

NOTES

STIRRUPS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR ANCHOR BOLTS.

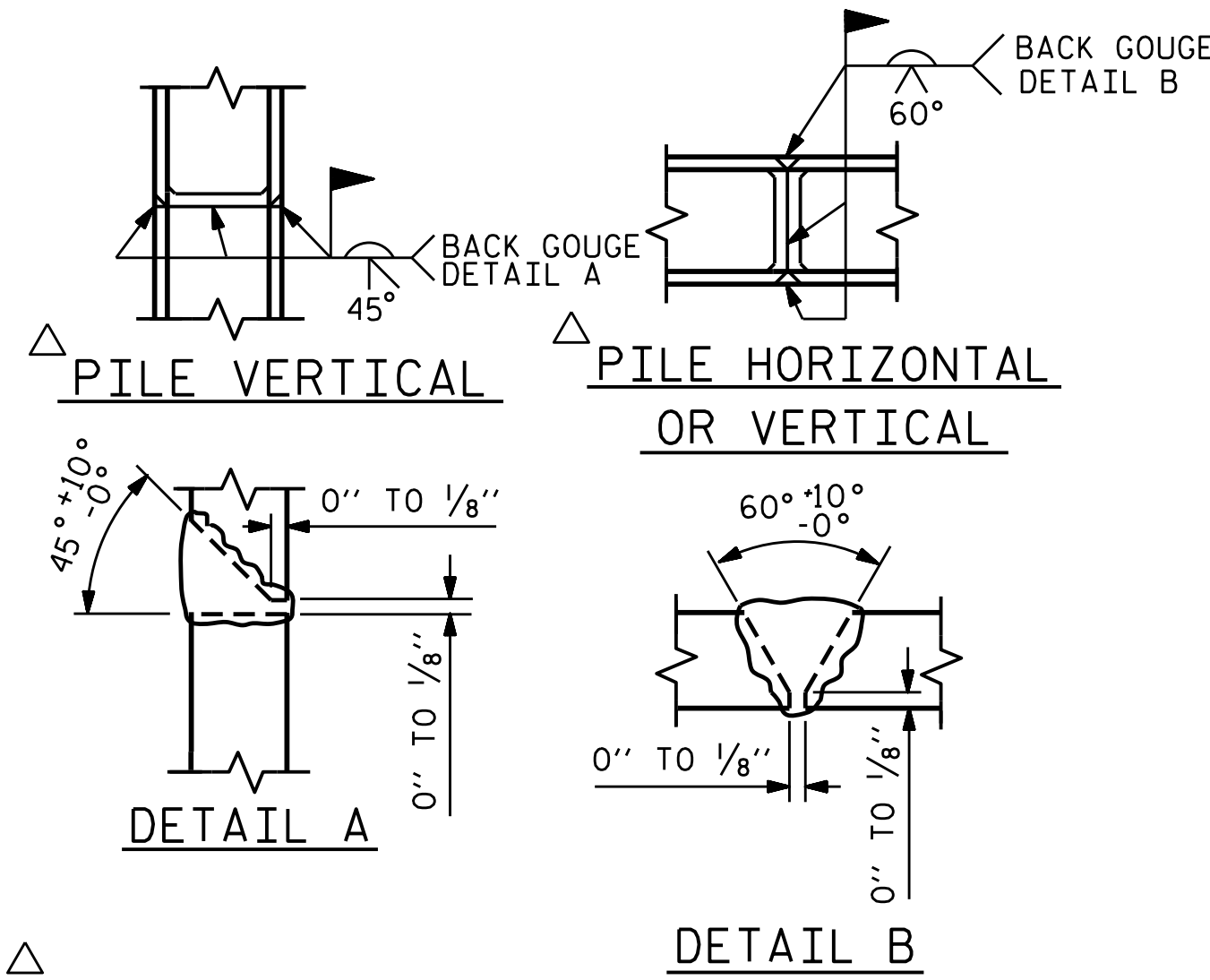
FOR PIPE INSERT DETAILS, SEE BEARINGS SHEET.

