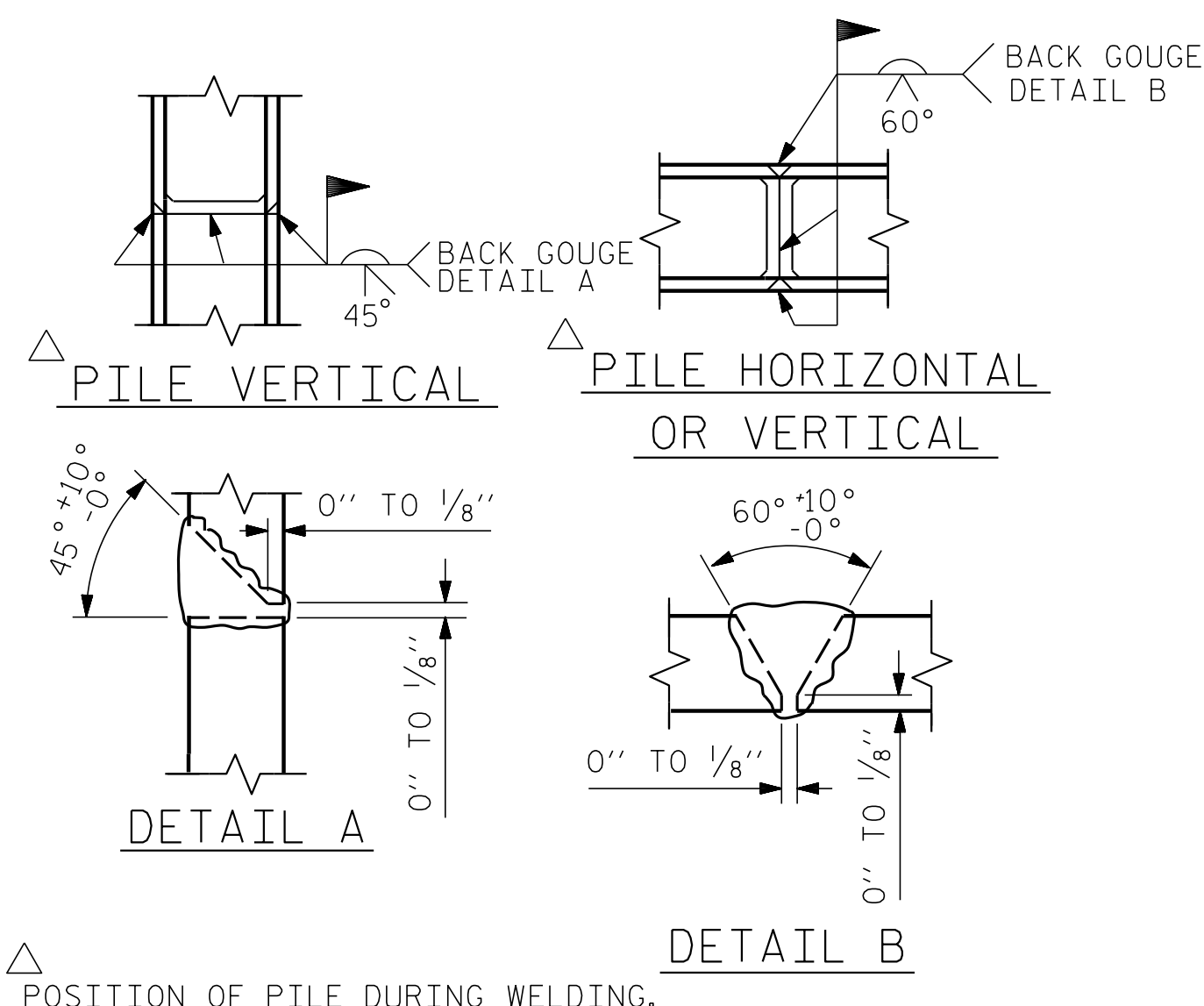


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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 DETERMINES 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

