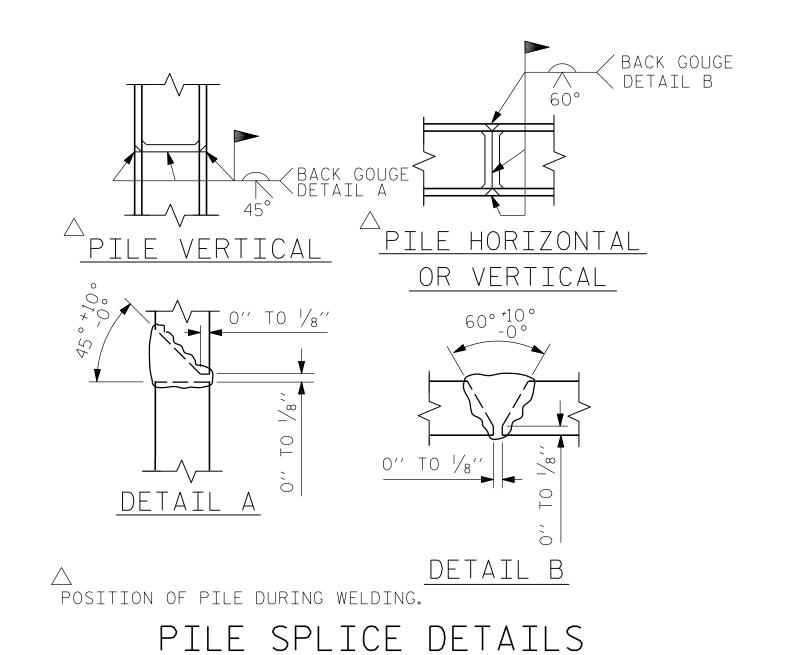


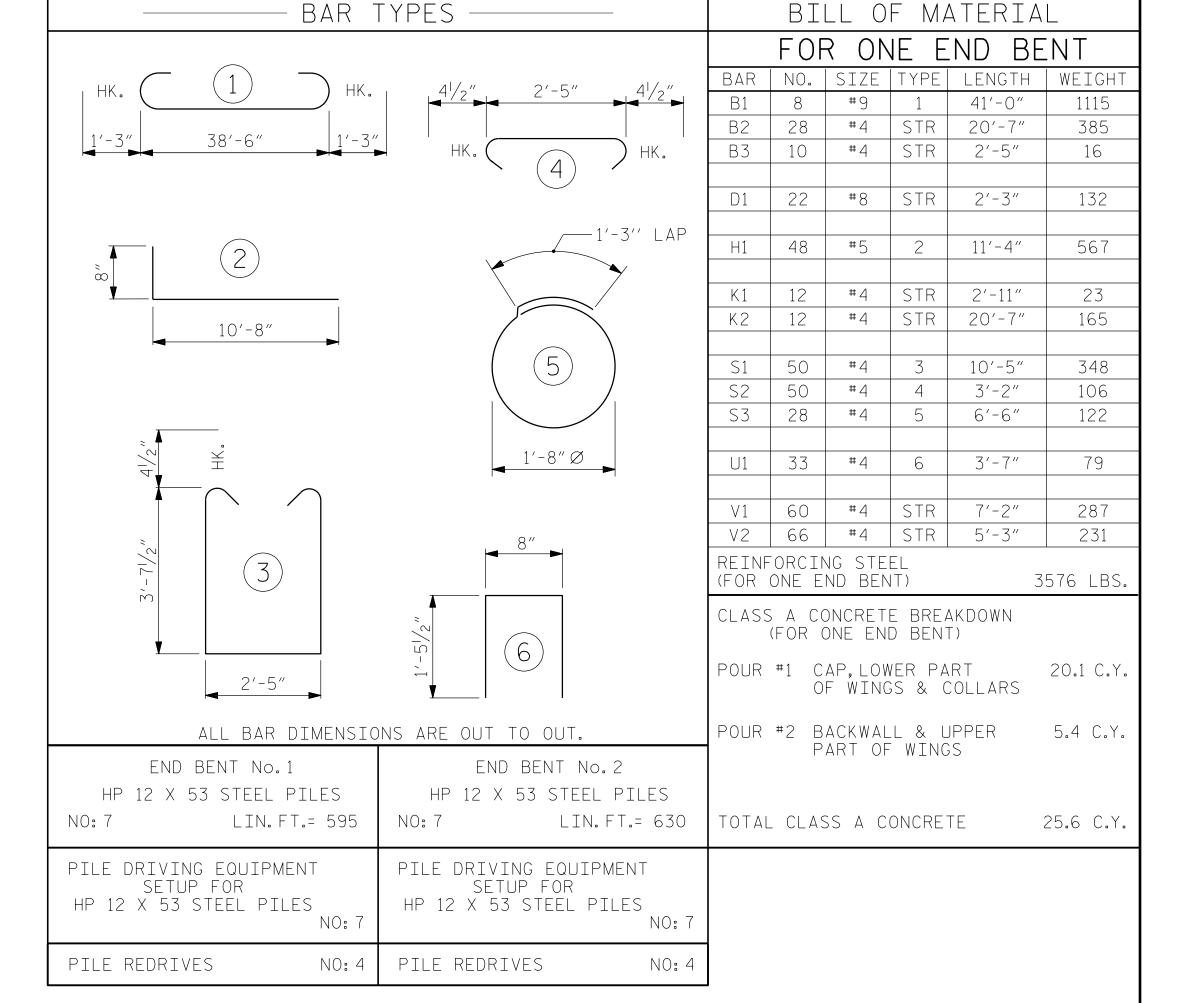
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

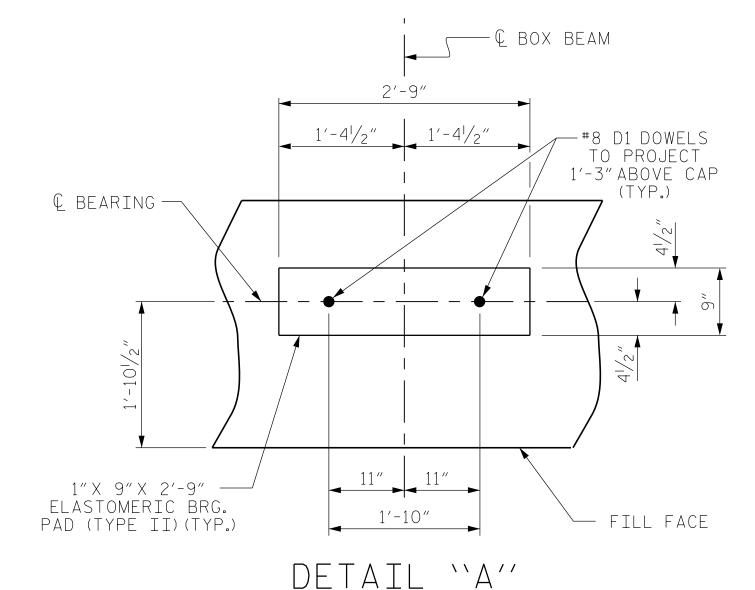
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETER-MINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

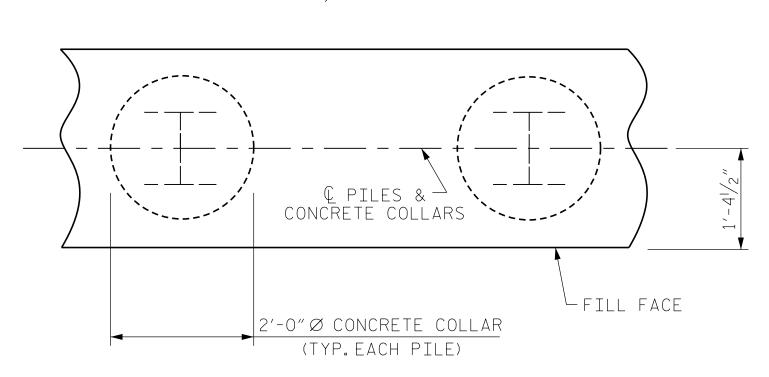
TEMPORARY DRAINAGE AT END BENT







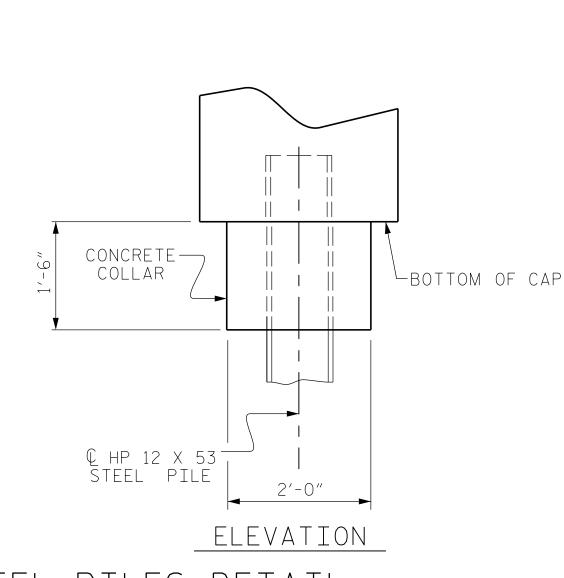
(END BENT No. 1 SHOWN, END BENT No. 2 SIMILAR BY ROTATION)



PLAN

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

DESIGN ENGINEER OF RECORD:	
ASSEMBLED BY: FIDEL L.FLORES 12/2019 CHECKED BY: DIEGO A.AGUIRRE 12/2019	
DRAWN BY: WJH 12/II CHECKED BY: AAC 12/II	REV. 4/17 MAA/THC



V CONST. JT.r#4 S2 ÷ 4-#9 B1 1-#4 B2 — EA.FACE FILL FACE— #4 B3-BOTTOM OF CAP #4 S1----2-#9 B1 2"CL.(TYP.)— © HP 12 X 53 STEEL PILE—— 1'-4\/2" 1'-4\/2"

1-#4 K2 — EA.FACE

SECTION A-A

1'-101/2'

2″CL.

#4 U1

-Q #8 D1 DOWEL

-4-#4 B2 @ 4" CTS.

OVER PILES

2-#9 B1

—— 3" HIGH B.B.

_ & HP 12 X 53 STEEL BRACE PILE

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

KISINGER CAMPO & ASSOCIATES 301 FAYETTEVILLE ST., SUITE 1500 DOCUMENT NOT CONSIDERED RALEIGH, NC 27601 (919) 882-7839 NC FIRM LICENSE: C-1506

SEAL 043777

BR-0119 PROJECT NO. _ COUNTY STATION: 13+34.00 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

SUBSTRUCTURE

END BENT No.1 & 2 DETAILS

SHEET NO REVISIONS NO. BY: S-13 DATE: DATE: BY: TOTAL SHEETS

FINAL UNLESS ALL SIGNATURES COMPLETED