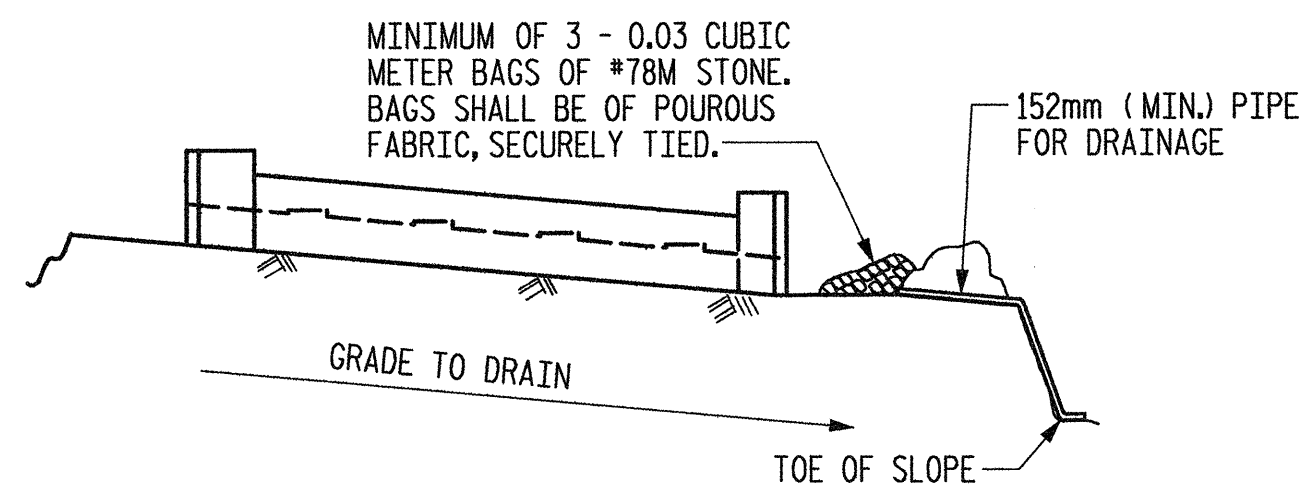


SECTION A-A



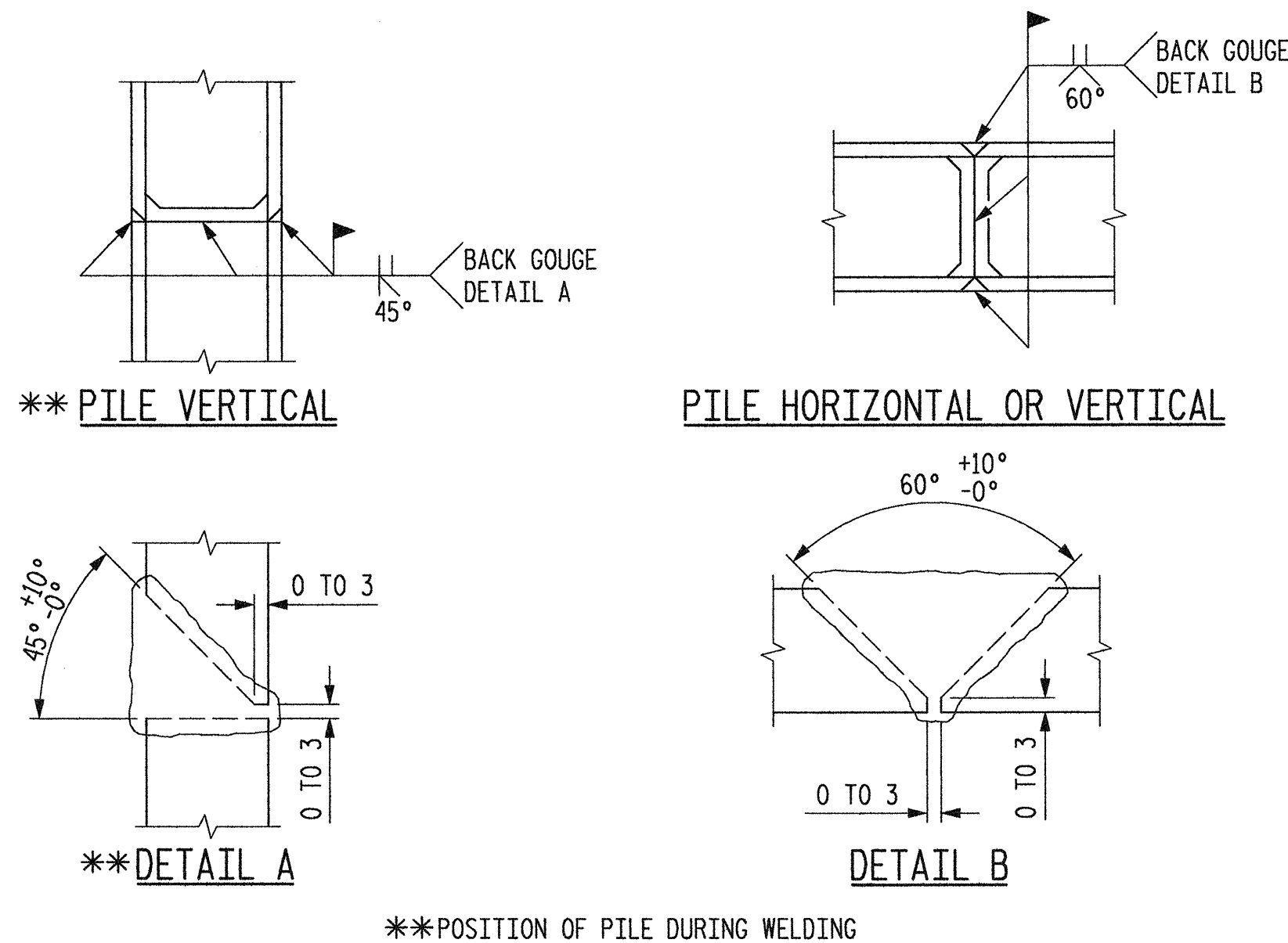
MINIMUM OF 3 - 0.03 CUBIC METER BAGS OF #78M STONE. BAGS SHALL BE OF POUROUS FABRIC, SECURELY TIED.

