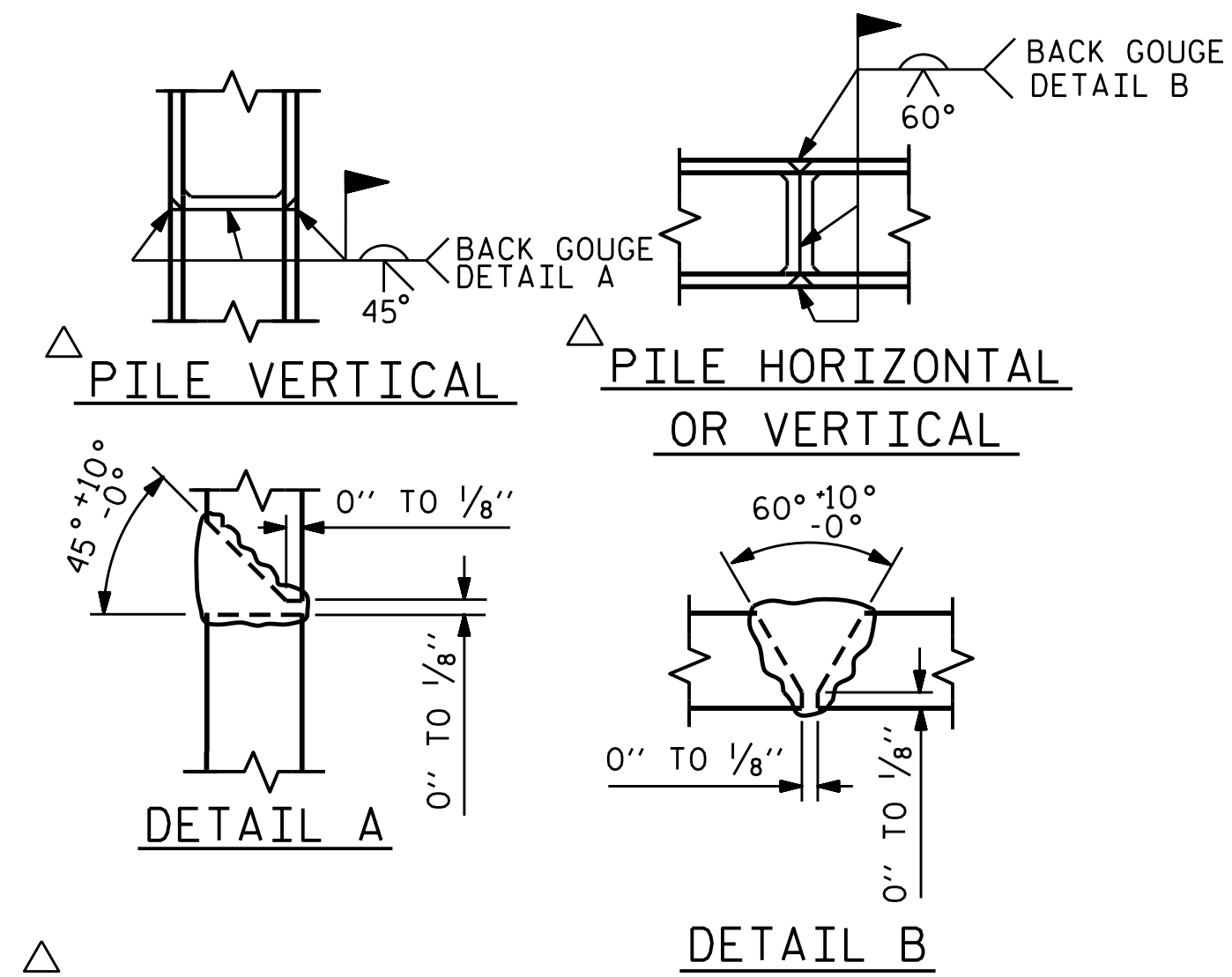


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

