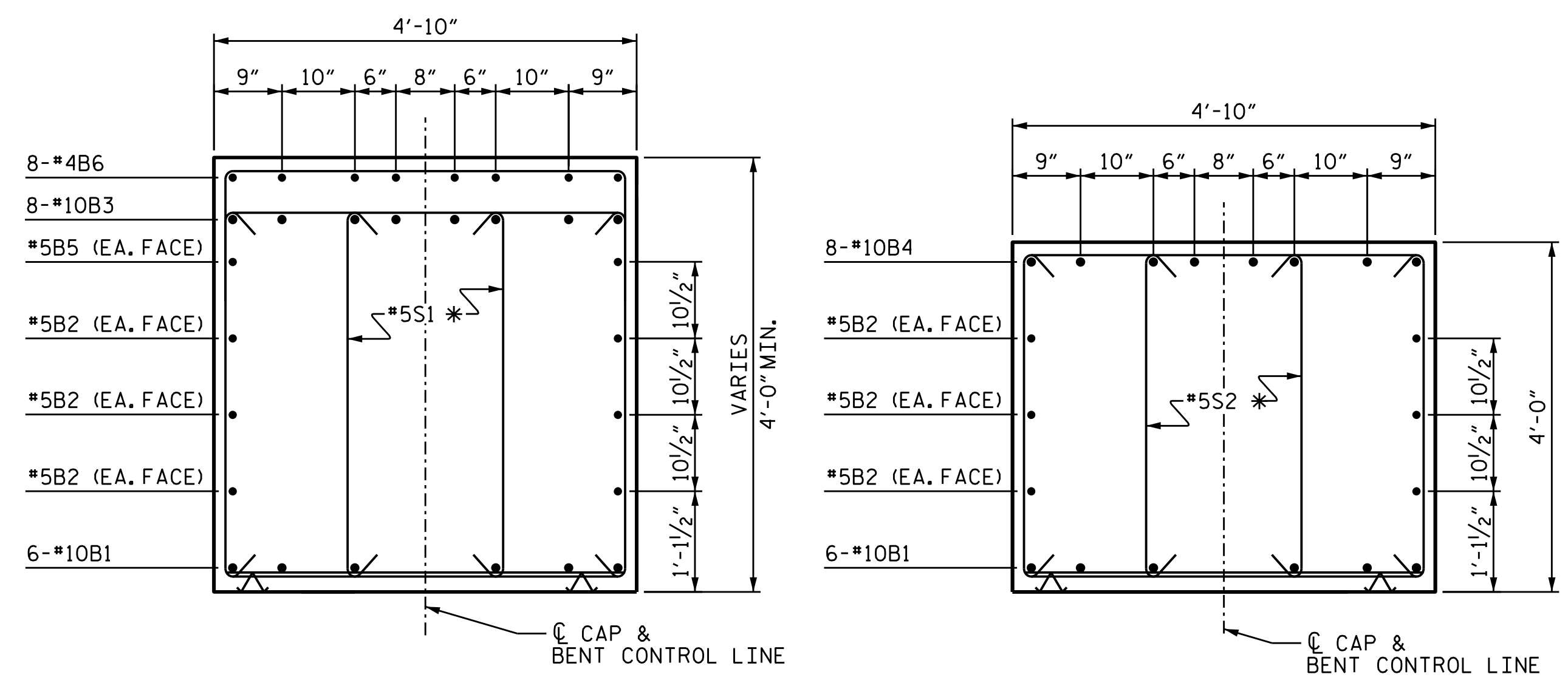


DATE: 3/31/2022  
TIME: 3:53:53 PM

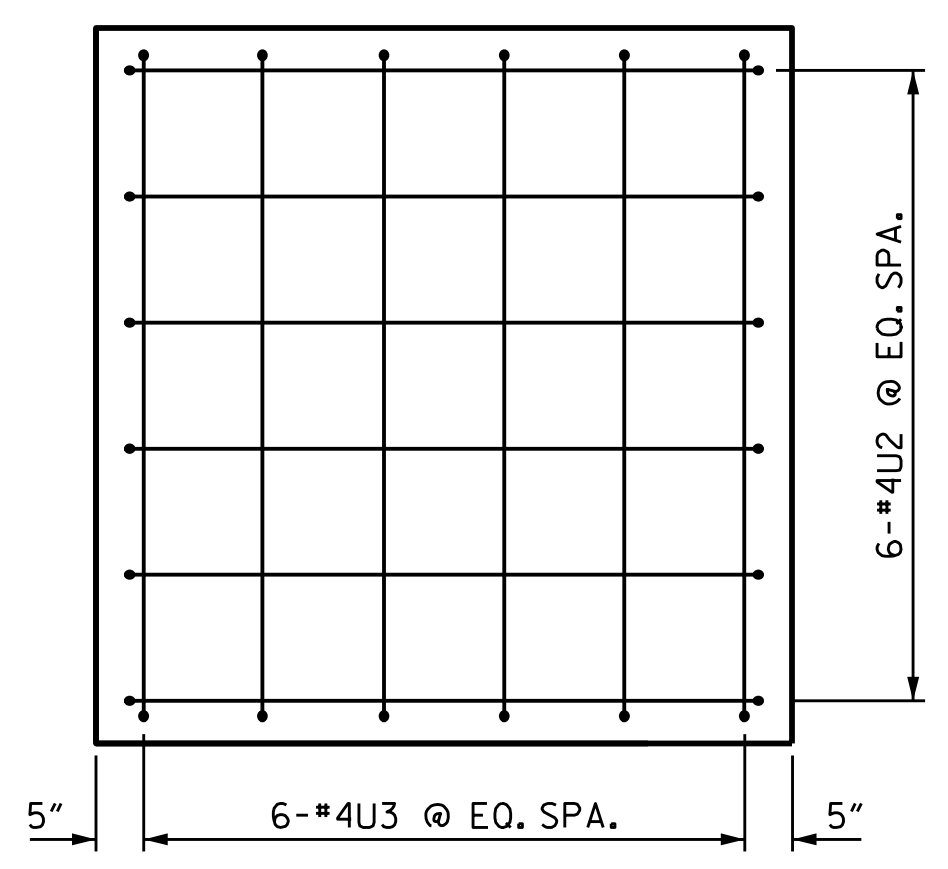
