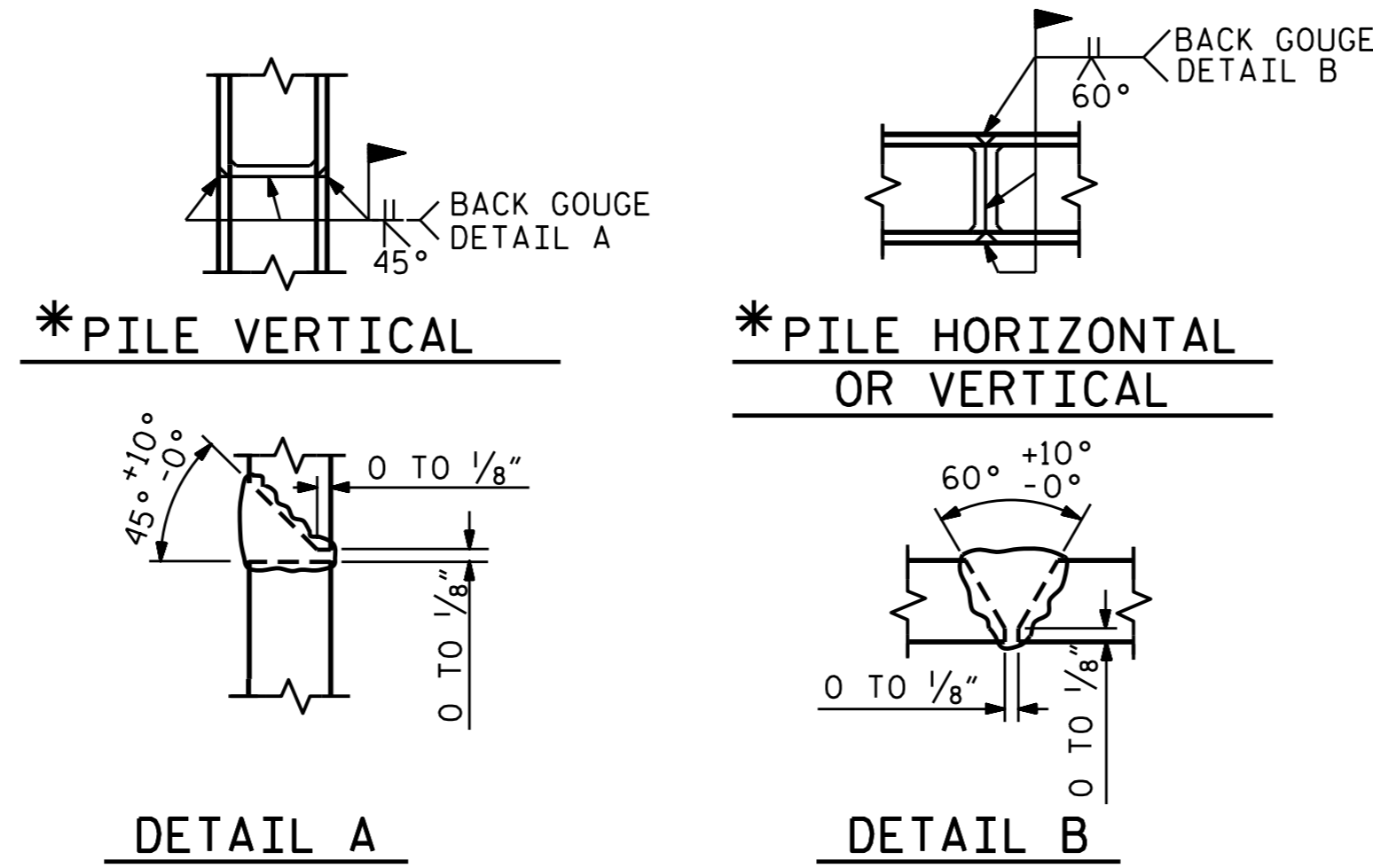


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

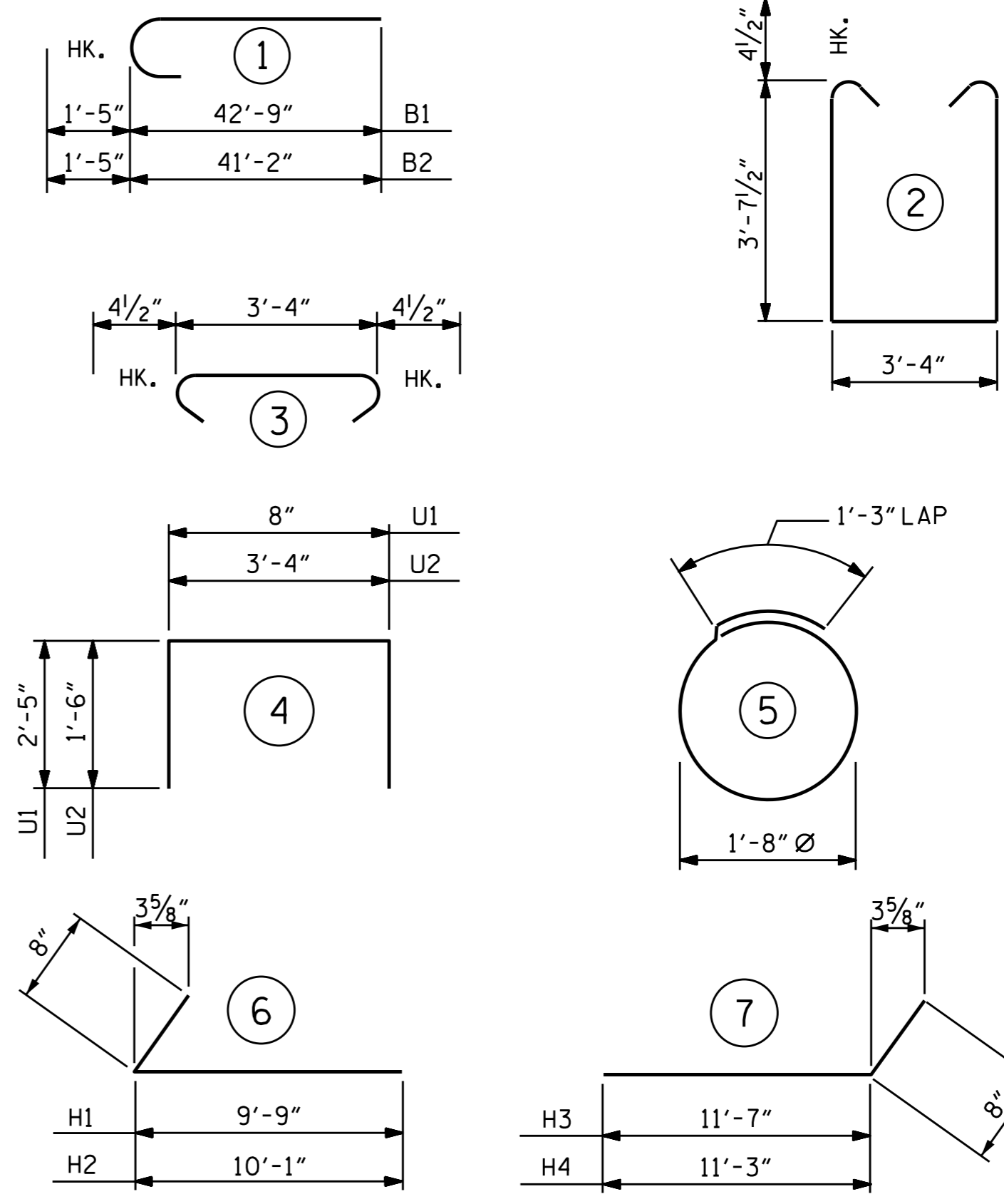
TEMPORARY DRAINAGE AT END BENT



* POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT No. 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#10	1	44'-2"	1520
B2	10	#10	1	42'-7"	1832
B3	24	#4	STR	26'-6"	425
B4	8	#4	STR	20'-8"	110
B5	12	#4	STR	3'-0"	24
B6	12	#4	STR	26'-6"	212
B7	19	#4	STR	3'-4"	42
H1	20	#5	6	10'-5"	217
H2	20	#5	6	10'-9"	224
H3	20	#5	7	12'-3"	256
H4	20	#5	7	11'-11"	249
K1	30	#4	STR	26'-6"	531
K2	8	#4	STR	2'-11"	16
S1	88	#4	2	11'-4"	666
S2	88	#4	3	4'-1"	240
S3	36	#4	5	6'-6"	156
U1	68	#4	4	5'-6"	250
U2	33	#4	4	6'-4"	140
V1	136	#5	STR	8'-3"	1170
V2	28	#5	STR	10'-1"	294
V3	30	#5	STR	9'-11"	310

