

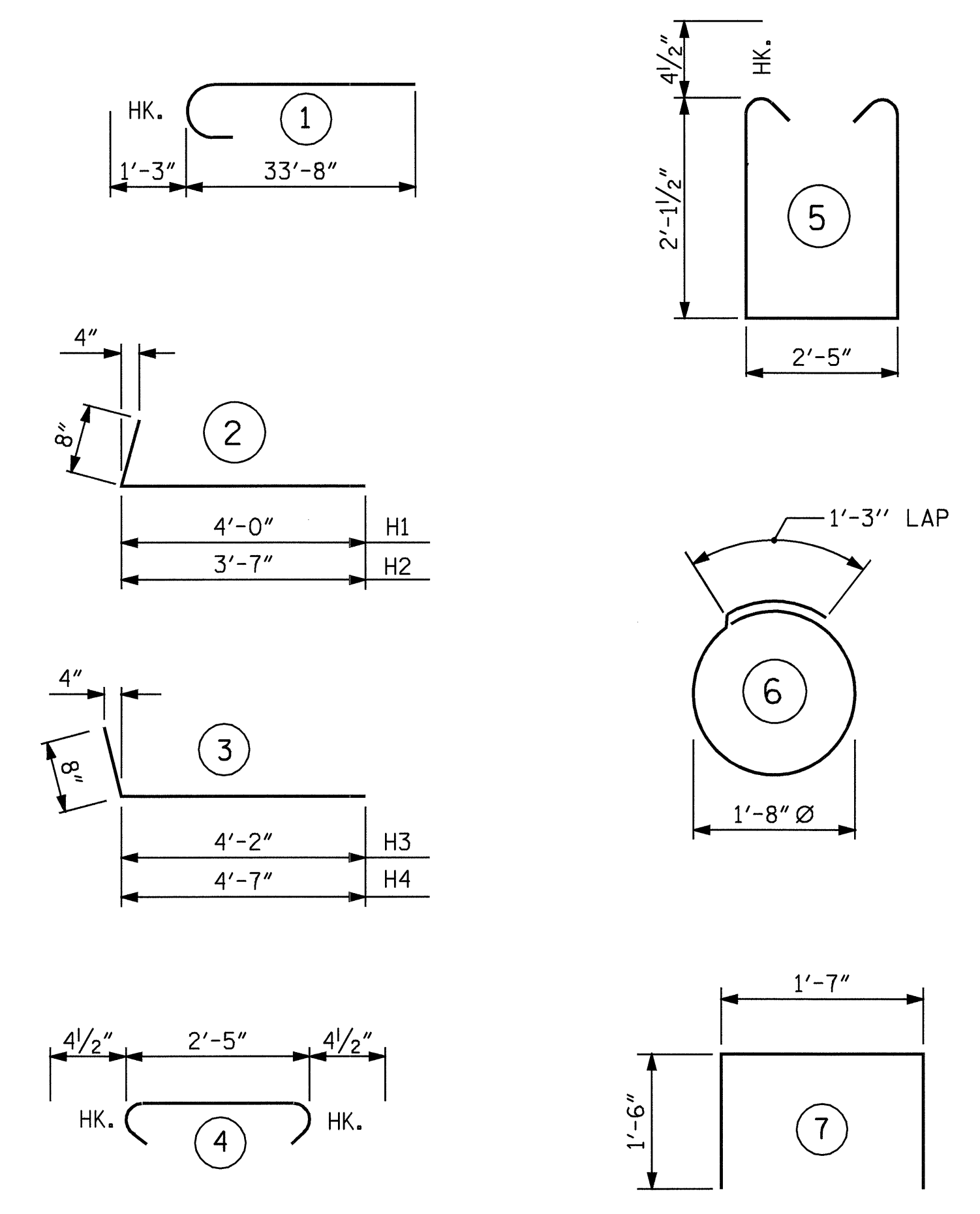
OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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 BID PRICE FOR CONSTRUCTION OF SUBSTRUCTURE.

TEMPORARY DRAINAGE AT END BENT

BAR TYPES

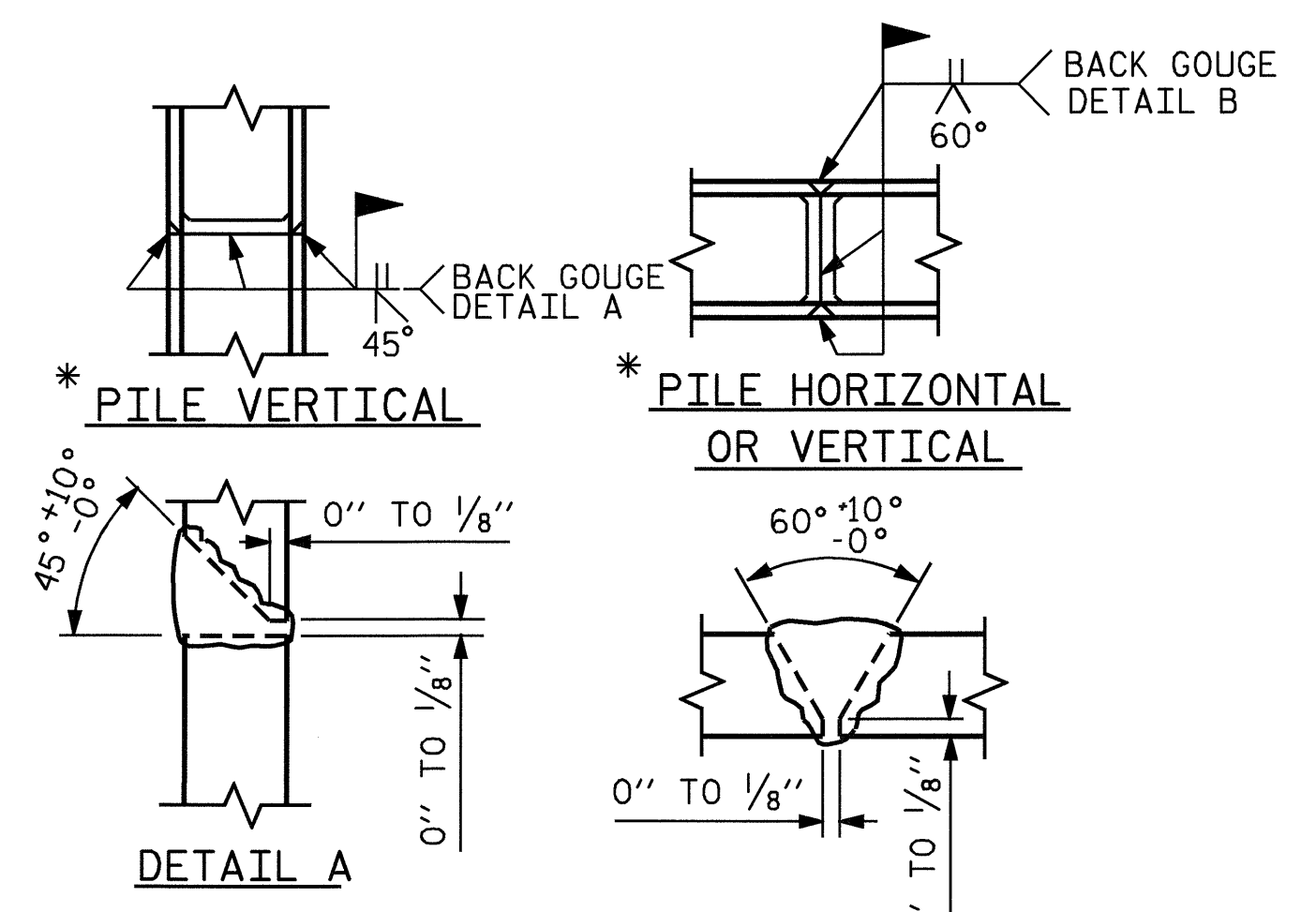


ALL BAR DIMENSIONS ARE OUT TO OUT.

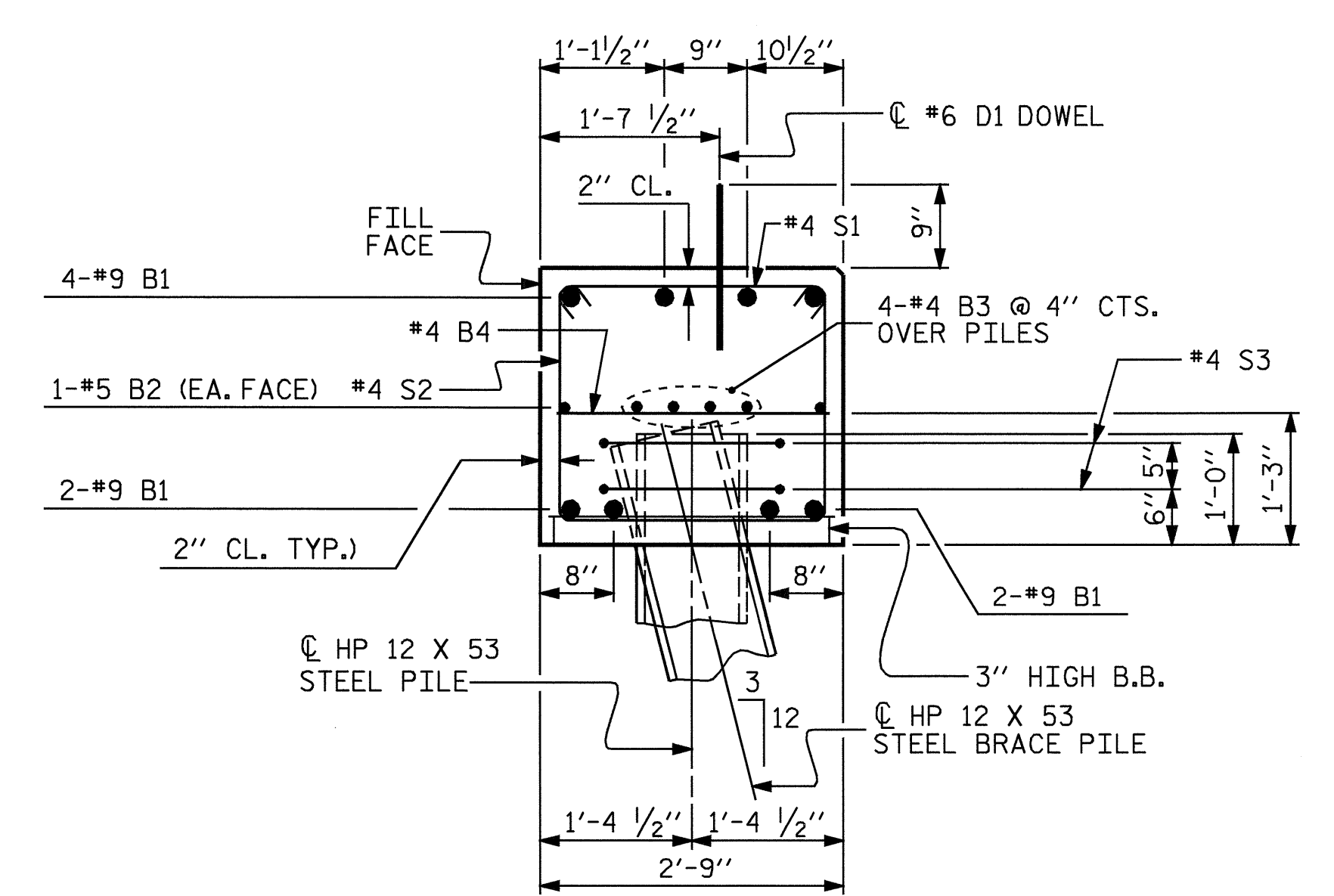
BILL OF MATERIAL

END BENT 1					
BAR NO	NO	SIZE	TYPE	LENGTH	WEIGHT
B1	16	9	1	34-11	1899
B2	4	5	STR	30-10	129
B3	12	4	STR	21-2	170
B4	14	4	STR	2-5	23
D1	30	6	STR	1-6	68
H1	6	4	2	4-8	19
H2	6	4	2	4-3	17
H3	6	4	3	4-10	19
H4	6	4	3	5-3	21
K1	12	4	STR	3-9	30
S1	51	4	4	3-2	108
S2	51	4	5	7-5	253
S3	16	4	6	6-6	69
U1	4	4	7	4-7	12
V1	36	4	STR	4-8	112
REINFORCING STEEL				LBS.	2949

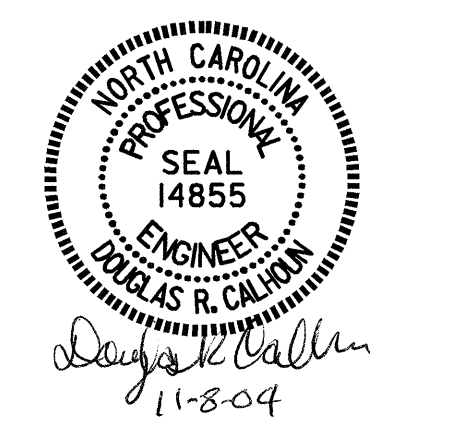
CLASS A CONCRETE BREAKDOWN	
POUR #1 (CAP, LOWER PART OF WINGS)	15.9 C.Y.
POUR #2 (UPPER PART OF WINGS)	1.4 C.Y.
POUR #3 (LATERAL GUIDE)	0.1 C.Y.
TOTAL CLASS A CONCRETE	17.4 C.Y.
HP 12 X 53 STEEL PILES NO. 8	120 LIN.FT.



PILE SPLICE DETAILS



SECTION A-A



PROJECT NO. B-3451
 DURHAM COUNTY
 STATION: 14+99.30 -L-
 SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
**SUBSTRUCTURE
 END BENT 1**

REVISIONS						SHEET NO. S-17
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 27
2			4			