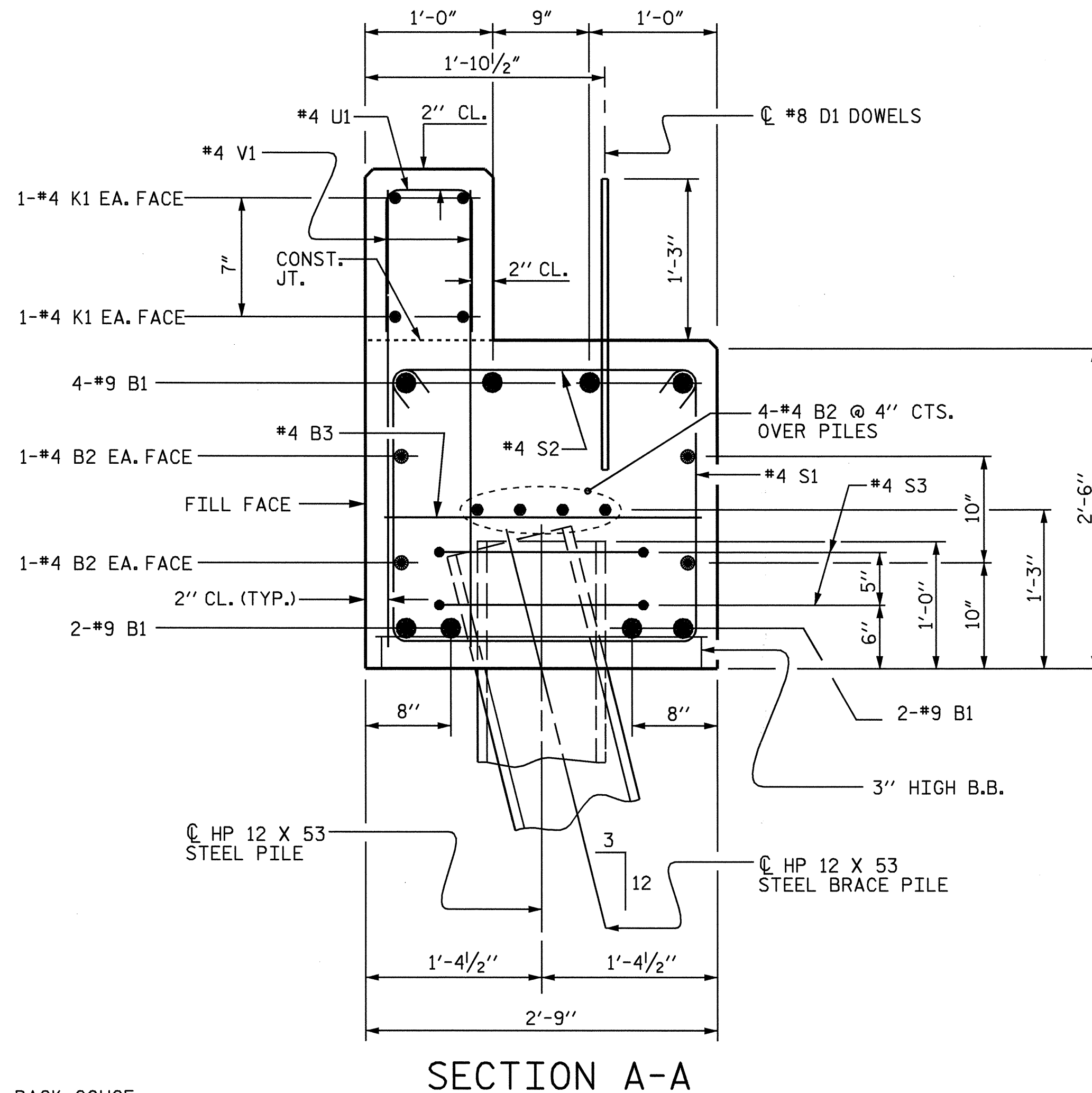


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

