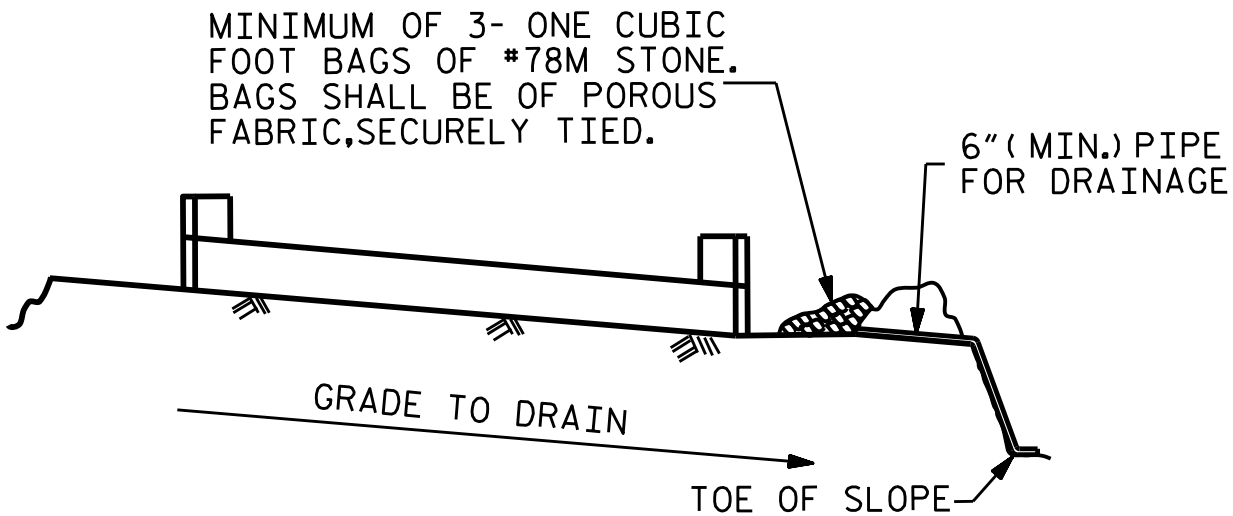


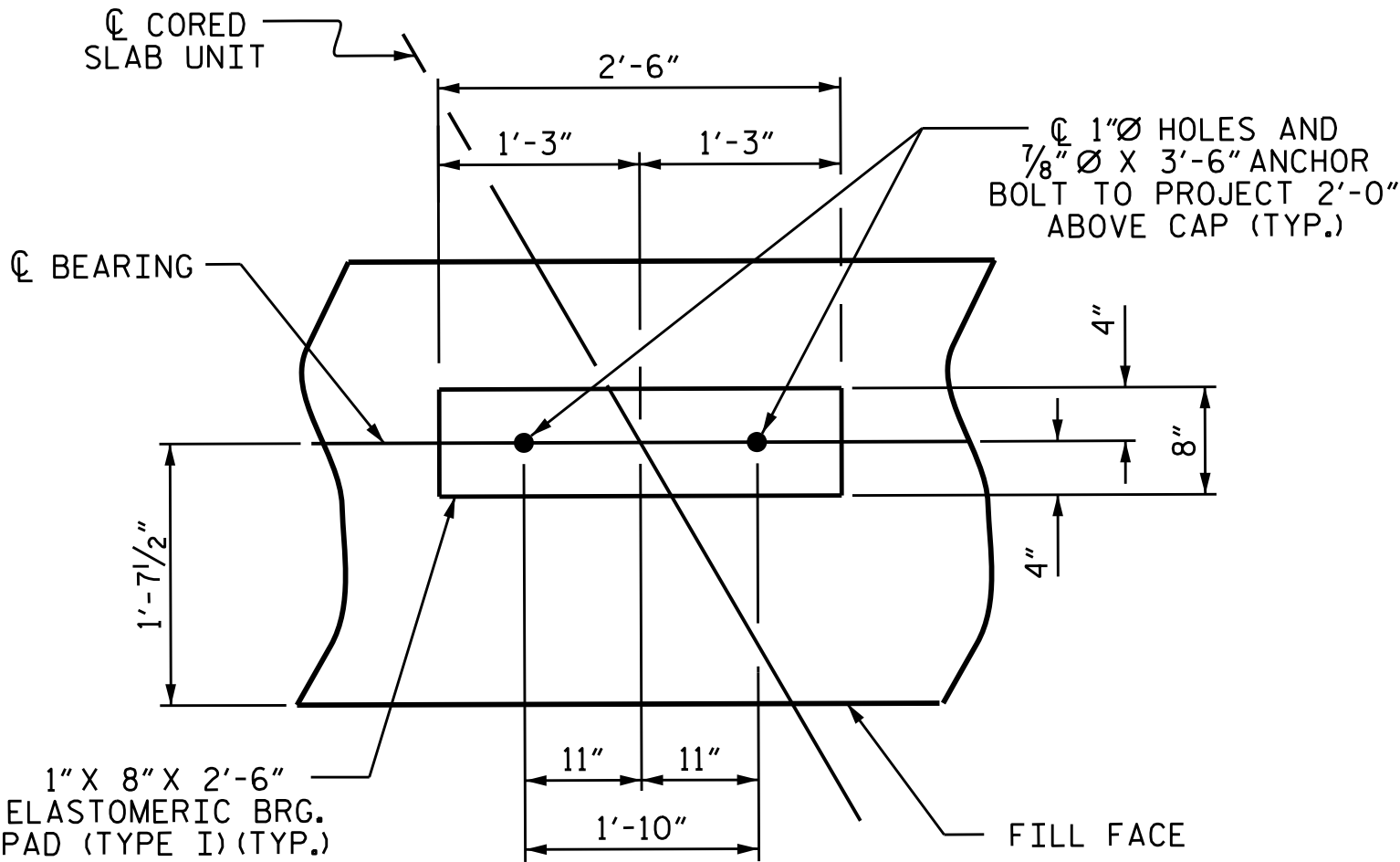


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

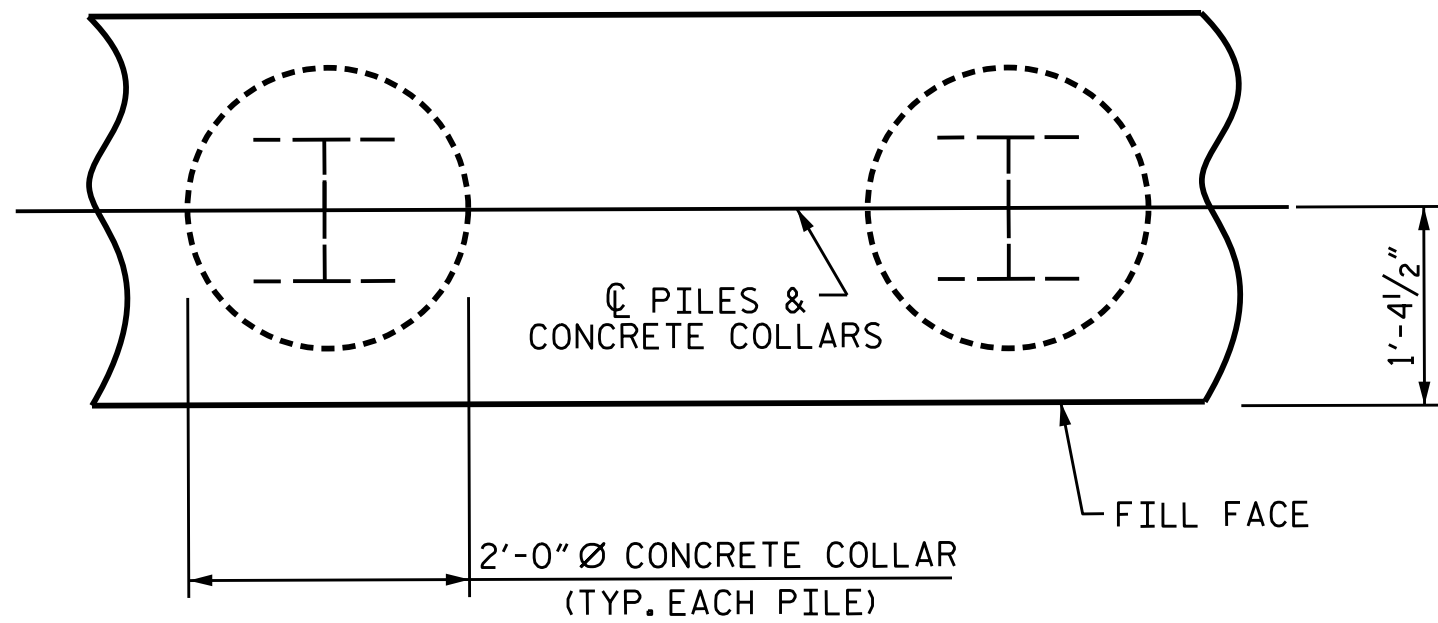
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT

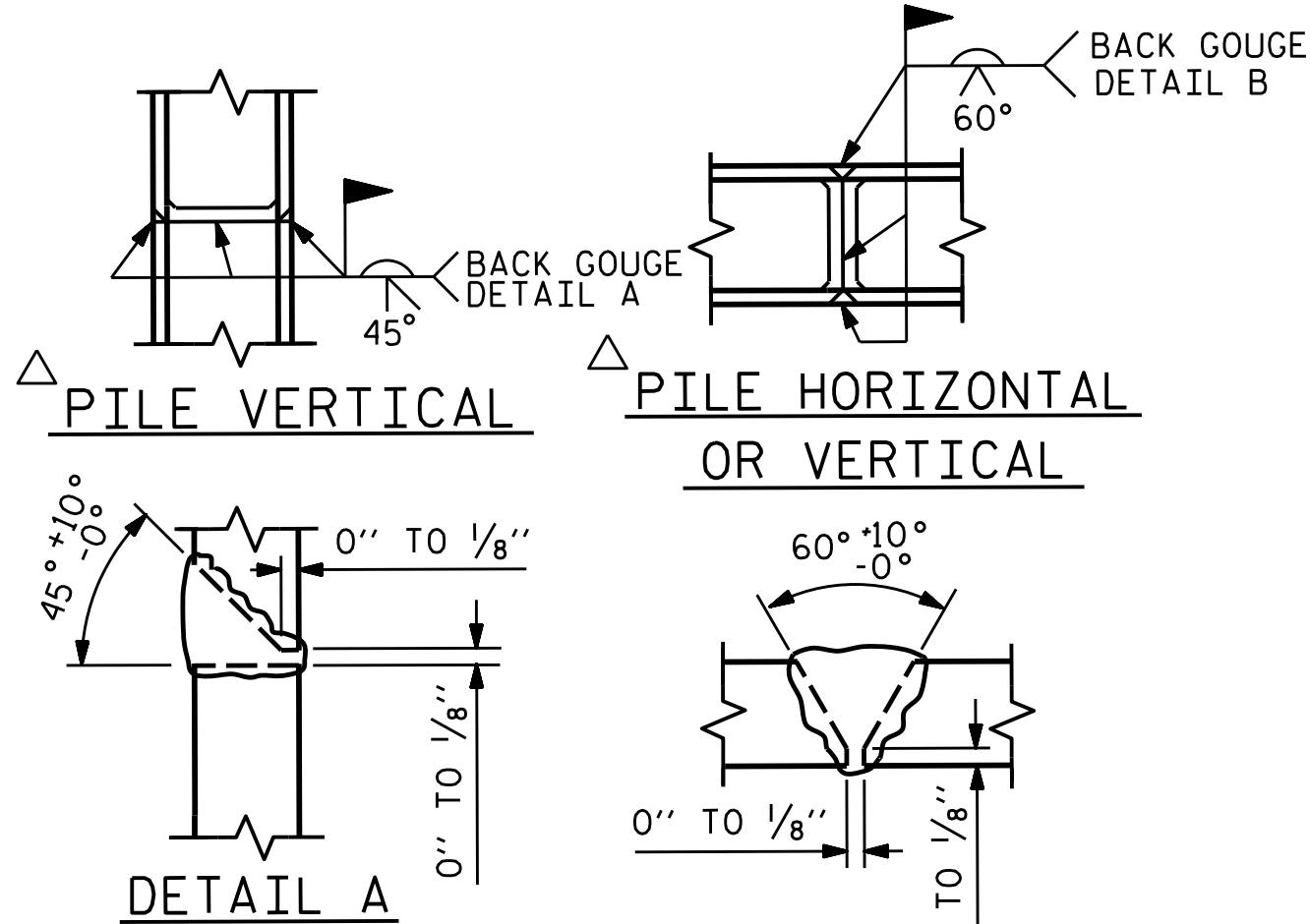


DETAIL "A"

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

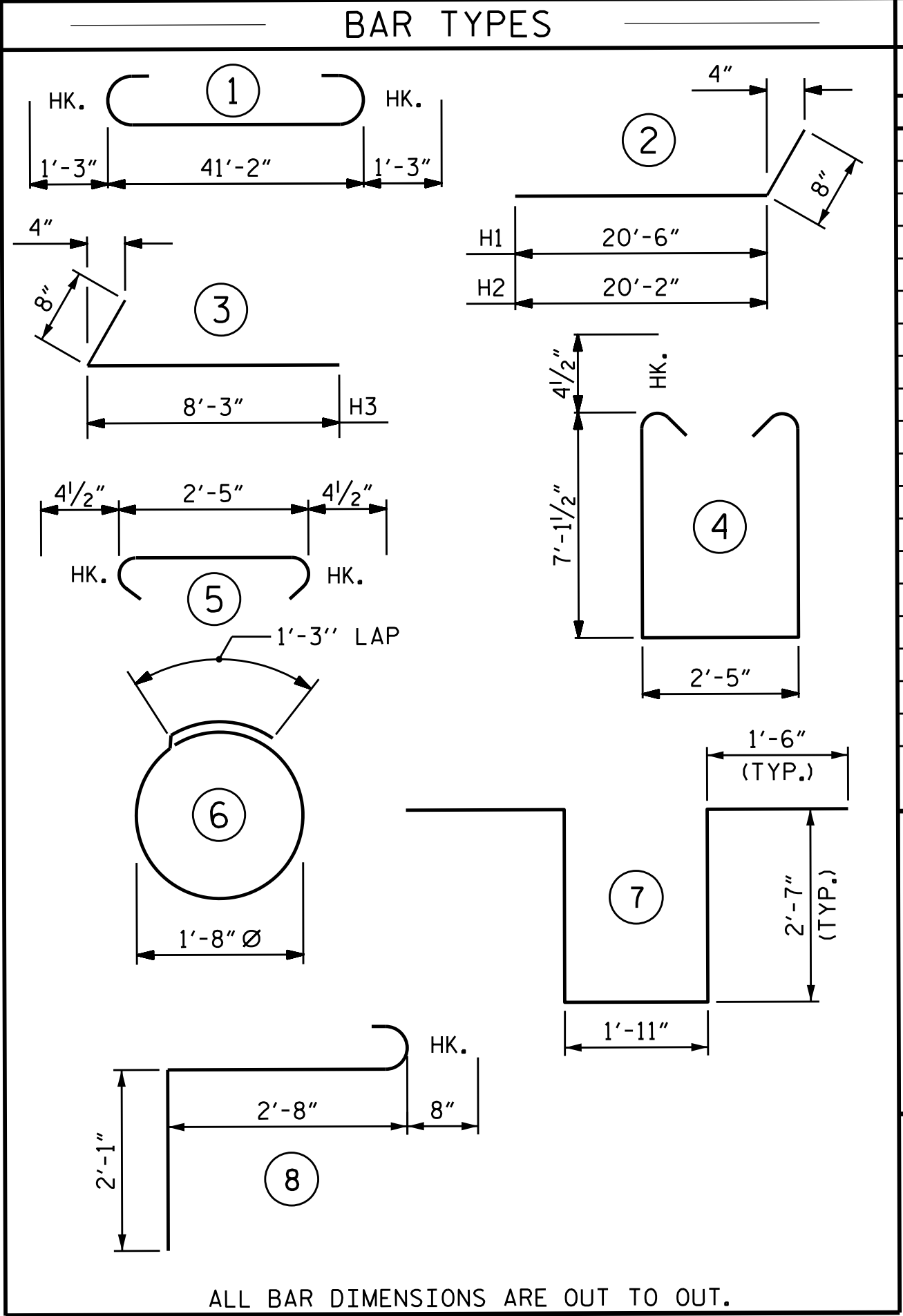


PLAN



POSITION OF PILE DURING WELDING.

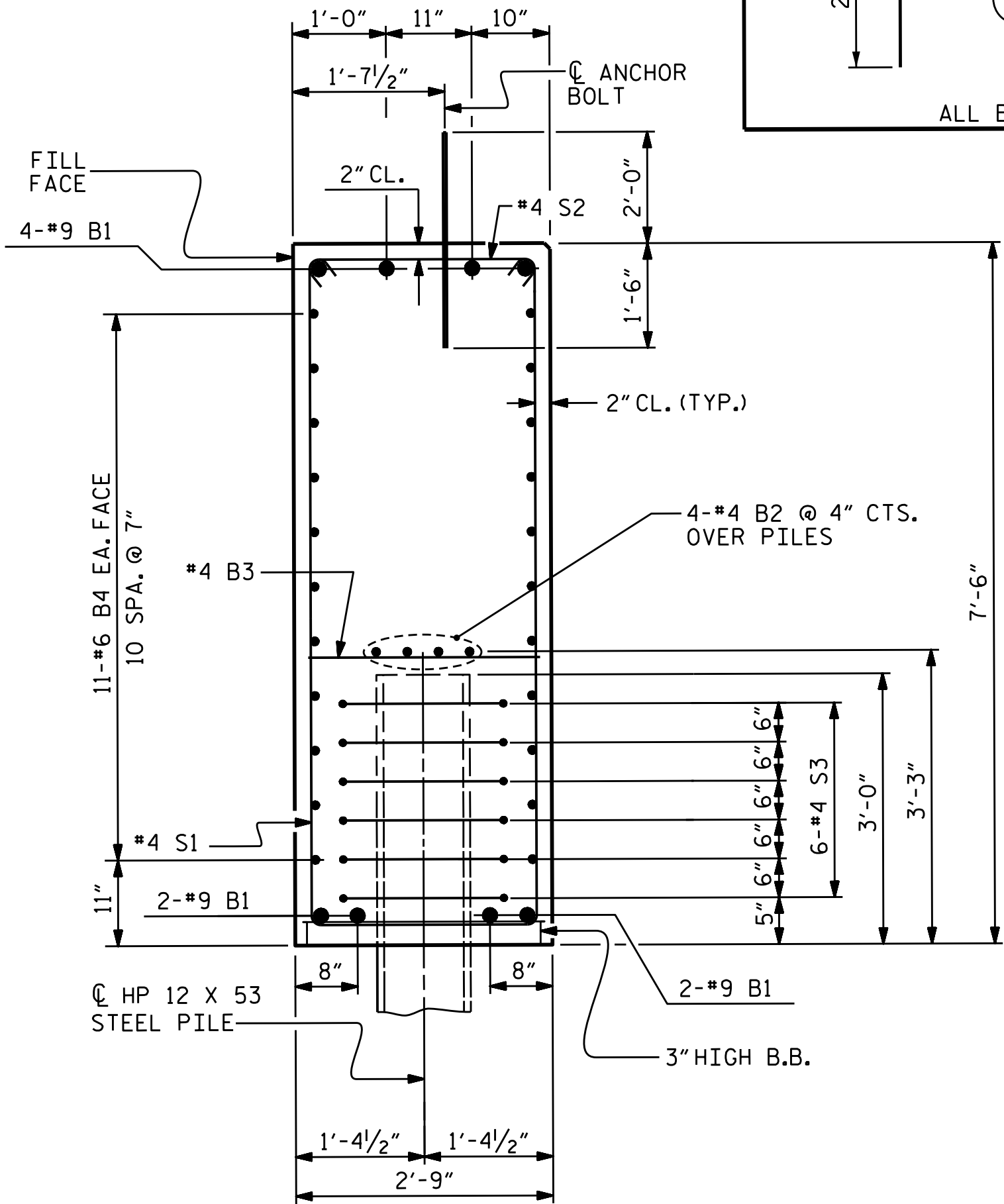
PILE SPLICE DETAILS



BILL OF MATERIAL

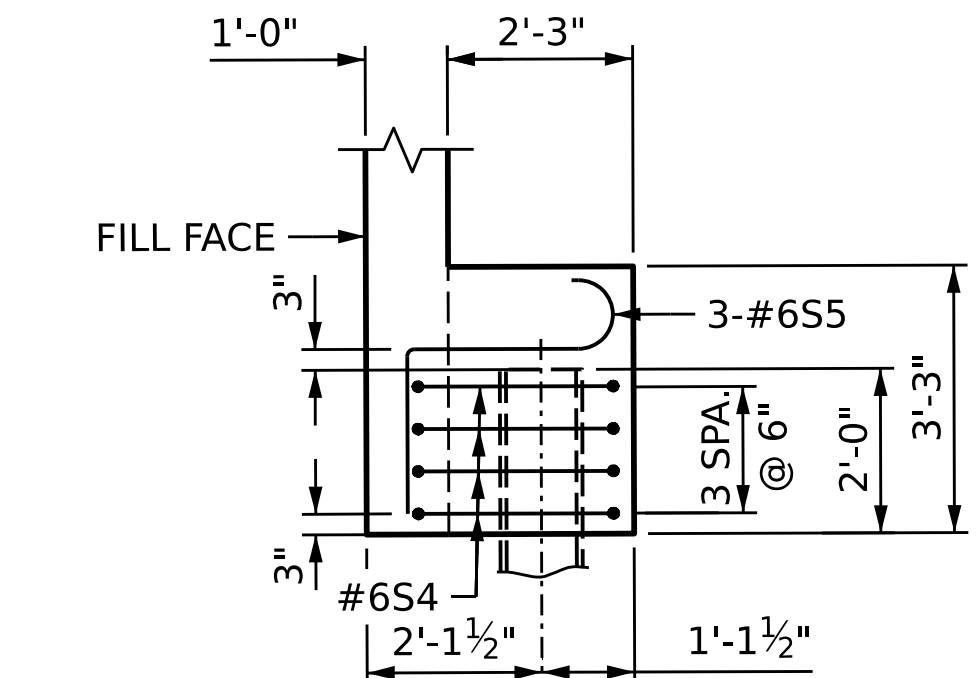
END BENT 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	43'-8"	1188
B2	8	#4	STR	21'-11"	117
B3	11	#4	STR	2'-5"	18
B4	44	#6	STR	22'-6"	1487
H1	15	#4	2	21'-2"	212
H2	15	#4	2	20'-10"	209
H3	42	#6	3	8'-11"	562
K1	20	#4	STR	3'-3"	43
S1	54	#4	4	17'-5"	628
S2	54	#4	5	3'-2"	114
S3	30	#4	6	6'-6"	130
S4	4	#6	7	10'-1"	61
S5	3	#6	8	5'-5"	24
V1	77	#5	STR	9'-10"	790

REINFORCING STEEL (FOR ONE END BENT)		5583 LBS.
CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT)		
POUR #1	CAP, LOWER PART OF WINGS & COLLARS	41.0 C.Y.
POUR #2	UPPER PART OF WINGS	6.7 C.Y.
TOTAL CLASS A CONCRETE		47.7 C.Y.



SECTION A-A

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



SECTION B-B

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

PROJECT NO. BP14-R010

CLAY COUNTY

STATION: 12+60.00 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 2
SECTION & DETAILS

REVISIONS				SHEET NO.
NO.	BY:	DATE:	NO.	
1			3	S-15
2	17		4	TOTAL SHEETS 17

DESIGNED BY: E. LAWES DATE: NOV 2023
DRAWN BY: J. WHEATLEY DATE: NOV 2023
CHECKED BY: T. KIRSCHBAUM DATE: NOV 2023
DESIGN ENGINEER OF RECORD: E. LAWES DATE: JUNE 2024



WSP USA Inc.
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SUITE 1500
RALEIGH, NC 27601
TEL: 1.919.836.4040
LICENSE NO. F-0165

