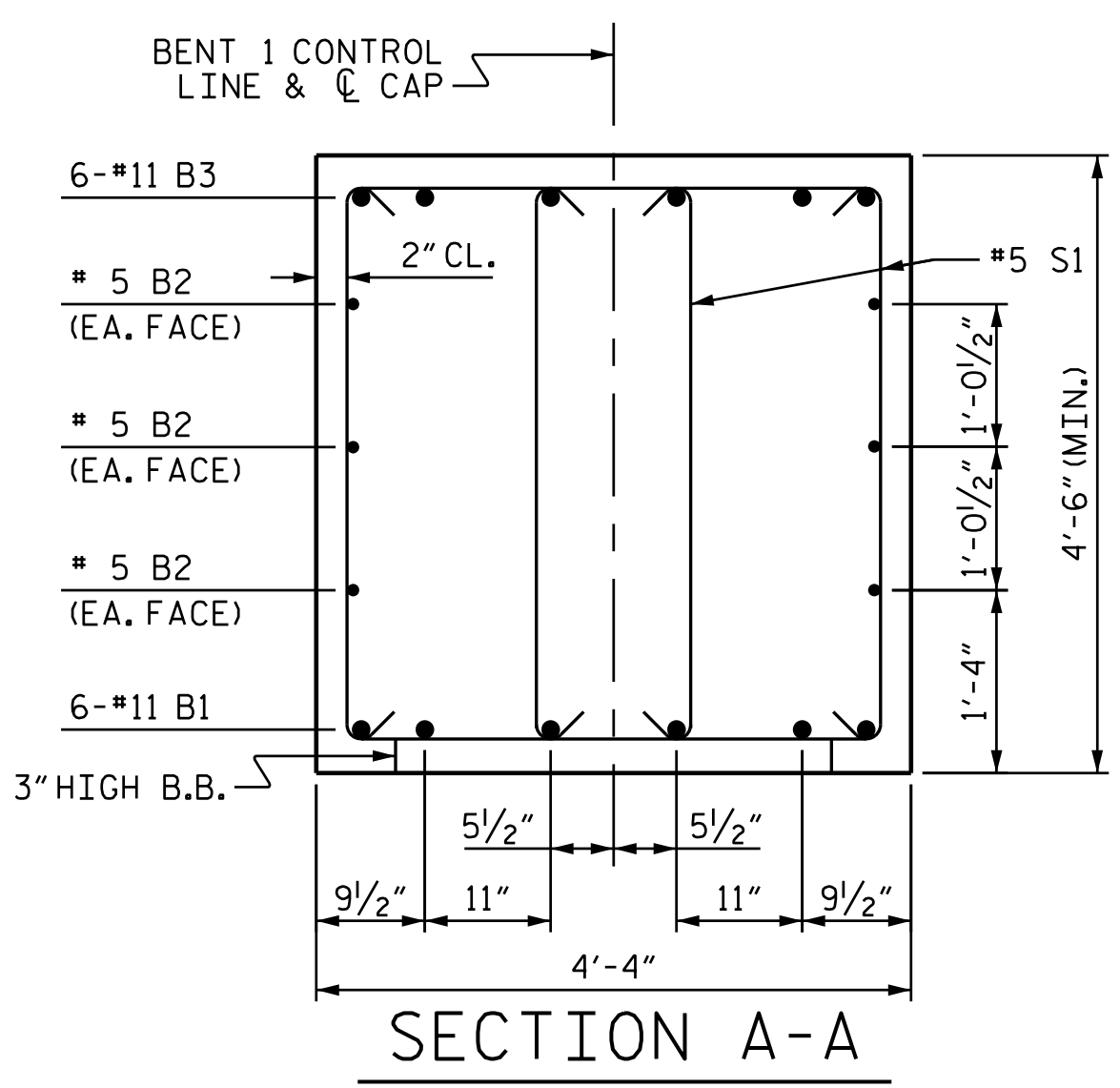
