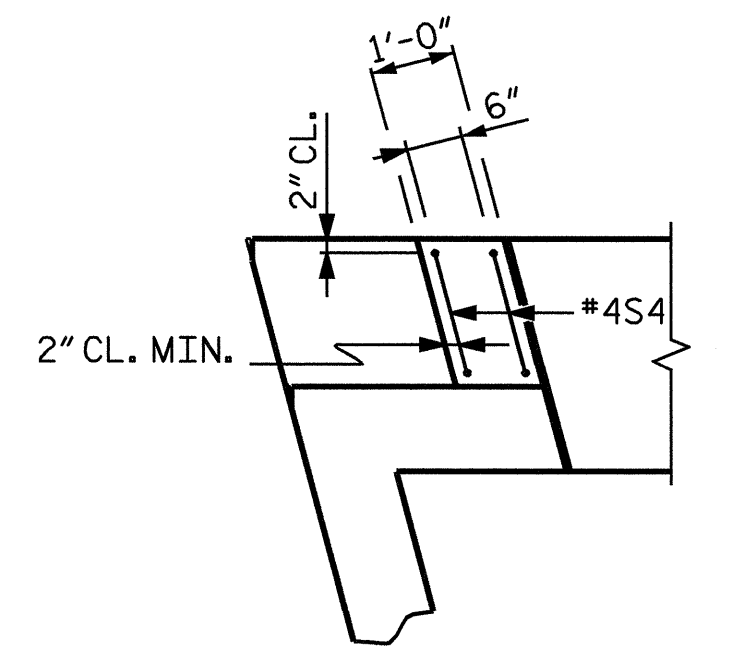
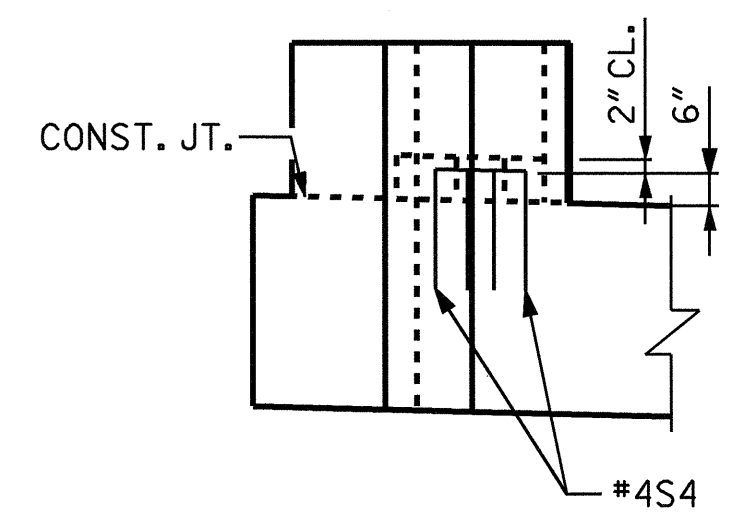


