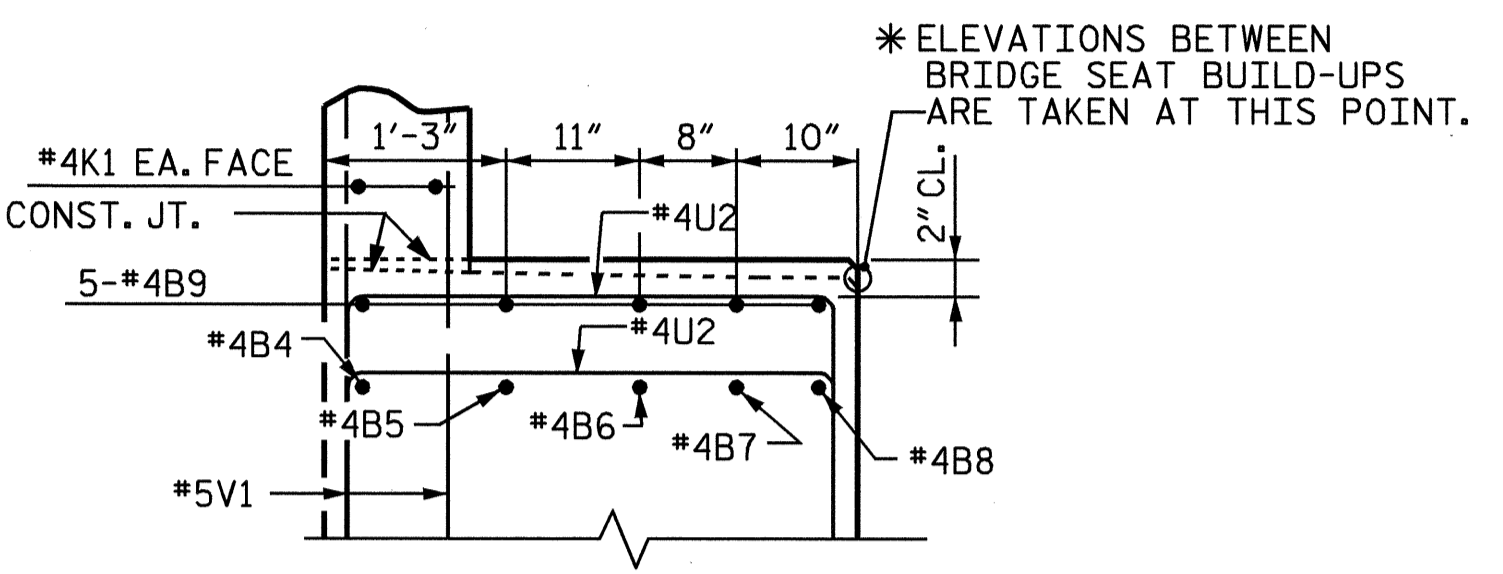


SECTION A-A



SECTION B-B

BAR TYPES

BILL OF MATERIAL
END BENT #2

BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#9	1	41'-7"	1414
B2	2	#5	STR	39'-3"	82
B3	8	#4	STR	20'-11"	112
B4	1	#4	STR	17'-7"	12
B5	1	#4	STR	17'-2"	11
B6	1	#4	STR	16'-9"	11
B7	1	#4	STR	16'-6"	11
B8	1	#4	STR	16'-3"	11
B9	10	#4	STR	2'-9"	18
B10	10	#4	STR	3'-4"	22
H1	10	#5	4	12'-0"	125
H2	10	#5	4	11'-8"	122
H3	9	#5	3	9'-8"	91
H4	9	#5	3	9'-11"	93
K1	16	#4	STR	20'-11"	224
K2	8	#4	STR	3'-4"	18
S1	36	#4	2	4'-1"	98
S2	36	#4	5	8'-4"	200
S3	3	#6	8	3'-9"	17
S4	1	#6	9	8'-11"	13
S5	14	#4	7	6'-6"	61
U1	32	#4	6	4'-8"	100
U2	17	#4	6	6'-4"	72
V1	64	#5	STR	6'-0"	401
V2	32	#5	STR	8'-5"	281
V3	28	#5	STR	7'-6"	219

REINFORCING STEEL = 3839 LBS

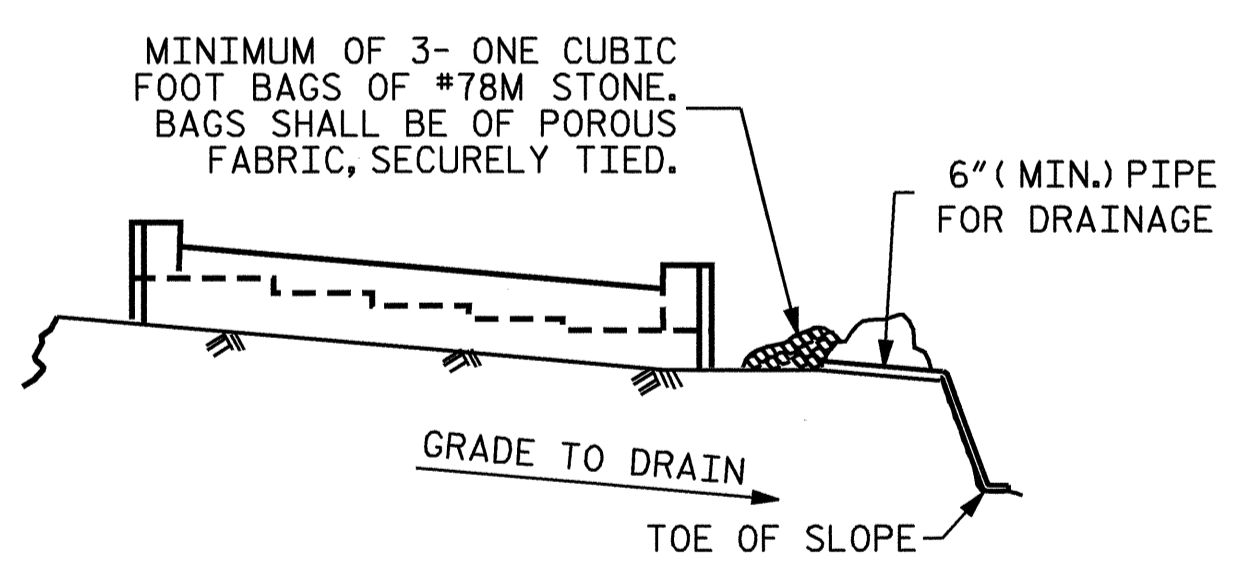
CLASS A CONCRETE
POUR #1 18.7 CU. YDS.
POUR #2 10.3 CU. YDS.
TOTAL 29.0 CU. YDS.

HP 12 x 53 STEEL PILES NO. 8 100 FEET

STEEL PILE POINTS (LEFT SIDE) NO. 4

PILE EXCAVATION (RIGHT SIDE)
IN SOIL 31 FEET
NOT IN SOIL 10 FEET

ALL BAR DIMENSIONS ARE OUT TO OUT.

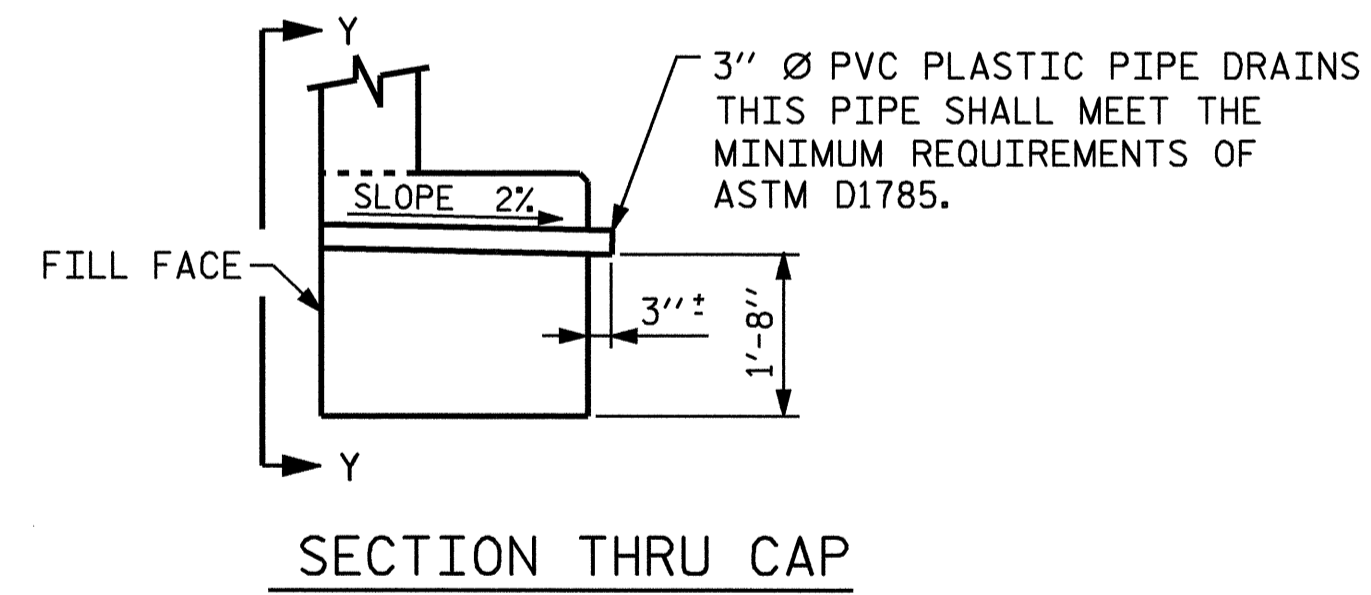


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

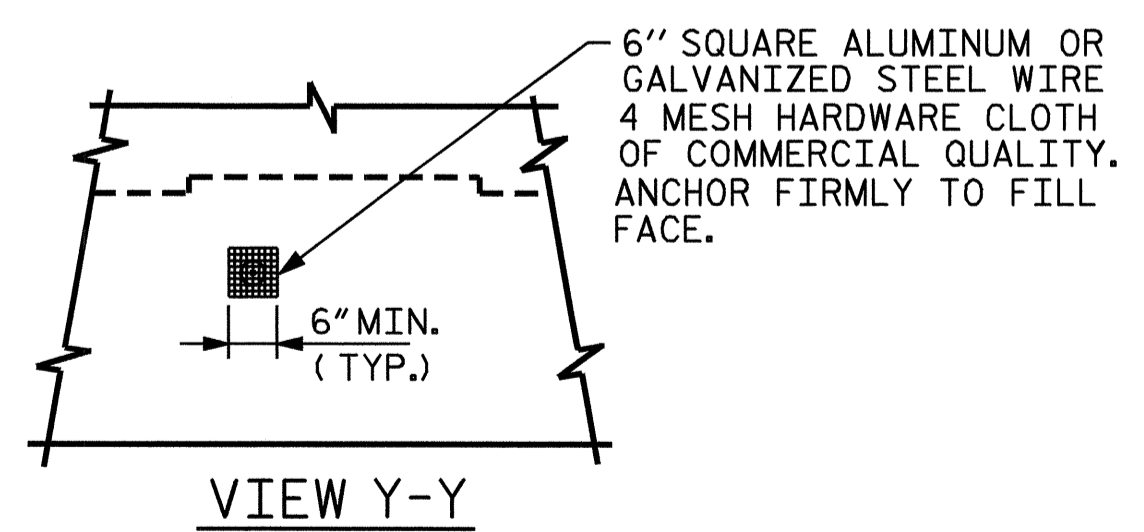
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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



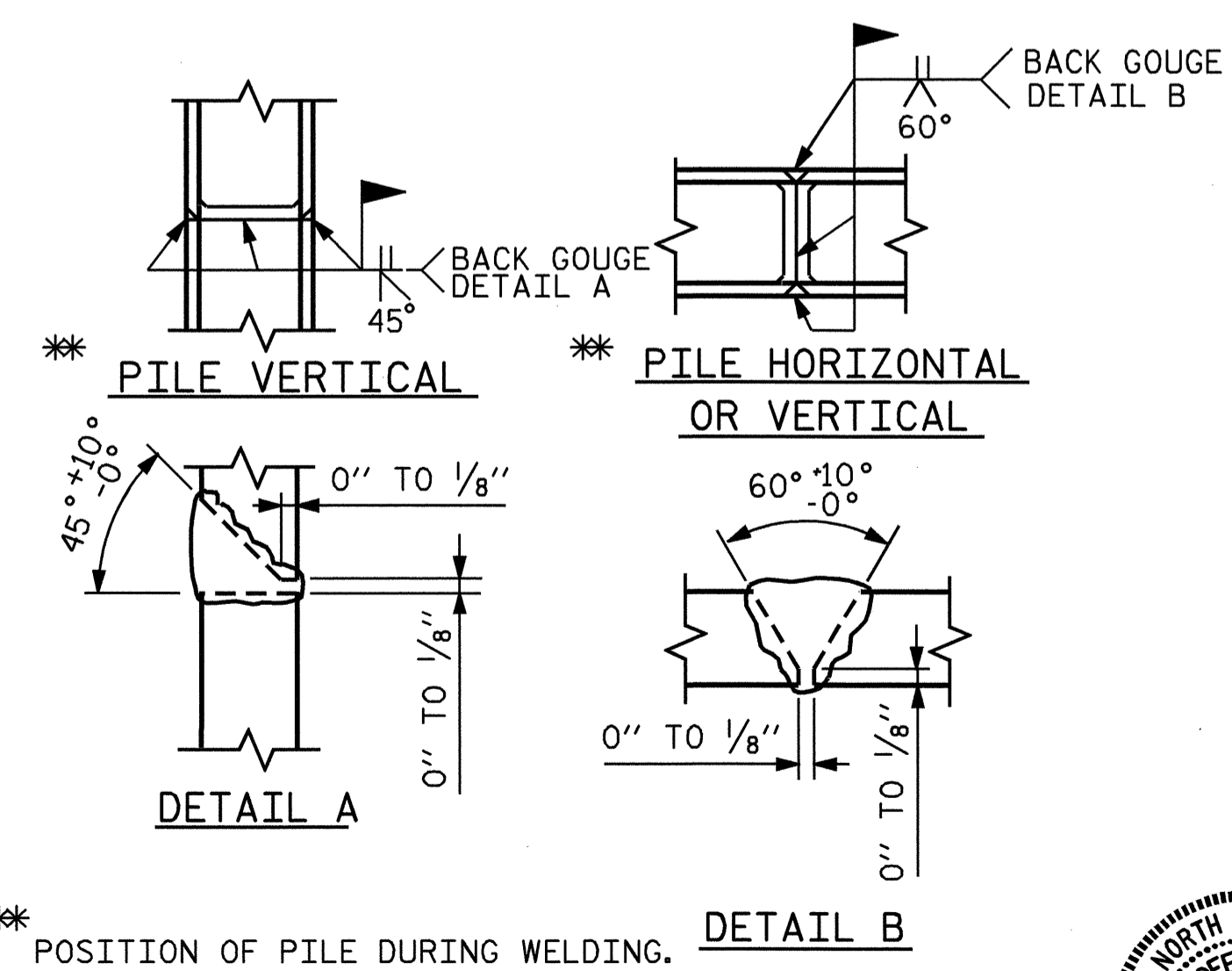
SECTION THRU CAP



VIEW Y-Y

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 FOR THE SEVERAL PAY ITEMS.

PIPE DRAIN DETAILS



POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

PROJECT NO. B-3506
RANDOLPH COUNTY
STATION: 17+97.50 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
END BENT #2
DETAILS

REVISIONS						SHEET NO. S-31
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 35
2			4			