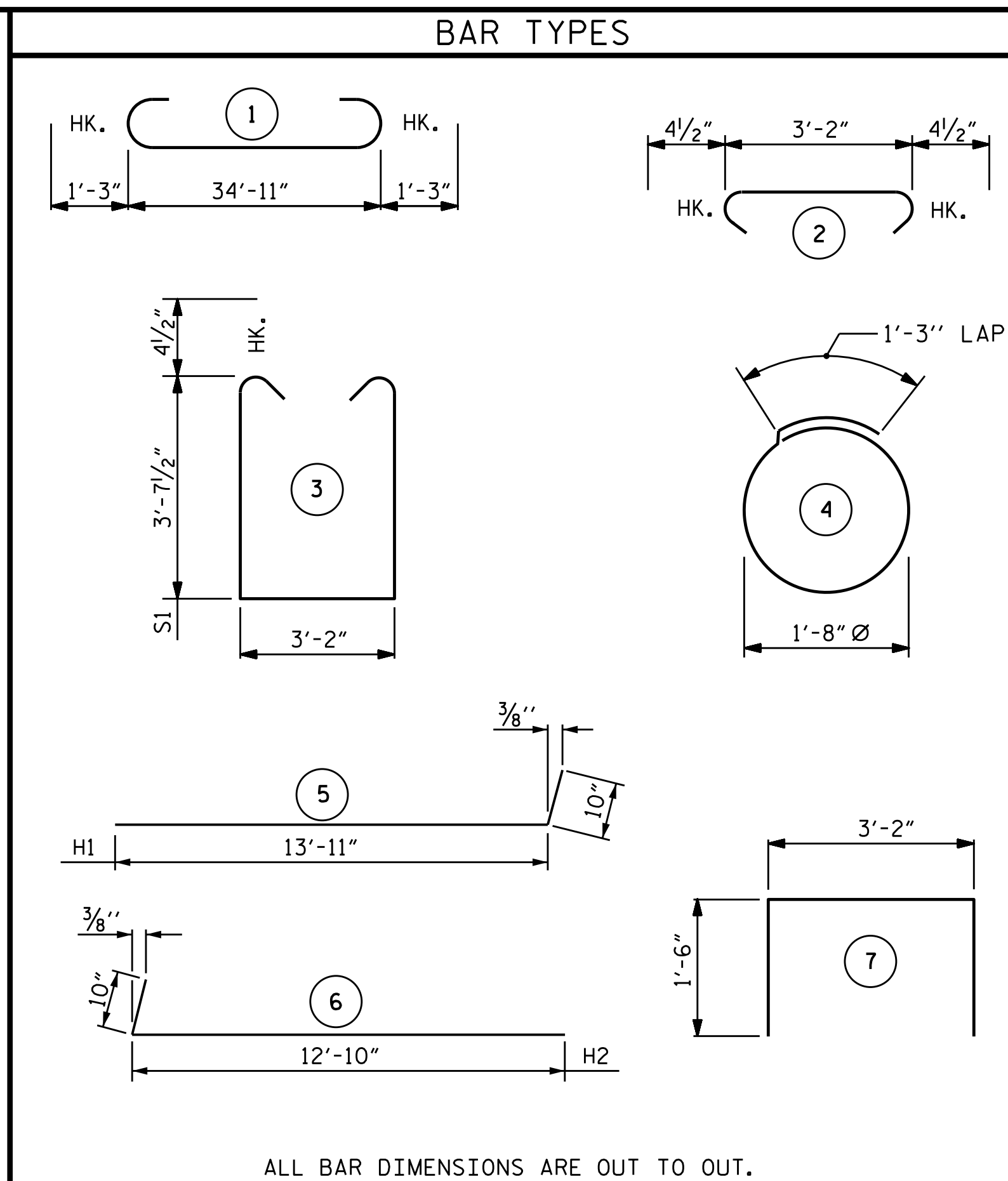
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

