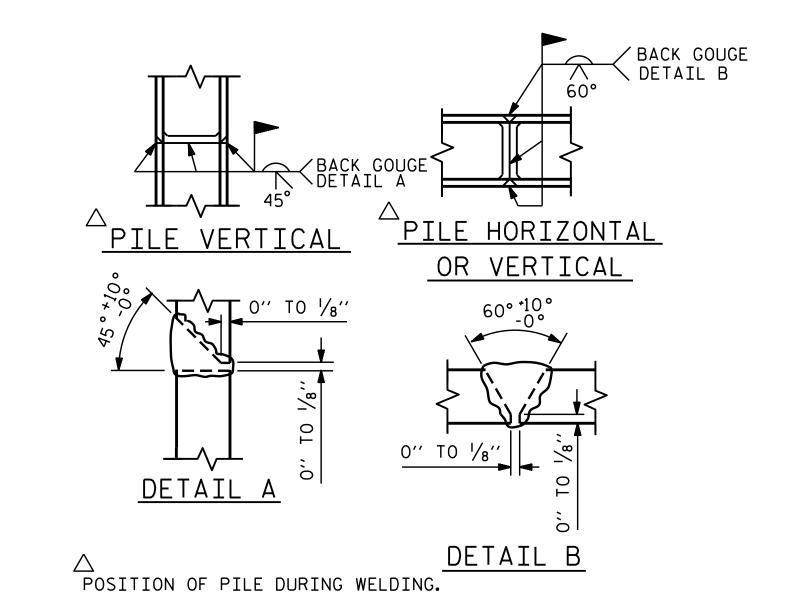


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

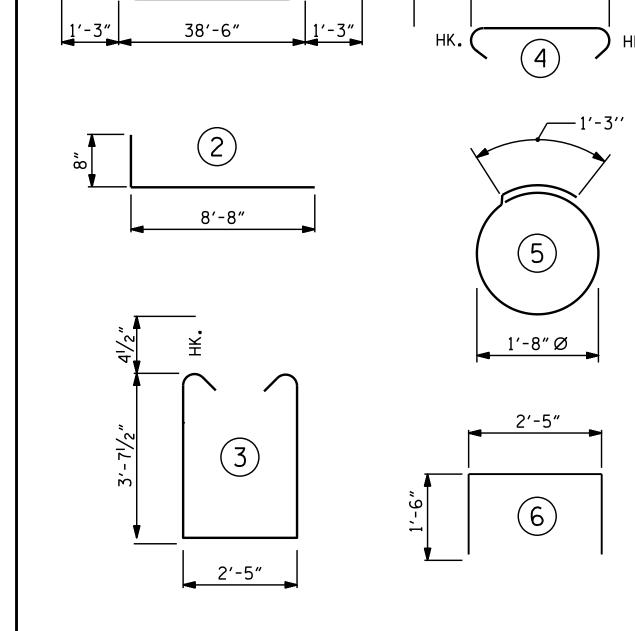
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETER-MINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST\_OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

## TEMPORARY DRAINAGE AT END BENT



PILE SPLICE DETAILS



BAR TYPES

|    | ., |    | _   |        |      |
|----|----|----|-----|--------|------|
| B1 | 8  | #9 | 1   | 41'-0" | 1115 |
| B2 | 28 | #4 | STR | 20′-7″ | 385  |
| В3 | 10 | #4 | STR | 2′-5″  | 16   |
| В4 | 4  | #4 | STR | 19'-0" | 51   |
|    |    |    |     |        |      |
| D1 | 22 | #6 | STR | 1′-6″  | 50   |
|    |    |    |     |        |      |
| H1 | 40 | #4 | 2   | 9′-4″  | 249  |
|    |    |    |     |        |      |
| K1 | 16 | #4 | STR | 3′-1″  | 33   |
|    |    |    |     |        |      |
| S1 | 50 | #4 | 3   | 10′-5″ | 348  |
| S2 | 50 | #4 | 4   | 3′-2″  | 106  |
| S3 | 28 | #4 | 5   | 6′-6″  | 122  |
|    |    |    |     |        |      |
| U1 | 13 | #4 | 6   | 5′-5″  | 47   |
|    |    |    |     |        |      |
| V1 | 52 | #4 | STR | 6′-2″  | 214  |
|    |    |    |     |        |      |
|    |    |    |     |        |      |
|    |    |    |     |        |      |
|    |    |    |     |        |      |

BILL OF MATERIAL

FOR ONE END BENT

(2 REQ'D)

BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT

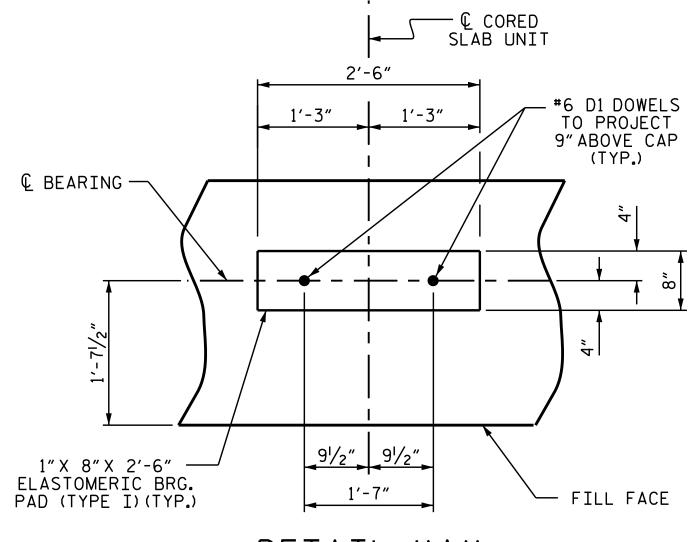
| ALL BAR DIMENSIONS ARE OUT TO OUT.                               |                  |  |              |  |  |  |  |
|--|------------------|--|--------------|--|--|--|--|
| END BENT 1   |                  | END BENT 2                               |              |  |  |  |  |
| HP 12 X 53 STEEL PILES   | S H              | HP 12 X 53 STEEL PILES                   |              |  |  |  |  |
| NO: 7 LIN. FT.:  | = 315 NO: 7      |  | LIN.FT.= 315 |  |  |  |  |
| PILE REDRIVES  | NO: 3 PILE R     | EDRIVES                                  | NO: 3        |  |  |  |  |
| PILE DRIVING<br>EQUIPMENT SETUP<br>FOR HP 12 X 53<br>STEEL PILES | EQUIPM<br>FOR HP | RIVING<br>MENT SETUP<br>12 X 53<br>PILES | NO: 7        |  |  |  |  |

CLASS A CONCRETE BREAKDOWN POUR #1 CAP, LOWER PART 20.4 C.Y. OF WINGS & COLLARS POUR #2 UPPER PART OF 2.3 C.Y. WINGS TOTAL CLASS A CONCRETE 22.7 C.Y.

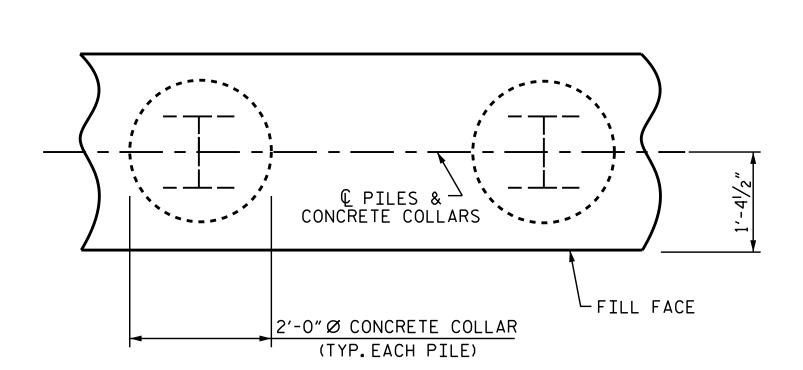
2736 LBS.

REINFORCING STEEL

(FOR ONE END BENT)



DETAIL "A" (END BENT 1 SHOWN, END BENT 2 SIMILAR BY ROTATION)

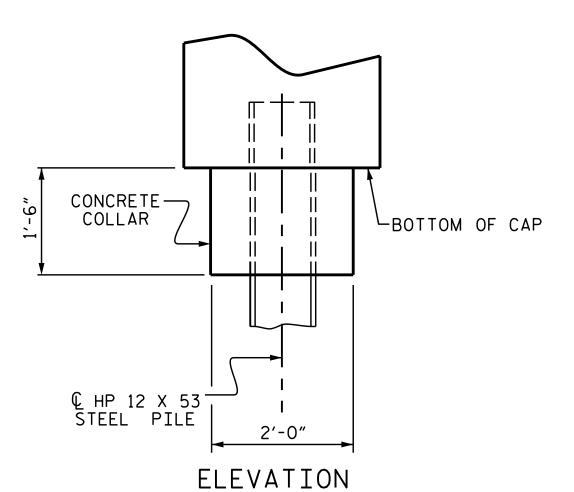


PLAN CORROSION PROTECTION FOR STEEL PILES DETAIL

(END BENT 1 SHOWN, END BENT 2 SIMILAR BY ROTATION)

ASSEMBLED BY : P.K. NEWTON DATE: 11/28/16 CHECKED BY : H. A. LOCKLEAR DATE : 12/12/16 DRAWN BY: WJH 12/11 CHECKED BY : AAC 12/11

4-#4 B4 4-#9 B1 FACE PART SECTION B-B SHOWING ADDITIONAL REINFORCING STEEL IN TOP OF CAP



SECTION A-A

1'-0" 11" 10" -€ #6 D1 DOWEL 1'-7<sup>1</sup>/2" FILL. FACE 2"CL. \_#4 S2 ந் 4-#9 B1 —4-#4 B2 @ 4" CTS. OVER PILES #4 B3-#4 S1 \_\_\_\_ 2-#9 B1 2" CL. (TYP.) — 8″ 2-#9 B1 € HP 12 X 53 STEEL PILE— — 3" HIGH B.B. 1'-41/2" 1'-41/2" 2'-9"

(CONCRETE COLLAR NOT SHOWN FOR CLARITY. SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL."

B-4771 PROJECT NO.\_ JOHNSTON \_ COUNTY STATION: 16+82.00 -L-

SHEET 4 OF 4

26445

P. Korey Newton

O NOINEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE

END BENTS 1 & 2 DETAILS

4FFE39D1431B407... 3/15/2017 SHEET NO. REVISIONS S-15 DATE: DATE: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED TOTAL SHEETS 20