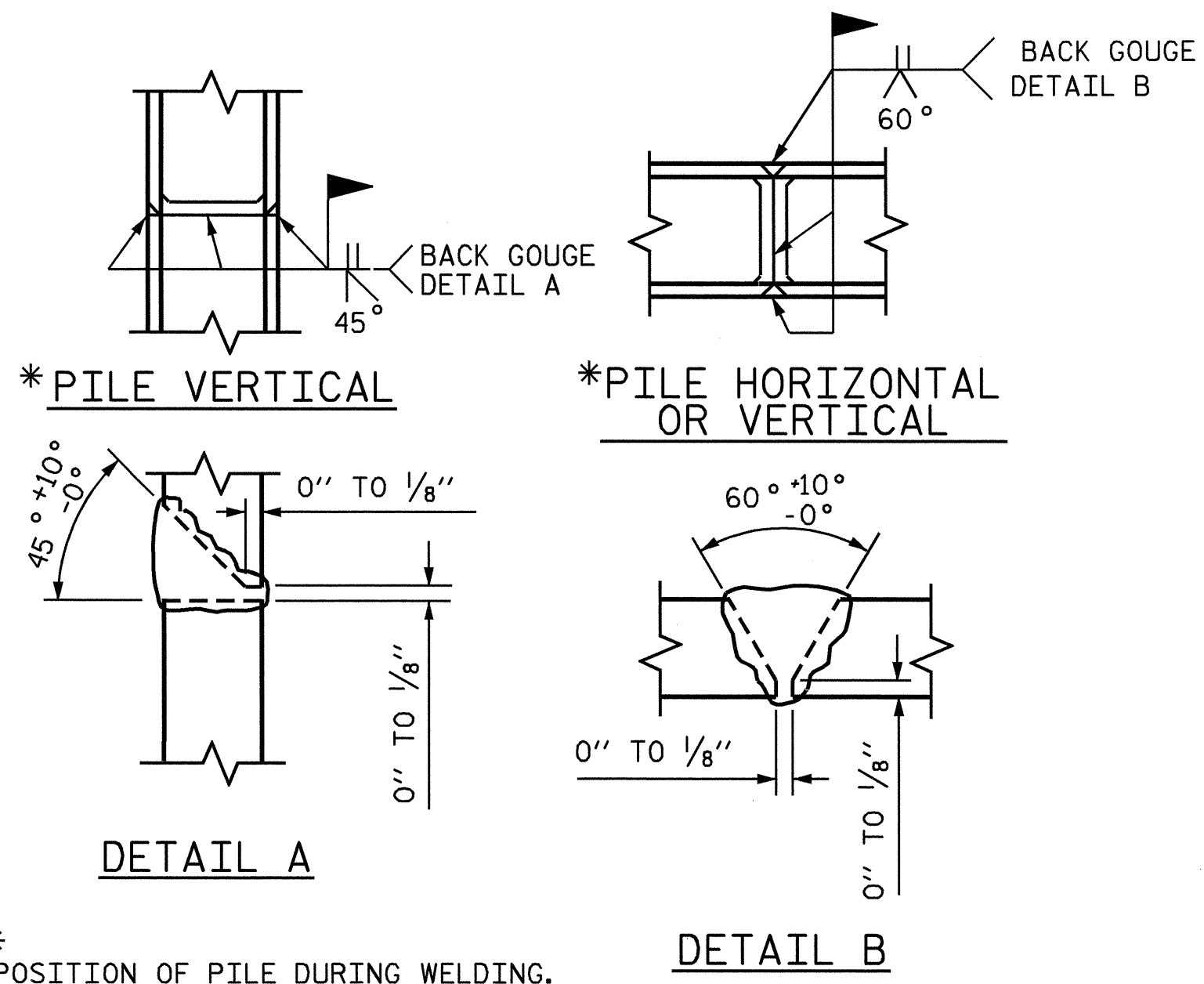


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

