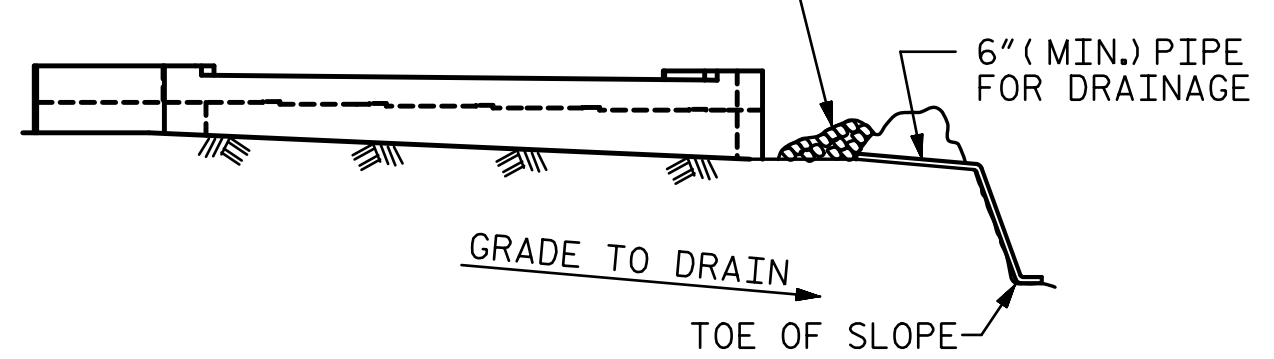


MINIMUM OF 3- ONE CUBIC FOOT BAGS OF #78M STONE. BAGS SHALL BE OF POROUS FABRIC, SECURELY TIED.