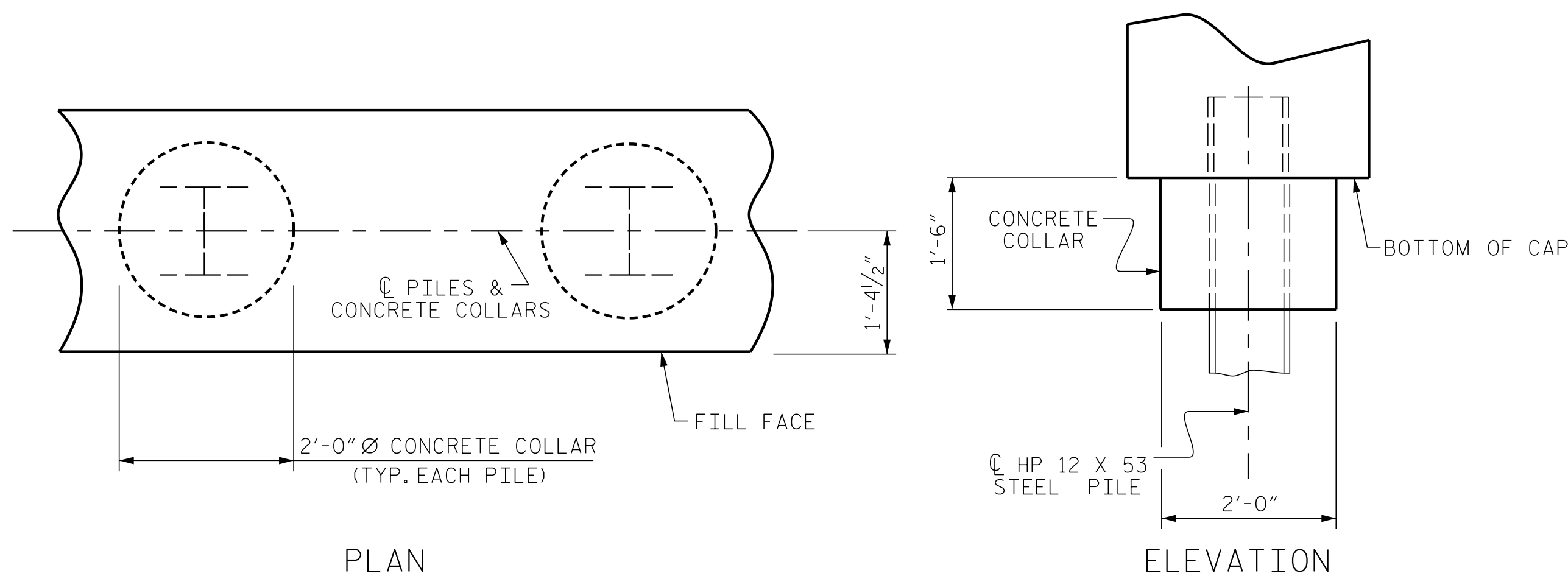


### PILE SPLICE DETAILS

BAR TYPES						BILL OF MATERIAL FOR ONE END BENT					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT							
B1	#8		41'-0"	1115							
B2	#4	STR	20'-7"	220							
B3	#4	STR	2'-5"	16							
D1	#6	STR	1'-6"	50							
H1	#4	2	7'-10"	126							
K1	#4	STR	2'-11"	23							
S1	#4	3	7'-5"	248							
S2	#4	4	3'-2"	106							
S3	#4	5	6'-6"	61							
V1	#4	STR	4'-8"	150							
REINFORCING STEEL (FOR ONE END BENT) 2115 LBS.											
CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT)											
POUR #1 CAP, LOWER PART OF WINGS & COLLARS				12.4 C.Y.							
POUR #2 UPPER PART OF WINGS				1.8 C.Y.							
TOTAL CLASS A CONCRETE				14.2 C.Y.							