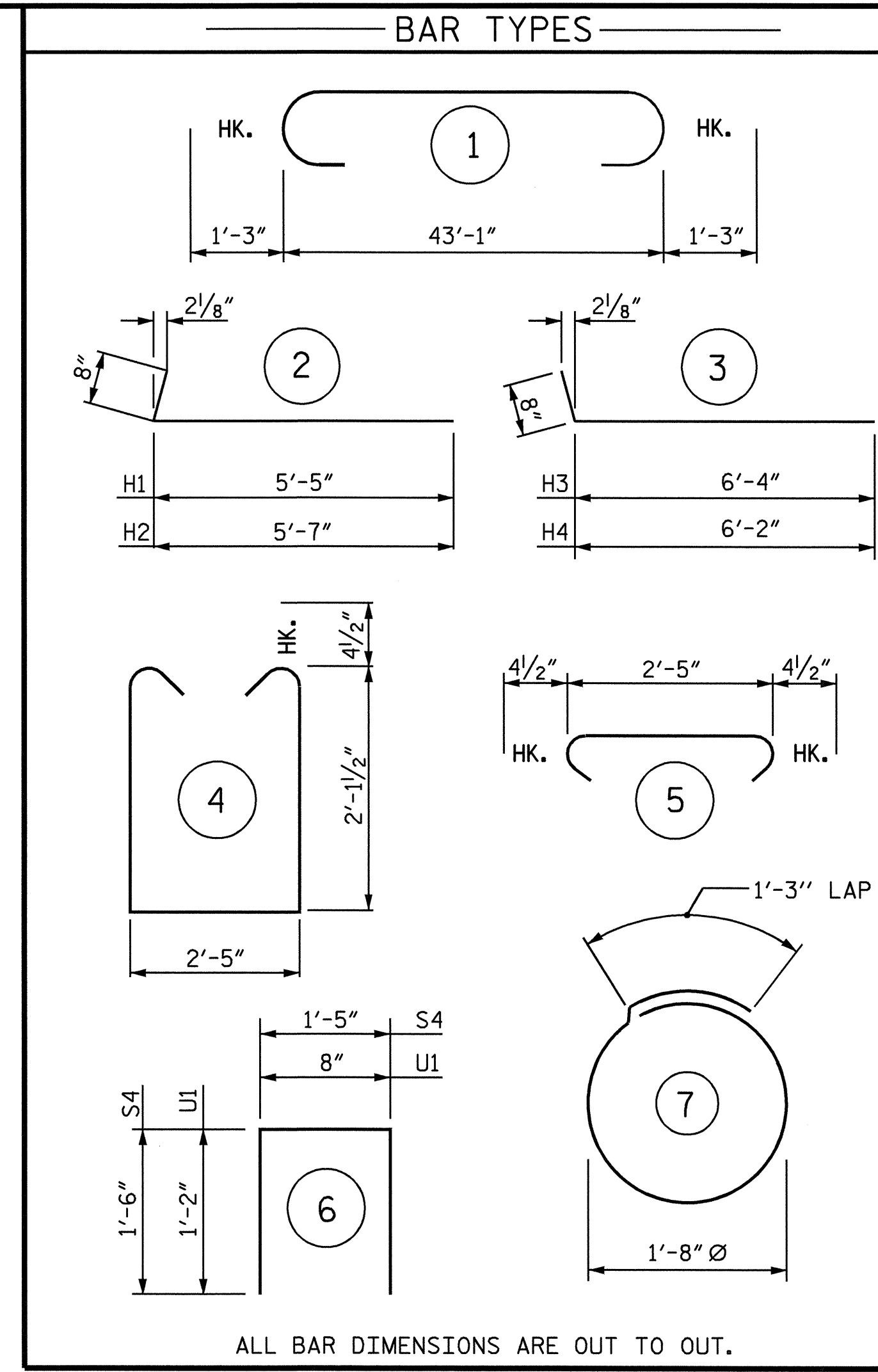
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

