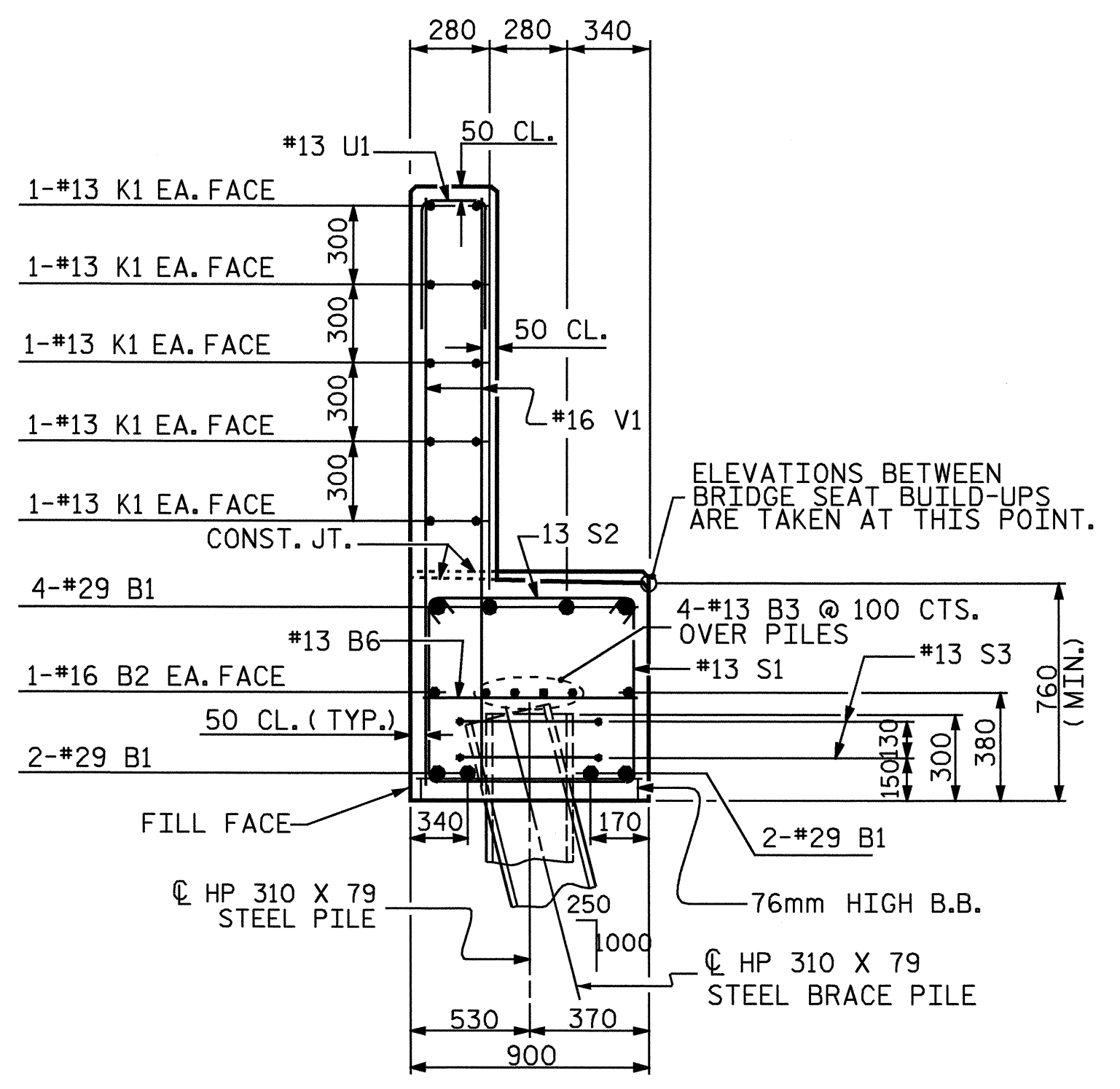


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

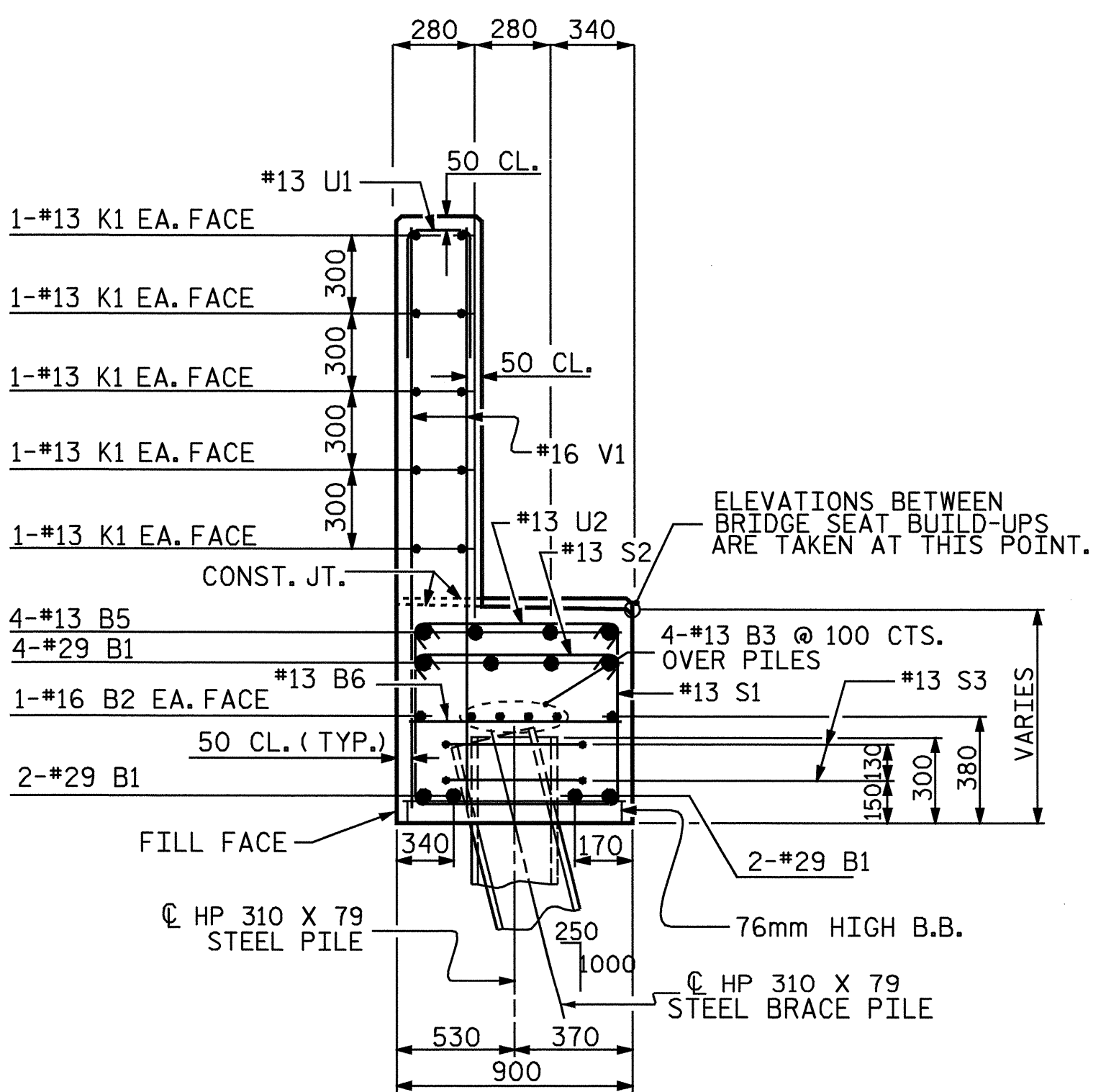
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

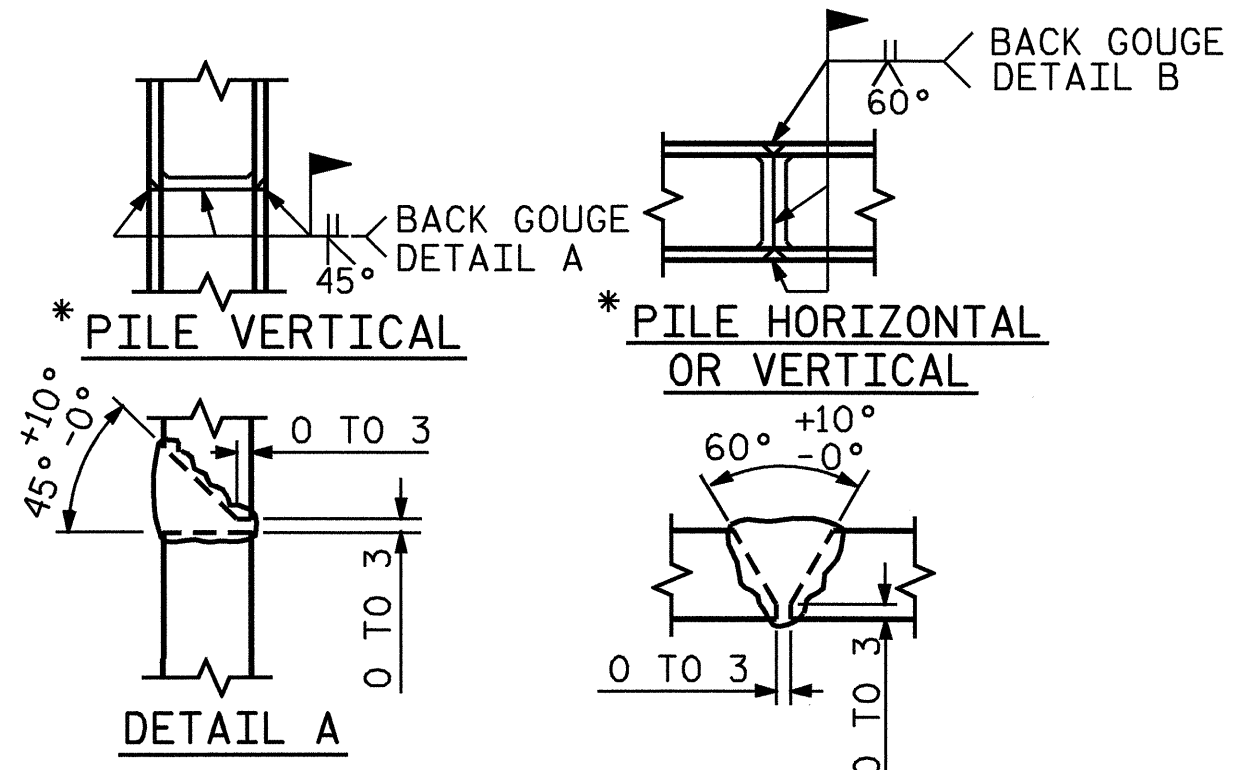
TEMPORARY DRAINAGE AT END BENT



SECTION A-A

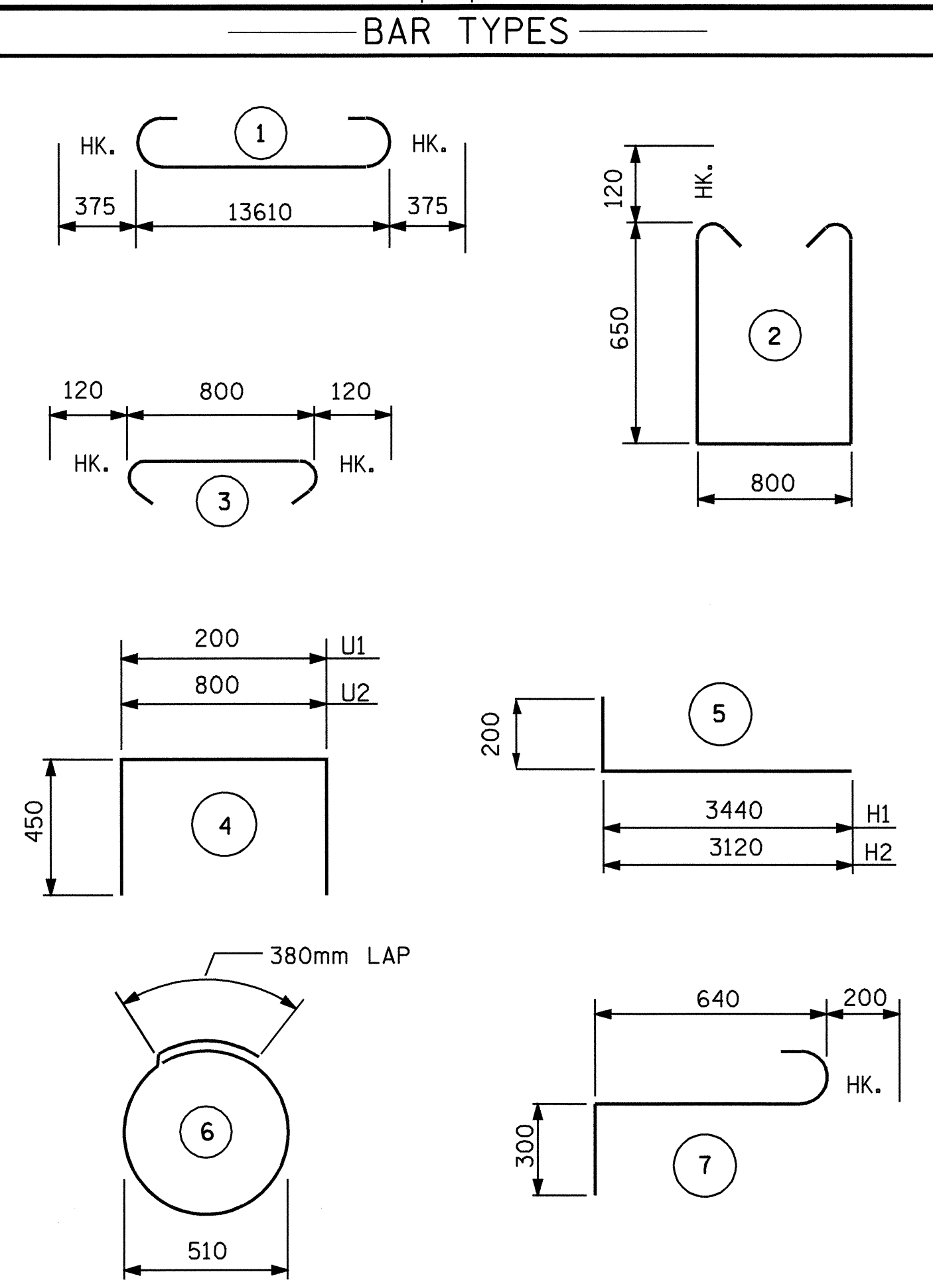


SECTION B-B



PILE SPLICE DETAILS

* POSITION OF PILE DURING WELDING.



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT #2					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	29	1	14360	581
B2	2	16	STR	13640	42
B3	8	13	STR	7200	57
B4	8	13	STR	1000	8
B5	4	13	STR	7320	29
B6	11	13	STR	800	9
H1	20	16	5	3640	113
H2	20	16	5	3320	103
K1	20	13	STR	7200	143
K2	8	13	STR	840	7
S1	42	13	2	2340	98
S2	42	13	3	1040	43
S3	18	13	6	1980	35
S4	1	19	8	2700	6
S5	3	19	7	1140	8
U1	40	13	4	1100	44
U2	22	13	4	1700	37
V1	80	16	STR	2020	251
V2	32	16	STR	2560	127
V3	30	16	STR	2340	109
TOTAL REINFORCING STEEL				KG	1850

CLASS A CONCRETE BREAKDOWN

POUR #1 CAP & LOWER WINGS & WING PILE BLOCK	12.6 CU. METERS
POUR #2 BACKWALL & UPPER WINGS	9.3 CU. METERS
CLASS A CONCRETE TOTAL	21.9 CU. METERS

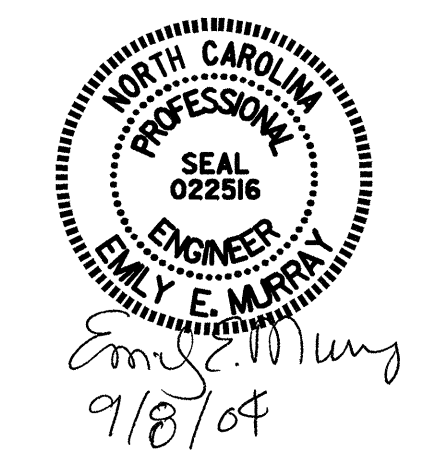
HP 310 X 79 STEEL PILES	
NO. 10	METERS 120.0

PROJECT NO. R-2206C
LINCOLN-CATAWBA COUNTY
 STATION: 199+48.000 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 END BENT #2
 RIGHT LANE



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			3-93
2			4			TOTAL SHEETS 37

DRAWN BY: L.GILCHRIST/ C.MILLER DATE: 03-04/06/04
 CHECKED BY: P. ADKINS DATE: 06-04