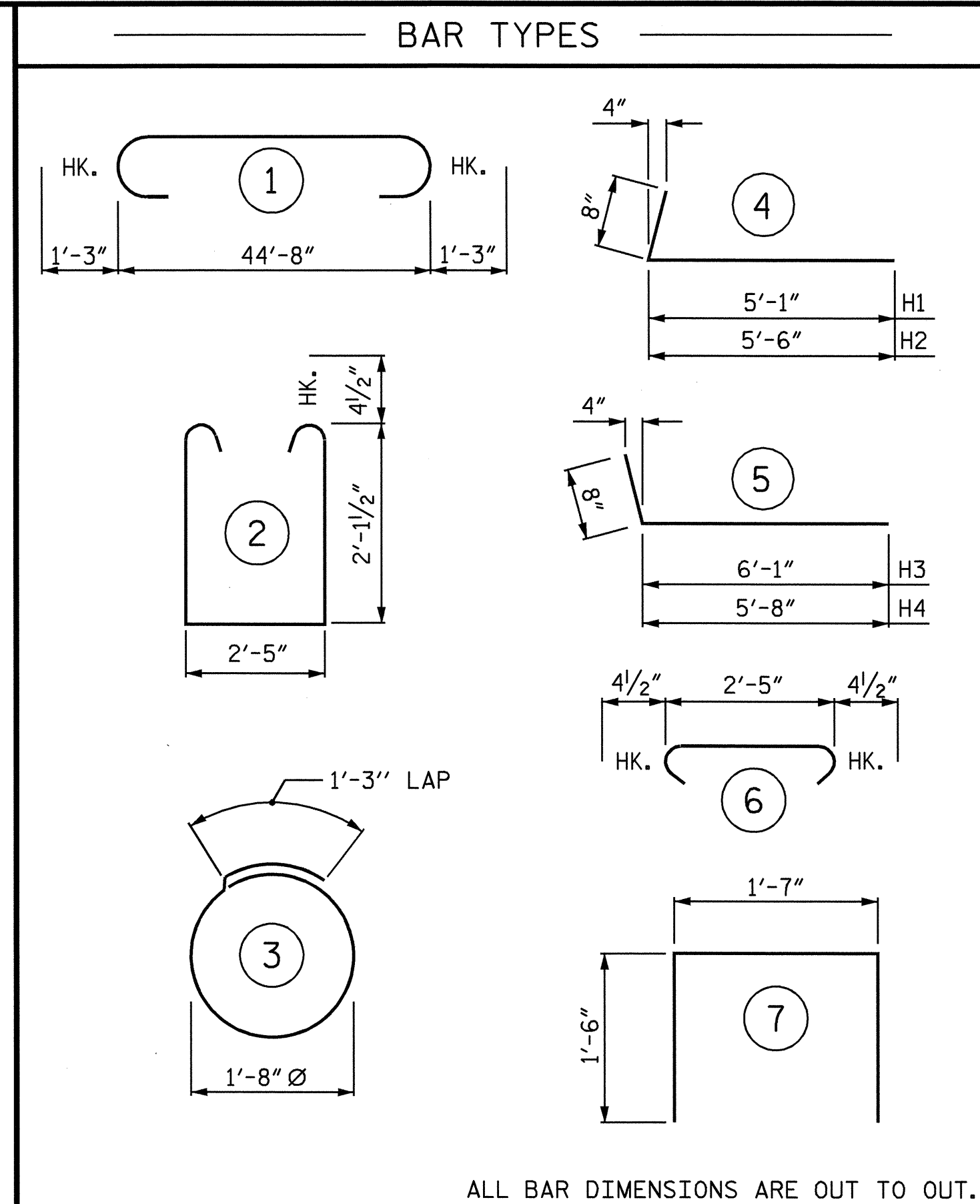
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

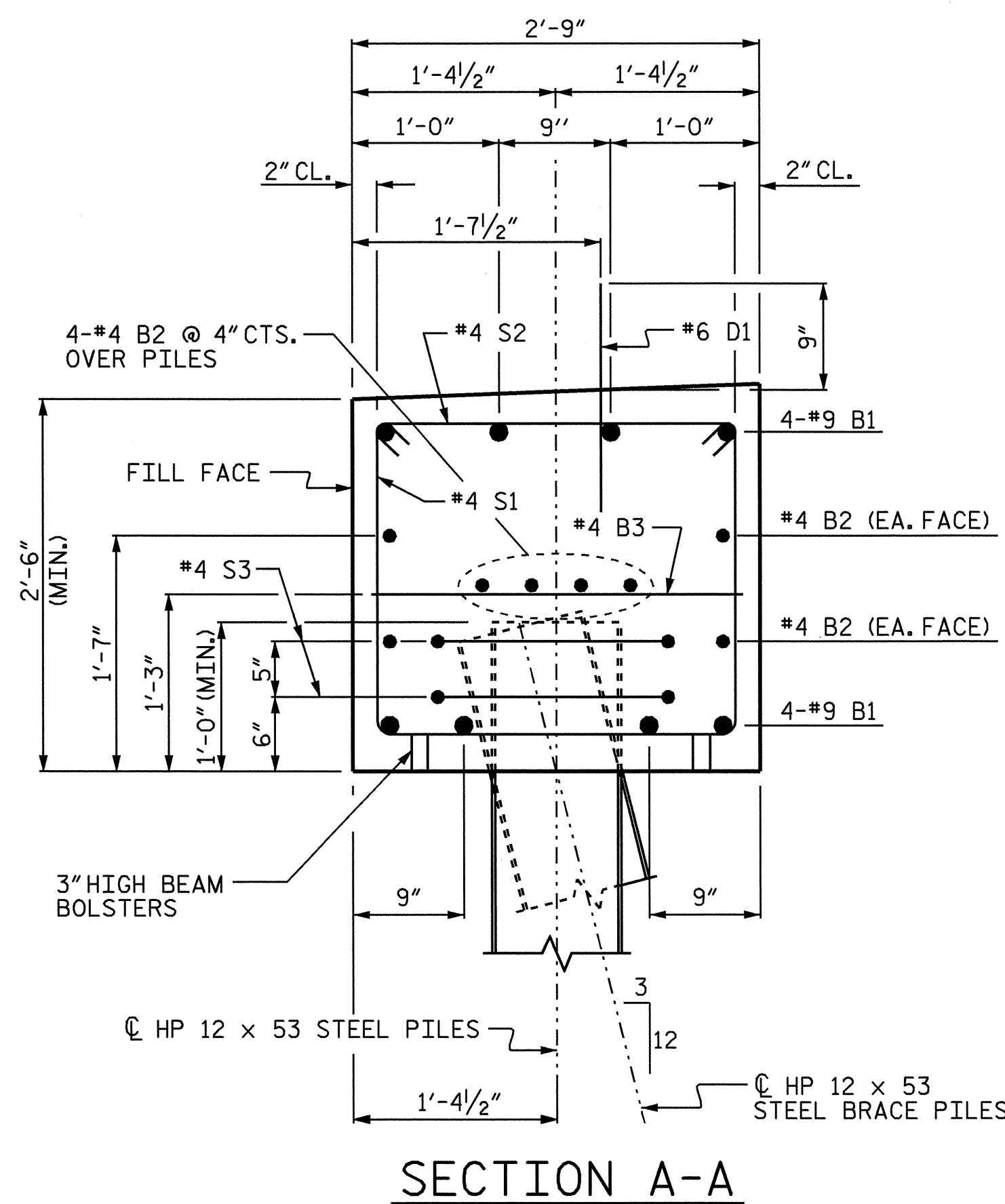
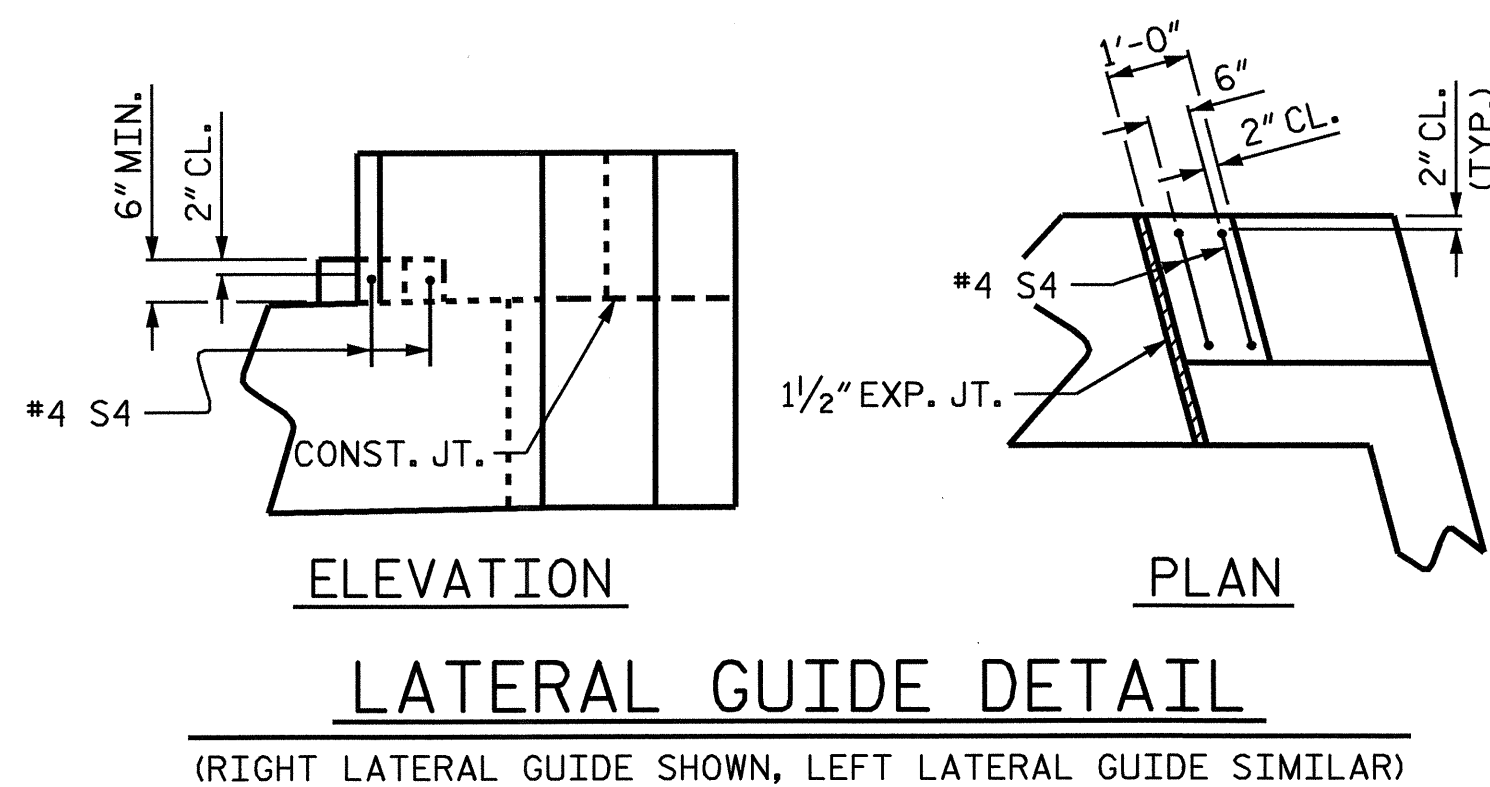
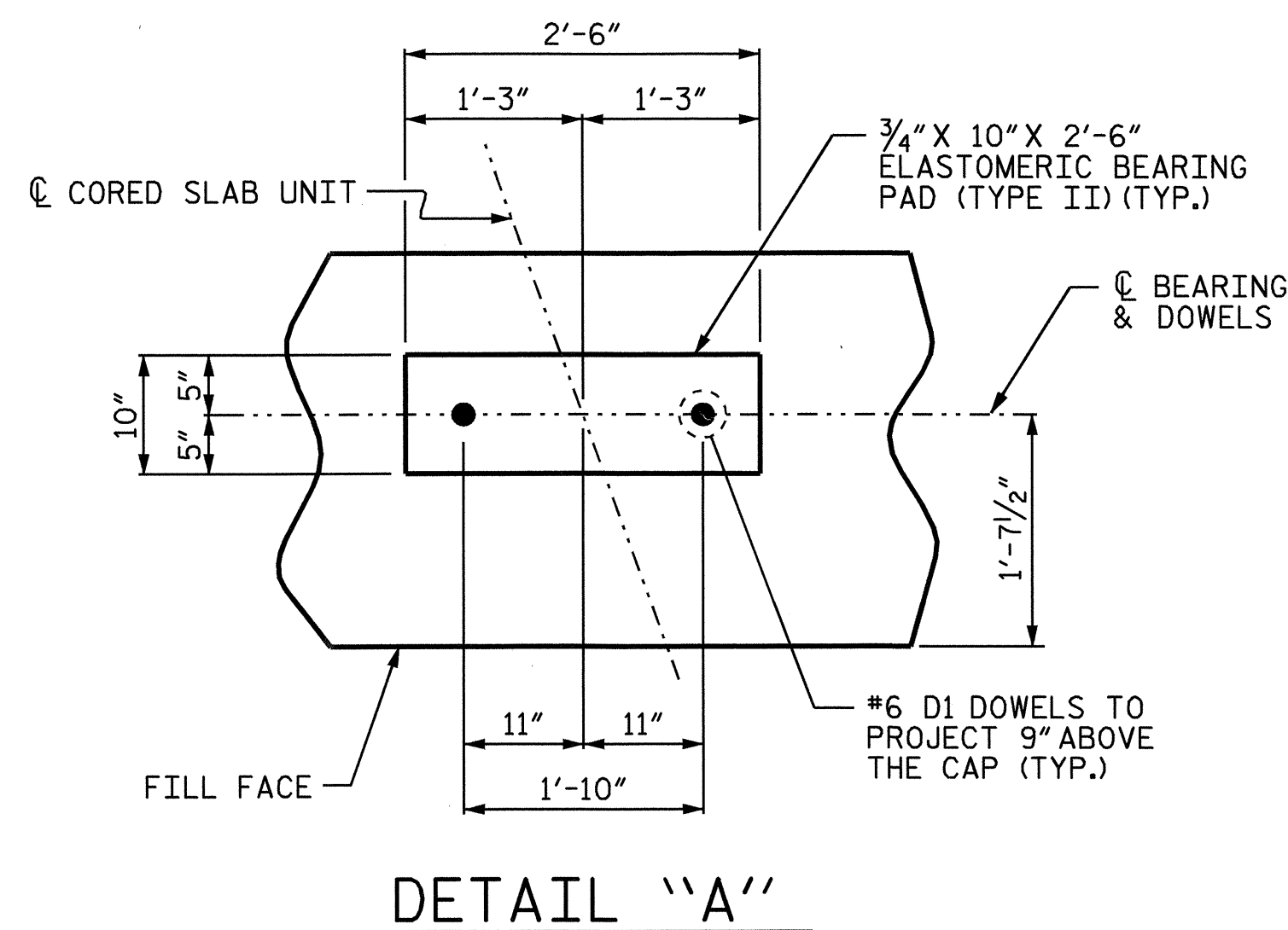
TEMPORARY DRAINAGE AT END BENT No. 1



PILE SPLICE DETAILS



BILL OF MATERIAL				
END BENT No. 1				
BAR	No.	SIZE	TYPE	LENGTH WEIGHT
B1	8	9	1	47'-2" 1283
B2	16	4	STR	23'-8" 253
B3	11	4	STR	2'-5" 18
D1	22	6	STR	1'-6" 50
H1	6	4	4	5'-9" 23
H2	6	4	4	6'-2" 25
H3	6	4	5	6'-9" 27
H4	6	4	5	6'-4" 25
K1	12	4	STR	2'-11" 23
S1	44	4	2	7'-5" 218
S2	44	4	6	3'-2" 93
S3	14	4	3	6'-6" 61
S4	4	4	7	4'-7" 12
V1	20	4	STR	4'-0" 53
V2	21	4	STR	3'-10" 54
REINFORCING STEEL				2,218 LBS.
CLASS A CONCRETE BREAKDOWN				
POUR #1	CAP & BOTTOM OF WINGS			12.4 C.Y.
POUR #2	TOP OF WINGS			1.1 C.Y.
POUR #3	LATERAL GUIDES			0.1 C.Y.
TOTAL CLASS A CONCRETE				13.6 C.Y.
HP 12 x 53 STEEL PILES				
No. = 7 LIN. FT. = 280				



NOTES:

STIRRUPS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR DOWELS.

THE LATERAL GUIDE AT EACH END OF THE CAP IS NOT TO BE POURED UNTIL AFTER CORED SLAB UNITS ARE IN PLACE.

THE CONTRACTOR SHALL PROVIDE FOR INSTALLATION OF THE 4" DIAMETER PIPE DRAIN THROUGH THE WING WALL AS REQUIRED FOR REINFORCED BRIDGE APPROACH FILLS. SEE ROADWAY PLANS. REINFORCING STEEL IN THE WING WALL MAY BE SHIFTED AS NECESSARY TO CLEAR THE DRAIN PIPE.

PROJECT NO. B-3899

ROCKINGHAM COUNTY

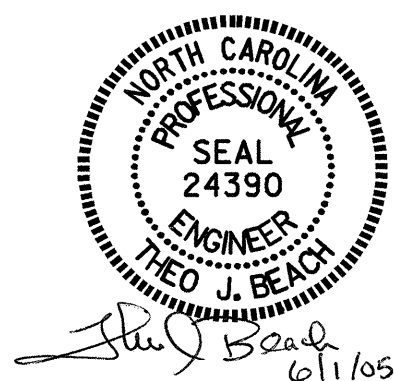
STATION: 23+91.00 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT No. 1



DRAWN BY: P.C. BREWER DATE: 6/16/04

CHECKED BY: S.B. WILLIAMS DATE: 6/29/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-13
1			3			TOTAL SHEETS 24
2			4			