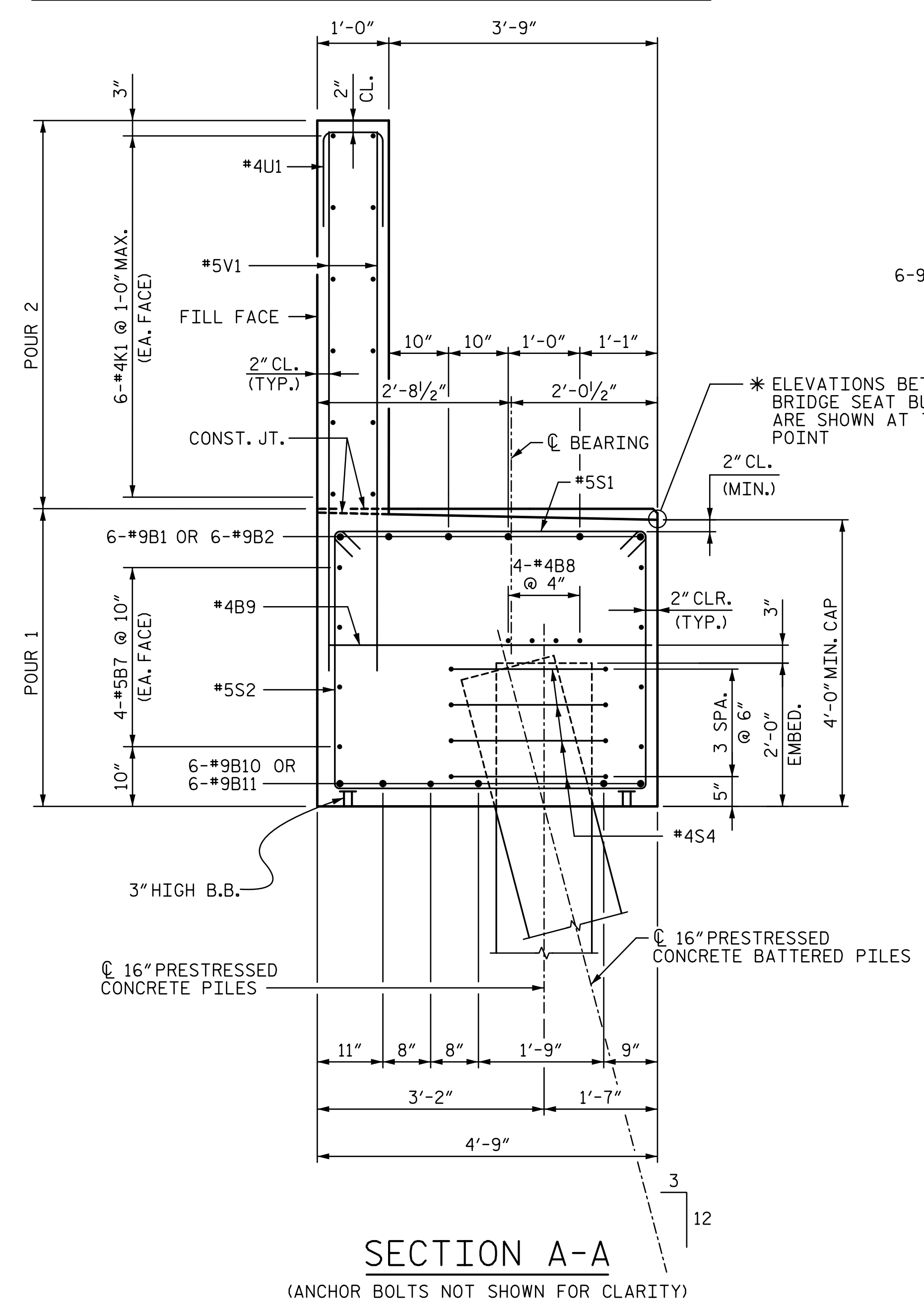


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

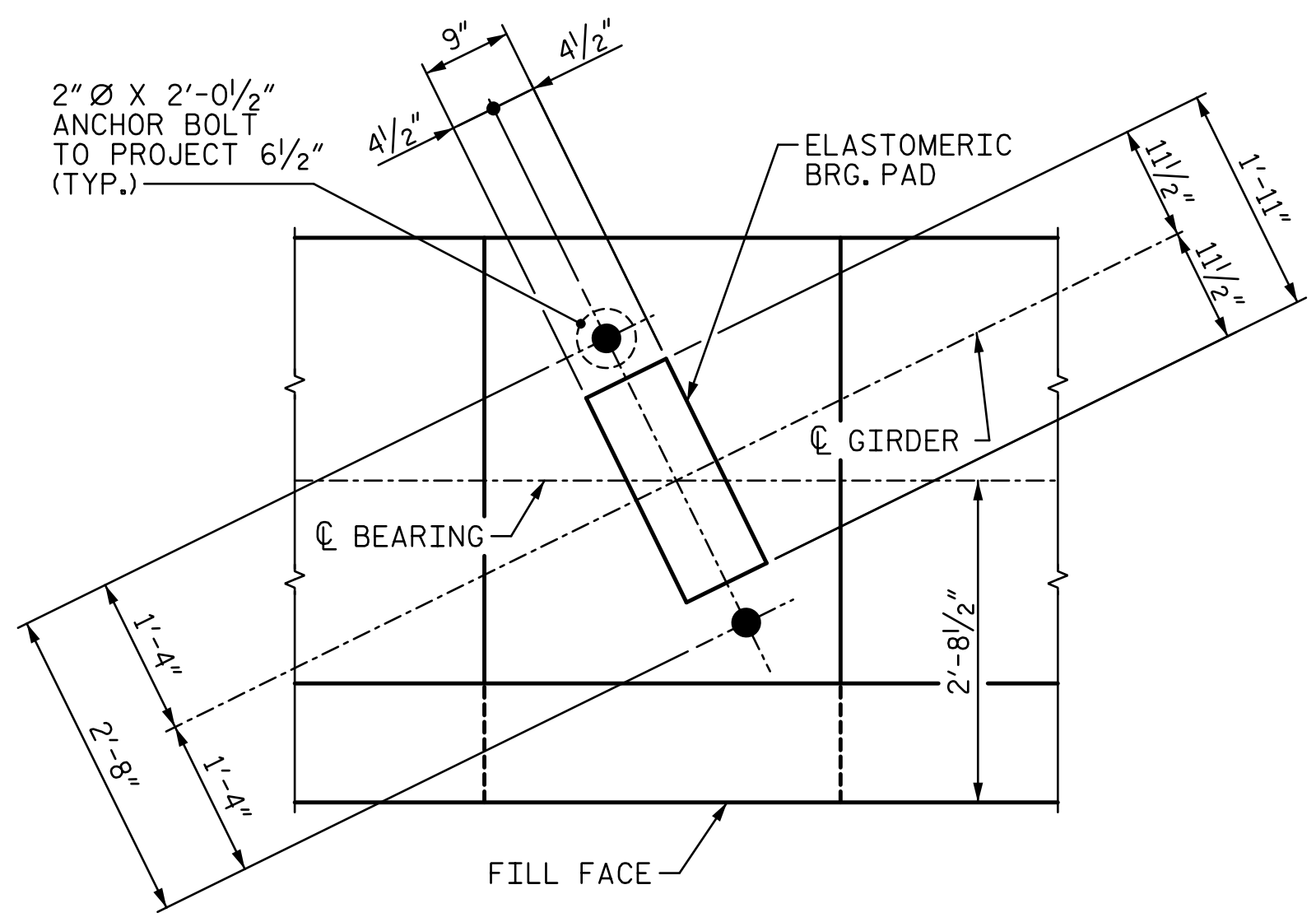
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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

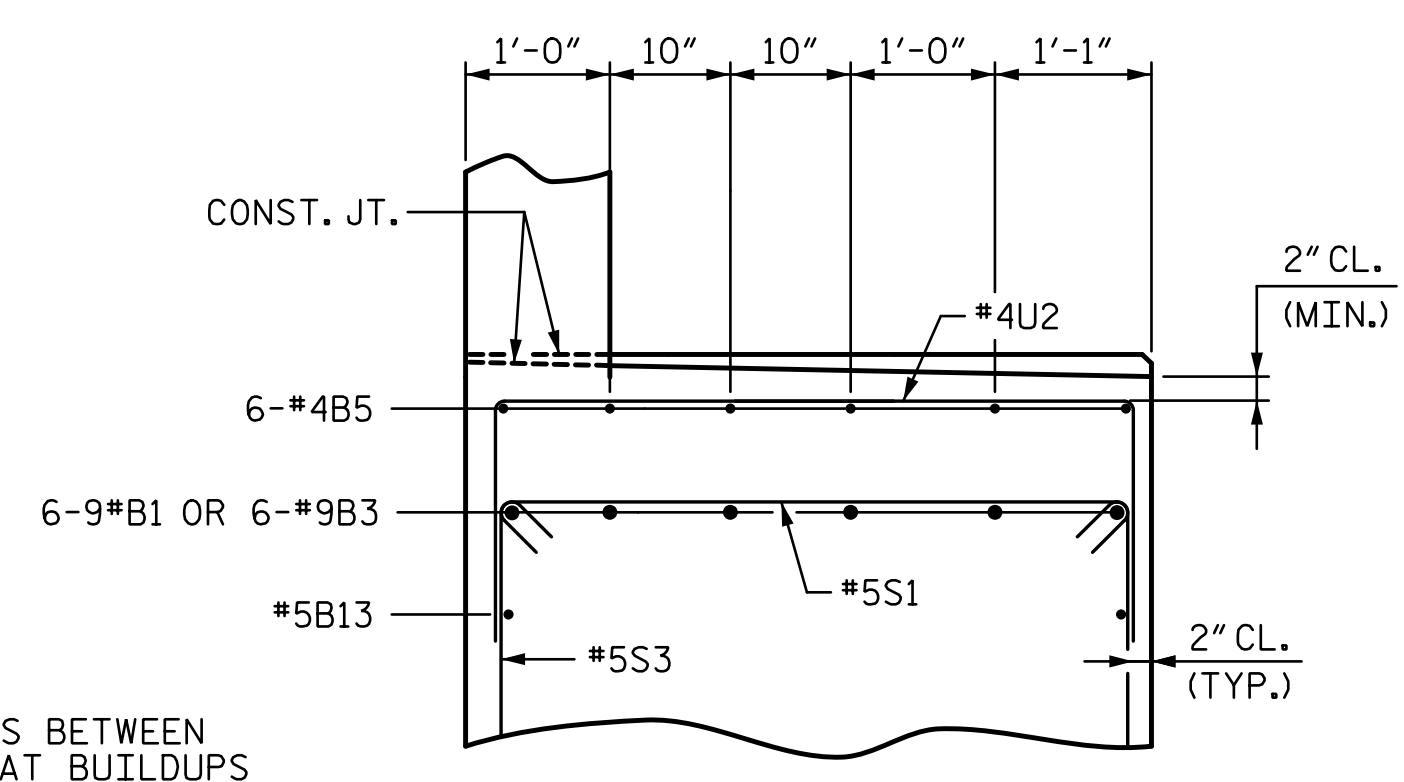
### TEMPORARY DRAINAGE AT END BENT