**SECTION A-A**

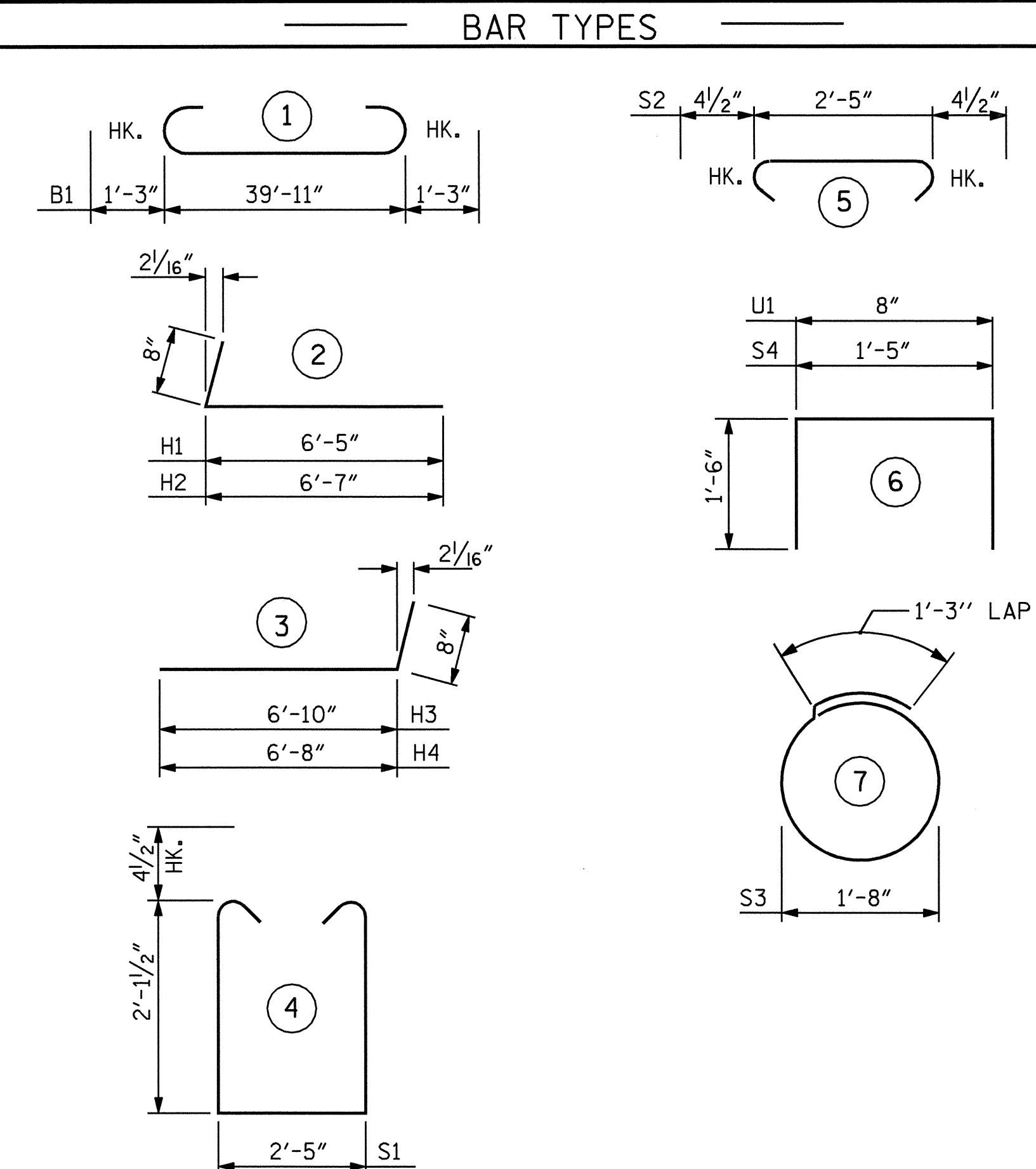


**PLAN**



**ELEVATION**

**LATERAL GUIDE**  
(EACH END SIMILAR)



ALL BAR DIMENSIONS ARE OUT TO OUT.

**BILL OF MATERIAL**

**END BENT #1**

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9		42'-5"	1154
B2	2	#5	STR	40'-2"	84
B3	8	#4	STR	21'-4"	114
B4	10	#4	STR	2'-5"	16
D1	22	#8	STR	2'-3"	132
H1	8	#4	2	7'-1"	38
H2	8	#4	2	7'-3"	39
H3	8	#4	3	7'-6"	40
H4	8	#4	3	7'-4"	39
K1	8	#4	STR	2'-8"	14
K2	12	#4	STR	21'-4"	171
S1	38	#4	4	7'-5"	188
S2	38	#4	5	3'-2"	80
S3	20	#4	7	6'-6"	87
S4	4	#4	6	4'-5"	12
U1	34	#4	6	3'-8"	83
V1	20	#4	STR	6'-0"	80
V2	20	#4	STR	5'-10"	78
V3	68	#5	STR	4'-5"	313