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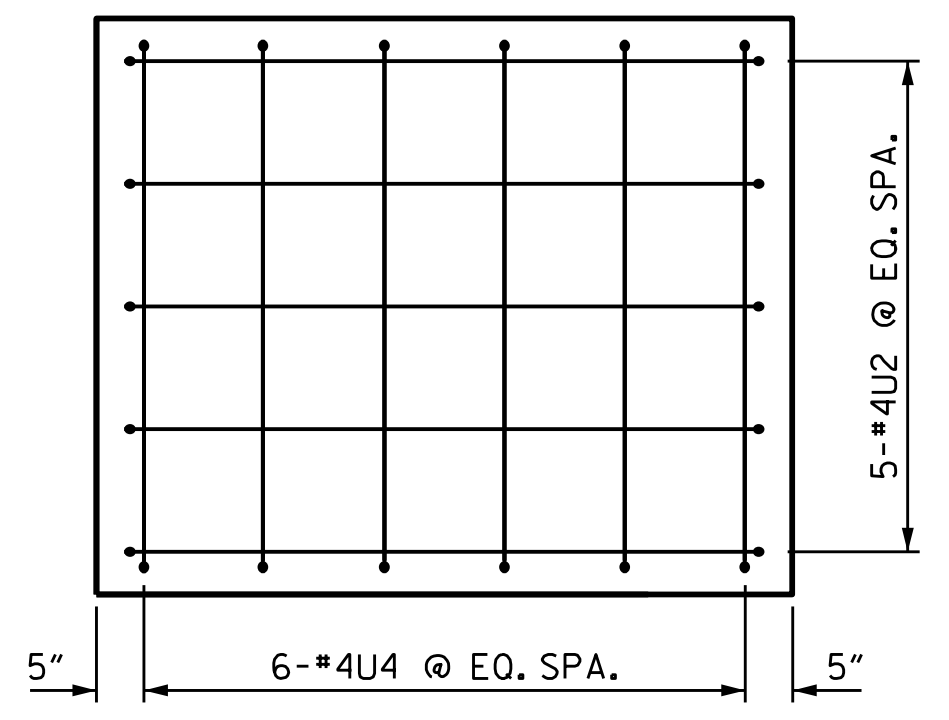
SECTION A-A