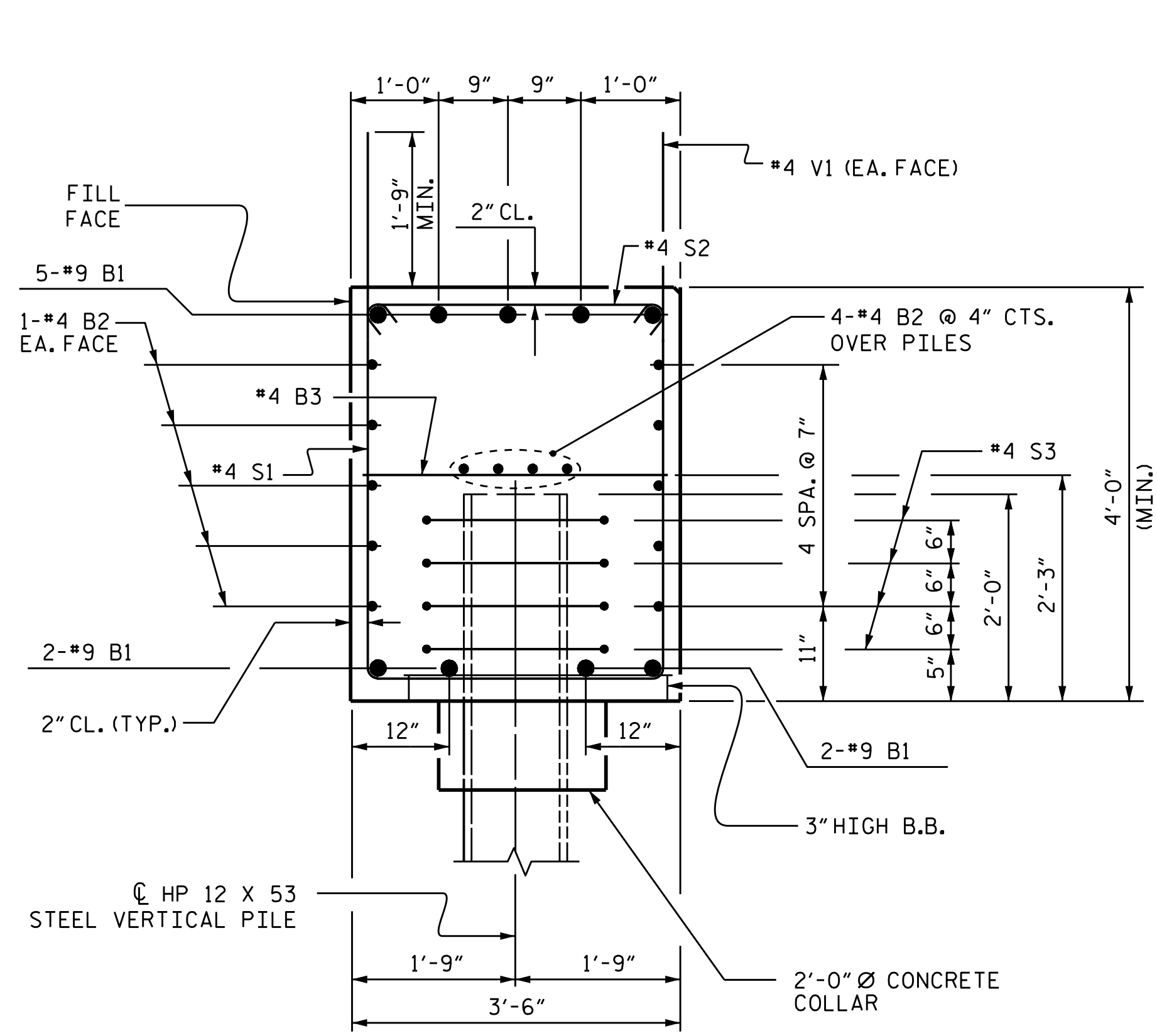


PILE SPLICE DETAILS

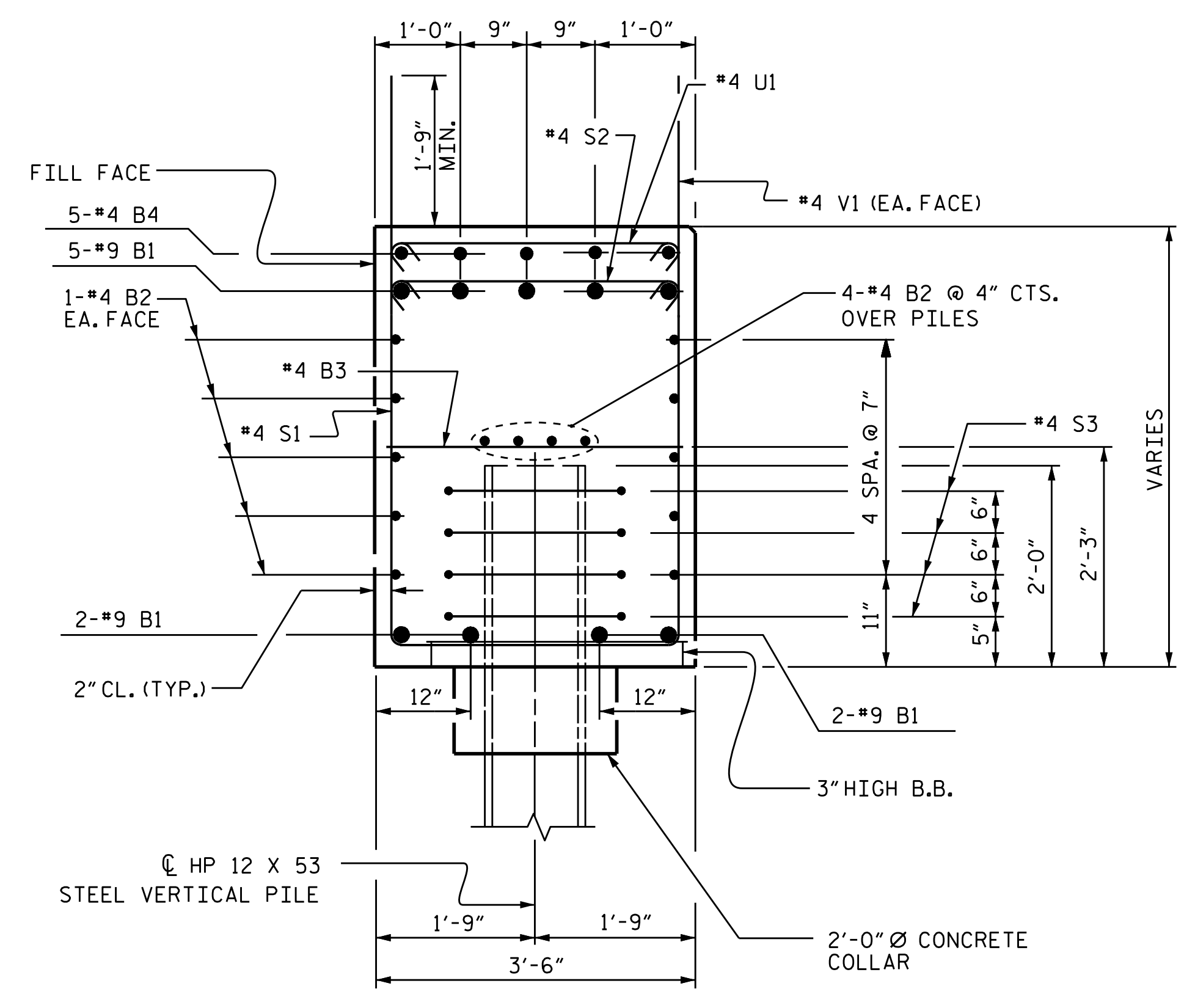


ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL					
END BENT #1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	9	#9		37'-5"	1145
B2	28	#4	STR	18'-9"	351
B3	9	#4	STR	3'-2"	19
B4	5	#4	STR	8'-4"	28
H1	18	#5	5	14'-9"	277
H2	16	#5	6	13'-8"	228
S1	50	#4	3	11'-2"	373
S2	50	#4	2	3'-11"	131
S3	24	#4	4	6'-6"	104
U1	6	#4	7	6'-2"	25
V1	65	#4	STR	6'-2"	268
V2	26	#5	STR	6'-0"	163
V3	24	#5	STR	5'-6"	138
REINFORCING STEEL					= 3250 LBS
CLASS A CONCRETE					
POUR #1 (CAP & LOWER PART OF WINGS)					22.6 C.Y.
CONCRETE COLLARS					1.0 C.Y.
TOTAL					23.6 C.Y.
HP 12 x 53 STEEL PILES					
No. 6					450 LIN FT.
STEEL PILE POINTS					
NO. 6					EA.
PILE REDRIVES					3 EA.



SECTION A-A



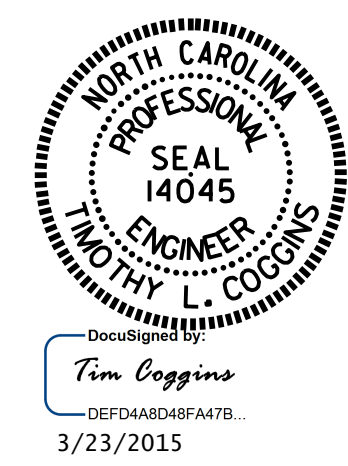
SECTION B-B

PROJECT NO. R-2514D
JONES-CRAVEN COUNTY
 STATION: 28+29.35 -Y10-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 INTEGRAL END BENT 1
 (RIGHT LANE)



DRAWN BY: GHOLAMREZA KOUCHEKI DATE: 6/23/14
 CHECKED BY: K.P. SEDAI DATE: 6/24/14
 DESIGN ENGINEER OF RECORD: GHOLAMREZA KOUCHEKI DATE: 02/2015

REVISIONS						SHEET NO. S16-022
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 30
2			4			