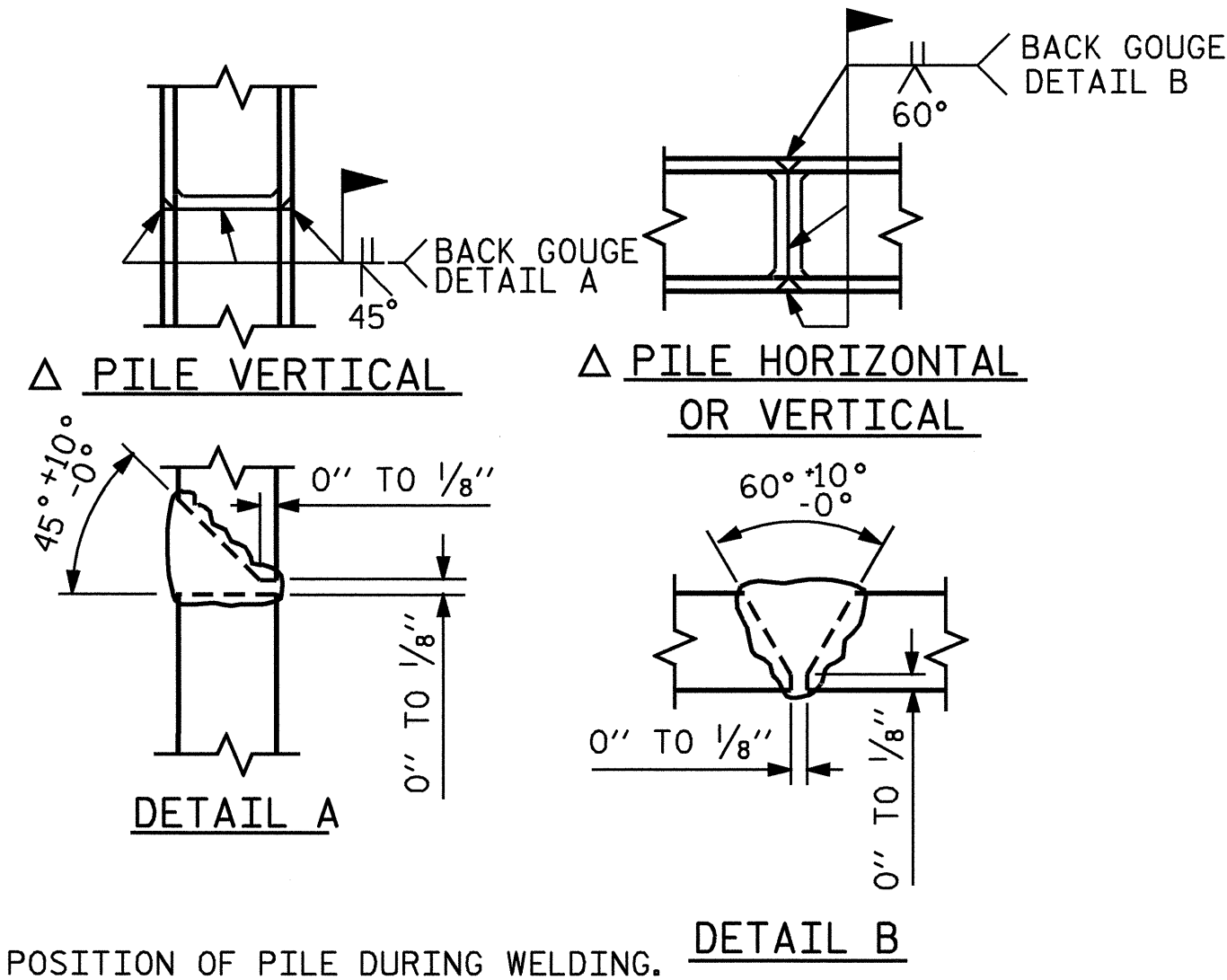