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 #1



PILE SPLICE DETAILS

**POSITION OF PILE DURING WELDING

BAR TYPES		BILL OF MATERIAL				
		END BENT #1				
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	10	29	1	12640	640	
B2	4	19	STR	11900	106	
B3	16	13	STR	6320	101	
B4	10	13	STR	1120	11	
H1	28	16	5	6100	265	
H2	28	16	5	3540	154	
H3	8	13	STR	880	7	
K1	34	13	STR	6320	214	
S1	35	16	3	3000	163	
S2	35	16	2	1400	76	
S3	38	13	8	760	29	
S4	6	19	7	1120	15	
S5	2	19	6	2700	12	
U1	24	13	4	2040	49	
V1	68	16	STR	2940	310	
V2	76	16	STR	2000	236	
V3	10	16	STR	3320	52	
V4	44	16	STR	2040	139	
V5	10	16	STR	3400	53	
REINFORCING STEEL					2632 kg	
CLASS A CONCRETE BREAKDOWN						
POUR #1 (CAP & WING)				16.7 CU. METERS		
POUR #2 (BACKWALL & WING)				16.5 CU. METERS		
TOTAL CLASS A CONCRETE				33.2 CU. METERS		
HP 310 x 79 STEEL PILES						
NO. 10					108.0 LIN. METERS	

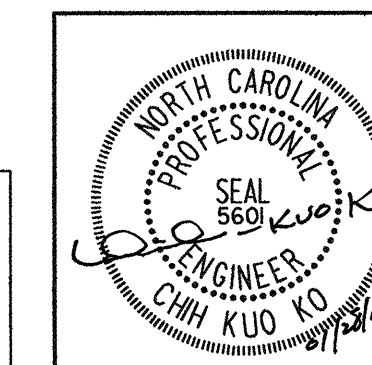
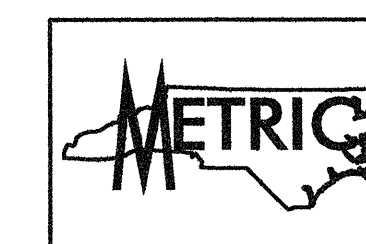
ALL BAR DIMENSIONS ARE OUT TO OUT.

PROJECT NO. R-2552AA
 WAKE-JOHNSTON COUNTY
 STATION: 27+51.601 -I1Y1-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 END BENT #1



Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 1011 SCHAUB DR., SUITE #202
 RALEIGH, N.C. 27606
 For Division of Highways

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			5-66
2			4			429

DWG. NO. 30