

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.

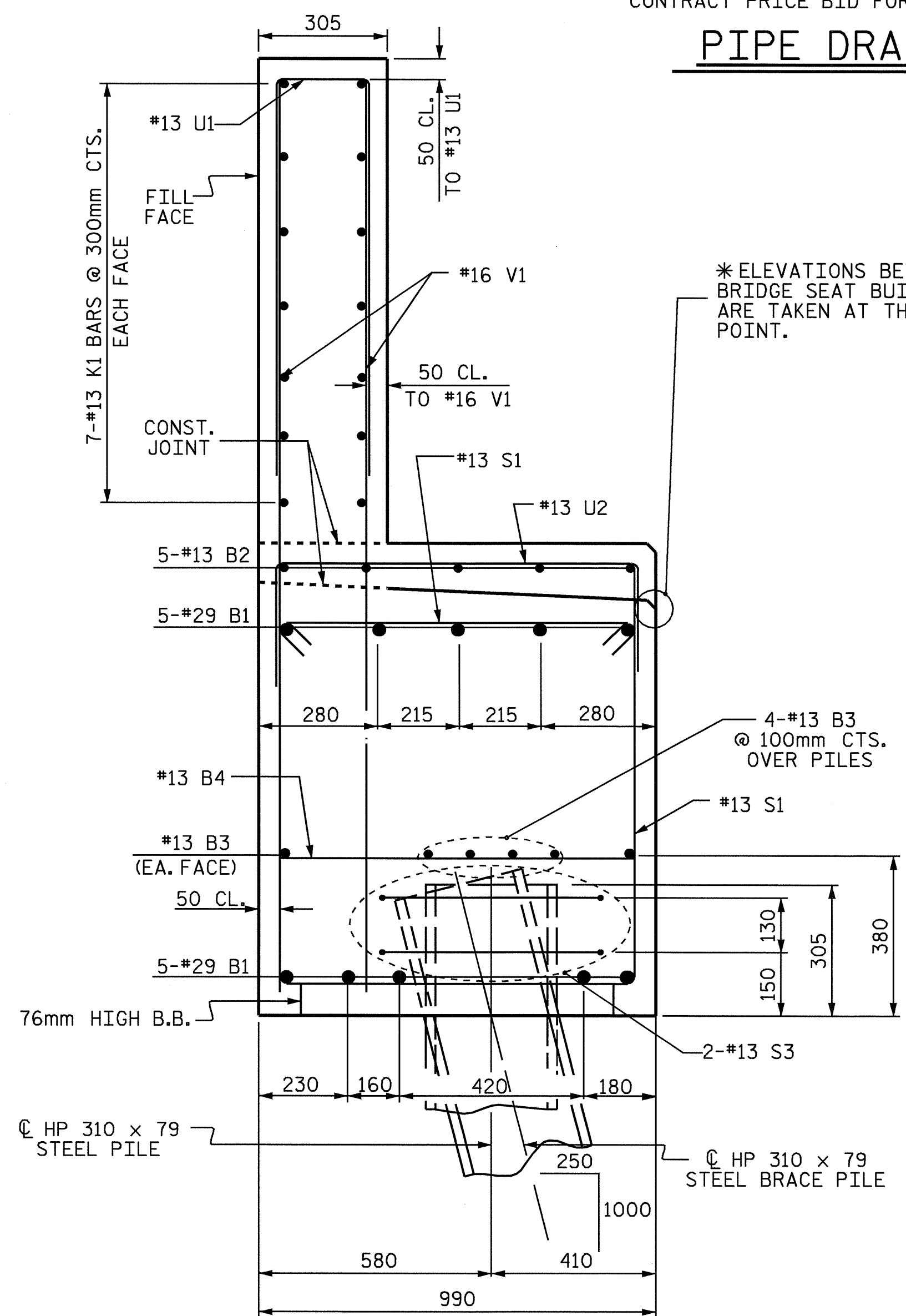
PIPE DRAIN DETAILS

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.

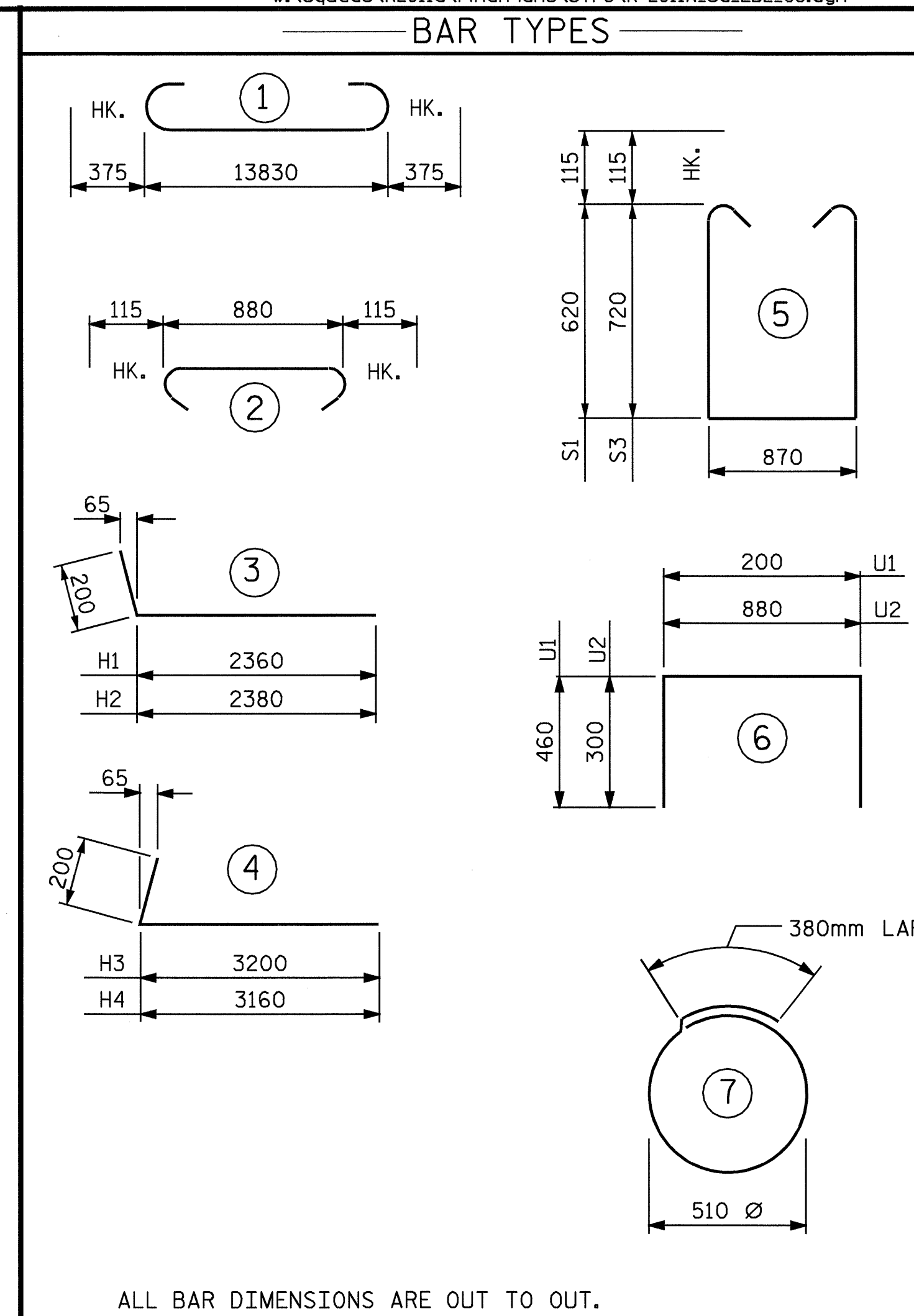
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



*ELEVATIONS BETWEEN BRIDGE SEAT BUILD-UPS ARE TAKEN AT THIS POINT.

SECTION A-A



ALL BAR DIMENSIONS ARE OUT TO OUT.

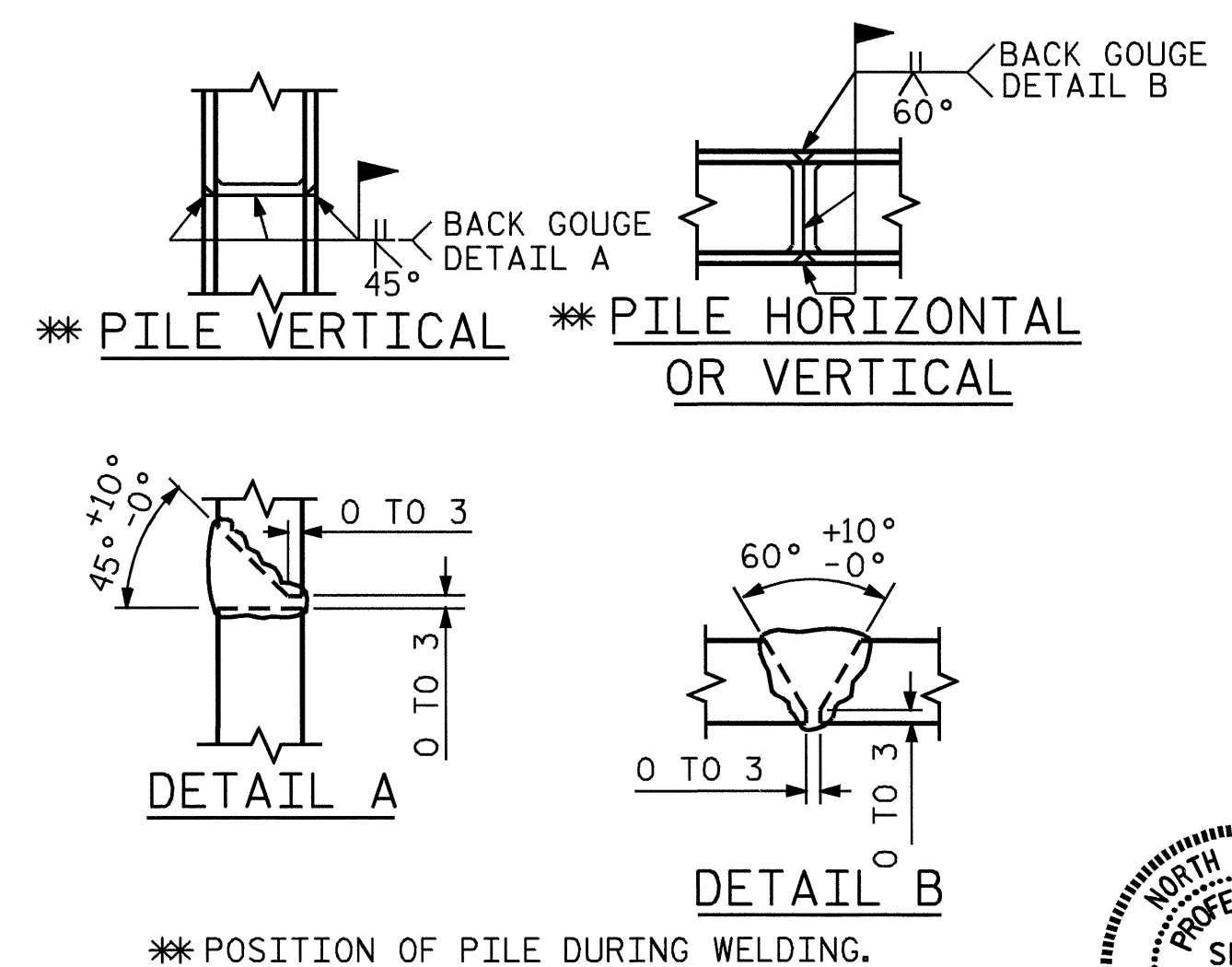
BILL OF MATERIAL

END BENT #2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#29	1	14580	738
B2	5	#13	STR	4860	24
B3	12	#13	STR	7300	87
B4	12	#13	STR	880	10
H1	12	#13	3	2560	31
H2	12	#13	3	2580	31
H3	13	#13	4	3400	44
H4	13	#13	4	3360	43
K1	28	#13	STR	7300	203
K2	8	#13	STR	860	7
S1	38	#13	5	2340	88
S2	38	#13	3	1100	42
S3	20	#13	7	1980	39
U1	40	#13	6	1120	45
U2	11	#13	6	1480	16
V1	80	#16	STR	2620	325
V2	26	#13	STR	3980	103
V3	30	#13	STR	3140	94

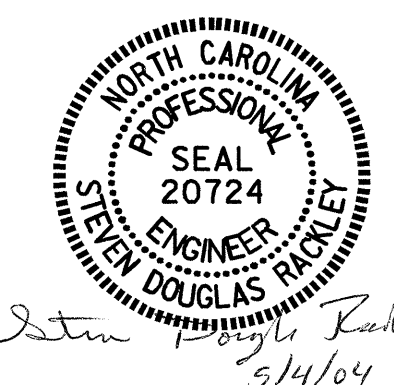
REINFORCING STEEL = 1970 kg

CLASS A CONCRETE BREAKDOWN:
POUR #1: (CAP & BOTTOM OF WINGS)
CU. METERS 12.5
POUR #2: (TOP OF WINGS & BACKWALL)
CU. METERS 8.2
CLASS A CONCRETE TOTAL:
CU. METERS 20.7

HP 310 x 79 STEEL PILES
NO. = 10 METERS 285



PILE SPLICE DETAILS



PROJECT NO. R-2911A
IREDELL COUNTY
STATION: 41+59.472 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE END BENT #2 (LEFT LANE)					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. S-78
					TOTAL SHEETS 106

DRAWN BY: DAN PLATICA DATE: 01/09/04
CHECKED BY: M. K. BEARD DATE: 02/04/04