SECTION B-B

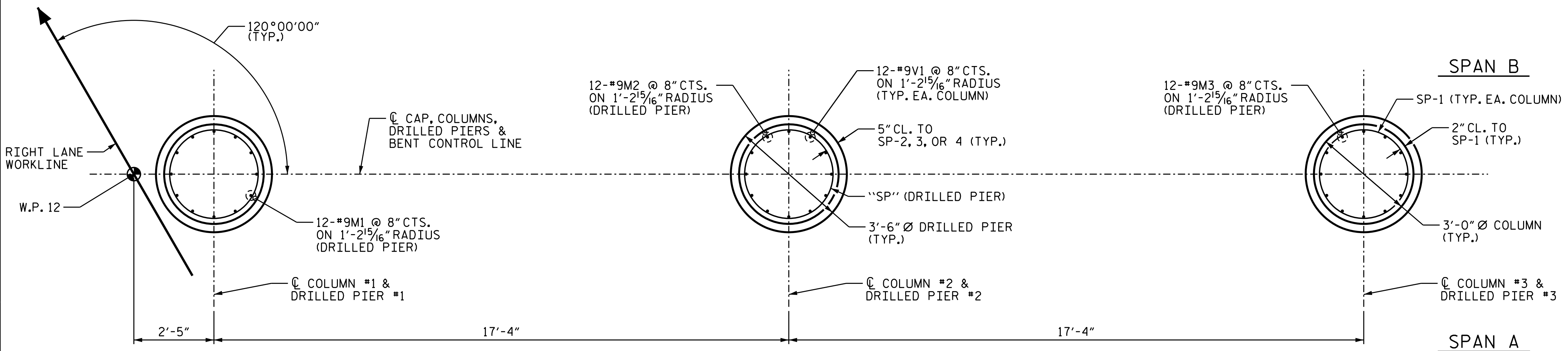
\* INVERT ALTERNATE PAIR OF STIRRUPS BETWEEN COLUMNS



