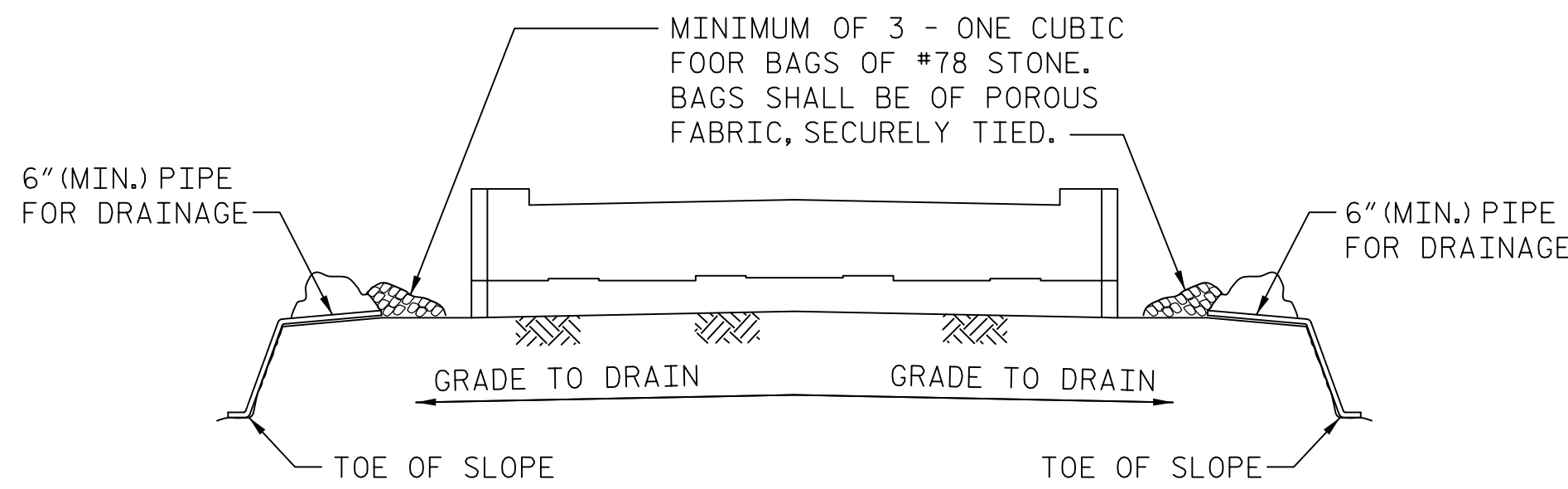


DATE: 6/20/2019
TIME: 6:04:02 PM

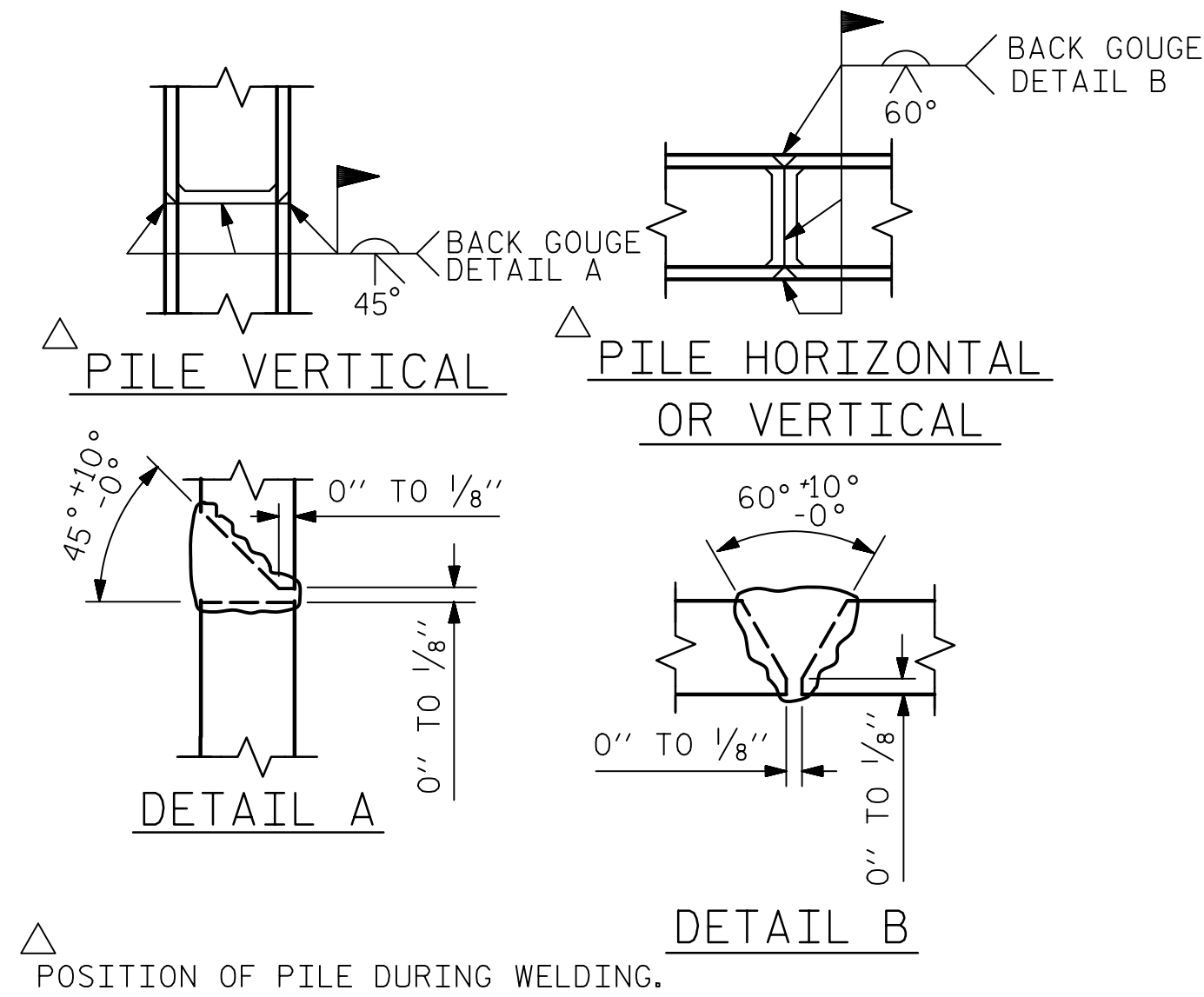