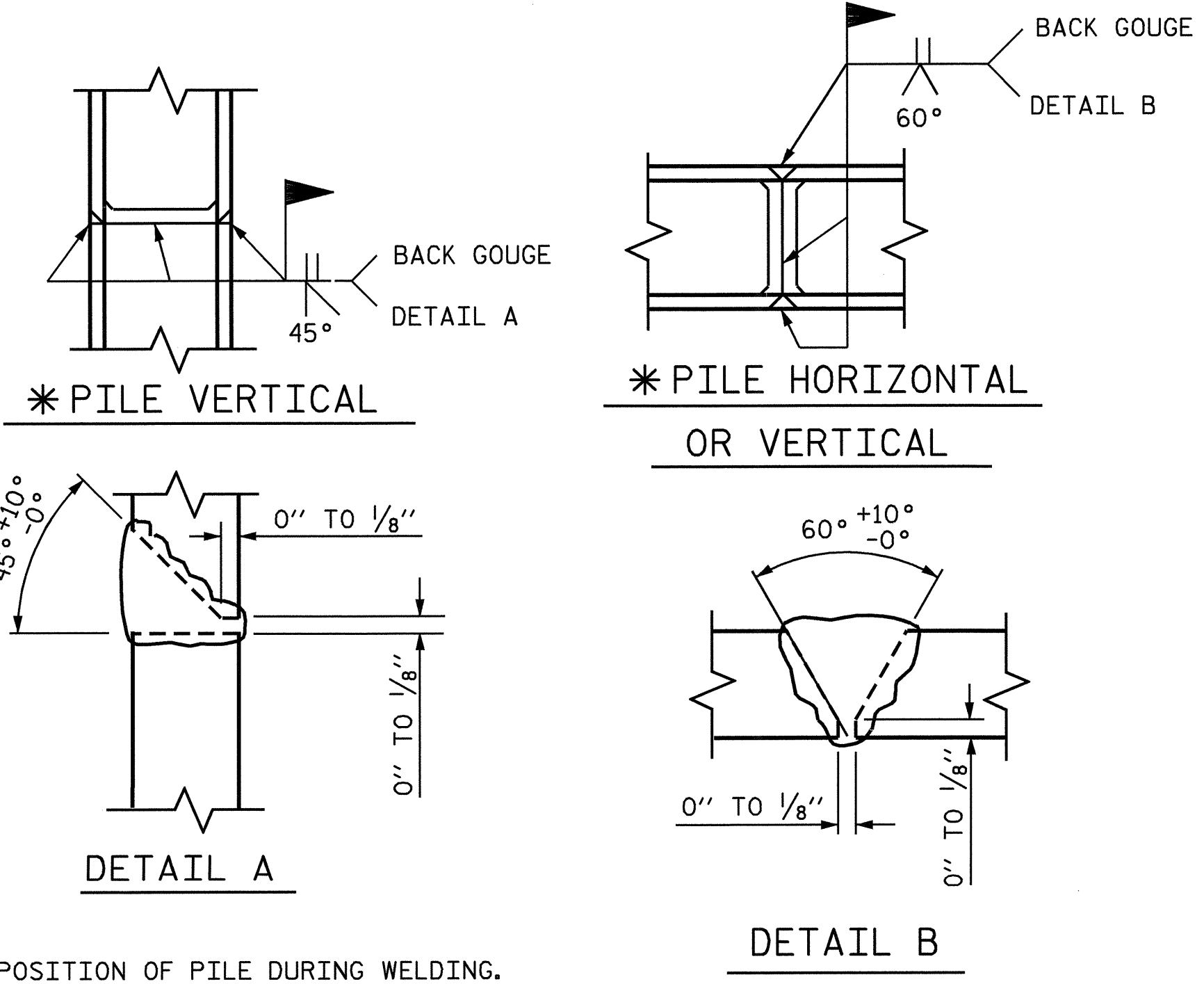


SECTION A-A



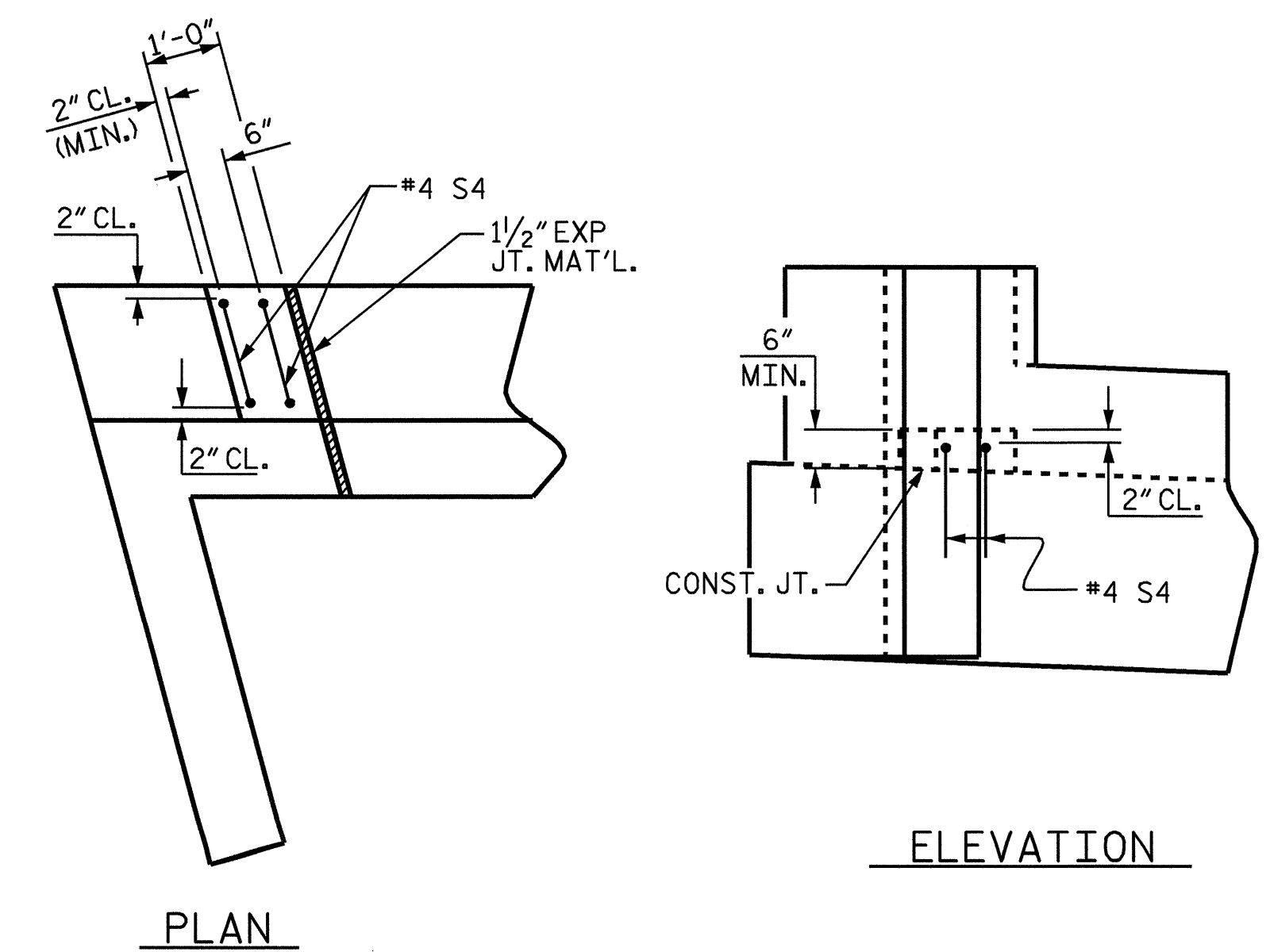
ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL						
END BENT No. 1						
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT		
B1	8	9	1	45'-7"	1240	
B2	16	4	STR	22'-10"	244	
B3	11	4	STR	2'-5"	18	
D1	24	8	STR	2'-3"	144	
H1	6	4	2	6'-1"	24	
H2	6	4	2	6'-3"	25	
H3	6	4	3	7'-0"	28	
H4	6	4	3	6'-10"	27	
K1	8	4	STR	22'-10"	122	
K2	8	4	STR	2'-7"	14	
S1	42	4	4	7'-5"	208	
S2	42	4	5	3'-2"	89	
S3	18	4	7	6'-6"	78	
S4	4	4	6	4'-5"	12	
U1	38	4	6	3'-0"	76	
V1	76	4	STR	3'-1"	157	
V2	20	4	STR	4'-8"	62	
V3	22	4	STR	5'-0"	73	
REINFORCING STEEL					LBS.	2641
