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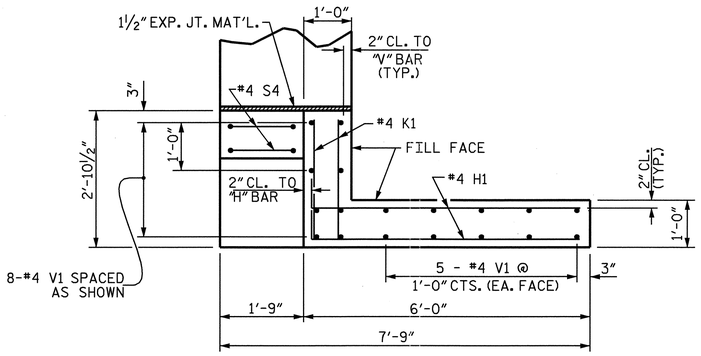
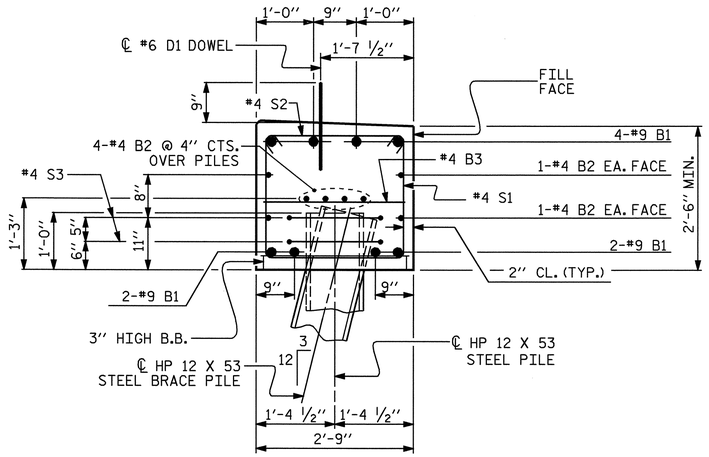
bngrady

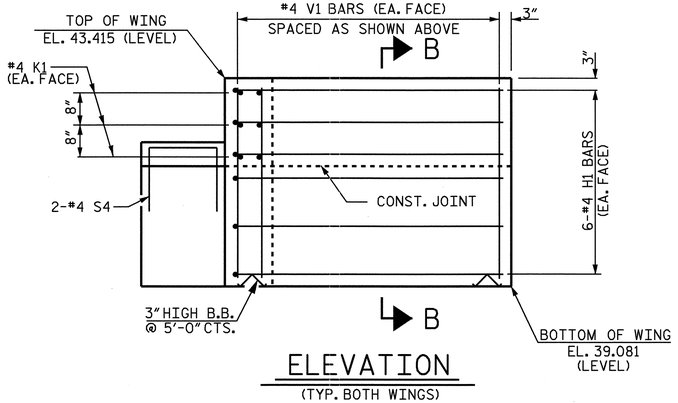


PLAN OF WING

(TYP. BOTH WINGS)

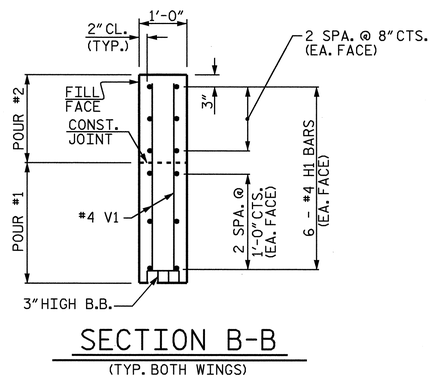


SECTION A-A



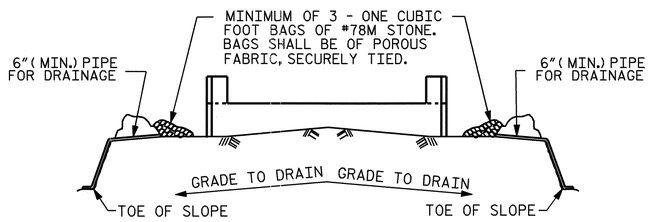
ELEVATION

(TYP. BOTH WINGS)



SECTION B-B

(TYP. BOTH WINGS)

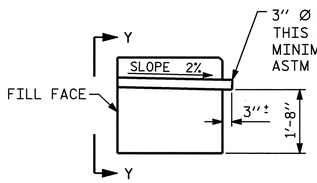


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

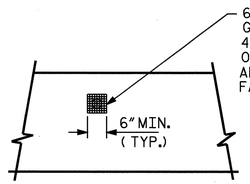
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

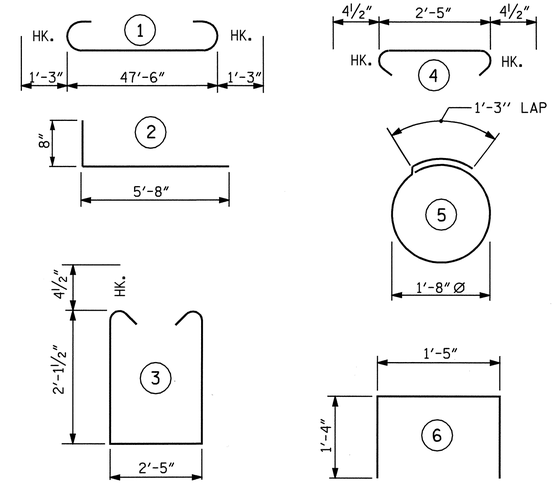


VIEW Y-Y

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 BID FOR THE SEVERAL PAY ITEMS.

PIPE DRAIN DETAILS

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

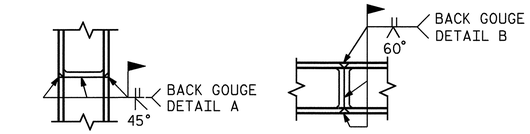
END BENT NO. 2

BAR NO	SIZE	TYPE	LENGTH	WEIGHT
B1 8	9	1	50'-0"	1360
B2 16	4	STR	25'-1"	268
B3 12	4	STR	2'-5"	19
D1 28	6	STR	1'-6"	63
H1 24	4	2	6'-4"	102
K1 12	4	STR	2'-6"	20
S1 50	4	3	7'-5"	248
S2 50	4	4	3'-2"	106
S3 18	4	5	6'-6"	78
S4 4	4	6	4'-1"	11
V1 36	4	STR	4'-0"	96
REINFORCING STEEL			LBS.	2371

CLASS A CONCRETE BREAKDOWN :

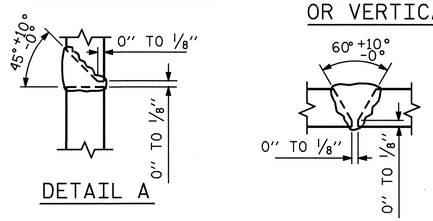
POUR #1 - (CAP & LOWER WINGS)	13.2 C.Y.
POUR #2 - (UPPER WINGS)	1.1 C.Y.
POUR #3 - (LATERAL GUIDES)	0.1 C.Y.
TOTAL	14.4 C.Y.

HP 12 × 53 STEEL PILES
NO. = 9 LIN. FEET = 855



*PILE VERTICAL

*PILE HORIZONTAL OR VERTICAL



*POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS

PROJECT NO. B-3871
MARTIN COUNTY
STATION: 16+67.50 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT No. 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			16

DRAWN BY : DAN PLATICA DATE : 7/03
CHECKED BY : B.N. GRADY DATE : 9/03