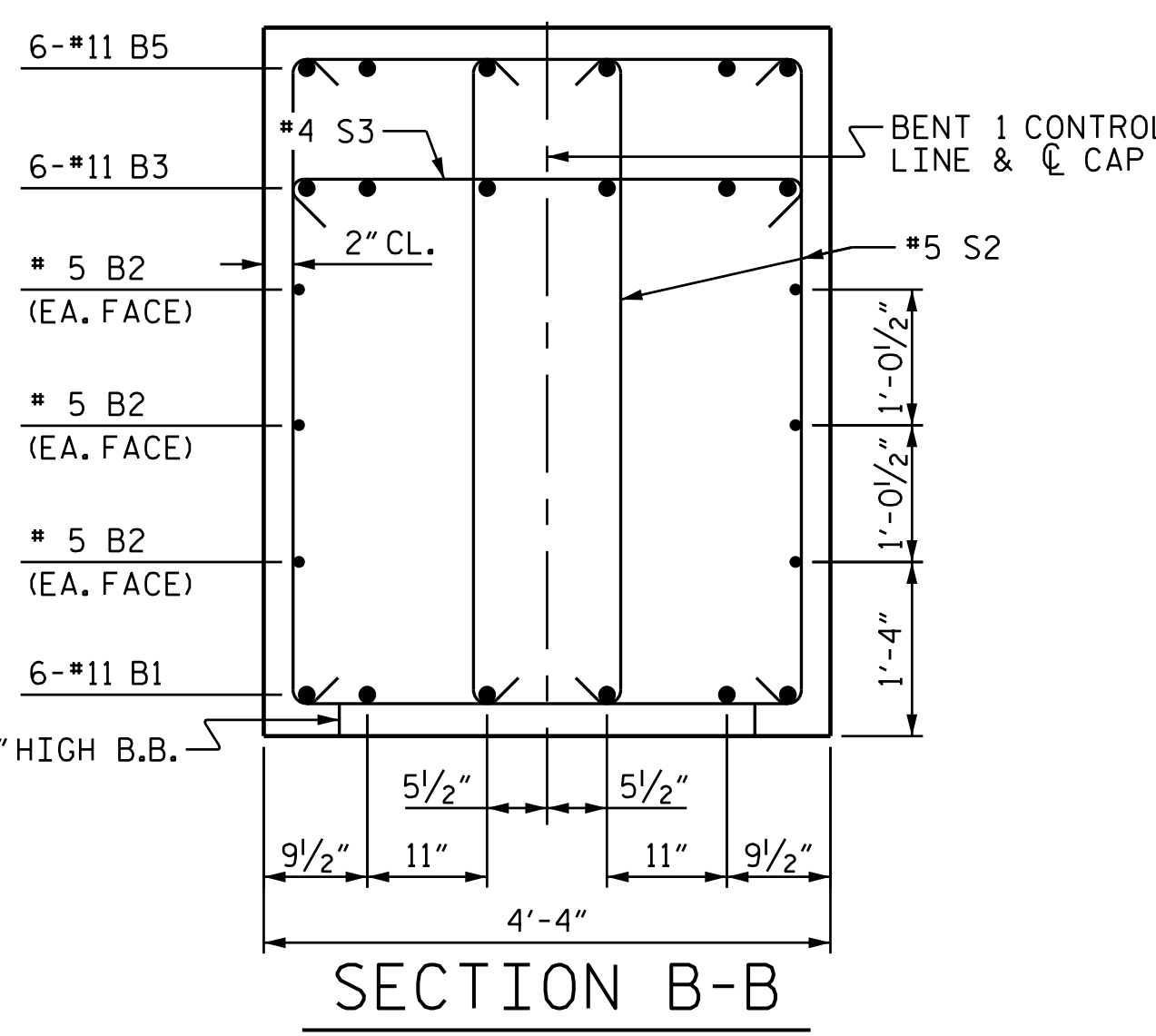