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

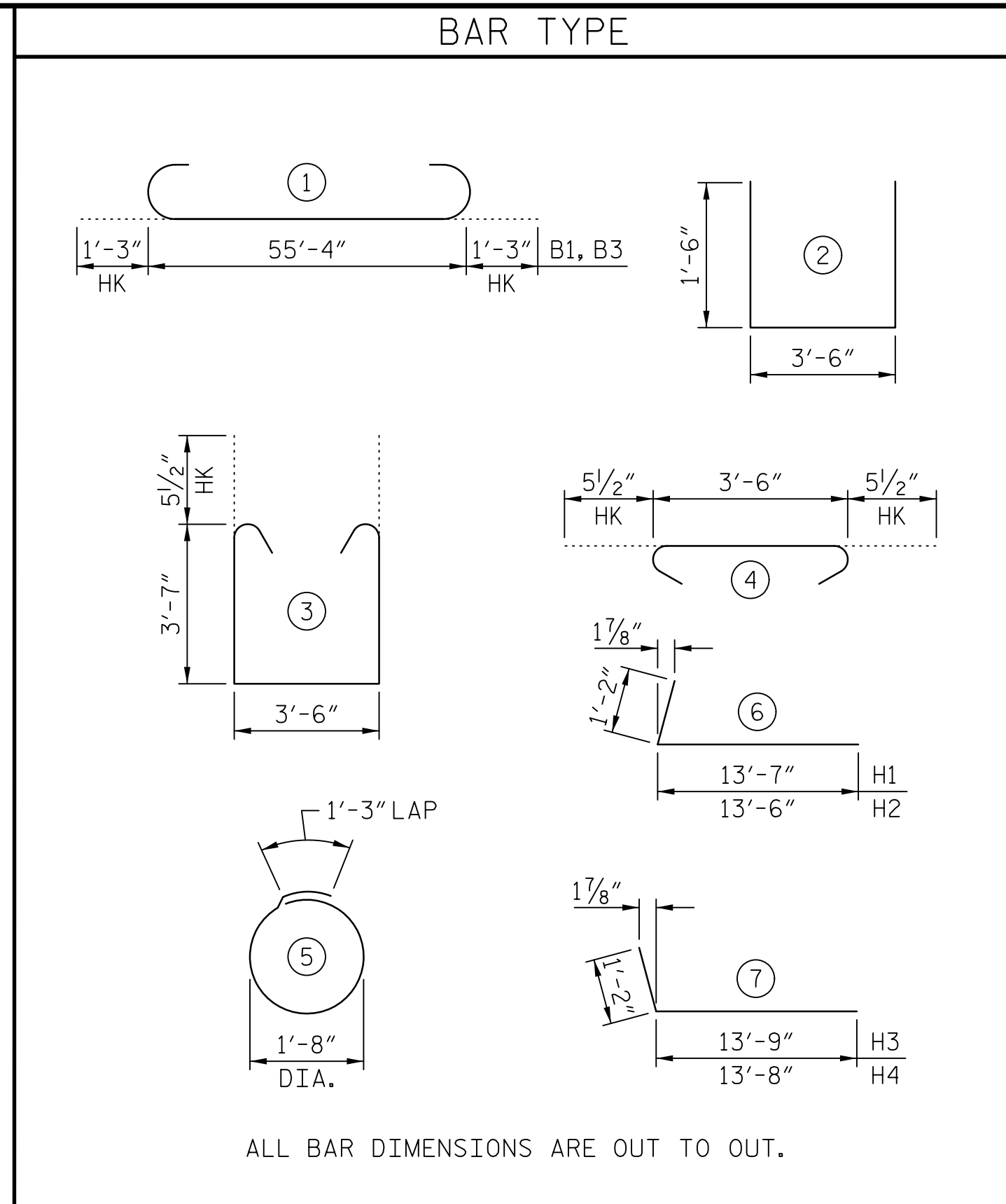
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

TEMPORARY DRAINAGE AT END BENT



PILE SPLICE DETAILS



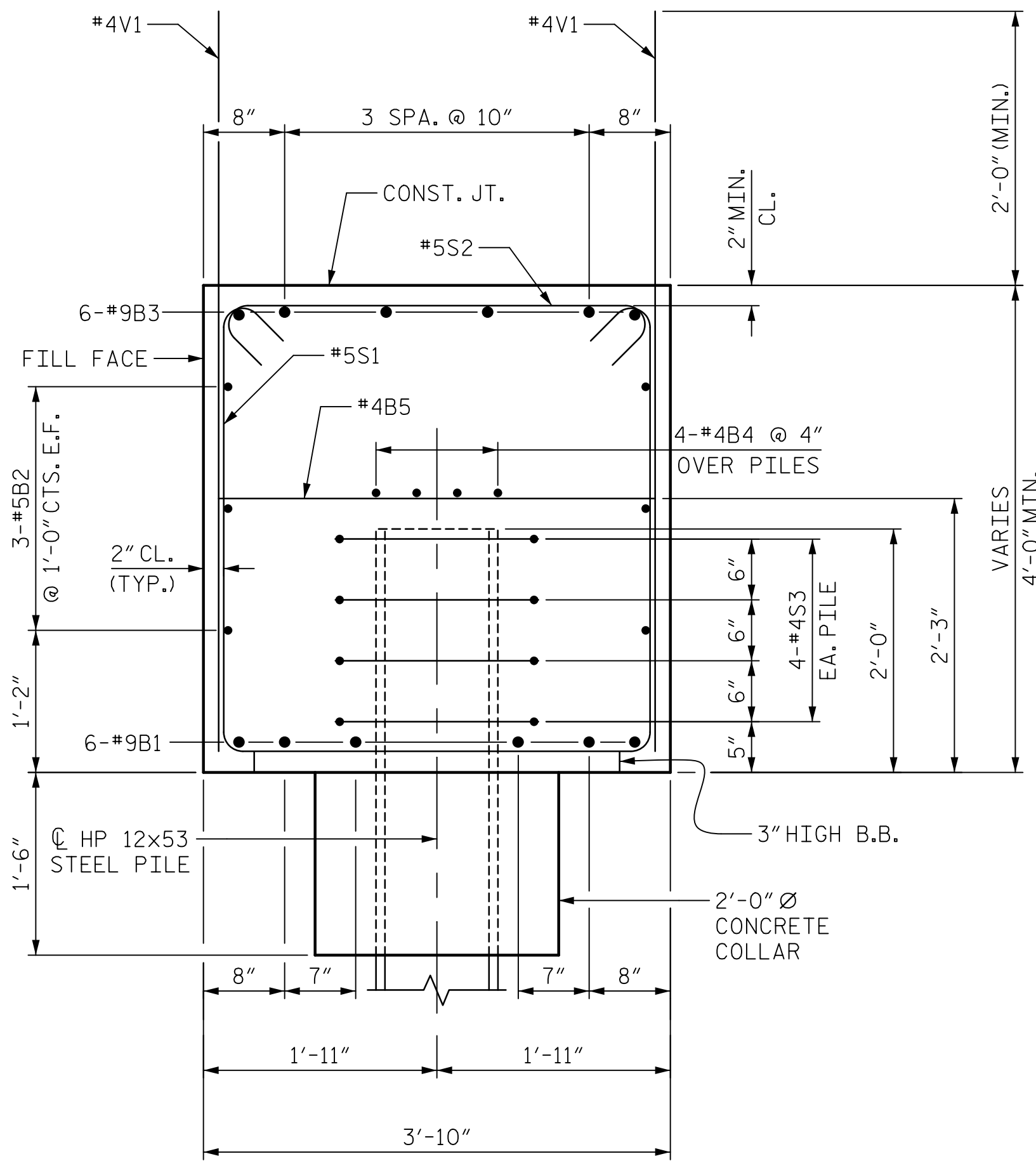
ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

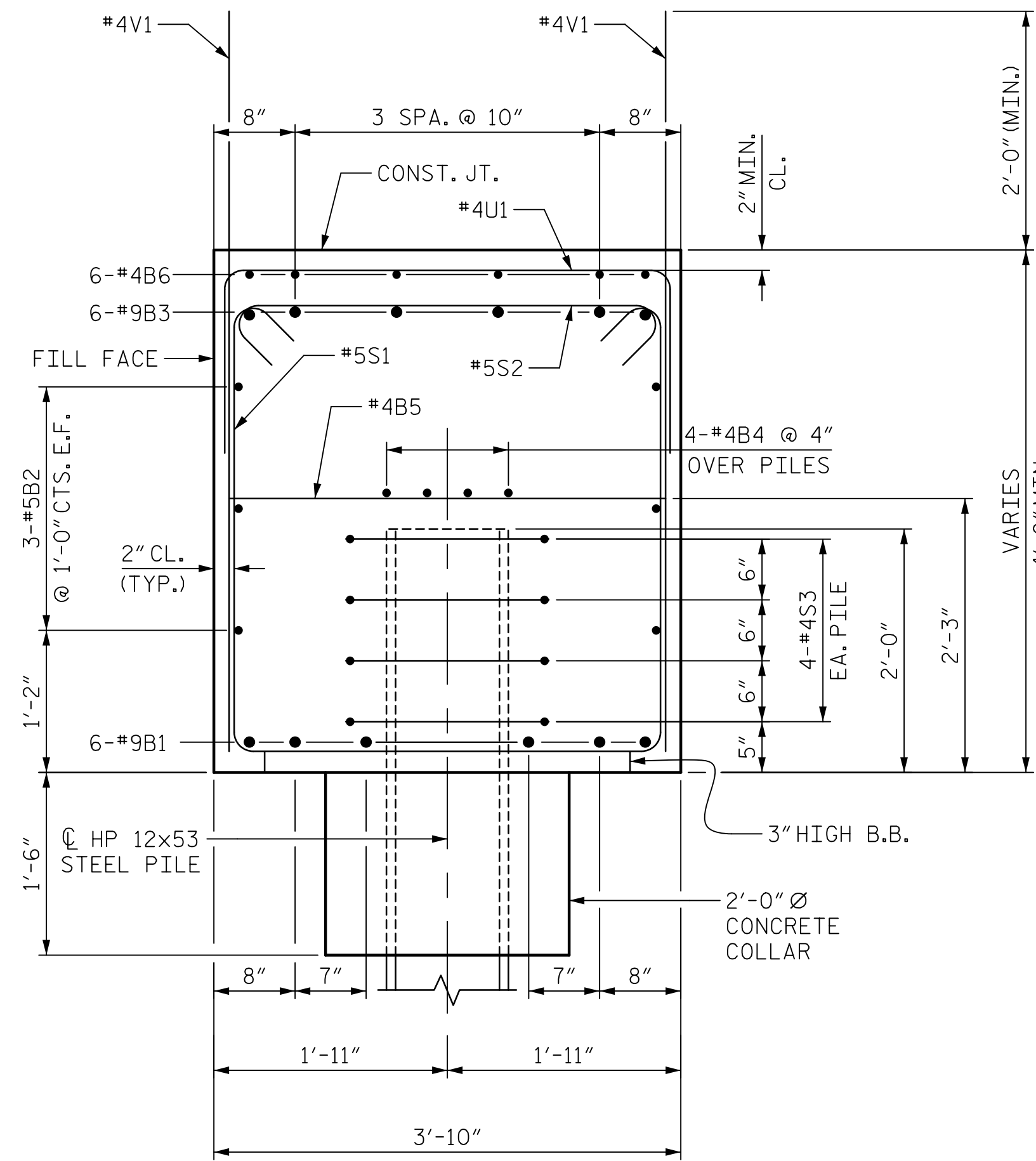
END BENT 2

BAR	No.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	9	①	57'-10"	1180
B2	6	5	STR	55'-4"	346
B3	6	9	①	57'-10"	1180
B4	8	4	STR	28'-10"	154
B5	15	4	STR	3'-6"	35
B6	6	4	STR	24'-7"	99
B7	6	4	STR	3'-3"	13
H1	21	6	⑥	14'-9"	465
H2	21	6	⑥	14'-8"	463
H3	21	6	⑦	14'-11"	471
H4	21	6	⑦	14'-10"	468
K1	52	4	STR	3'-6"	122
S1	56	5	③	11'-7"	677
S2	56	5	④	4'-5"	258
S3	36	4	⑤	6'-6"	156
U1	32	4	②	6'-6"	139
V1	80	4	STR	6'-6"	347
V2	12	4	STR	10'-5"	84
V3	28	5	STR	6'-9"	197
V4	28	5	STR	5'-9"	168
V5	12	4	STR	10'-3"	82
V6	26	5	STR	6'-8"	181
V7	26	5	STR	5'-9"	156

TOTAL REINFORCING STEEL	7,441 LBS.
CLASS A CONCRETE	
POUR #1 (CAP, COLLARS & LOWER WINGWALLS)	39.0 C.Y.
POUR #2 (UPPER WINGWALL)	8.0 C.Y.
TOTAL = 47.0 C.Y.	
HP 12x53 STEEL PILES:	
NO. = 9	LIN. FT. = 585
PILE DRIVE EQUIPMENT SETUP	
NO. = 9	



SECTION A-A



SECTION B-B

DRAWN BY : T.B. STUMP DATE : 04/2019
 CHECKED BY : D. RITACCO DATE : 04/2019
 DESIGNED BY : D. RITACCO DATE : 04/2019
 DESIGN CHECKED BY : J.C. MORRISON DATE : 04/2019

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

AECOM
AECOM TECHNICAL SERVICES OF NC, INC.
 701 CORPORATE CENTER DRIVE, SUITE 475
 RALEIGH, NC 27607
 (919) 854-6200 www.aecom.com
 AECOM License No. F-0342

6/21/2019
 NORTH CAROLINA
 PROFESSIONAL
 SEAL
 030474
 ENGINEER
 JOHN C. MORRISON

John C. Morrison
A2FDE142C82F4A8...

PROJECT NO. B-5980
NASH COUNTY
 STATION: 42+56.82 -Y1-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE

INTEGRAL END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-29
1			3			TOTAL SHEETS
2			4			33

USER: Jstump C:\Users\jstump\Documents\Projects\60557176 - B-5980\900_CAD_GIS\900_CAD\00_MCDOT_T\Structures\04_Drawings\400_ST_529_B5980_S\NLEB2_3.dgn