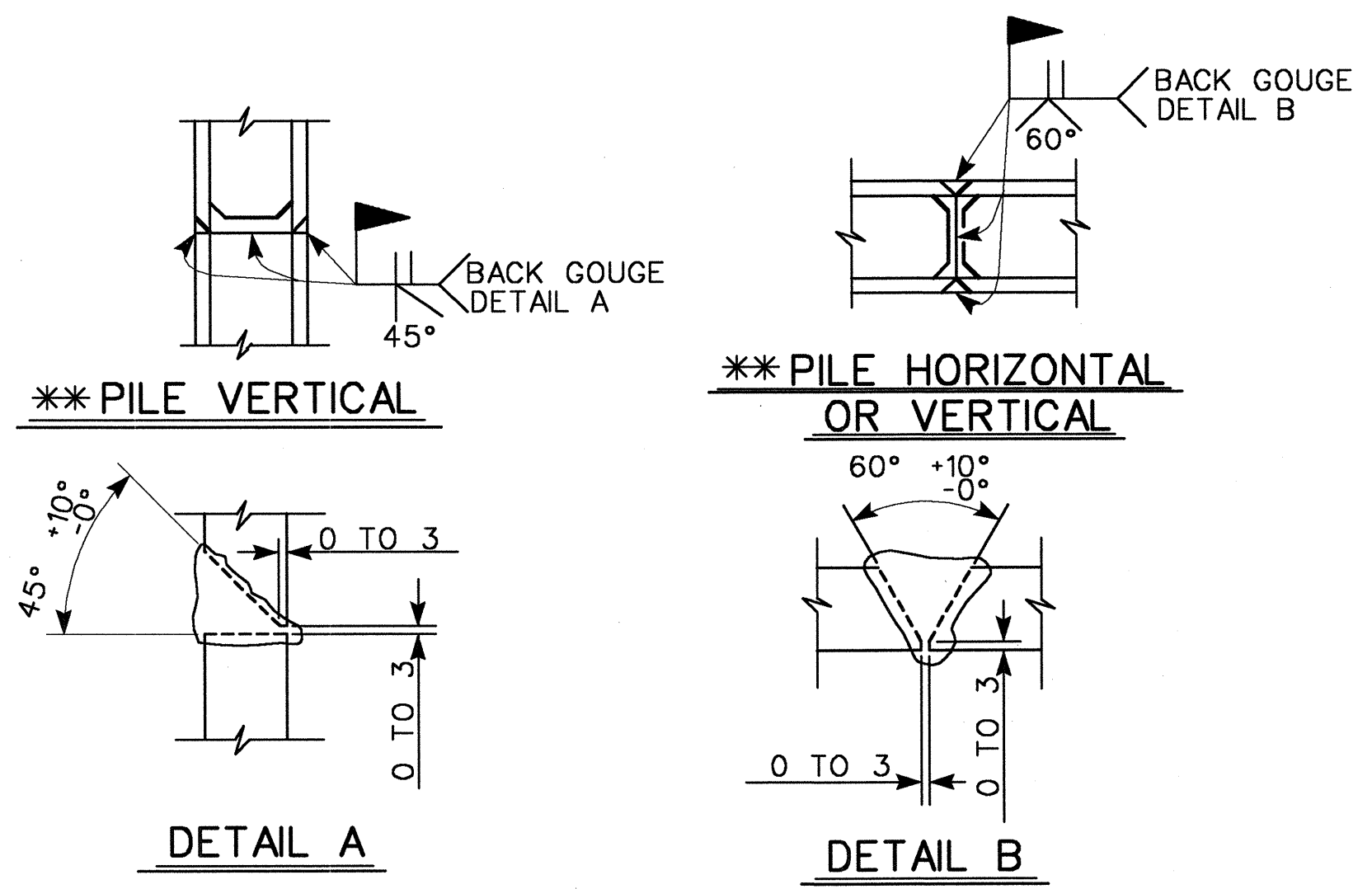


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

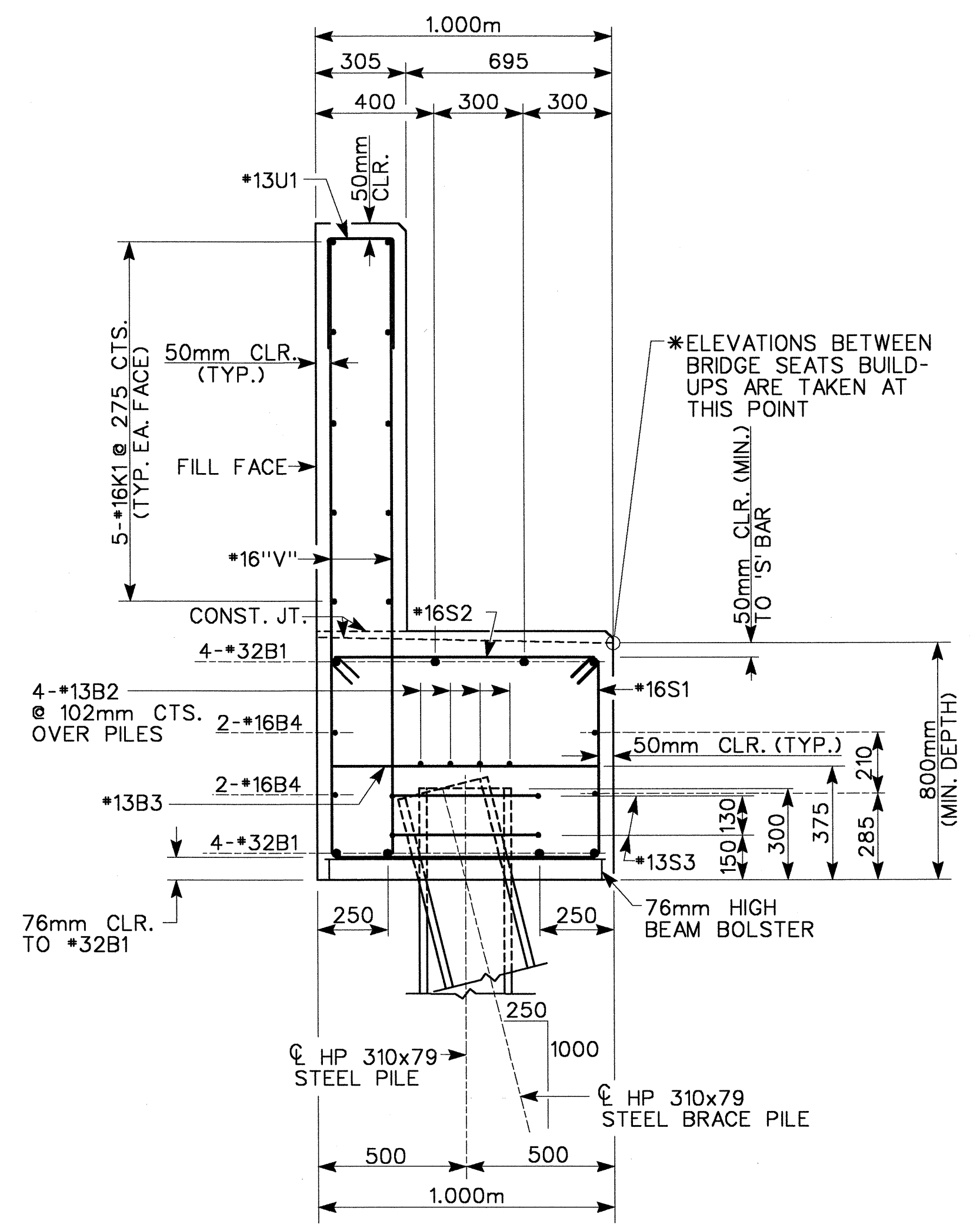
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



PILE SPLICE DETAILS

** POSITION OF PILE DURING WELDING



SECTION A-A

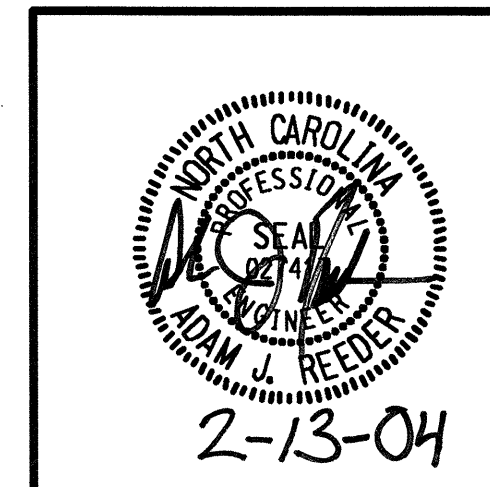
BAR TYPES					BILL OF MATERIAL	
FOR END BENT #1						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	8	32	4	17260	884	
B2	8	13	STR	8600	68	
B3	14	13	STR	900	13	
B4	4	16	STR	16420	102	
B5	20	13	STR	740	15	
H1	10	16	8	1160	18	
H2	10	16	8	1240	19	
H3	10	16	7	2420	38	
H4	10	16	7	2320	36	
K1	10	16	STR	16420	255	
S1	64	16	1	2560	254	
S2	64	16	2	1180	117	
S3	18	13	5	1980	35	
U1	48	13	3	1200	57	
U2	25	13	3	1900	4.7	
U3	4	16	6	2100	13	
V1	96	16	STR	1920	286	
V2	16	16	STR	2380	59	
V3	24	16	STR	2320	86	
REINFORCING STEEL -					kg	2402
CLASS A CONCRETE BREAKDOWN						
POUR 1 -						
(CAP & BOT. OF WINGS)					m ³	14.4
POUR 2 -						
(TOP OF WINGS & BACKWALL)					m ³	8.1
CLASS A CONCRETE TOTAL					m ³	22.5
HP 310x79 STEEL PILES						
NO. 9					METERS	189.0

ALL BAR DIMENSIONS ARE OUT TO OUT.

PROJECT NO. R-2552B
JOHNSTON COUNTY
 STATION: 78+35.547 -L-
12+97.374 -Y10-
 SHEET 3 of 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

END BENT #2
 SUBSTRUCTURE
 (RIGHT LANE)



REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

TOTAL SHEETS: 431

PBS & S

1616 E. MILLBROOK RD., SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 PHONE (919) 876-6888
 FAX (919) 876-6848

DRAWN BY : SD DATE : 6/03
 CHECKED BY : JL DATE : 9/03