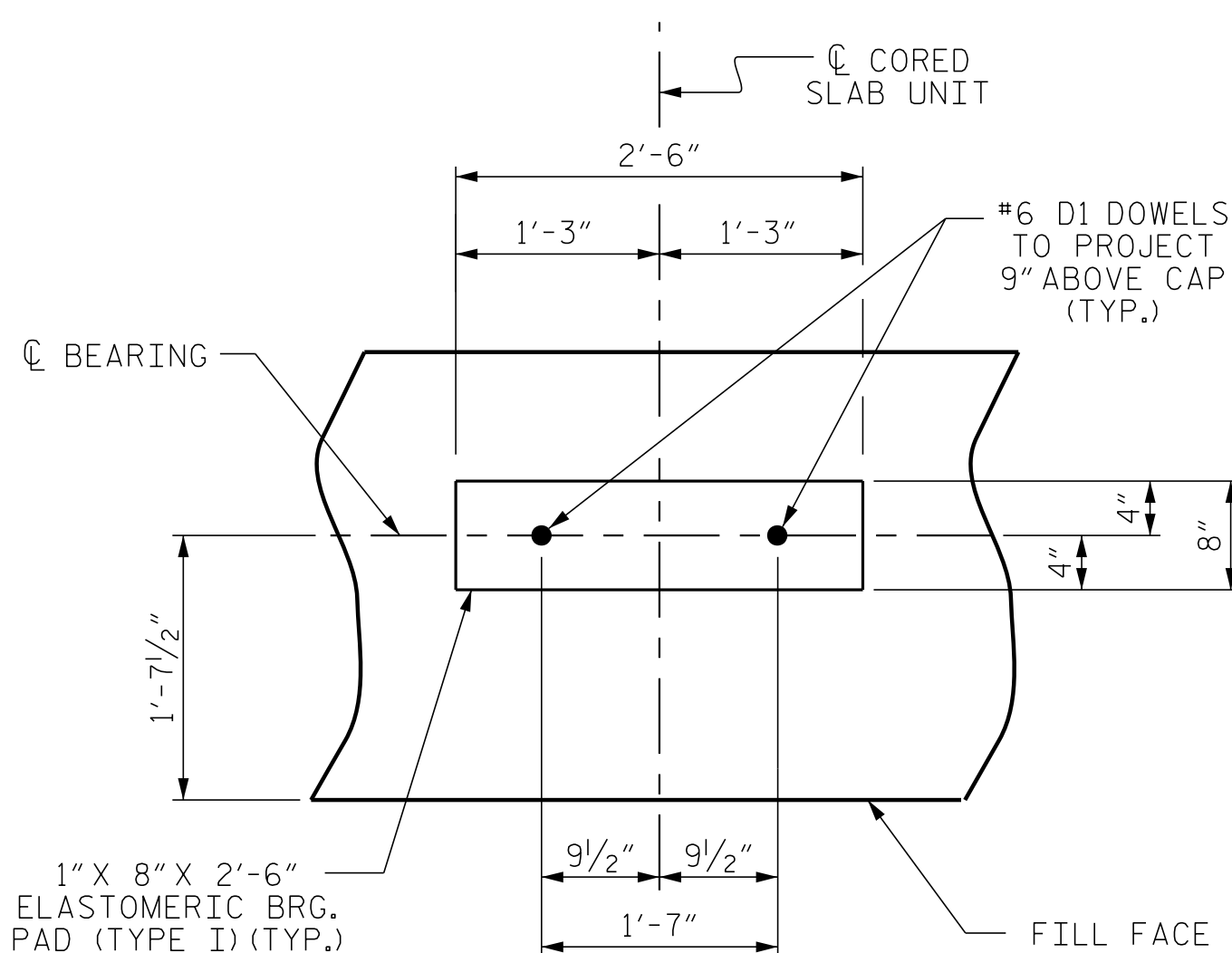
  

END BENT No. 1		END BENT No. 2	
HP 12 X 53 STEEL PILES NO: 7 LIN. FT. = 385	HP 12 X 53 STEEL PILES NO: 7 LIN. FT. = 350	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO: 7	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES NO: 7
PILE REDRIVES NO: 4	PILE REDRIVES NO: 4		

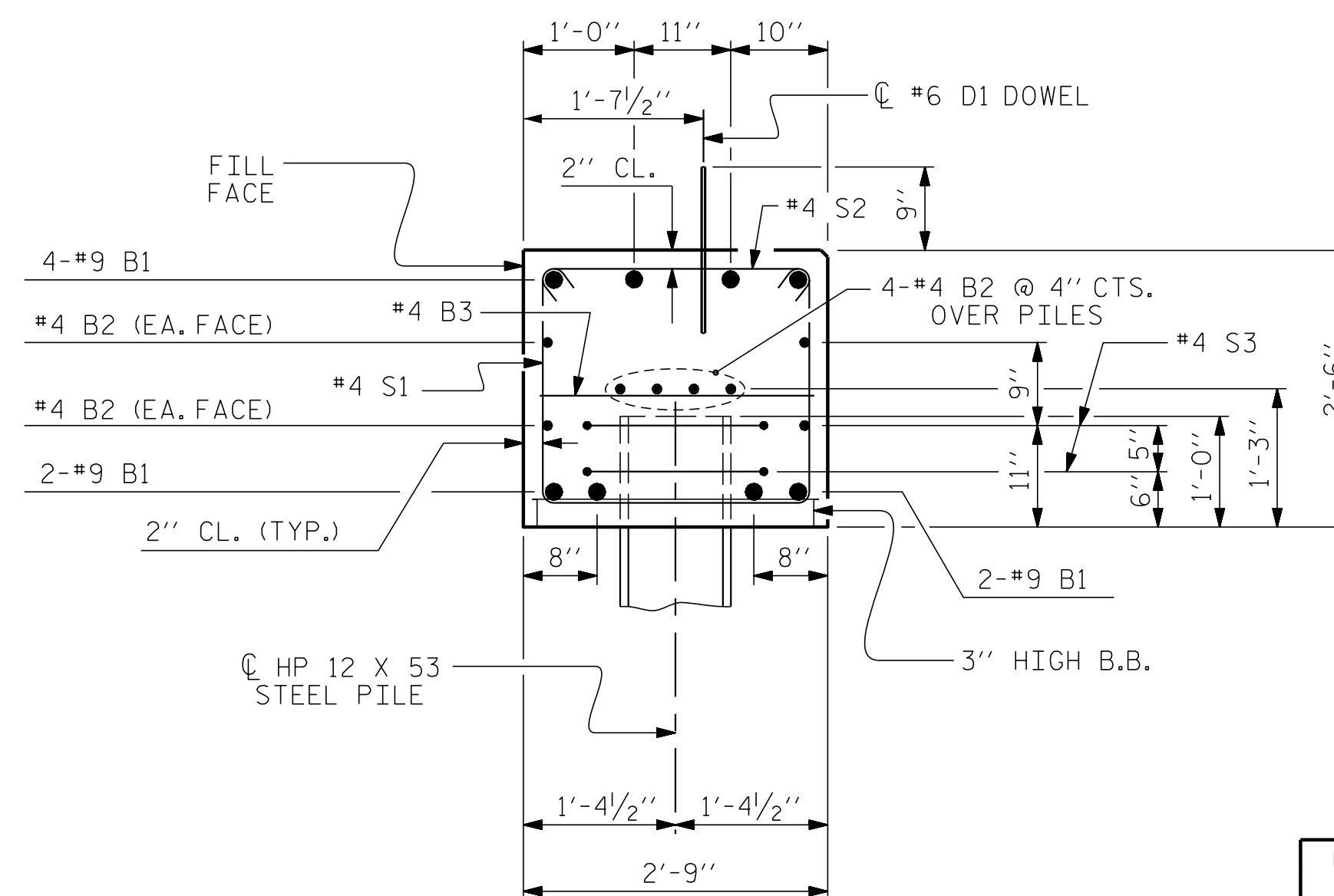


### CORROSION PROTECTION FOR STEEL PILES DETAIL

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



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



PROJECT NO. BR-0111  
 EDGECOMBE COUNTY  
 STATION: 35+90.50 -L-

SHEET 4 OF 4

ENGINEER OF RECORD  
 2/20/2020  
  
 JOHN ARTHUR DILWORTH  
 ENGINEER  
 WETHERILL ENGINEERING  
 1223 Jones Franklin Rd.  
 Raleigh, N.C. 27606  
 Bus: 919 851 8077  
 Fax: 919 851 8107  
 LICENSE NO. F-0377

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 END BENT No. 1 & 2  
 DETAILS

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.  
 S03-11  
 TOTAL SHEETS  
 17

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

STD. NO. EB-33-90S

P:\2019\1910401 BR-0111\Structures\DNBR\IDG 3\BR0111\_BR#3\_STR\_EB.dgn  
 12/19/2019 2:21:08 PM

ASSEMBLED BY : J. PENDERGRAFT DATE : 6-19  
 CHECKED BY : J. DILWORTH DATE : 8-19  
 DRAWN BY : DGE 12/09  
 CHECKED BY : MKT 01/10  
 REV. 4/17 MAA/THC