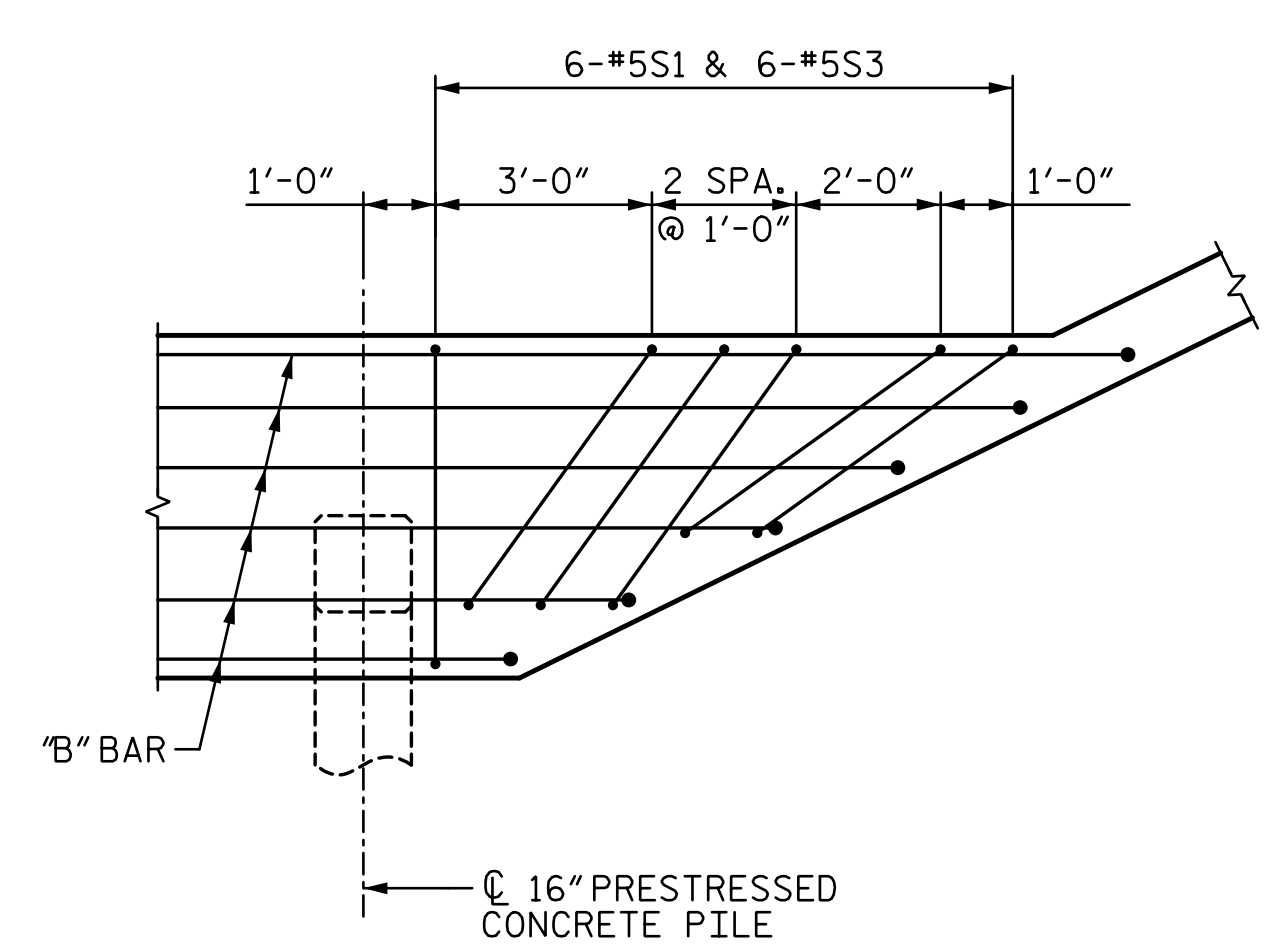
SECTION A-A  
(ANCHOR BOLTS NOT SHOWN FOR CLARITY)



DETAIL "B"

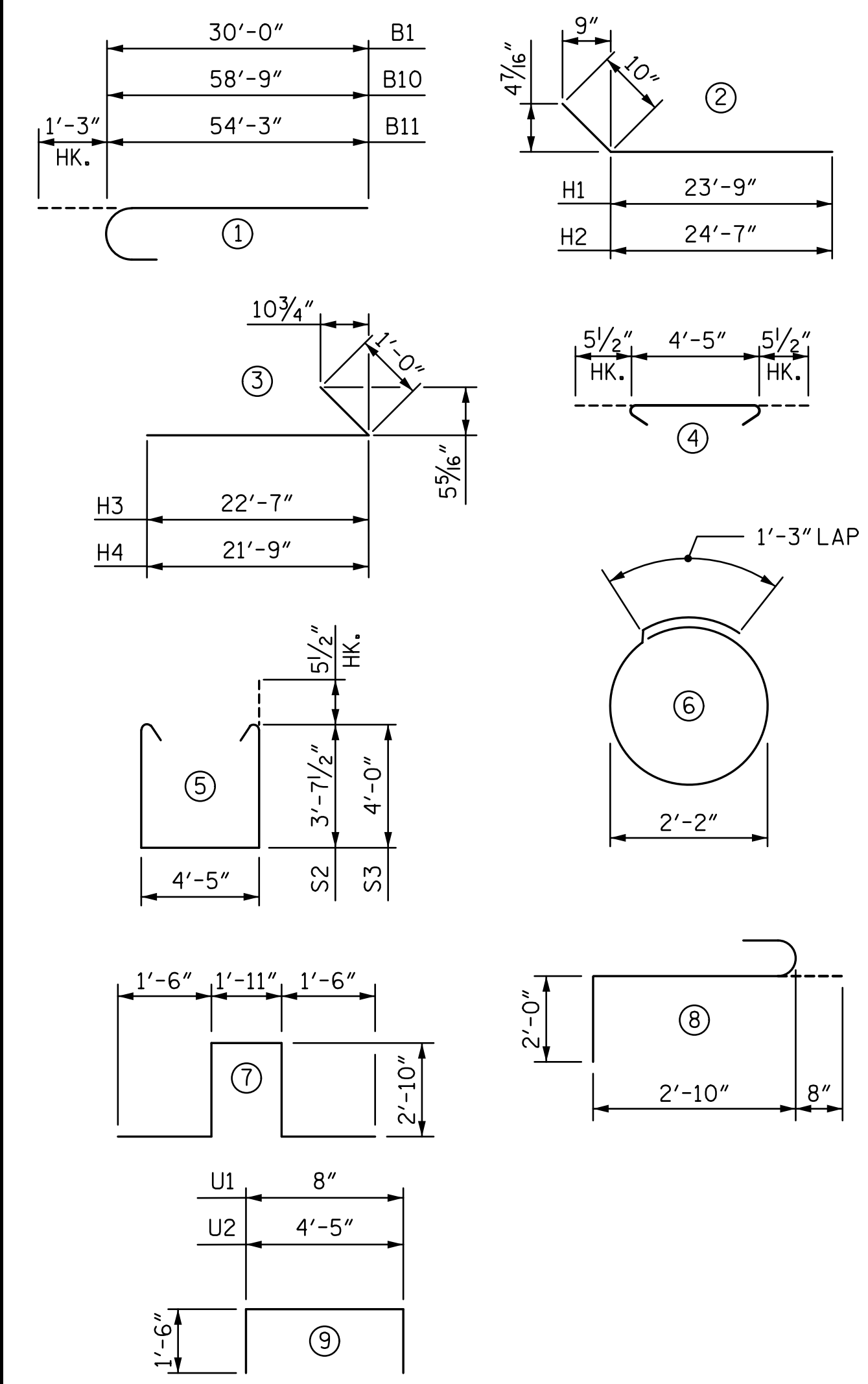


PARTIAL SECTION B-B  
(ANCHOR BOLTS NOT SHOWN FOR CLARITY)



DETAIL "C"

### BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

### BILL OF REINFORCING

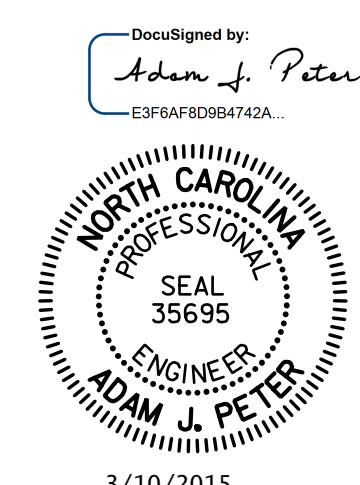
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	12	#9	①	31'-3"	1,275
B2	6	#9	STR	29'-3"	597
B3	6	#9	STR	38'-9"	791
B4	12	#4	STR	12'-4"	99
B5	12	#4	STR	21'-6"	172
B7	16	#5	STR	54'-9"	914
B8	16	#4	STR	27'-2"	290
B9	25	#4	STR	4'-5"	74
B10	6	#9	①	60'-0"	1,224
B11	6	#9	①	55'-6"	1,132
B12	30	#4	STR	2'-8"	53
B13	2	#5	STR	60'-0"	125
H1	17	#5	②	24'-7"	436
H2	17	#5	②	25'-5"	451
H3	16	#5	③	23'-7"	394
H4	16	#5	③	22'-9"	380
K1	48	#4	STR	28'-9"	922
K2	8	#4	STR	5'-10"	31
S1	117	#5	④	5'-4"	651
S2	56	#5	⑤	12'-7"	735
S3	61	#5	⑤	13'-4"	848
S4	44	#4	⑥	8'-1"	238
S5	6	#6	⑦	10'-7"	95
S6	6	#6	⑧	5'-6"	50
U1	92	#4	⑨	3'-8"	225
U2	60	#4	⑨	7'-5"	297
V1	184	#5	STR	9'-8"	1,855
V2	59	#5	STR	11'-3"	692
V3	56	#5	STR	10'-6"	613

### QUANTITIES

	END BENT 1
REINFORCING STEEL	LBS. 15,659
CLASS A CONCRETE	
POUR 1 (CAP & LOWER WING)	: CU. YARDS 86.6
POUR 2 (BACKWALL & UPPER WING)	: CU. YARDS 33.5
TOTAL	: CU. YARDS 120.1
16" PRESTRESSED CONCRETE PILES	(NO.) 13
	LIN. FEET 715.0
PILE REDRIVES	EA. 6

PROJECT NO. R-2514D  
JONES & CRAVEN COUNTY  
 STATION: 526+71.12 -L-  
 = 16+08.07 -Y6-

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 END BENT 1  
 -RIGHT LANE-



3/10/2015

REVISIONS				SHEET NO.		
NO.	BY:	DATE:	NO.	BY:	DATE:	S12-26
1			3			TOTAL SHEETS
2			4			38

STV / Ralph Whitehead Associates, Inc.  
 900 West Trade Street, Suite 715  
 Charlotte, NC 28202  
 NC License Number F-0991

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 3/6/2015 9:08:44 AM

DRAWN BY: VMW DATE: 6-14  
 CHECKED BY: PEK DATE: 6-14  
 DESIGN ENGINEER OF RECORD: P. KELLY DATE: 6-14