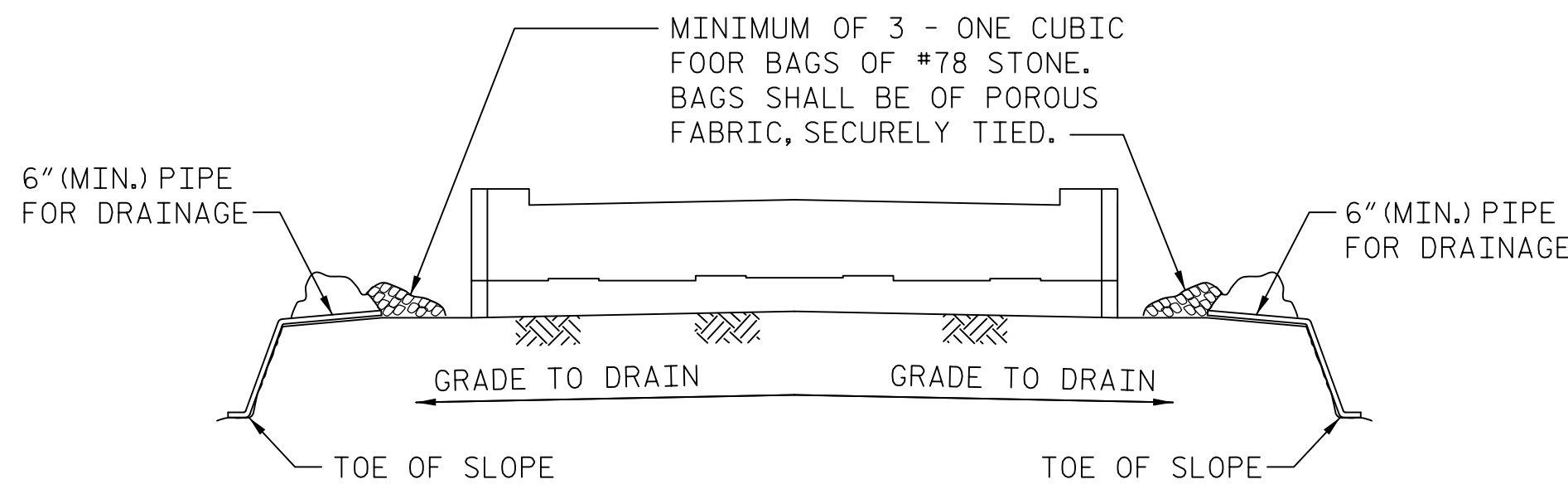


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