LEFT CAP END VIEW



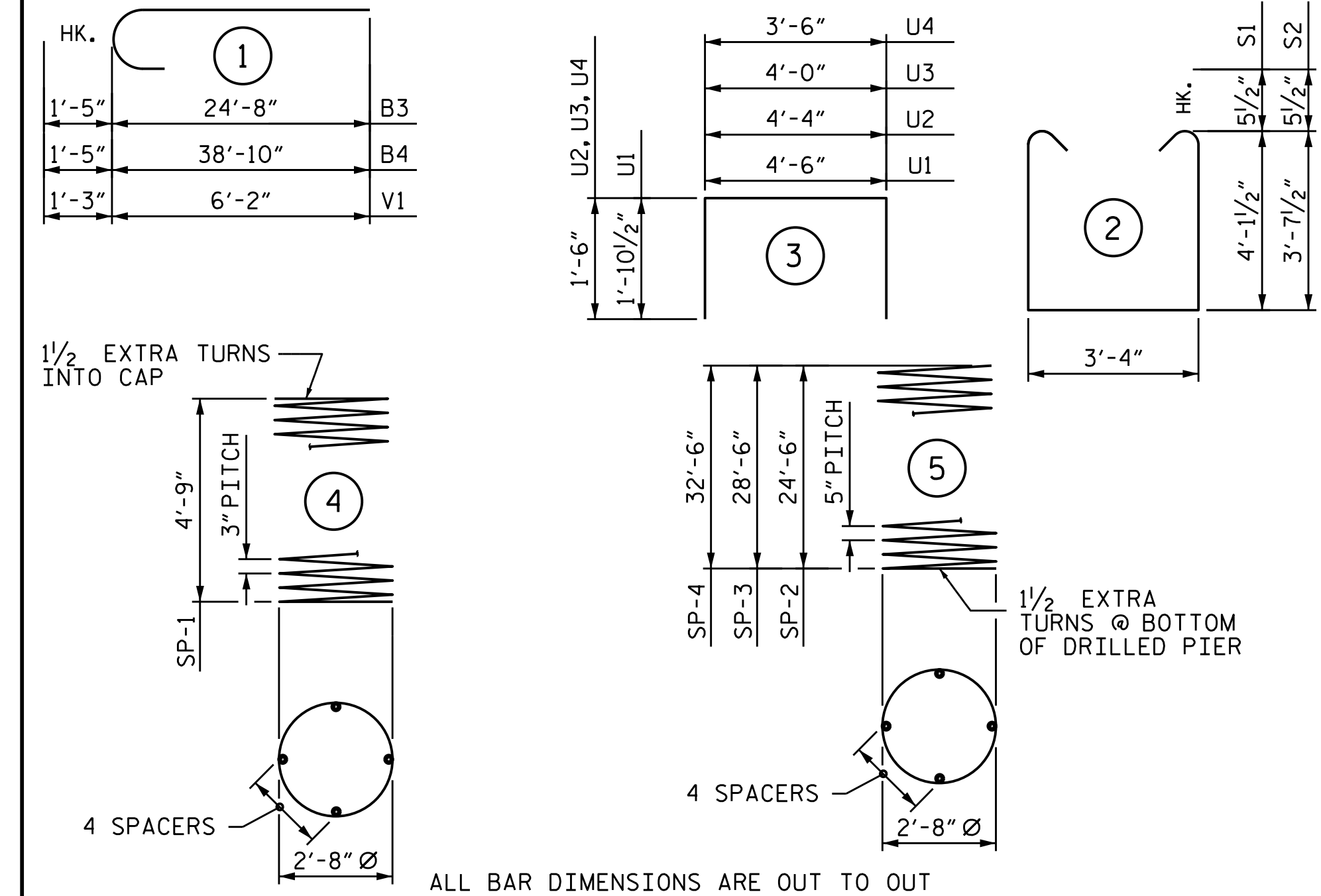
RIGHT CAP END VIEW



PLAN OF DRILLED PIERS AND COLUMNS

DRAWN BY : B.D. HODACK DATE : 06/2021  
 CHECKED BY : S. NATARAJAN DATE : 08/2021  
 DESIGNED BY : S. NATARAJAN DATE : 05/2021  
 DESIGN CHECKED BY : G.R. COLS DATE : 06/2021

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

BENT 1						
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	6	#10	STR	44'-8"	1153	
B2	6	#5	STR	44'-8"	280	
B3	8	#10	1	26'-1"	898	
B4	8	#10	1	40'-3"	1386	
B5	2	#5	STR	10'-5"	22	
B6	8	#4	STR	4'-8"	25	
B7	5	#4	STR	4'-6"	15	
M1	12	#9	STR	31'-7"	1289	
M2	12	#9	STR	35'-7"	1452	
M3	12	#9	STR	39'-7"	1615	
S1	54	#5	2	12'-6"	704	
S2	46	#5	2	11'-6"	552	
U1	50	#4	3	8'-3"	276	
U2	11	#4	3	7'-4"	54	
U3	6	#4	3	7'-0"	28	
U4	6	#4	3	6'-6"	26	
V1	36	#9	1	7'-5"	908	
REINFORCING STEEL				10,683 LBS.		
SP-1	3	*	4	168'-9"	338	
SP-2	1	**	5	494'-11"	516	
SP-3	1	**	5	573'-9"	598	
SP-4	1	**	5	652'-6"	681	

SPIRAL COLUMN REINFORCING STEEL 2,133 LBS.

\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR  
 \*\* THE SP-2, 3, 4 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR

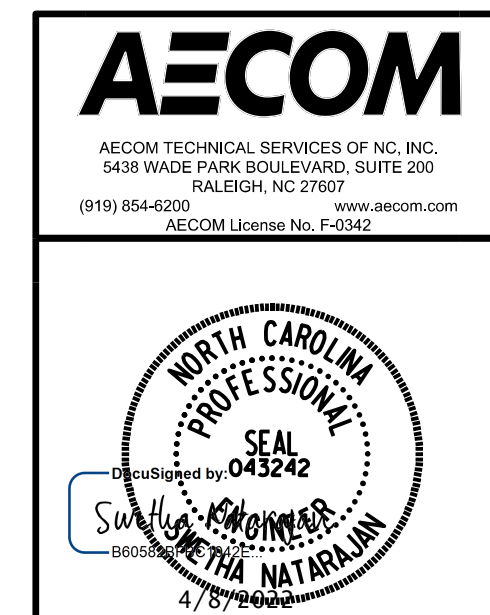
CLASS A CONCRETE BREAKDOWN	
POUR #2 (COLUMNS)	3.6 C.Y.
POUR #3 (CAP)	35.7 C.Y.

TOTAL CLASS A CONCRETE 39.3 C.Y.

DRILLED PIERS:	
DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	31.0 C.Y.
3'-6" Ø DRILLED PIERS IN SOIL	51 LIN. FT.
3'-6" Ø DRILLED PIERS NOT IN SOIL	36 LIN. FT.
CSL TUBES	366 LIN. FT.
PERM. STEEL CASING FOR 42" Ø DRILLED PIER	48.2 LIN. FT.

PROJECT NO. **B-5717**  
 GUILFORD COUNTY  
 STATION: **21+22.00 -L-**

SHEET 2 OF 2



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 BENT 1  
 (RIGHT LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S1-30
1			3			TOTAL SHEETS 38
2			4			

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED