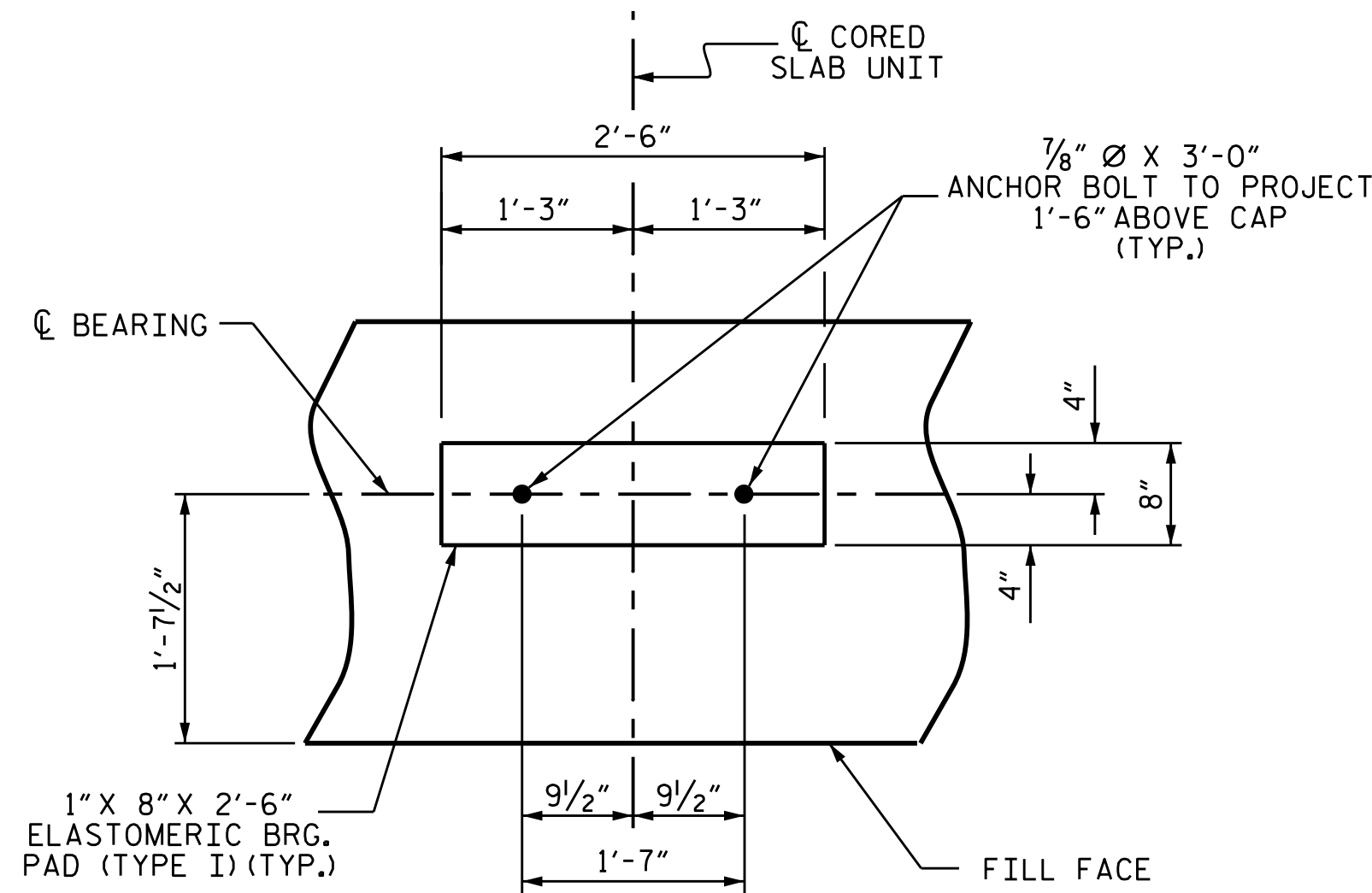


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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.

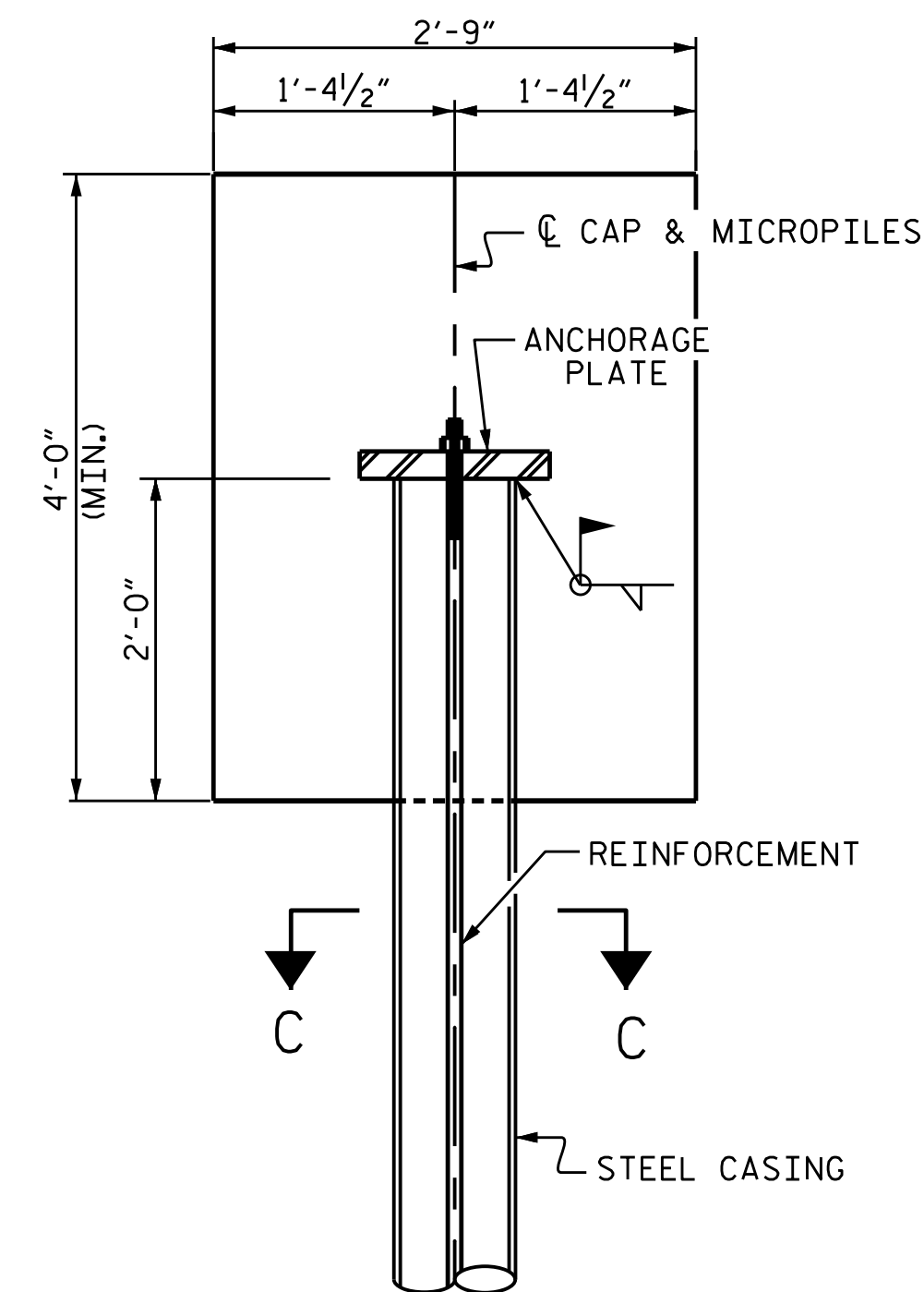
NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



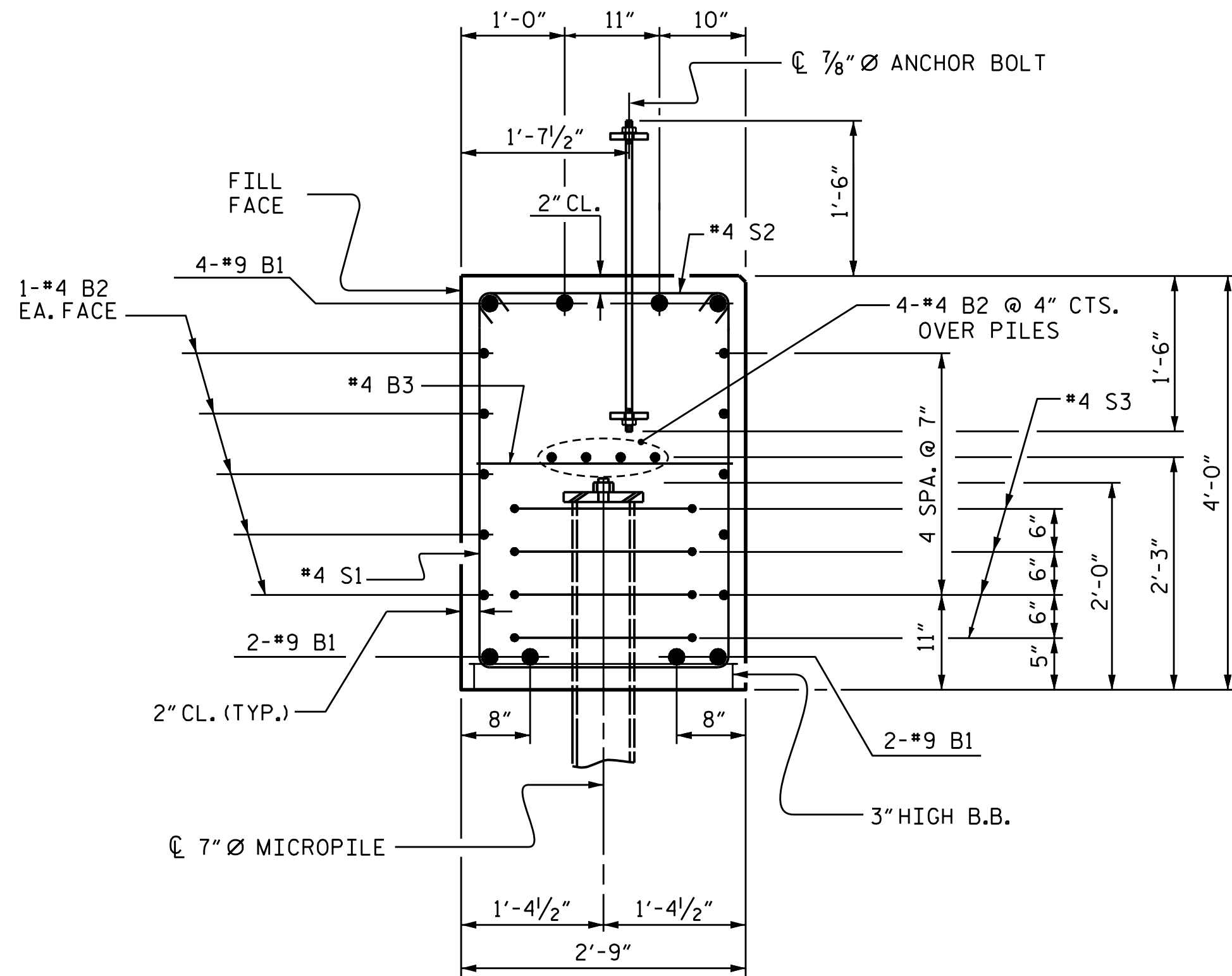
DETAIL "A"

(END BENT No. 1 SHOWN, END BENT No. 2 SIMILAR BY ROTATION)



MICROPILE DETAIL

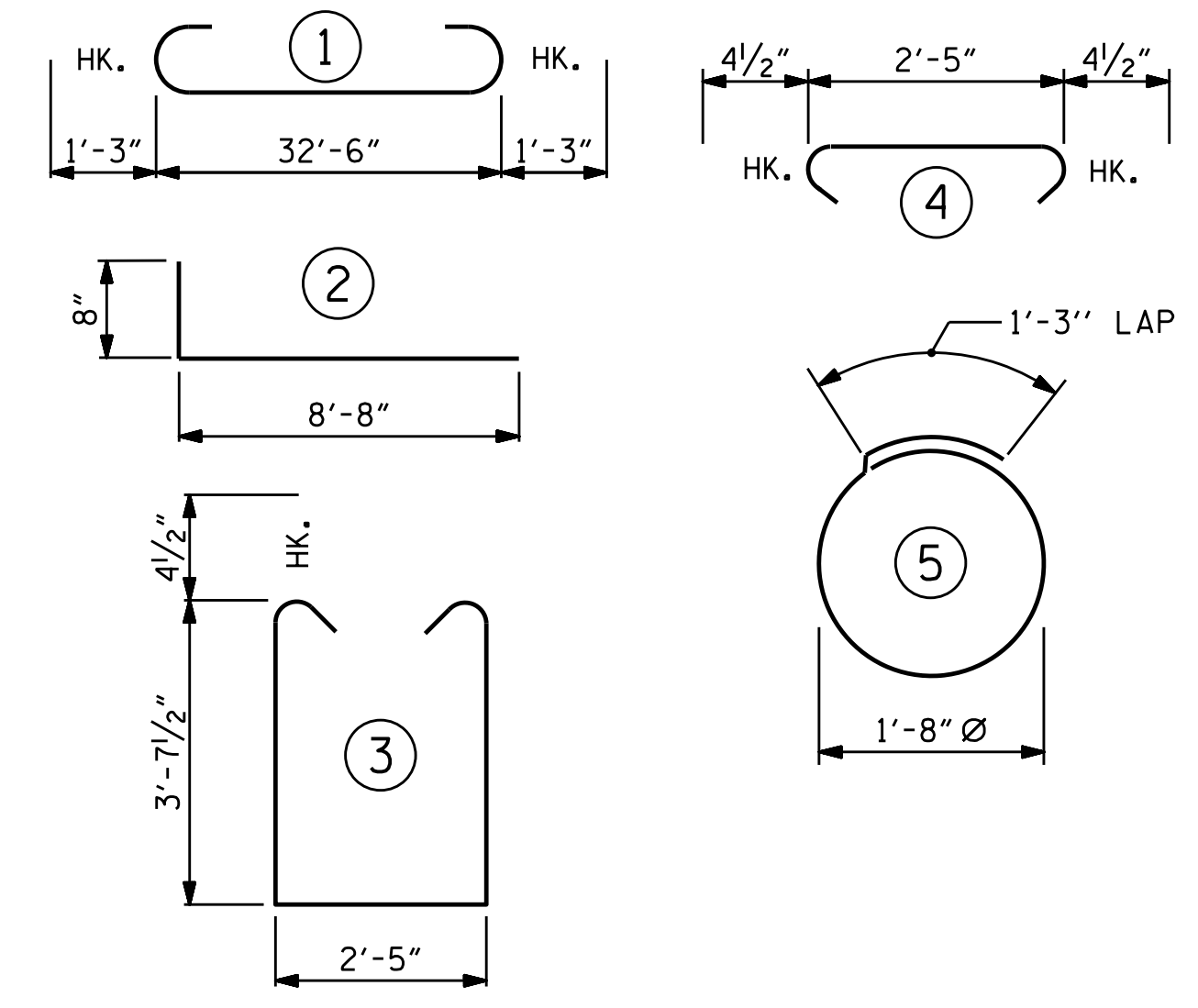
(TYP. EACH MICROPILE)



SECTION A-A

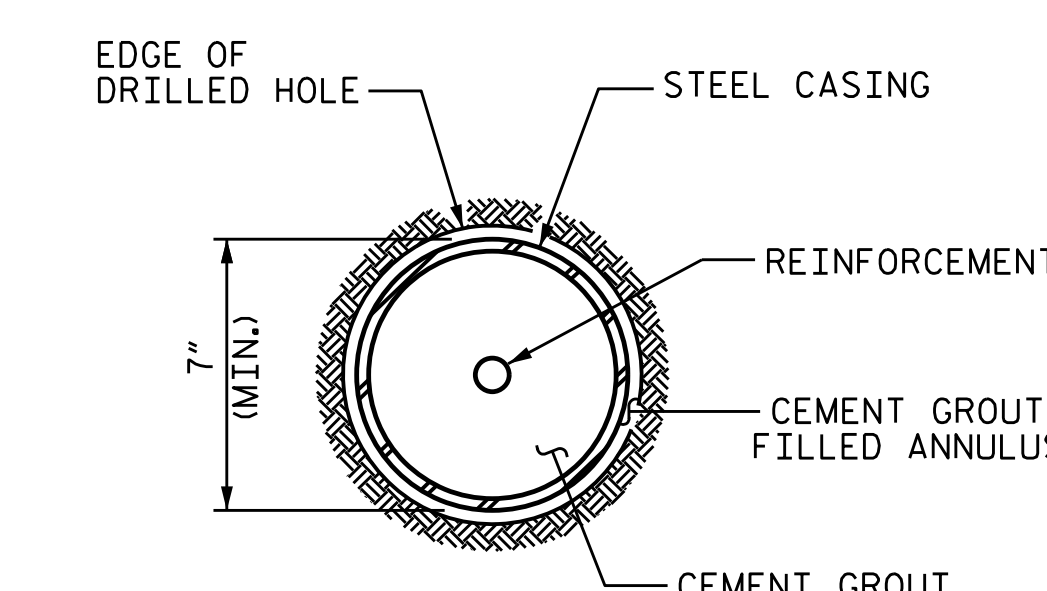
FOR 7/8" DIA. ANCHOR BOLT ASSEMBLY, SEE "BLOCKOUT DETAIL FOR ANCHOR BOLTS", SHEET S-7.

BILL OF MATERIAL FOR ONE END BENT					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	#8		35'-0"	952	
B2	#4	STR	17'-7"	329	
B3	#4	STR	2'-5"	15	
H1	#4		9'-4"	224	
K1	#4	STR	2'-7"	21	
S1	#4		10'-5"	320	
S2	#4		3'-2"	97	
S3	#4		6'-6"	87	
V1	#4	STR	5'-4"	185	
REINFORCING STEEL (FOR ONE END BENT)				2230 LBS.	
CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT)					
POUR #1	CAP & LOWER PART OF WINGS			15.8 C.Y.	
POUR #2	UPPER PART OF WINGS			1.4 C.Y.	
TOTAL CLASS A CONCRETE				17.2 C.Y.	



ALL BAR DIMENSIONS ARE OUT TO OUT.

END BENT No. 1 7" Ø MICROPILES No: 5 EACH	END BENT No. 2 7" Ø MICROPILES No: 5 EACH
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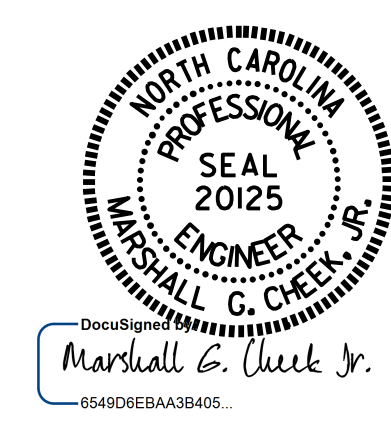
SECTION C-C

PROJECT NO. B-5383
 AVERY COUNTY
 STATION: 12+71.00 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 END BENT No. 1 & 2
 DETAILS



DRAWN BY: M. POOLE	DATE: 9-16
CHECKED BY: W. J. HARRIS	DATE: 11-16
DESIGN ENGINEER OF RECORD: W. J. HARRIS	DATE: 11-16

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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED