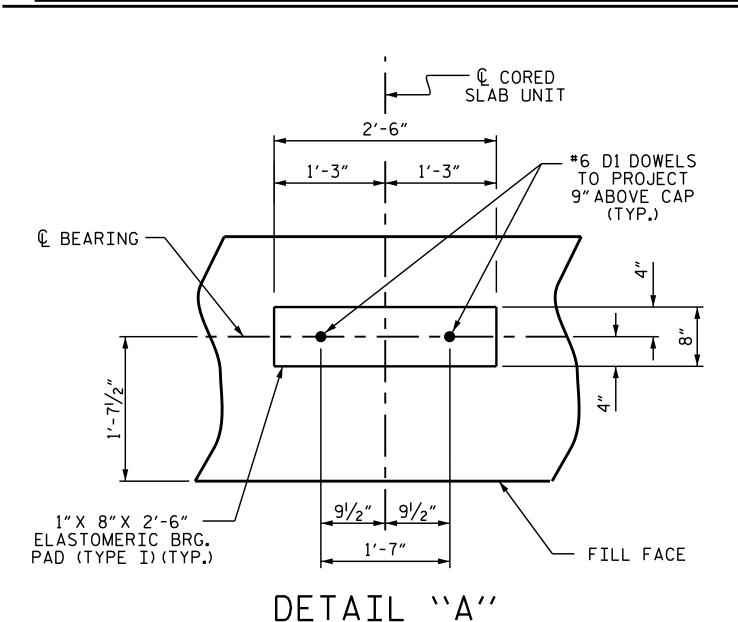


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

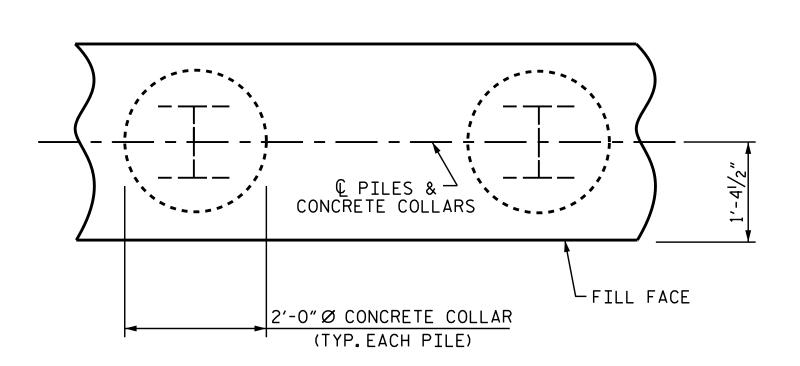
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETER-MINES THAT THEY HAVE DETERIORATED AND LOST THEIR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



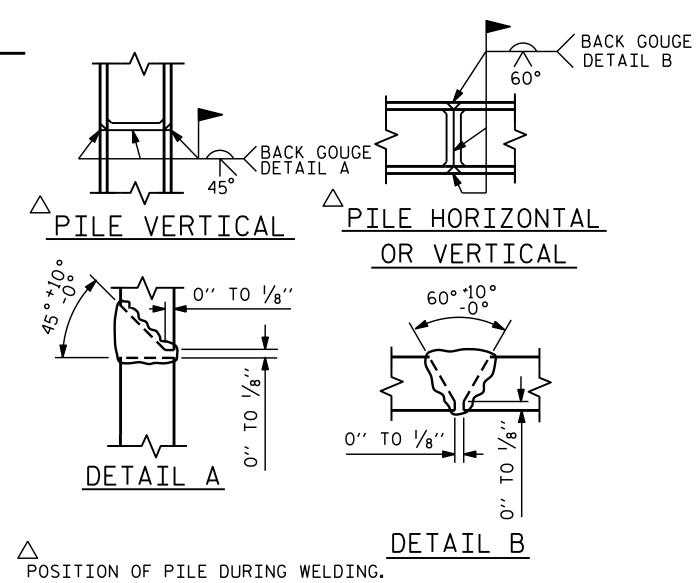
(END BENT No. 1 SHOWN, END BENT No. 2 SIMILAR BY ROTATION)



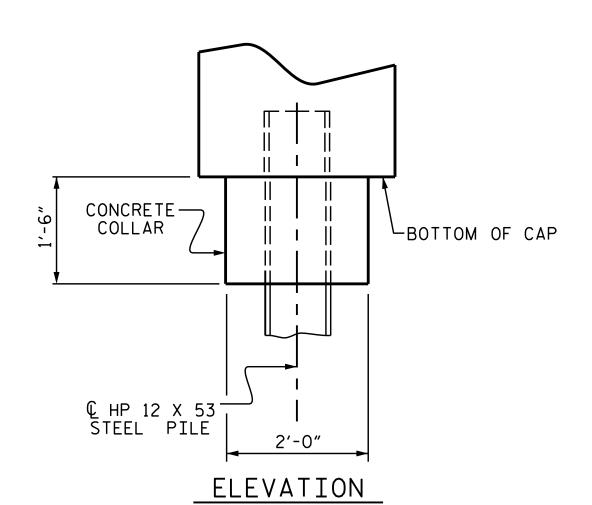
PLAN

CORROSION PROTECTION FOR STEEL PILES DETAIL (END BENT No. 1 SHOWN, END BENT No. 2 SIMILAR BY ROTATION)

ASSEMBLED BY : A. GODFREY DATE: 10/2017 CHECKED BY : KOUCHEKI DATE: 12/2017 DRAWN BY: WJH 12/11 CHECKED BY : AAC 12/11



PILE SPLICE DETAILS



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

B2 B2 28 #4 | STR | 20'-7" 385 28 #4 | STR | 20'-7" 385 #4 | STR | 2'-5" 10 #4 | STR | 2'-5" 16 B3 | 10 16 D1 | 22 | #6 | STR | 1'-6" D1 | 22 | #6 | STR | 1'-6" 50 50 H1 | 40 | #4 | 2 | 9'-4" 40 | #4 | 2 | 9′-4″ 249 249 K1 | 16 | #4 | STR | 2'-11" 31 K1 | 16 | #4 | STR | 2'-11" 31 S1 | 50 | **#**4 | 3 | 10'-5" 348 S1 | 50 | #4 | 3 | 10'-5" 348 S2 50 106 #4 50 #4 | 4 | 3′-2" 4 | 3'-2" 106 S3 | 28 | #4 | #4 | 5 122 S3 | 28 | 6′-6″ 6′-6" 122 V1 | 52 | #4 | STR | 6'-2" | V1 | 52 | #4 | STR | 6'-2" 214 REINFORCING STEEL REINFORCING STEEL 2636 LBS. (FOR ONE END BENT) 2636 LBS. (FOR ONE END BENT) CLASS A CONCRETE BREAKDOWN CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT) (FOR ONE END BENT) POUR #1 CAP.LOWER PART 19.5 C.Y. POUR #1 CAP, LOWER PART 19.5 C.Y. OF WINGS & COLLARS OF WINGS & COLLARS POUR #2 UPPER PART OF 2.3 C.Y. POUR #2 UPPER PART OF 2.1 C.Y. WINGS WINGS 21.8 C.Y. TOTAL CLASS A CONCRETE TOTAL CLASS A CONCRETE 21.6 C.Y. END BENT 1 END BENT 2 HP 12 X 53 STEEL PILES HP 12 X 53 STEEL PILES LIN. FT.= 405 LIN. FT.= 405 NO: 7 PILE DRIVING EQUIPMENT PILE DRIVING EQUIPMENT SETUP FOR SETUP FOR HP 12 X 53 STEEL PILES HP 12 X 53 STEEL PILES

1115

B1 |

8

BILL OF MATERIAL

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

#9

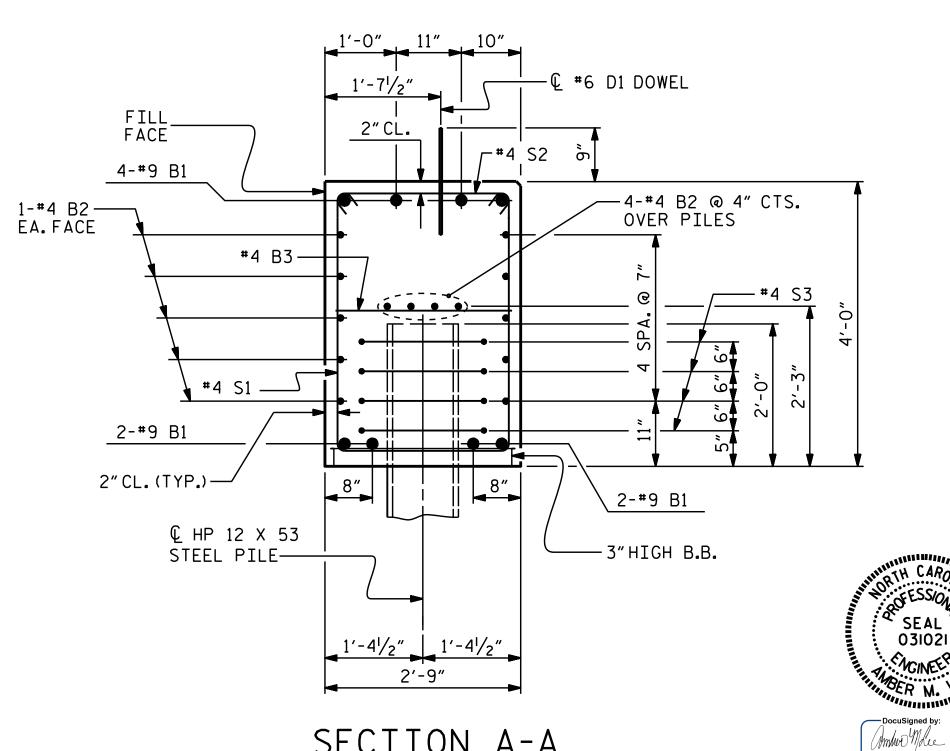
FOR END BENT 2

1 | 41'-0"

BILL OF MATERIAL

FOR END BENT

BAR | NO. | SIZE | TYPE | LENGTH | WEIGHT | **#**9 | 1 | 41'-0"



1'-8" Ø

BAR TYPES

8'-8"

2'-5"

ALL BAR DIMENSIONS ARE OUT TO OUT.

B-5407 PROJECT NO. POLK COUNTY STATION: 13+52.00 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

SUBSTRUCTURE

END BENT 1 & 2 DETAILS

D04D3A4F2FAD404							
3/6/2018	REVISIONS						SHEET NO.
DOCUMENT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	S-19
FINAL UNLESS ALL	1			3			TOTAL SHEETS
SIGNATURES COMPLETED	2			4			24

DOCUM