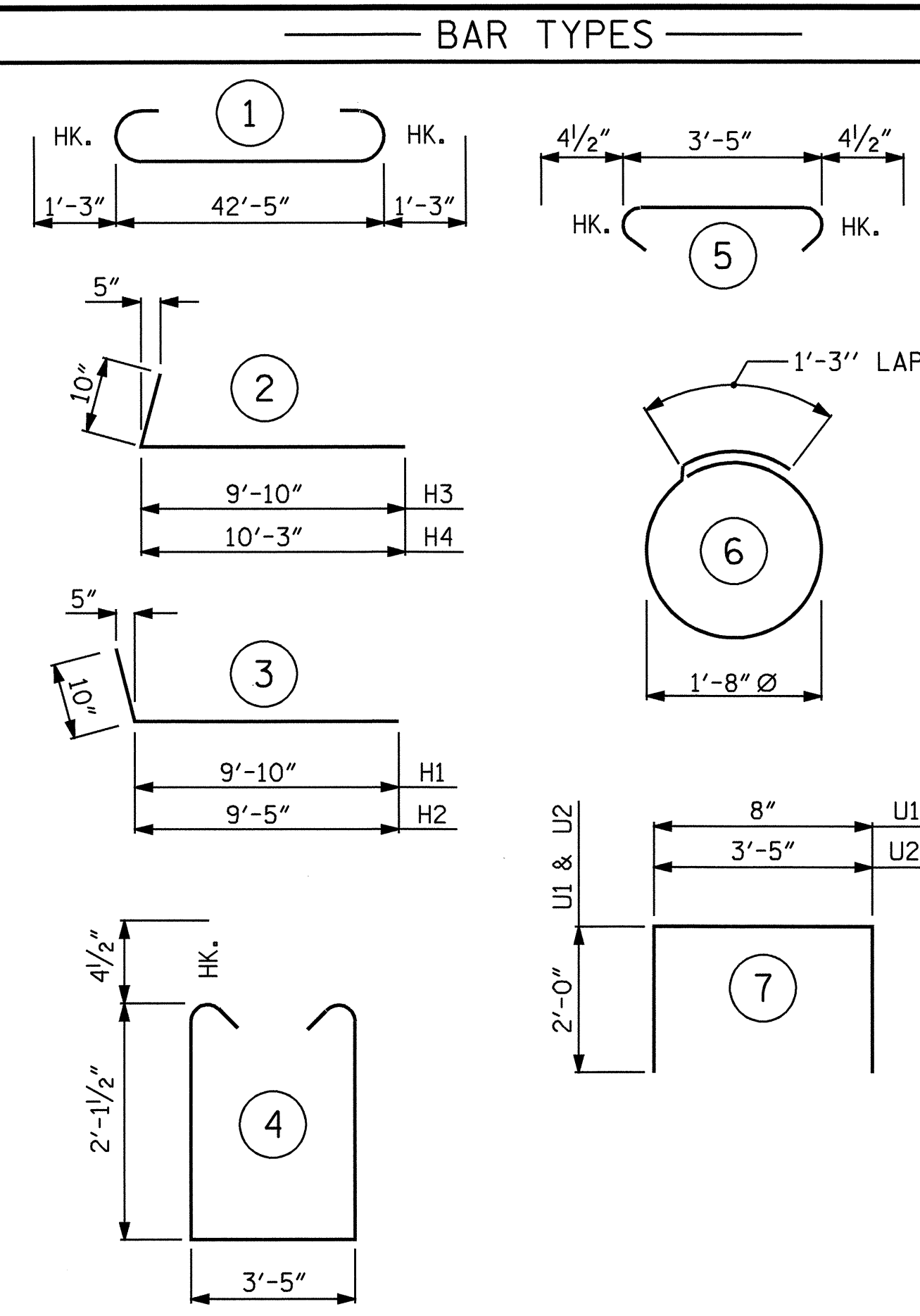