REINFORCING STEEL LBS = 2762

CLASS A CONCRETE BREAKDOWN

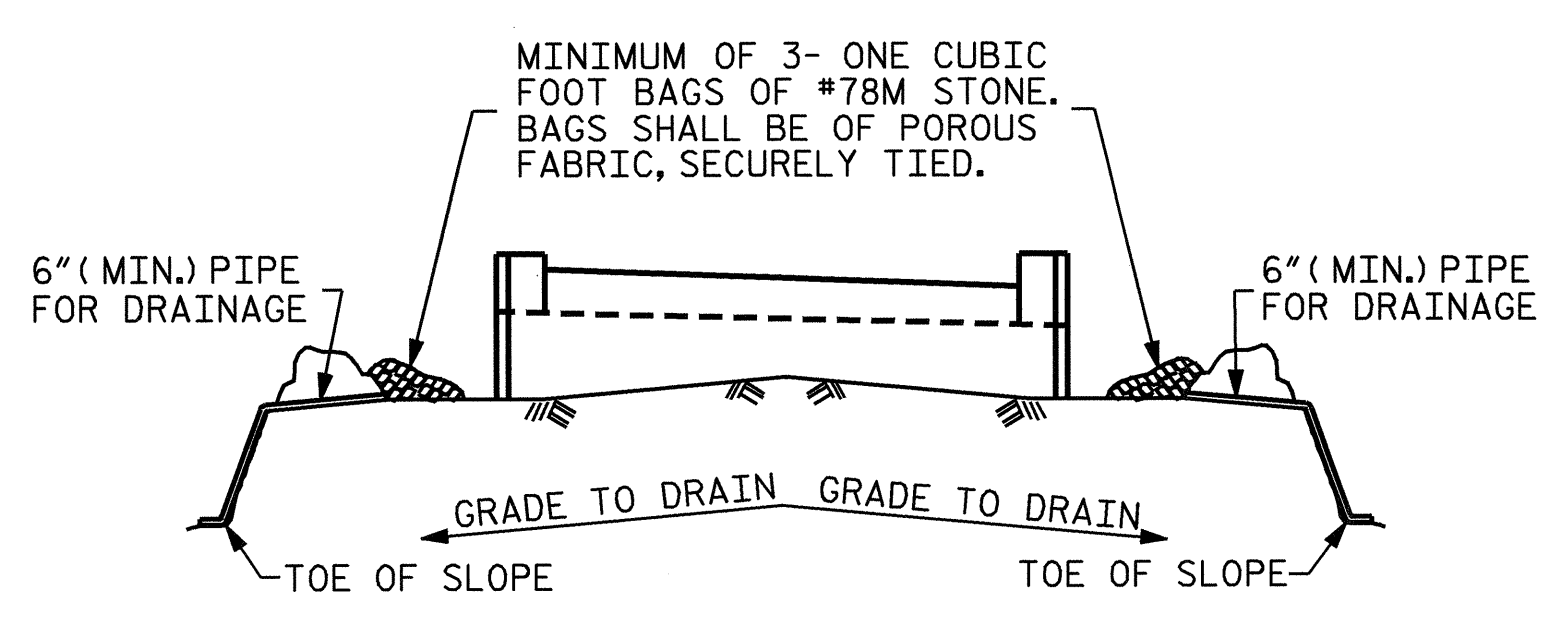
POUR #1 CAP & LOWER PART OF WINGS (C.Y.) 11.8

POUR #2 BACKWALL & UPPER PART OF WINGS (C.Y.) 5.5

POUR #3 LATERAL GUIDES (C.Y.) 0.1

TOTAL CLASS A CONCRETE (C.Y.) 17.4

HP 12 X 53 STEEL PILES NO. 10 (LIN FT.) 300



MINIMUM OF 3- ONE CUBIC FOOT BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