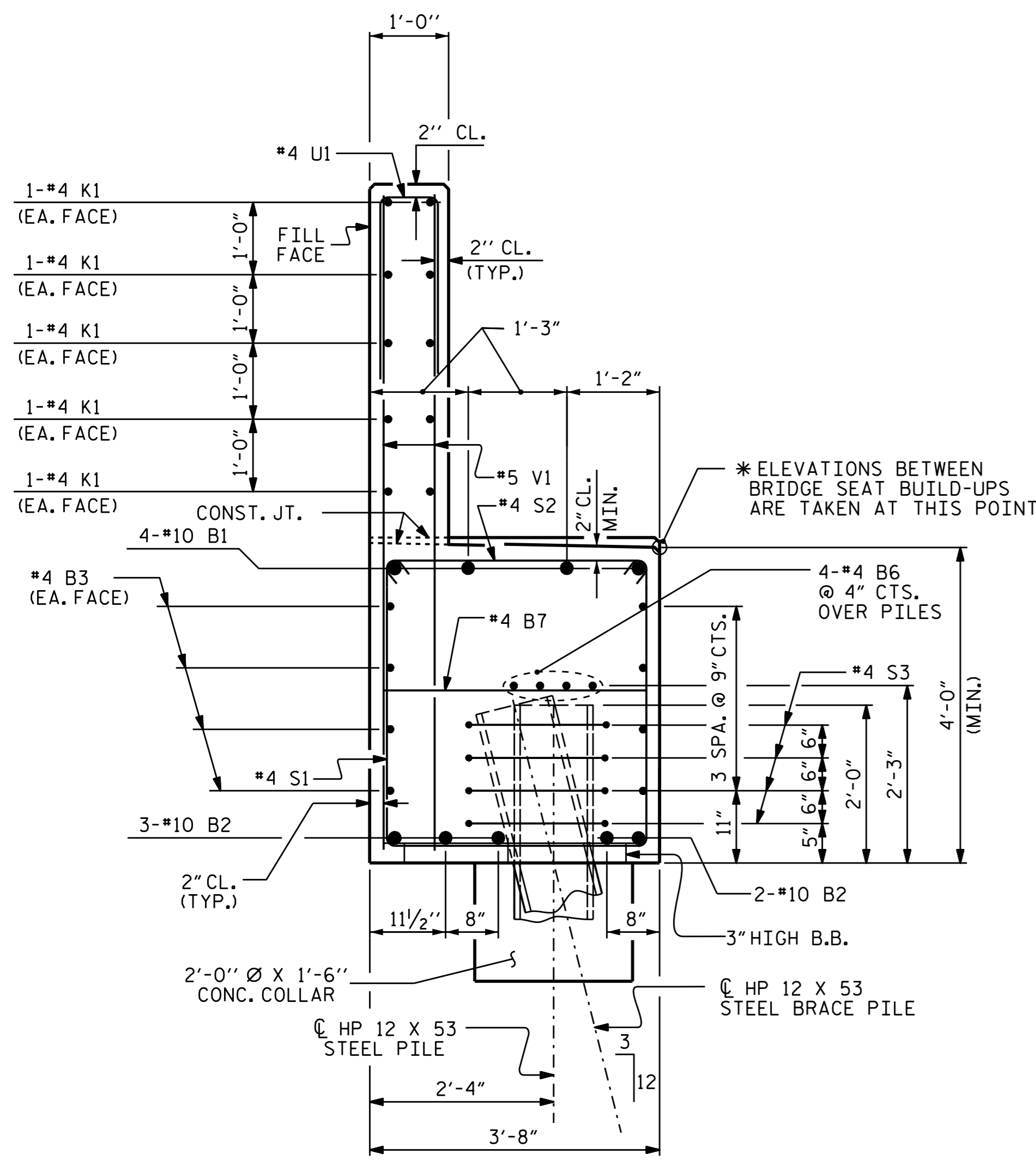
REINFORCING STEEL = 8884 LBS.

CLASS A CONCRETE BREAKDOWN

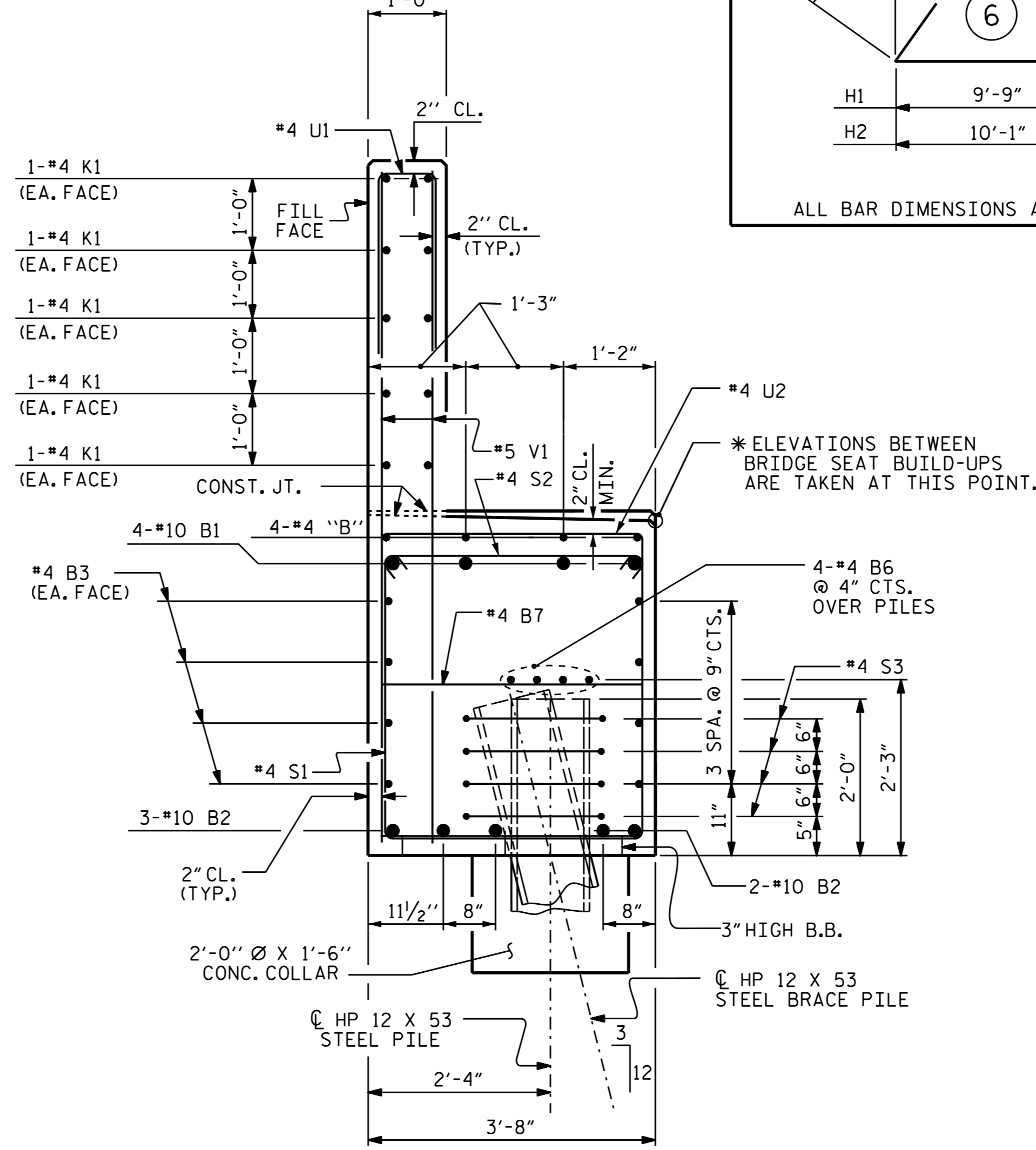
POUR #1	CAP, LOWER PART OF WINGS & COLLARS	48.3 C.Y.
POUR #2	BACKWALL & UPPER PART OF WINGS	18.2 C.Y.
CLASS A CONCRETE TOTAL		66.5 C.Y.

HP 12 X 53 STEEL PILES

NO.	9	470	LIN. FT.
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SECTION A-A



SECTION B-B

DRAWN BY: V.X. NGUYEN DATE: 10-09-14

CHECKED BY: J.P. MCCARTHA DATE: 3-13-15

DESIGN ENGINEER OF RECORD: A.M. LEE DATE: 4-9-15



PROJECT NO. R-2915A

WATAUGA/ASHE COUNTY

STATION: 11+18.63 -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-23	
1			3			TOTAL SHEETS	
2			4			31	

STR. 1