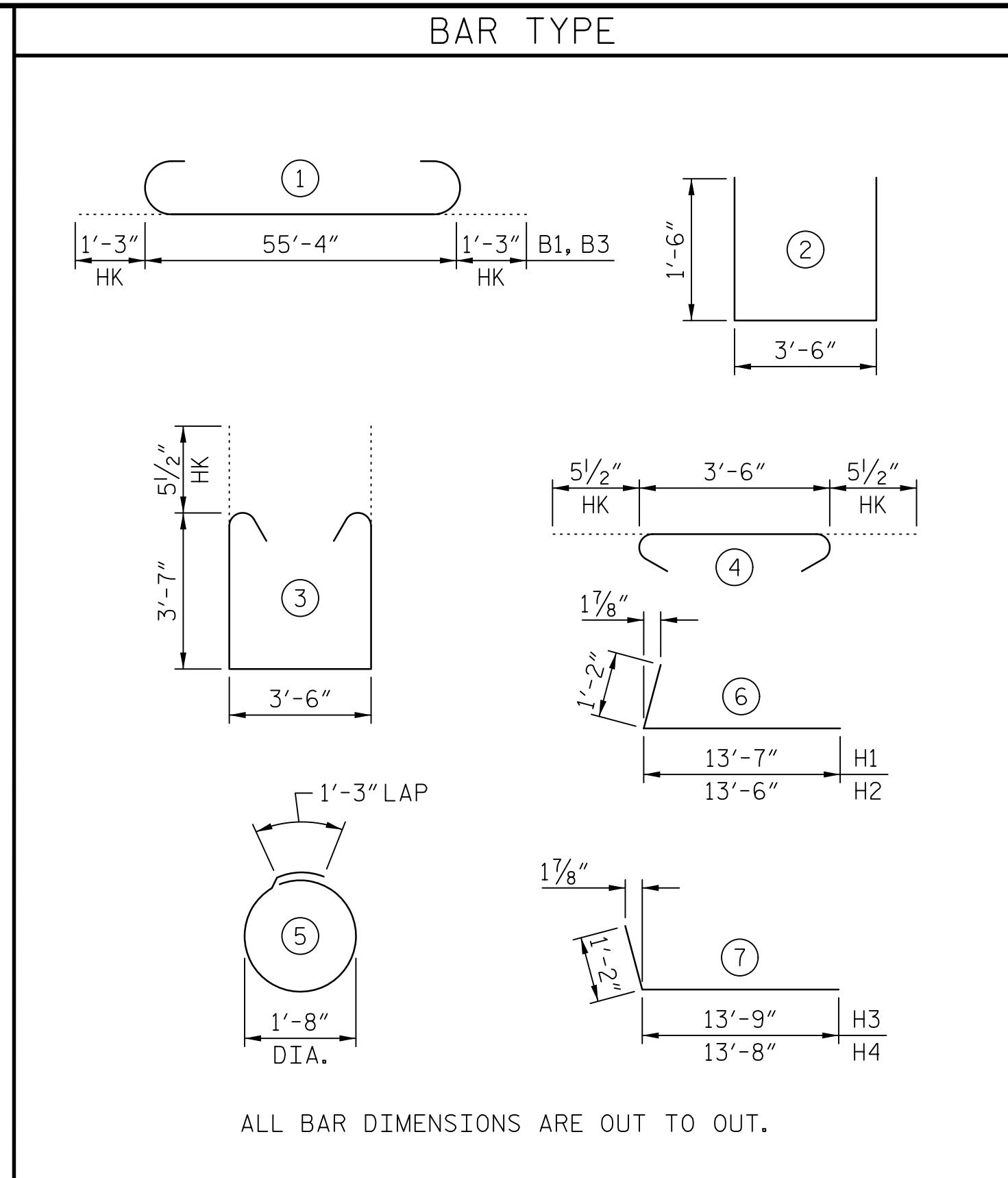
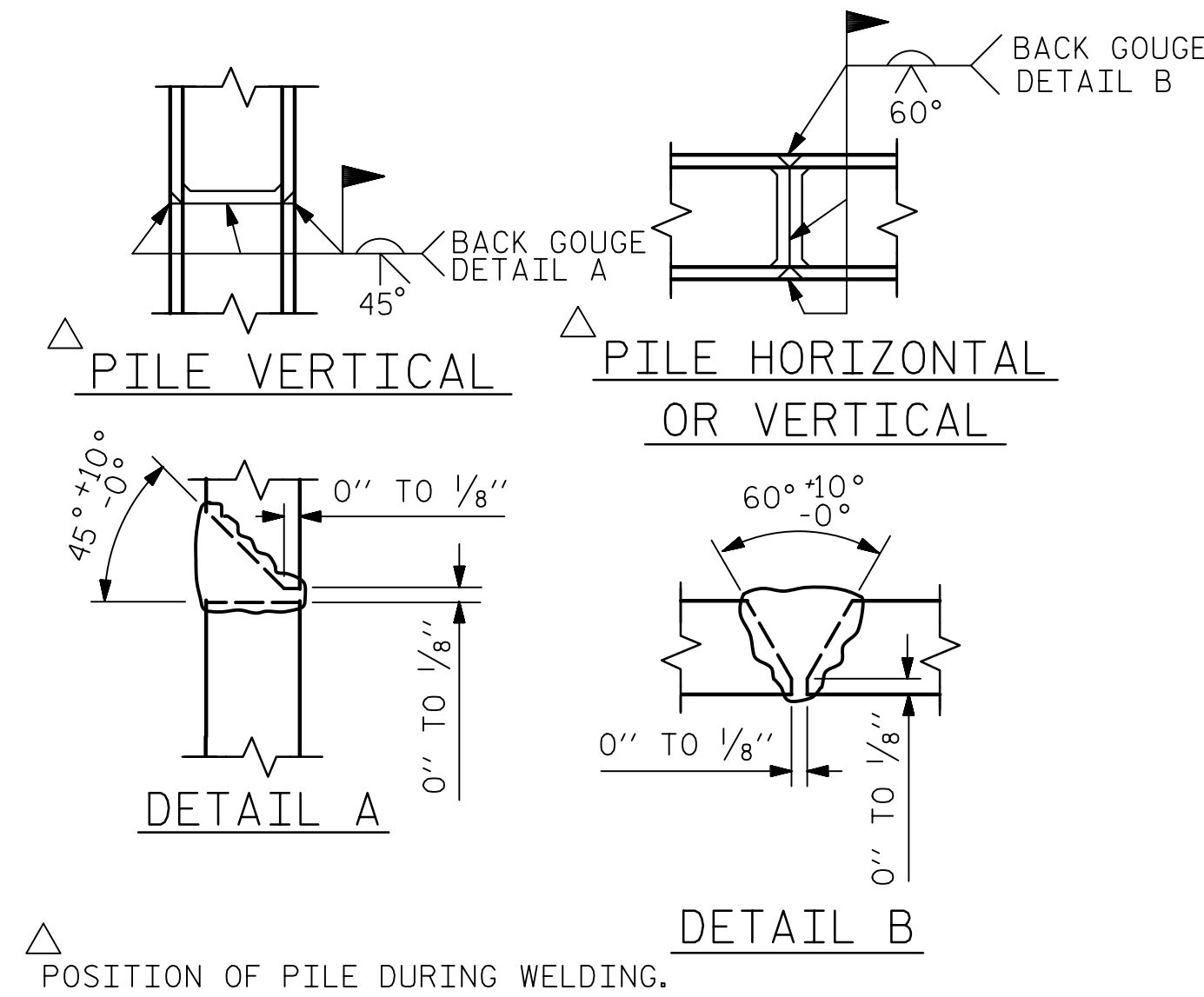


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

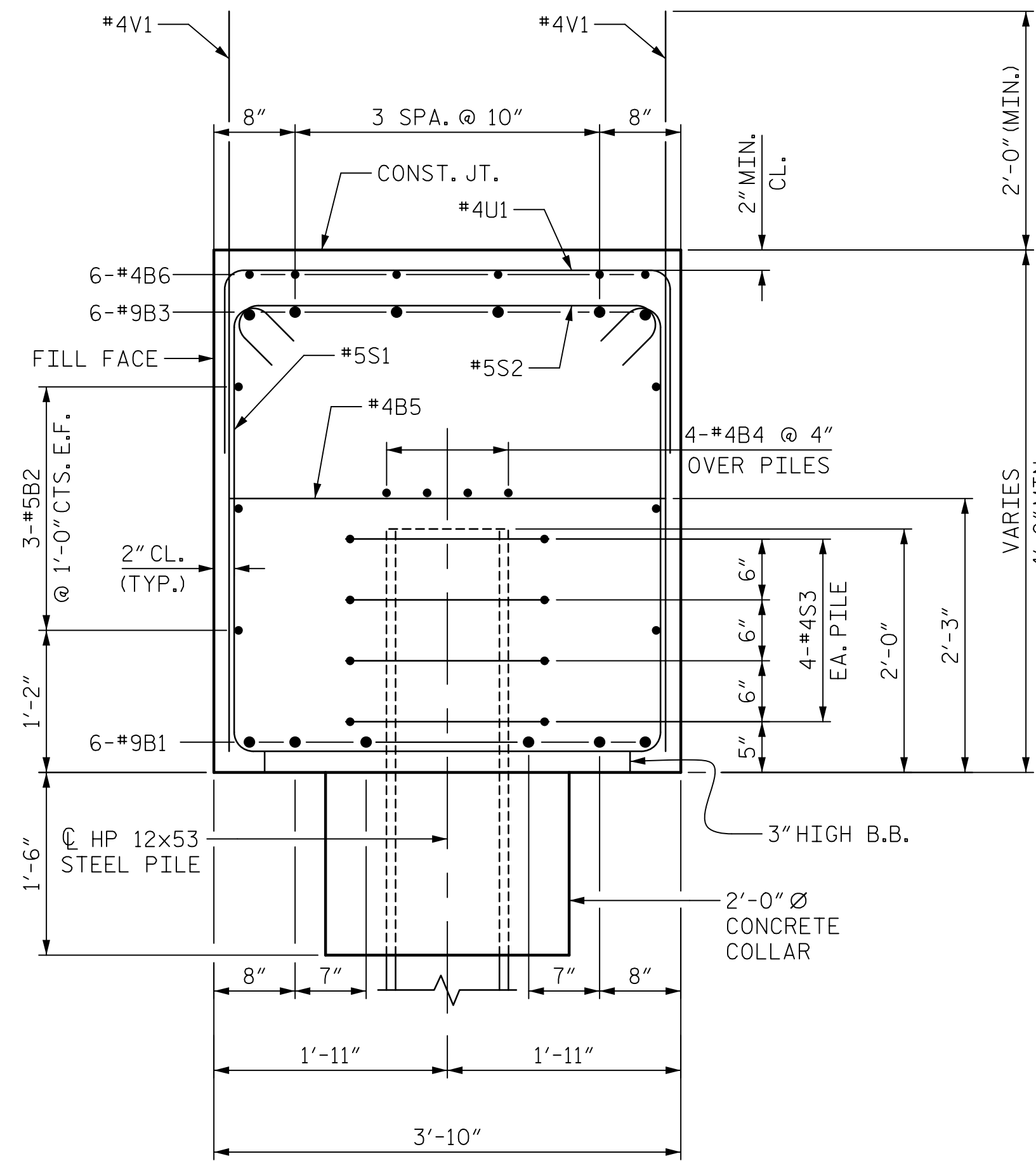
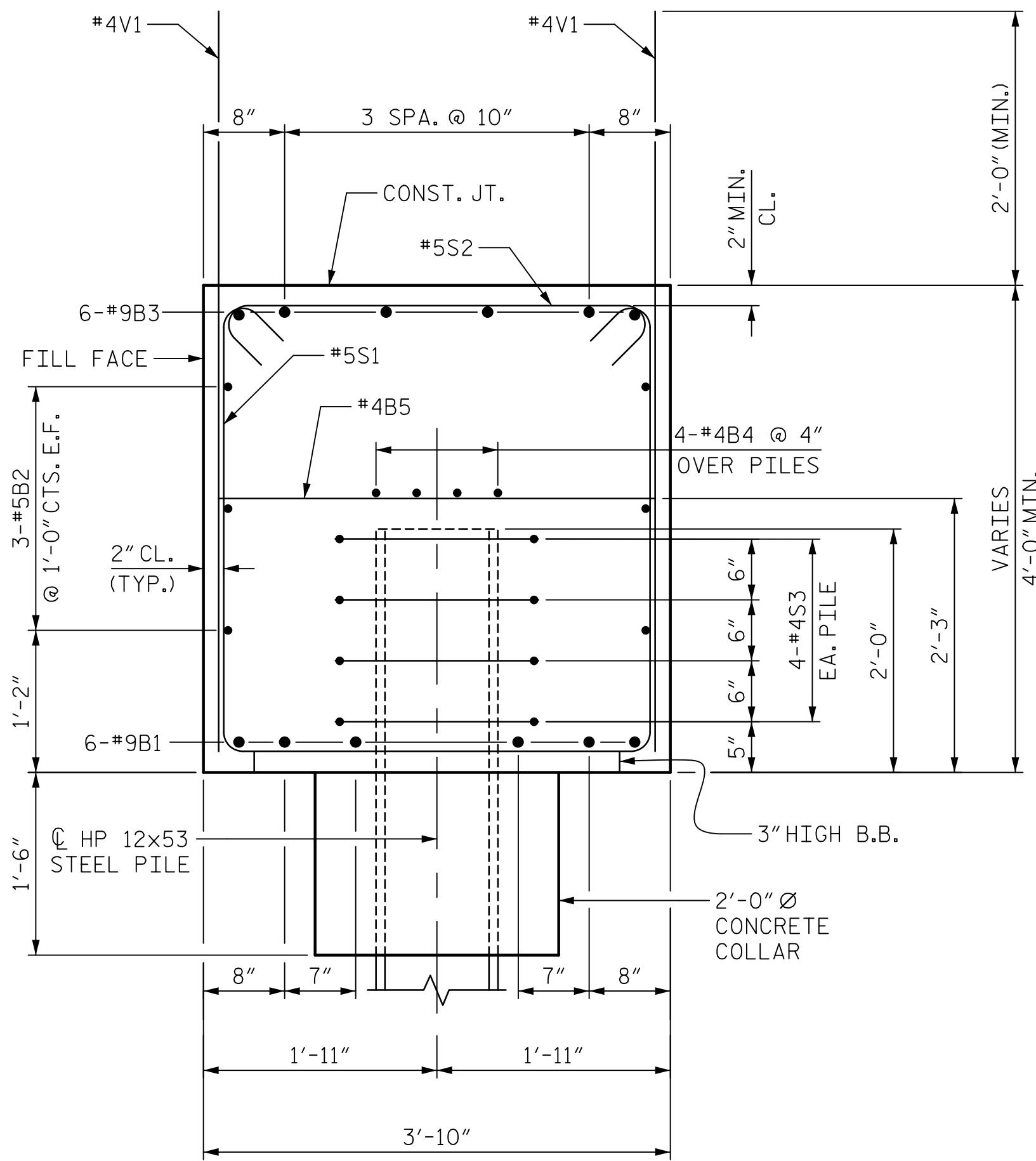
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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



BILL OF MATERIAL					
END BENT 1					
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'-5"	343
V2	12	4	STR	10'-4"	83
V3	26	5	STR	6'-7"	179
V4	26	5	STR	6'-0"	163
V5	12	4	STR	10'-3"	82
V6	26	5	STR	6'-7"	179
V7	26	5	STR	6'-0"	163
TOTAL REINFORCING STEEL					7,418 LBS.
CLASS A CONCRETE					
POUR #1 (CAP, COLLARS & LOWER WINGWALLS)					38.8 C.Y.
POUR #2 (UPPER WINGWALL)					8.4 C.Y.
TOTAL =					47.2 C.Y.
HP 12x53 STEEL PILES:					
NO. = 9					LIN. FT. = 495
PILE DRIVE EQUIPMENT SETUP					
NO. = 9					



PROJECT NO. B-5980

NASH COUNTY

STATION: 42+56.82 -Y1-

SHEET 3 OF 3

AECOM
AECOM TECHNICAL SERVICES OF NC, INC.
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6/21/2019
NORTH CAROLINA PROFESSIONAL SEAL 030474
ENGINEER JOHN C. MORRISON

John C. Morrison
A2PDE142C82F4A8

STATE OF NORTH CAROLINA					
DEPARTMENT OF TRANSPORTATION					
RALEIGH					
SUBSTRUCTURE					
INTEGRAL END BENT 1					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
SHEET NO. S-24					TOTAL SHEETS 33

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