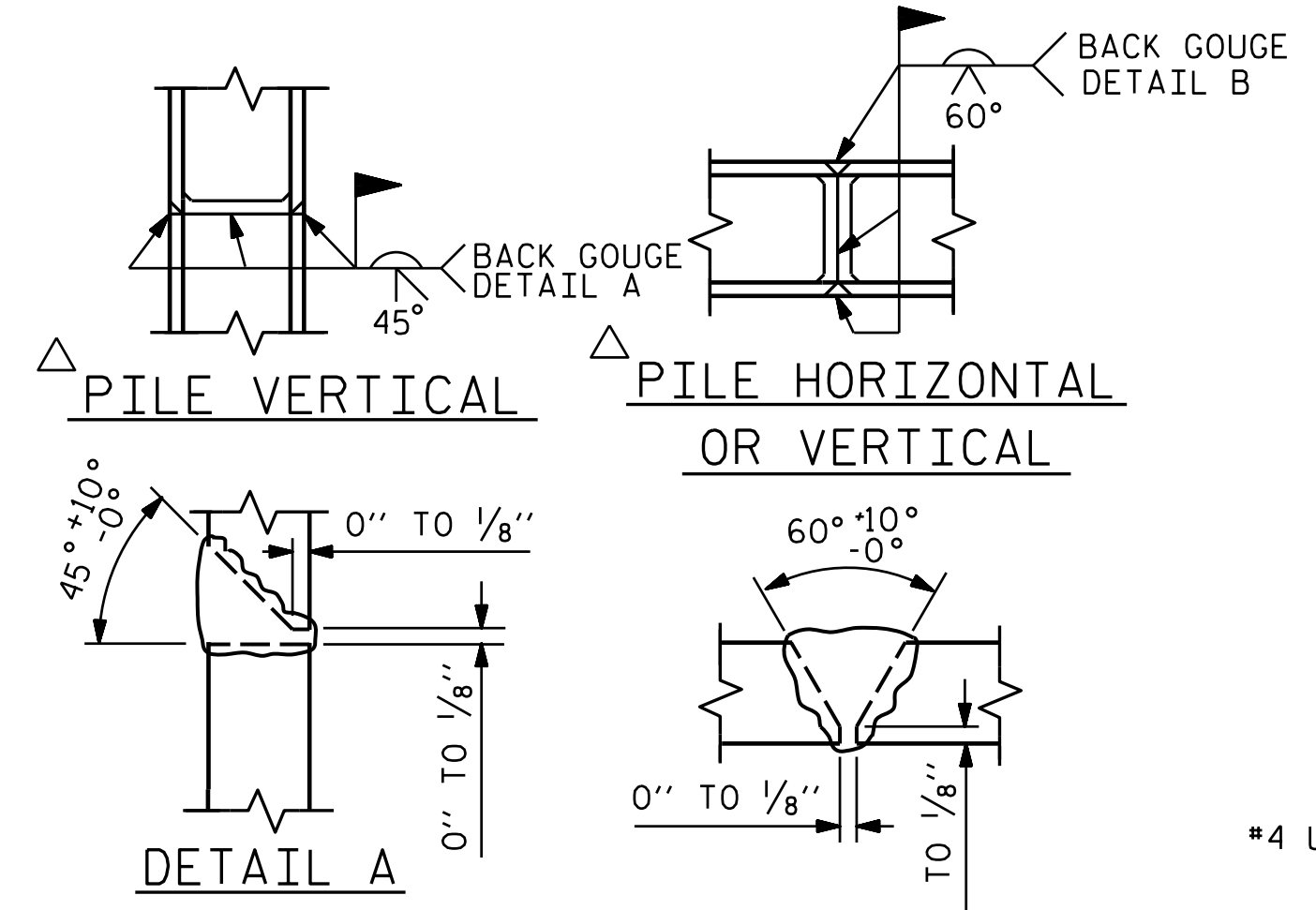
END ELEVATION



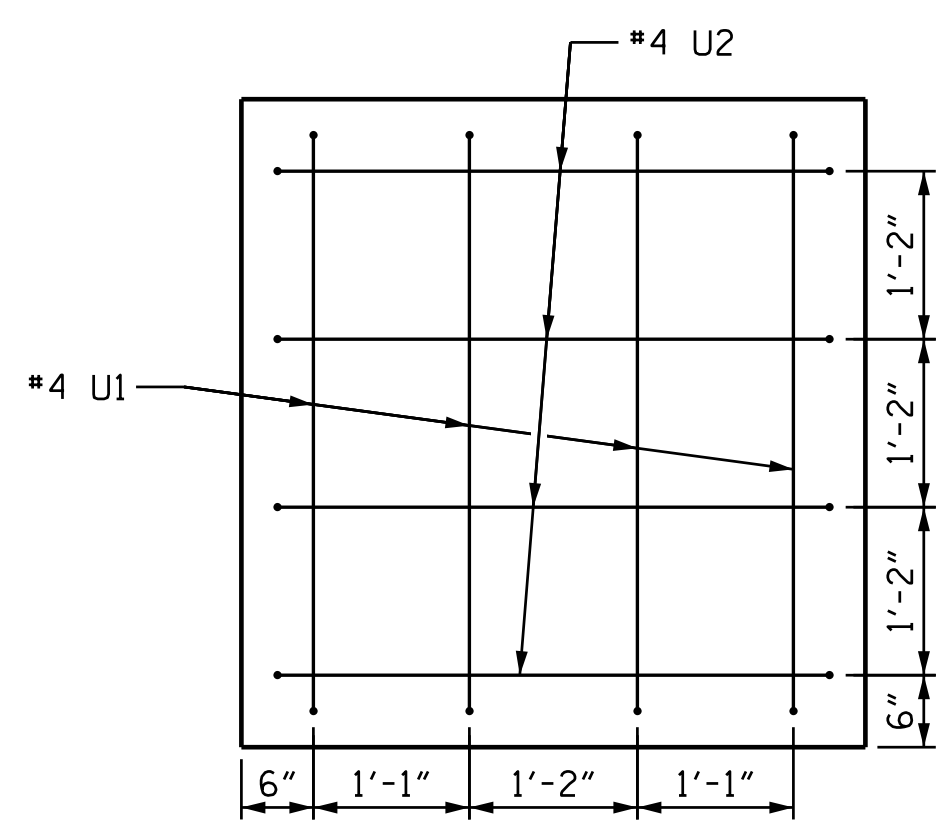
SECTION A-A



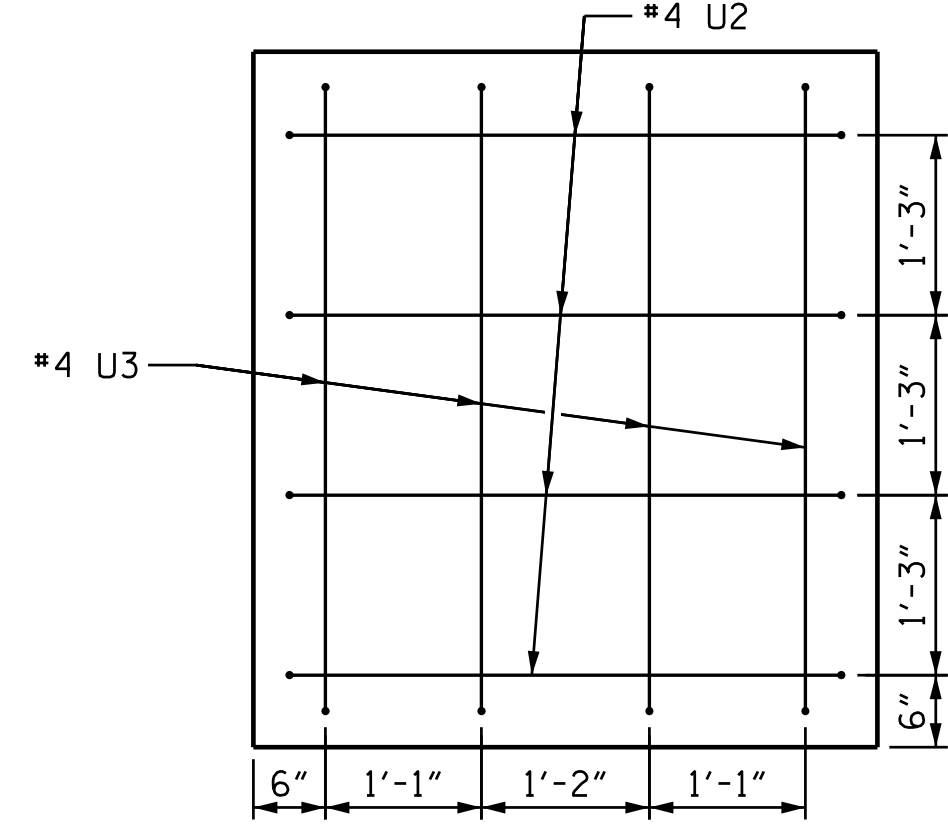
SECTION B-B



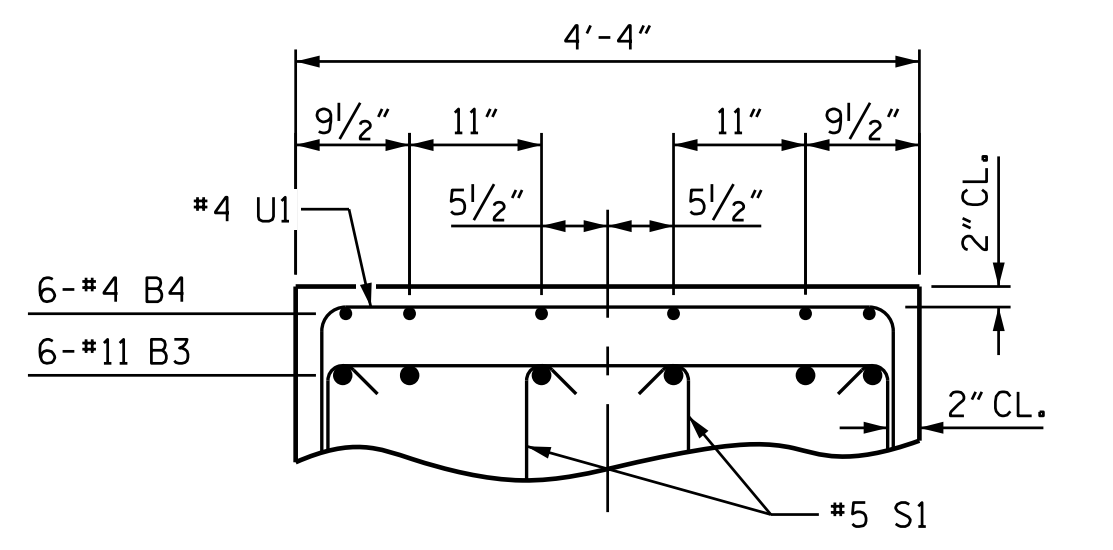
PILE SPLICE DETAILS



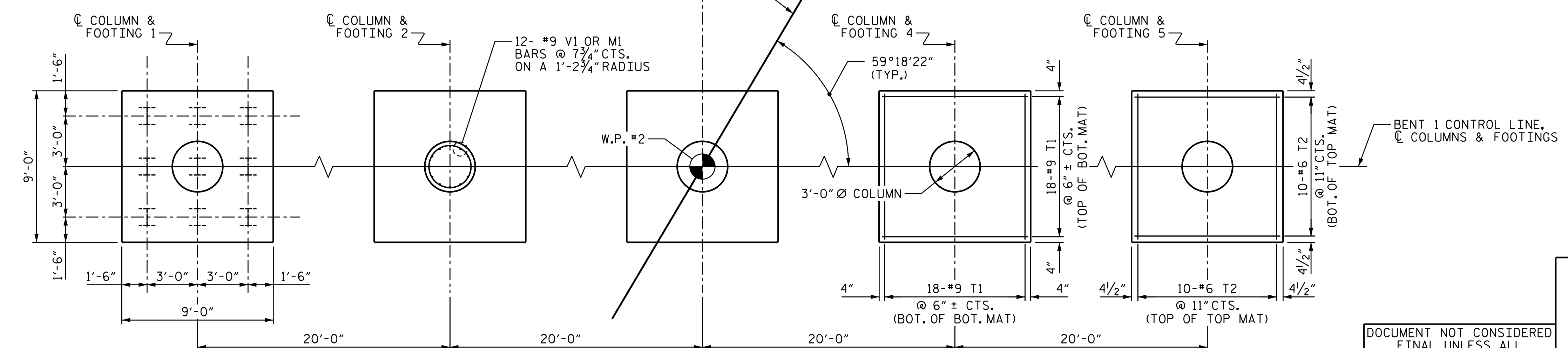
VIEW X-X



VIEW Y-Y

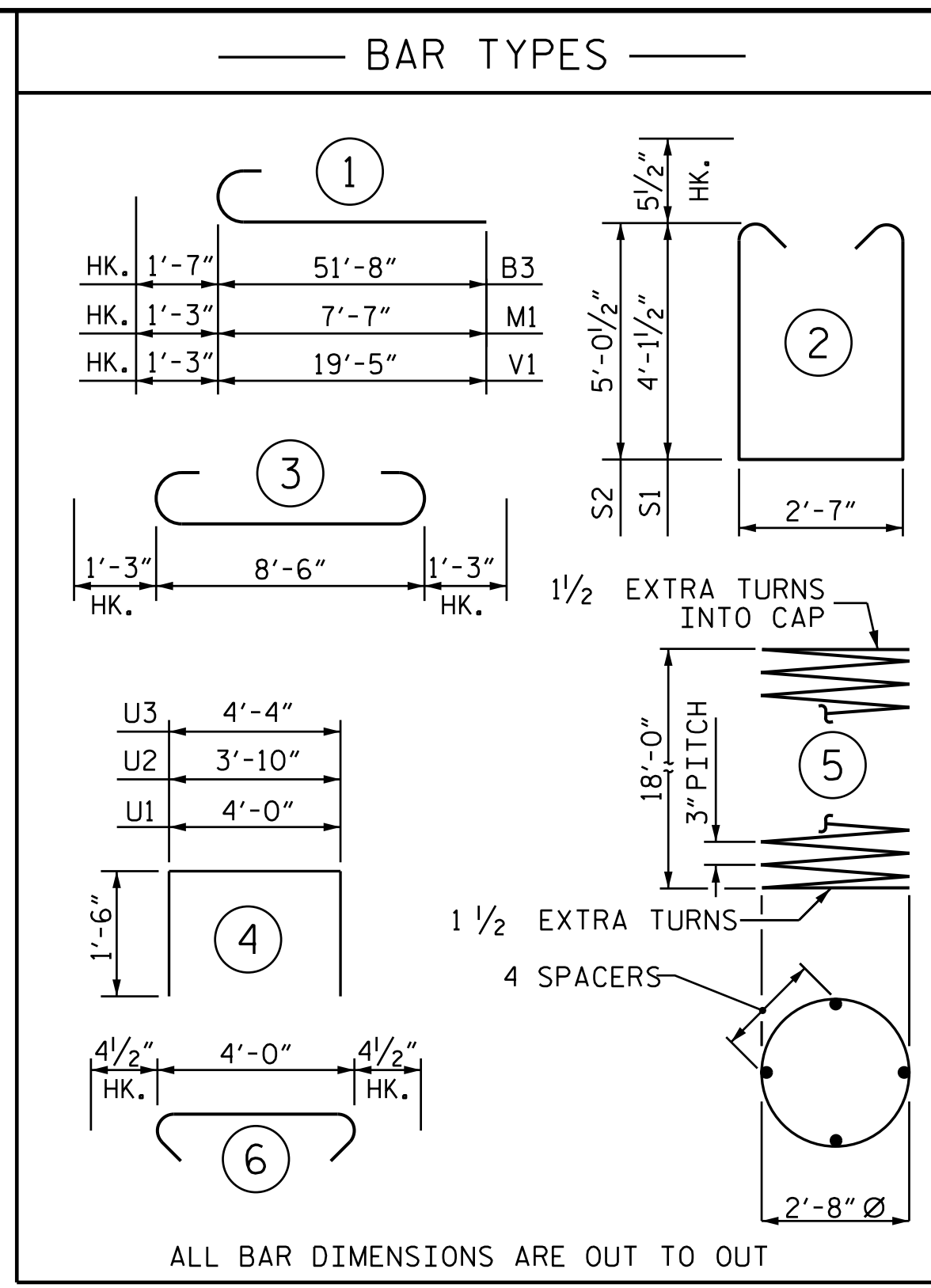


SECTION C-C



PLAN OF FOOTINGS & COLUMNS

PILES, DIMENSIONS AND REINFORCING STEEL ARE TYPICAL FOR EACH FOOTING



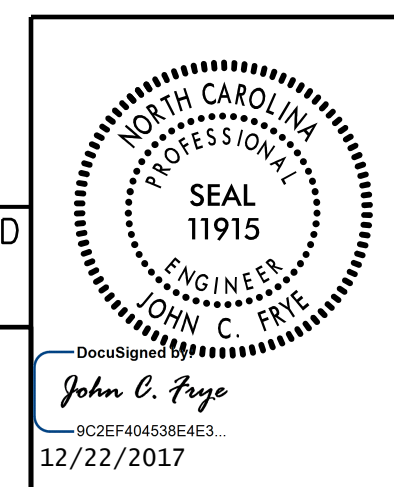
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL					
BENT 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	12	#11	STR	49'-9"	3172
B2	12	#5	STR	46'-4"	580
B3	12	#11	1	53'-3"	3395
B4	24	#4	STR	13'-0"	208
B5	6	#11	STR	17'-8"	563
M1	60	#9	1	8'-10"	1802
S1	160	#5	2	11'-9"	1961
S2	44	#5	2	13'-7"	623
S3	2	#4	6	4'-9"	6
T1	180	#9	3	11'-0"	6732
T2	100	#6	STR	8'-6"	1277
U1	96	#4	4	7'-0"	449
U2	8	#4	4	6'-10"	37
U3	4	#4	4	7'-4"	20
V1	60	#9	1	20'-8"	4216
REINFORCING STEEL				=	25,041 LBS
SP-1	5	*	5	618'-10"	2067
SPIRAL COLUMN REINFORCING STEEL				=	2,067 LBS
* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.					
CLASS A CONCRETE:					
POUR #1: FOOTINGS				60.0 C.Y.	
POUR #2: COLUMNS				23.2 C.Y.	
POUR #3: CAP				72.6 C.Y.	
TOTAL				155.8 C.Y.	
HP 12 X 53 STEEL PILES:					
NO. = 45				LIN. FT. = 900	
STEEL PILE POINTS				45 EA.	
PREDRILLING FOR PILES				LIN. FT. = 90	
FOUNDATION EXCAVATION				LUMP SUM	

PROJECT NO. U-2525C  
 GUILFORD COUNTY  
 STATION: 28+98.81 -Y4-

SHEET 2 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
SUBSTRUCTURE BENT 1					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
 PLANS PREPARED BY:  
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 www.mottmac.com  
 LICENSE NO. F-0669

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DRAWN BY: L. T. FORBIS DATE: 6-2017  
 CHECKED BY: J. T. WILLIAMS DATE: 9-2017  
 DESIGN ENGINEER OF RECORD: J. E. MONDOLFI DATE: 10-2017