CLASS A CONCRETE BREAKDOWN:						
POUR #1 - (CAP & LOWER WINGS)					12.1 C. Y.	
POUR #2 - (BACKWALL & UPPER WINGS)					3.2 C. Y.	
POUR #3 - (LATERAL GUIDES)					0.1 C. Y.	
TOTAL					15.4 C. Y.	
HP 12 X 53 STEEL PILES						
No. 9					135 LIN. FT.	



PILE SPLICE DETAILS

* POSITION OF PILE DURING WELDING.

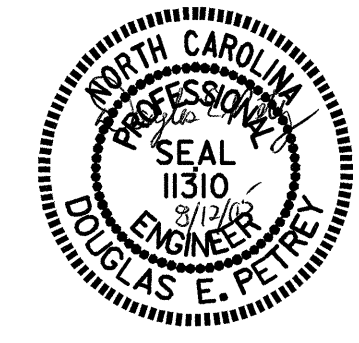


LATERAL GUIDE DETAILS

(LEFT LATERAL GUIDE SHOWN, RIGHT END SIMILAR)

PROJECT NO. B-4047
 COUNTY BURKE
 STATION: 15+30.00 -L-
 SHEET 3 OF 3

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



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			24

DRAWN BY: A. V. ROYAL DATE: 4/05
 CHECKED BY: B. N. GRADY DATE: 4/05