BACKWALL SHALL BE PLACED BEFORE APPLYING THE EPOXY PROTECTIVE COATING.

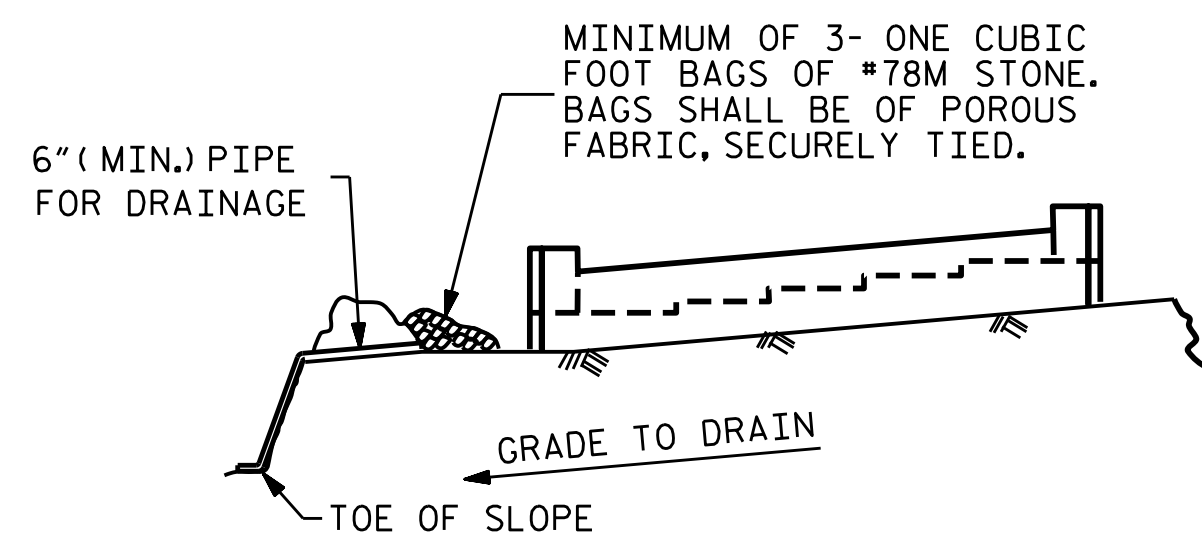
THE TOP SURFACE AREAS OF THE END CAP SHALL BE CURED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS EXCEPT THE MEMBRANE CURING COMPOUND METHOD SHALL NOT BE USED.

THE TOP SURFACE OF THE CAP EXCEPT THE BRIDGE SEAT BUILDUPS SHALL BE SLOPED TRANSVERSELY FROM THE FILL FACE TO THE BACK FACE AT THE RATE OF 2%.

FOR MSE RETAINING WALLS, SEE SPECIAL PROVISIONS.



PILE SPLICE DETAILS

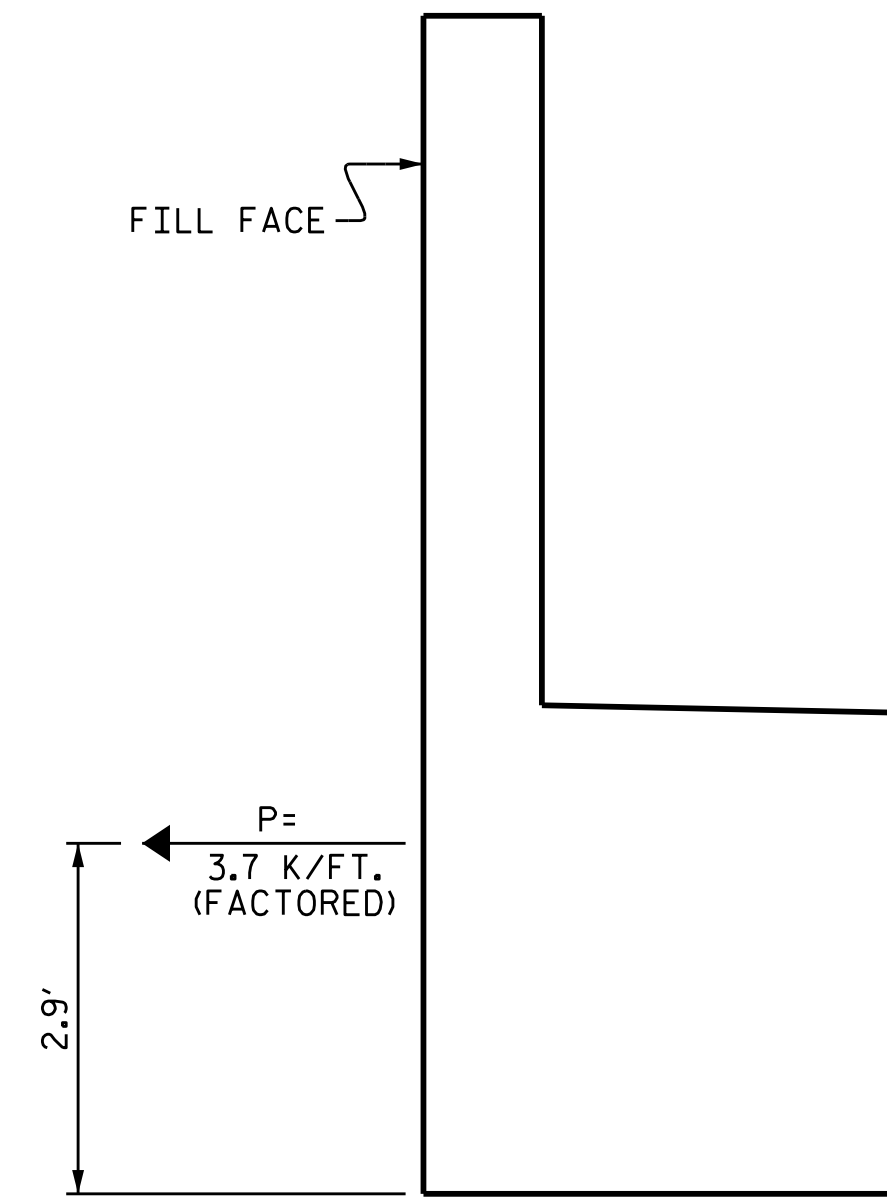


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

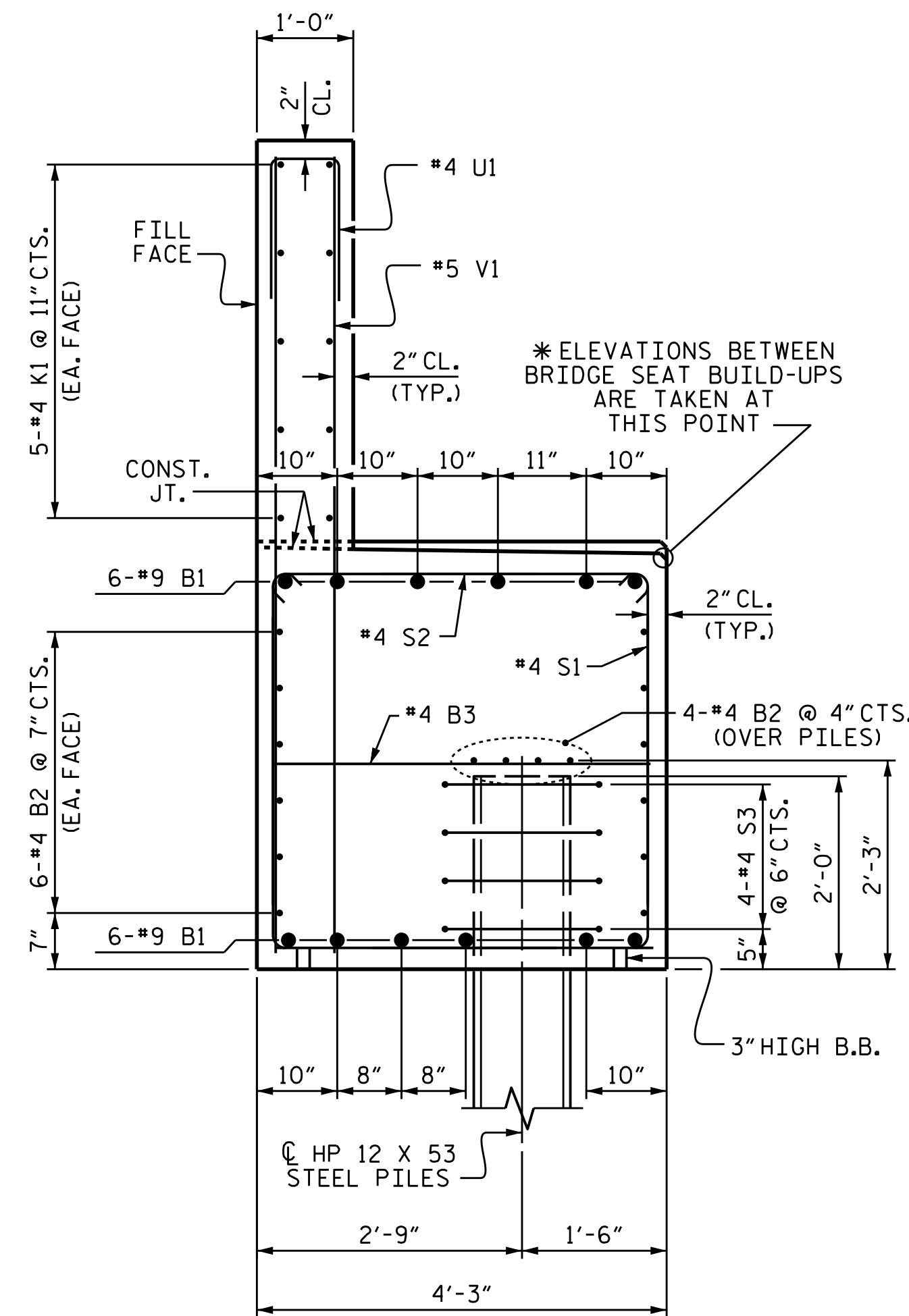
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



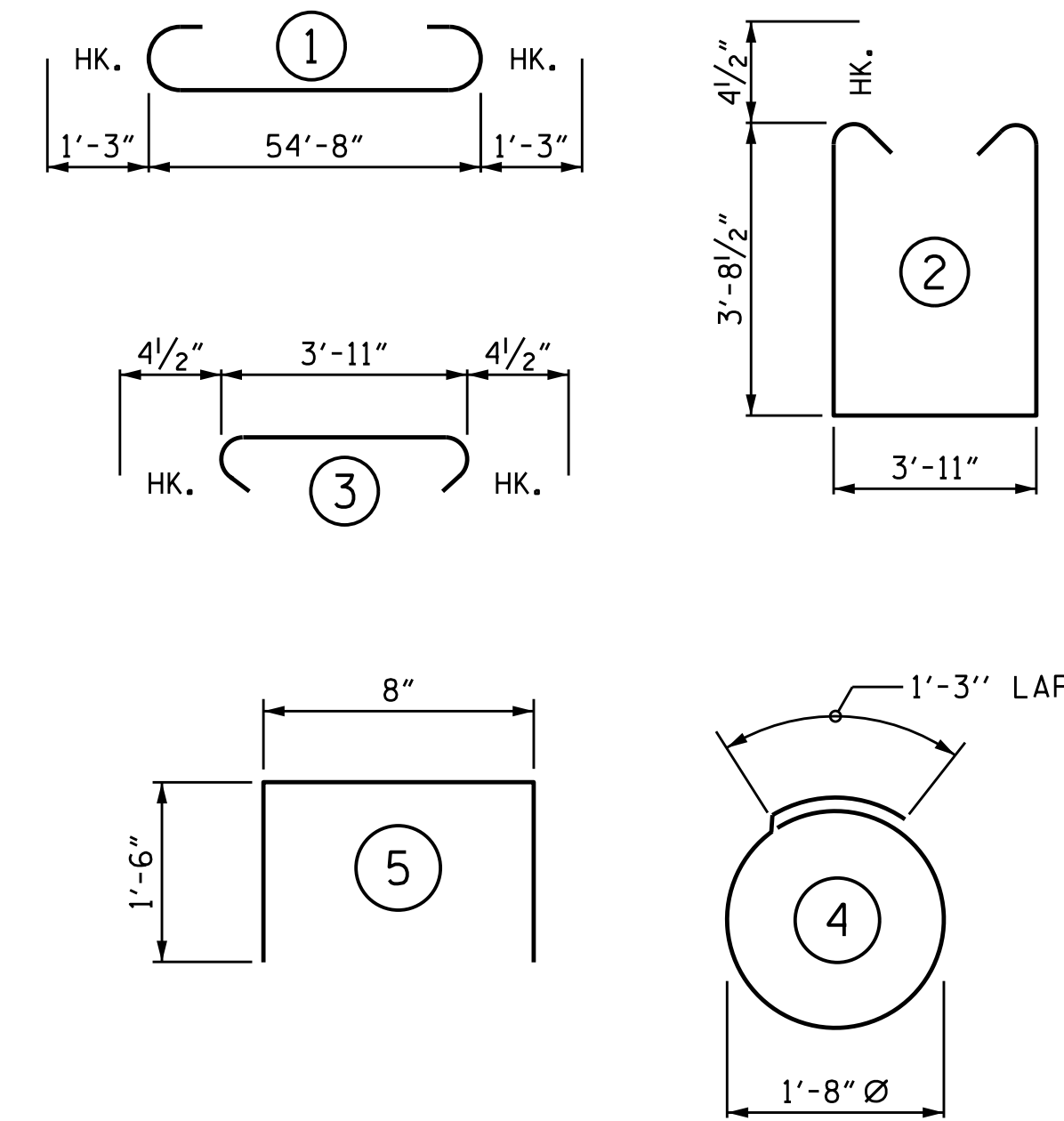
TIE BACK DETAILS

(DETAIL SHOWING TIE BACK RESTRAINT FOR END BENT)



SECTION THRU CAP

BAR TYPES

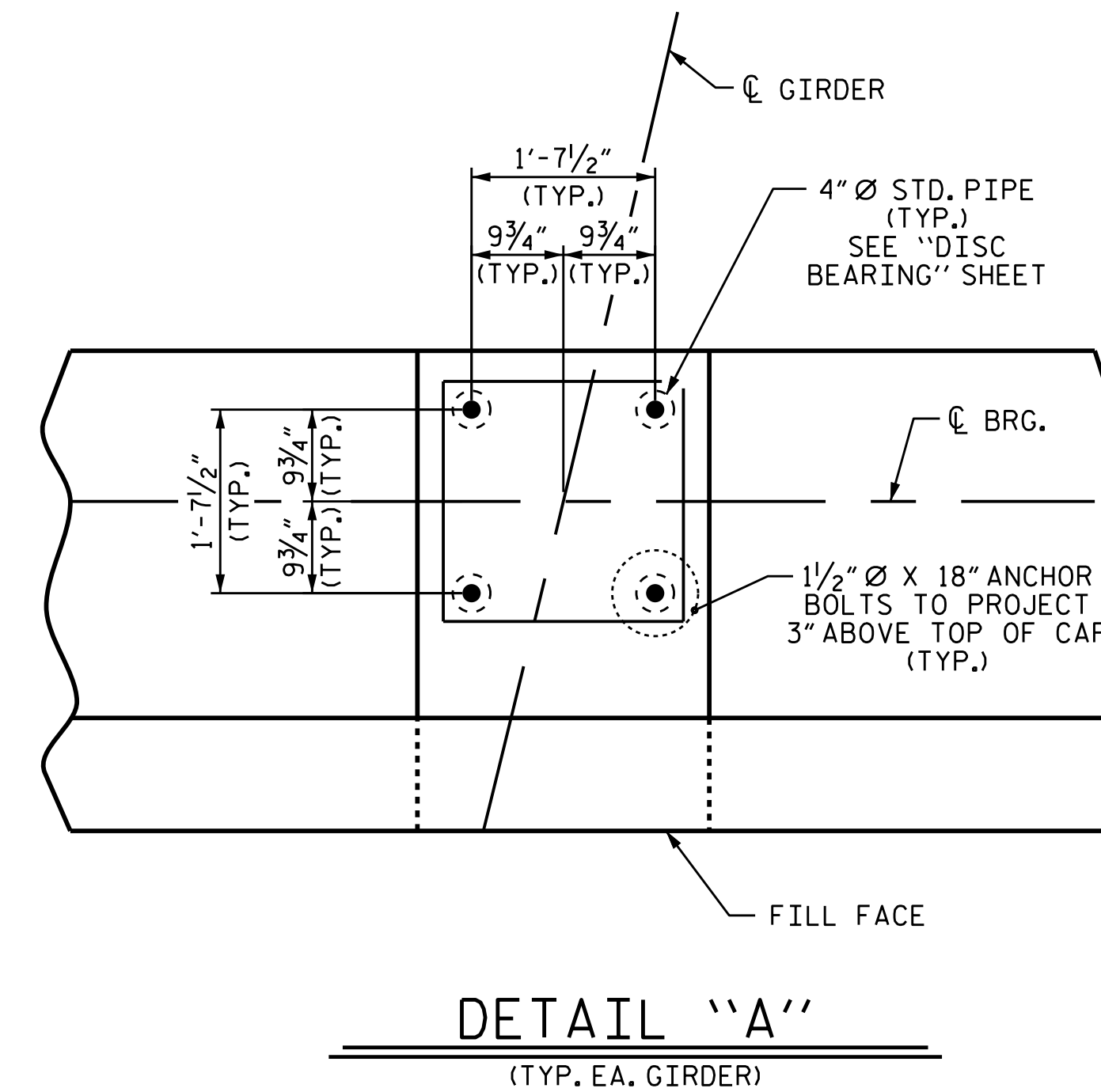


ALL BAR DIMENSIONS ARE OUT TO OUT

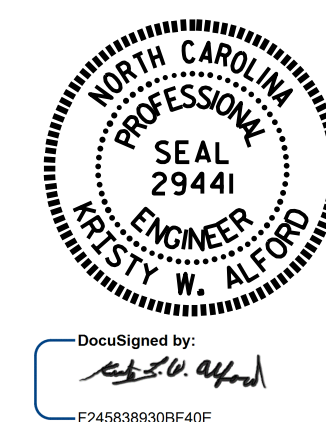
BILL OF MATERIAL

END BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	12	#9		57'-2"	2332
B2	32	#4	STR	28'-10"	616
B3	14	#4	STR	3'-11"	37
K1	20	#4	STR	28'-10"	385
S1	76	#4	2	12'-1"	613
S2	76	#4	3	4'-8"	237
S3	36	#4	4	6'-6"	156
U1	55	#4	5	3'-8"	135
V1	90	#5	STR	8'-2"	767
V2	20	#5	STR	7'-7"	158
REINFORCING STEEL					5436 LBS.
CLASS A CONCRETE BREAKDOWN					
POUR #1 CAP					36.7 C.Y.
POUR #2 BACKWALL					8.8 C.Y.
TOTAL CLASS A CONCRETE					45.5 C.Y.
HP 12 X 53 STEEL PILES					
NO. = 9					270 LIN. FT.
PILE EXCAVATION IN SOIL					44 LIN. FT.
PILE EXCAVATION NOT IN SOIL					38 LIN. FT.



PROJECT NO. B-5121/B-5317
 WAKE COUNTY
 STATION: 20+19.94 -FLYOVER-
 SHEET 2 OF 2



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE END BENT 1					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S-90					TOTAL SHEETS 110

DRAWN BY :	J.P. ADAMS	DATE :	1/2016
CHECKED BY :	I.L. AVERETTE	DATE :	2/2016
DESIGN ENGINEER OF RECORD:	R.L. CHESSON	DATE :	2/2016

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED