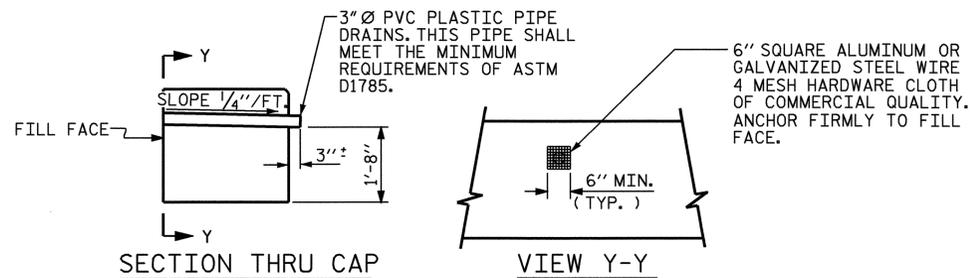


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

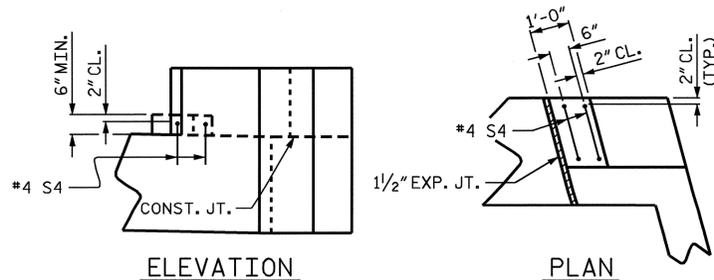
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT No. 1



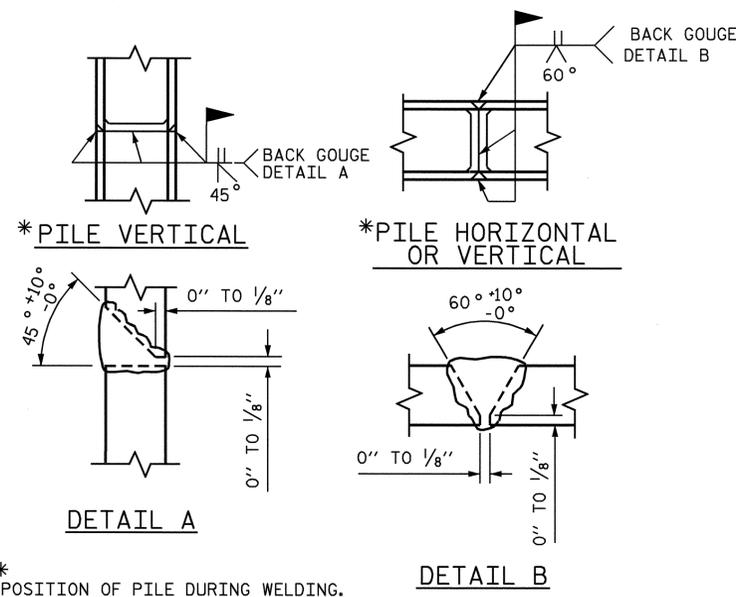
NOTE: NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE PVC PLASTIC PIPE DRAINS, HARDWARE CLOTH, AND FASTENERS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

PIPE DRAIN DETAILS

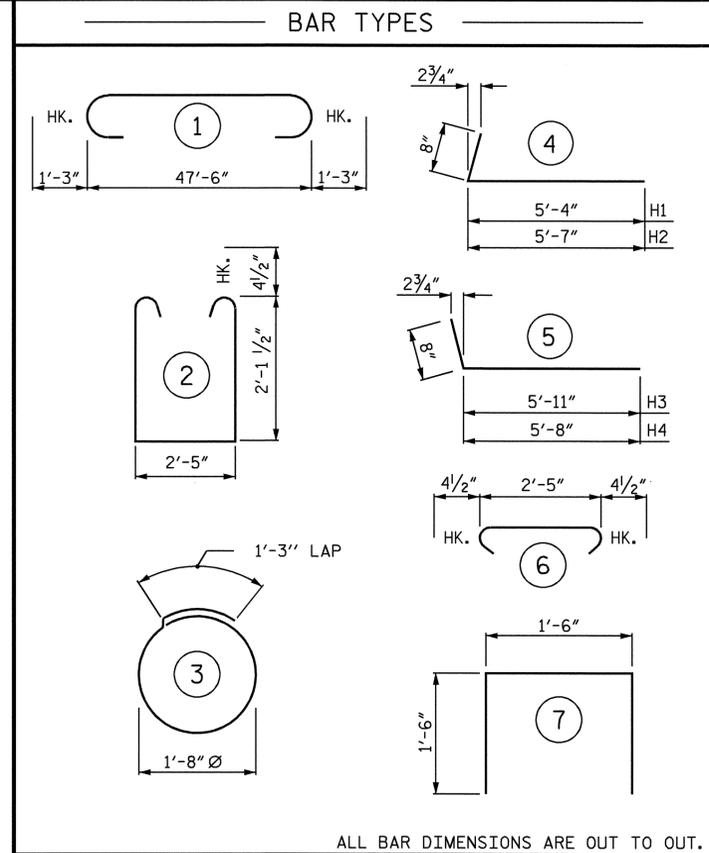


LATERAL GUIDE DETAIL

(RIGHT LATERAL GUIDE SHOWN, LEFT LATERAL GUIDE SIMILAR)



PILE SPLICE DETAILS



BILL OF MATERIAL

END BENT No. 1

BAR No.	SIZE	TYPE	LENGTH	WEIGHT	
B1	8	9	1	50'-0"	1360
B2	16	4	STR	25'-0"	267
B3	12	4	STR	2'-5"	19
D1	26	6	STR	1'-6"	59
H1	6	4	4	6'-0"	24
H2	6	4	4	6'-3"	25
H3	6	4	5	6'-7"	26
H4	6	4	5	6'-4"	25
K1	12	4	STR	2'-9"	22
S1	44	4	2	7'-5"	218
S2	44	4	6	3'-2"	93
S3	16	4	3	6'-6"	69
S4	4	4	7	4'-6"	12
V1	18	4	STR	4'-0"	48
V2	20	4	STR	4'-0"	53

REINFORCING STEEL 2,320 LBS.

CLASS A CONCRETE BREAKDOWN		
POUR #1	CAP & BOTT. OF WINGS	13.5 C.Y.
POUR #2	TOP OF WINGS	1.1 C.Y.
POUR #3	LATERAL GUIDES	0.1 C.Y.
TOTAL CLASS A CONCRETE		14.7 C.Y.

HP 12 x 53 STEEL PILES
NO. = 8 LIN. FT. = 100.0

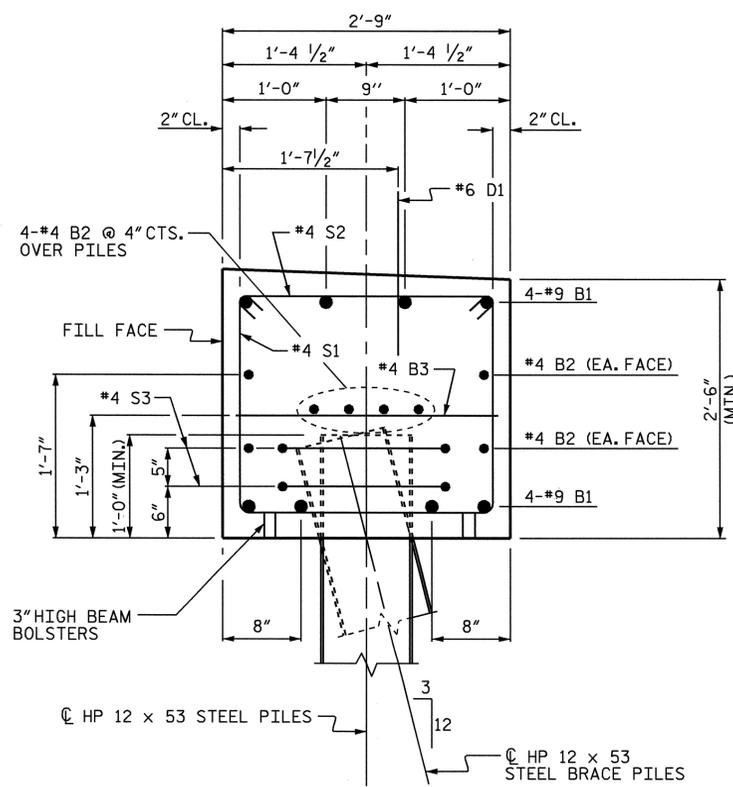
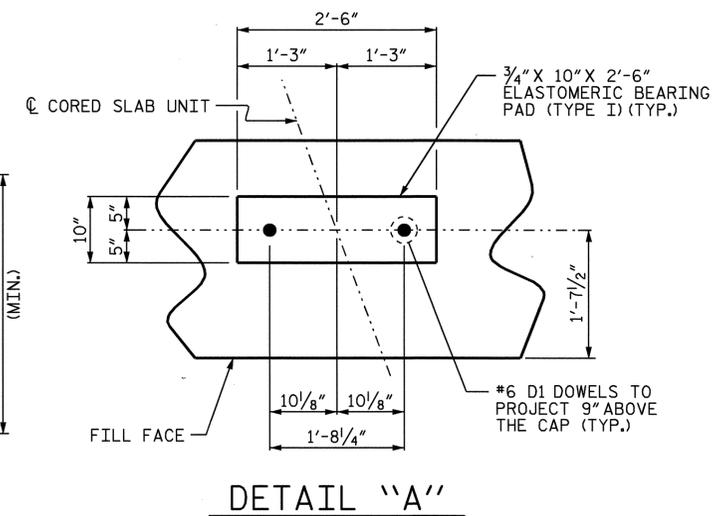
NOTES

STIRRUPS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR DOWELS.

PIPE DRAINS MAY BE SHIFTED SLIGHTLY AS NECESSARY TO CLEAR REINFORCING STEEL AND DOWELS.

THE LATERAL GUIDE AT EACH END OF THE CAP IS NOT TO BE POURED UNTIL AFTER CORED SLAB UNITS ARE IN PLACE.

THE CONTRACTOR SHALL PROVIDE FOR INSTALLATION OF THE 4" DIAMETER PIPE DRAIN THROUGH THE WING WALL AS REQUIRED FOR REINFORCED BRIDGE APPROACH FILLS. SEE ROADWAY PLANS. REINFORCING STEEL IN THE WING WALL MAY BE SHIFTED AS NECESSARY TO CLEAR THE DRAIN PIPE.



SECTION A-A

PROJECT NO. B-3646
GUILFORD COUNTY
STATION: 16+44.43 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT No. 1



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

S-13
TOTAL SHEETS
28

DRAWN BY: P.C. BREWER DATE: 9/9/03
CHECKED BY: S.B. WILLIAMS DATE: 9/29/03