6" (MIN.) PIPE FOR DRAINAGE

GRADE TO DRAIN

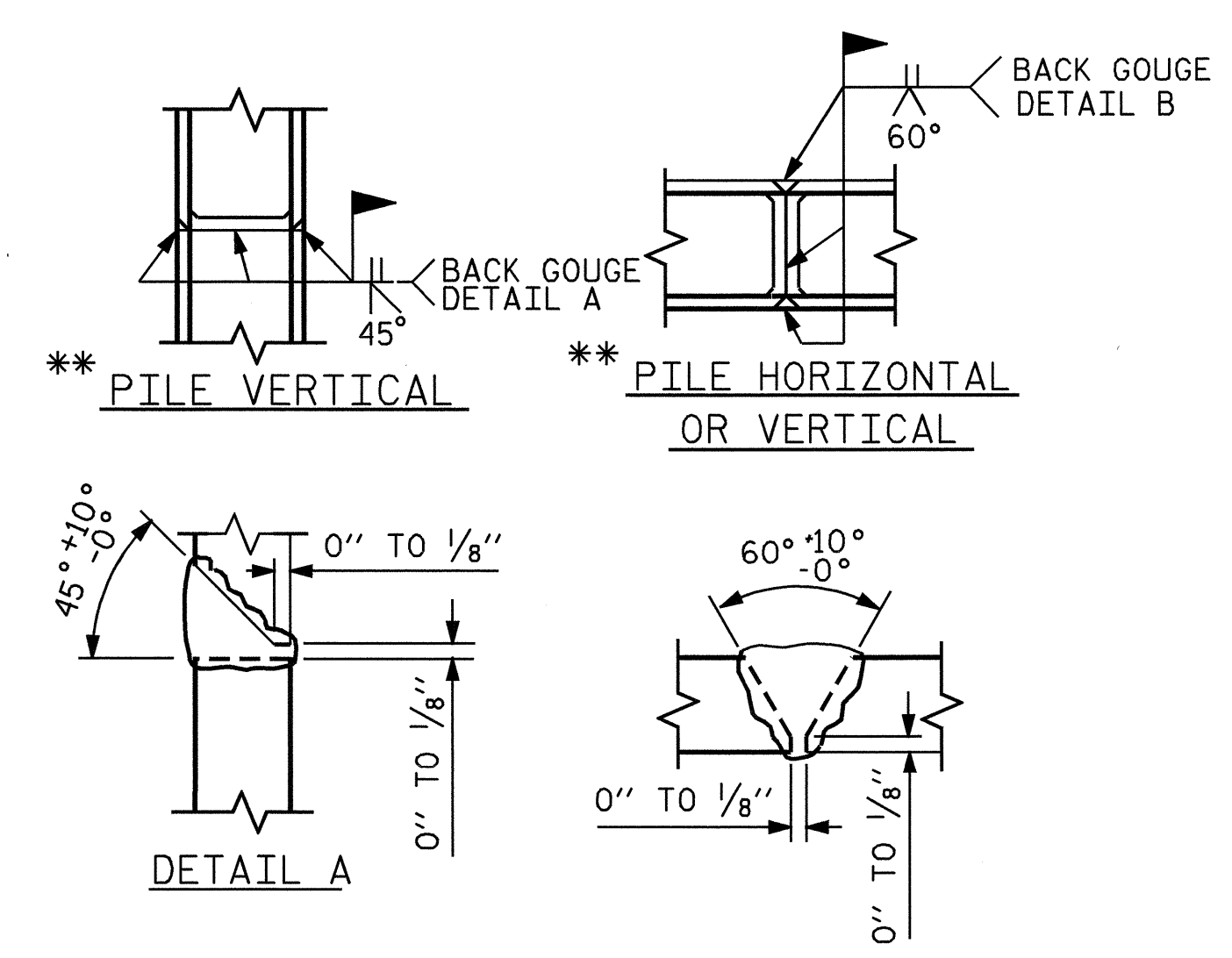
TOE OF SLOPE

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**



**PILE SPLICE DETAILS**

PROJECT NO. B-4266

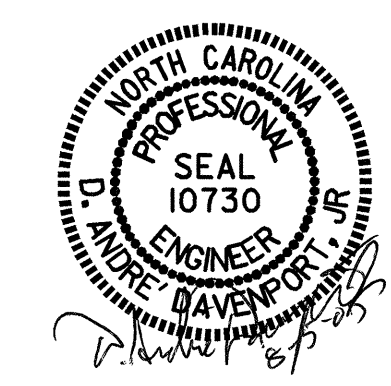
RUTHERFORD COUNTY

STATION: 13+29.00 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

**SUBSTRUCTURE  
END BENT#1**



REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-11
1			3			TOTAL SHEETS 18
2			4			

DRAWN BY: A. SORSENGINH/DAD DATE: 2/22/05  
CHECKED BY: H.T. BARBOUR DATE: 6/05