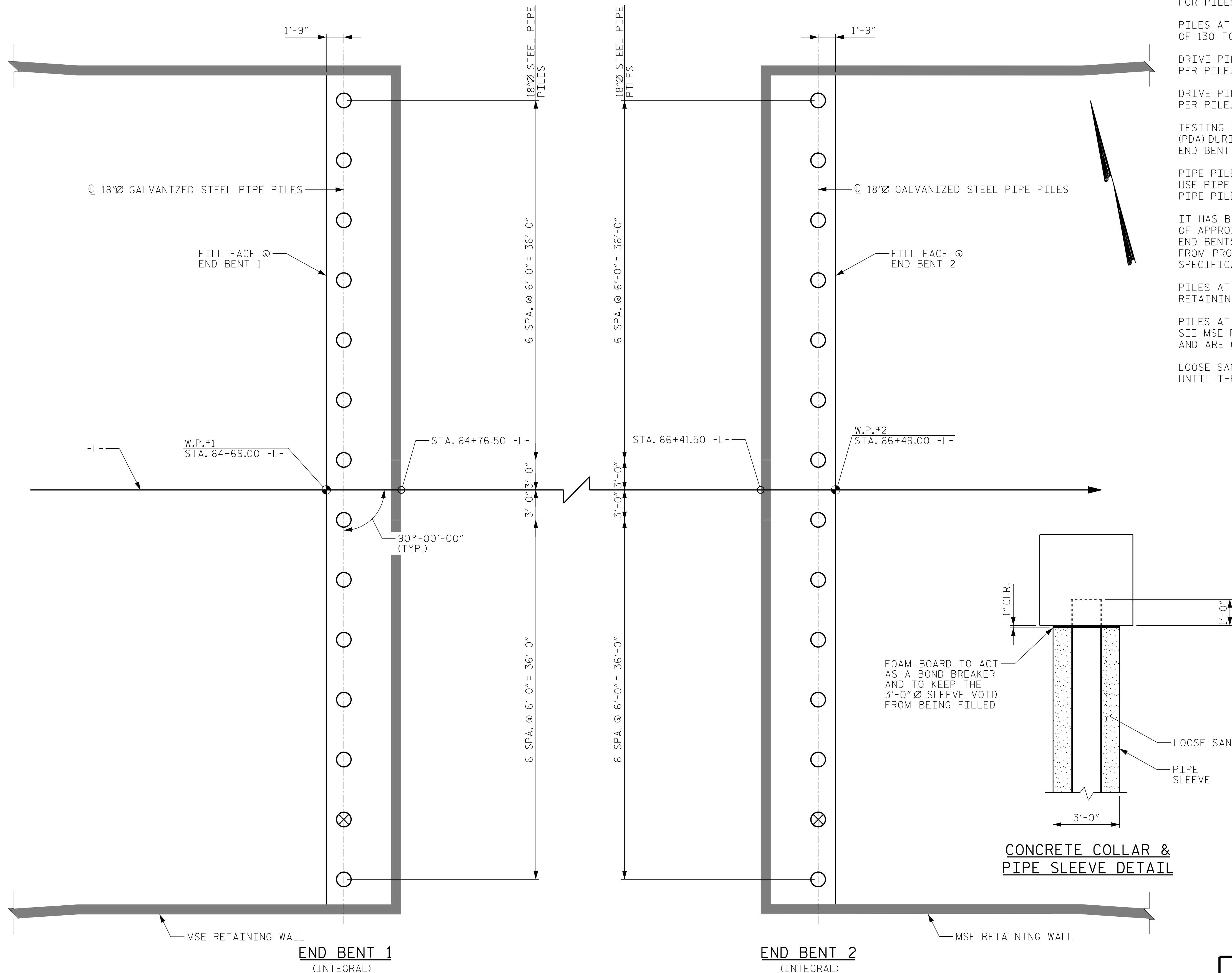
PIPE PILE PLATES ARE REQUIRED FOR THE STEEL PIPE PILES AT END BENTS 1 AND 2. USE PIPE PILE PLATES WITH A DIAMETER EQUAL TO THE PIPE DIAMETER. FOR STEEL PIPE PILE PLATES, SEE SECTION 450 OF THE STANDARD SPECIFICATION.

IT HAS BEEN ESTIMATED THAT A HAMMER WITH A MINIMUM EQUIVALENT RATED ENERGY OF APPROXIMATELY 70,000 FT-LBS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT END BENTS 1 AND 2. THIS MINIMUM ENERGY DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH THE PILES STANDARD SPECIFICATIONS.

PILES AT END BENTS 1 AND 2 ARE TO BE DRIVEN BEFORE CONSTRUCTION OF MSE RETAINING WALL.

PILES AT END BENTS 1 AND 2 ARE TO BE SLEEVED IN MSE REINFORCED BACKFILL ZONE. SEE MSE RETAINING WALL PLANS. NO SEPARATE PAYMENT WILL BE MADE FOR PILE SLEEVES AND ARE CONSIDERED INCIDENTAL TO OTHER CONTRACT UNITS.

LOOSE SAND TO FILL VOID BETWEEN PIPE PILE AND PIPE SLEEVE SHALL NOT BE ADDED UNTIL THE MSE WALL FILL IS TO GRADE FOR END BENT CONSTRUCTION.



⊗ = DENOTES FIRST PDA TEST PILE LOCATION

PROJECT NO. U-3315  
PITT COUNTY  
 STATION: 65+56.61 -L-  
16+96.14 -Y10-

SHEET 2 OF 3



DocuSigned by:  
 Cecil L. NARRON  
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NC LICENSE # F-0102

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 GENERAL DRAWING  
 BRIDGE OVER DICKENSON  
 AVE. (SR 1531) AND  
 CSX TRANSPORTATION  
 ON TENTH ST. CONNECTOR

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1			3			TOTAL SHEETS
2			4			33

### FOUNDATION LAYOUT

(DIMENSIONS LOCATING PILES ARE SHOWN TO THE PILE CENTERLINE AT BOTTOM OF CAP)

DRAWN BY: J. I. KIMBLE DATE: 5/15  
 CHECKED BY: J. C. WILSON DATE: 5/15  
 DESIGN ENGINEER OF RECORD: C.L. NARRON DATE: 5/15

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