NOTE: NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE PVC PLASTIC PIPE DRAINS, HARDWARE CLOTH AND FASTENERS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

**PIPE DRAIN DETAILS**

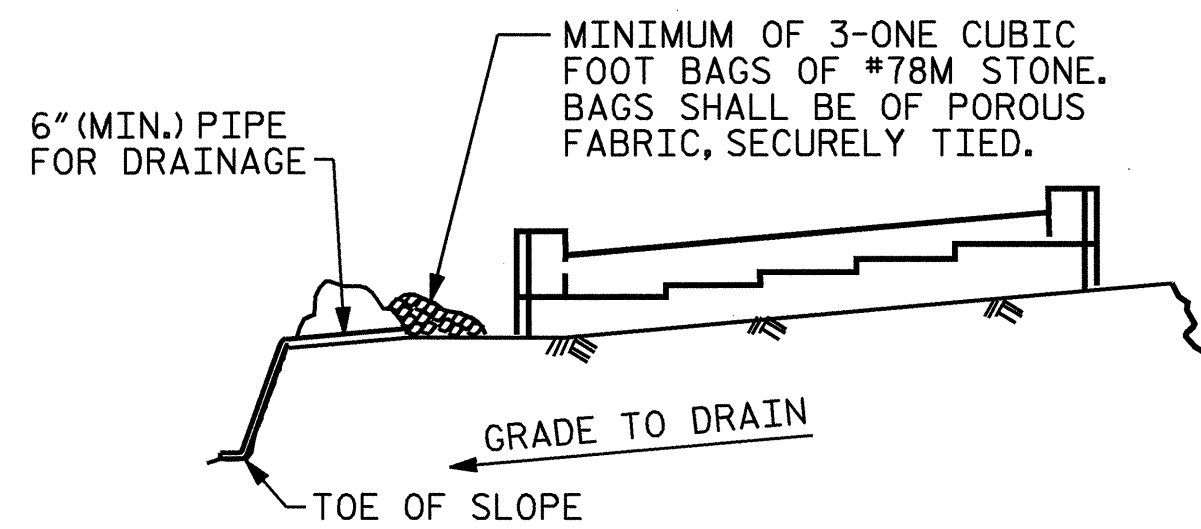


**PILE SPLICE DETAILS**



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL					
END BENT No. 2					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
B1	10	9	1	44'-11"	1527
B2	4	5	STR	42'-6"	177
B3	10	4	STR	10'-7"	71
B4	8	4	STR	22'-6"	120
B5	11	4	STR	3'-5"	25
B6	10	4	STR	2'-8"	18
H1	8	5	3	10'-8"	89
H2	8	5	3	10'-3"	86
H3	10	5	2	10'-8"	111
H4	10	5	2	11'-1"	116
K1	16	4	STR	22'-6"	240
K2	8	4	STR	2'-11"	16
S1	42	4	4	8'-5"	236
S2	42	4	5	4'-2"	117
S3	12	4	6	6'-6"	52
U1	37	4	7	4'-8"	115
U2	16	4	7	7'-5"	79
V1	74	5	STR	5'-10"	450
V2	29	4	STR	7'-1"	137
V3	30	4	STR	7'-8"	154
REINFORCING STEEL					3,936 LBS.
CLASS A CONCRETE BREAKDOWN :					
POUR #1 - (CAP & LOWER WINGS)				18.5 C.Y.	
POUR #2 - (BACKWALL & UPPER WINGS)				10.0 C.Y.	
TOTAL				28.5 C.Y.	
HP 12 x 53 STEEL PILES					
NO. = 6 LIN. FEET = 90.0					

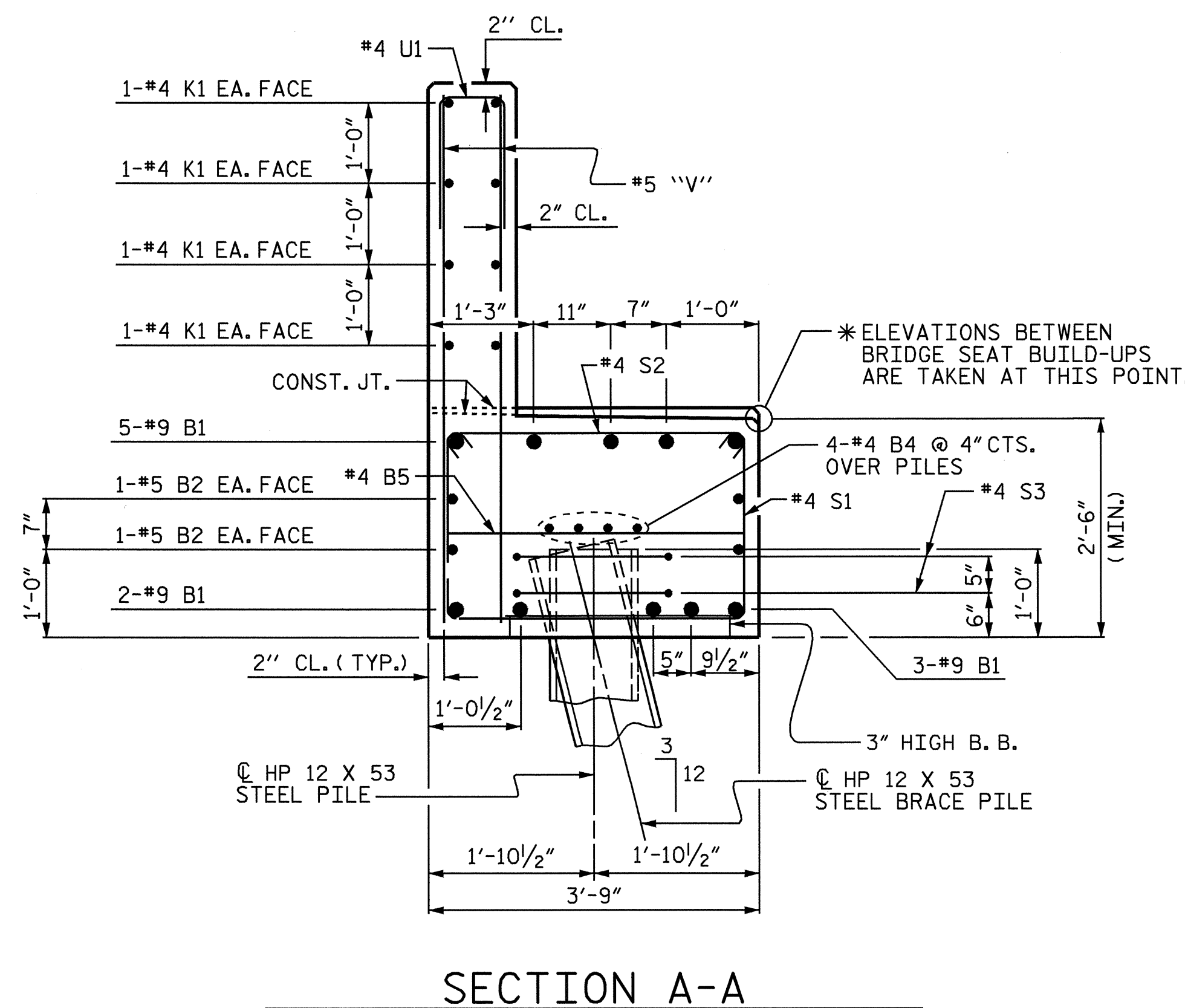


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

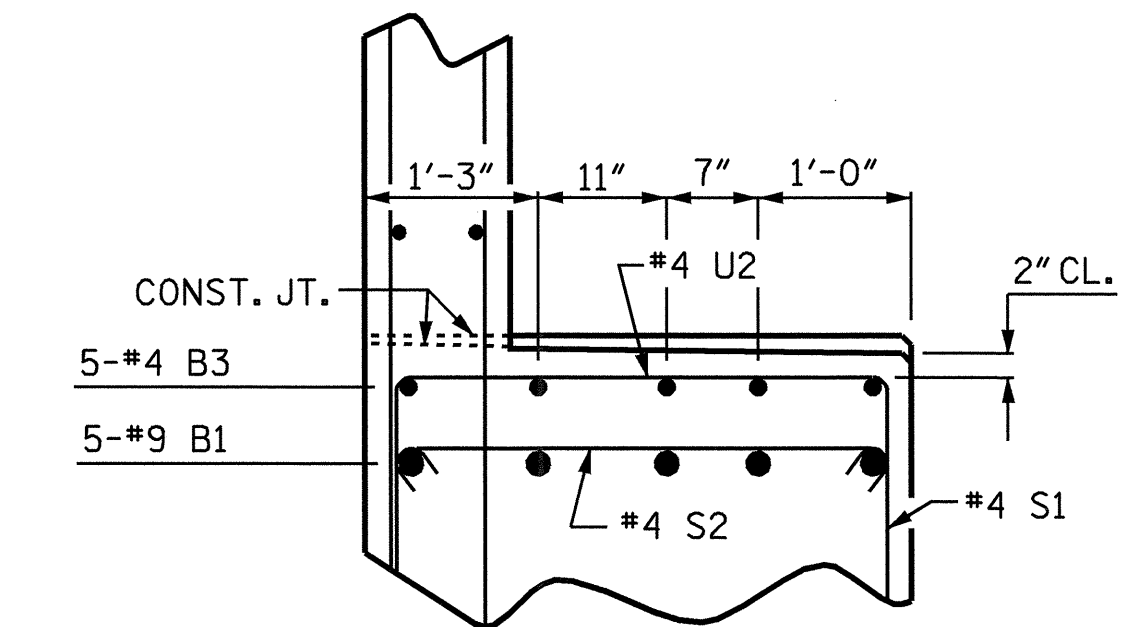
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

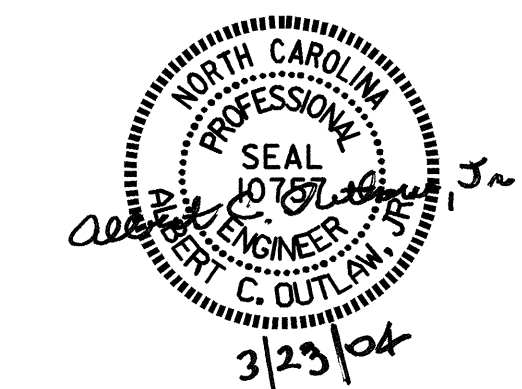


**PARTIAL SECTION B-B**

PROJECT NO. B-3885  
ORANGE COUNTY  
 STATION: 17+75.00 -L-

SHEET 3 OF 3

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



DRAWN BY : P.C. BREWER DATE : 1/21/04  
 CHECKED BY : S.B. WILLIAMS DATE : 1/29/04

22-MAR-2004 14:39  
 W:\squad\vb3885\pbrewer\Microstation\B3885.sd.EB2.01.dgn  
 outlaw

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-29
1			3			TOTAL SHEETS
2			4			33