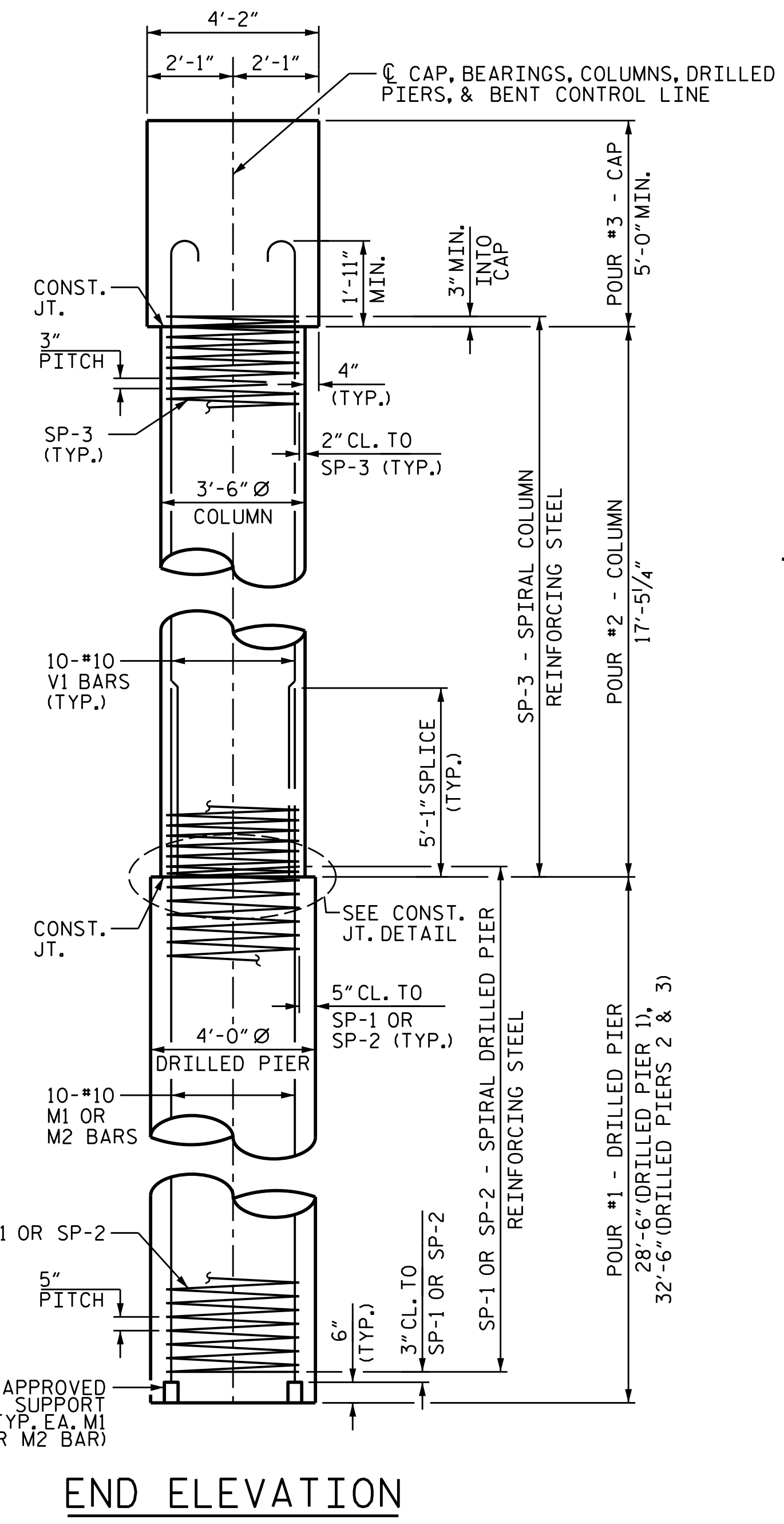
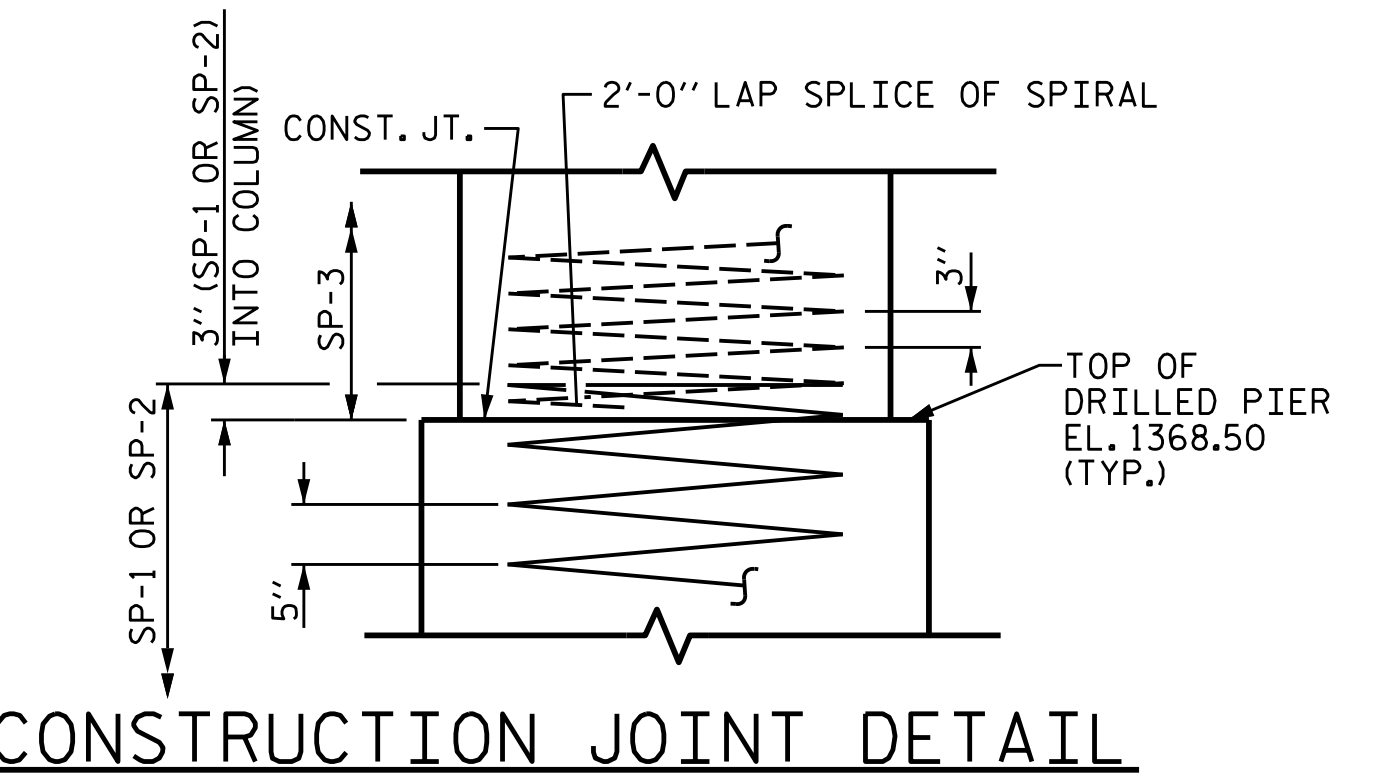


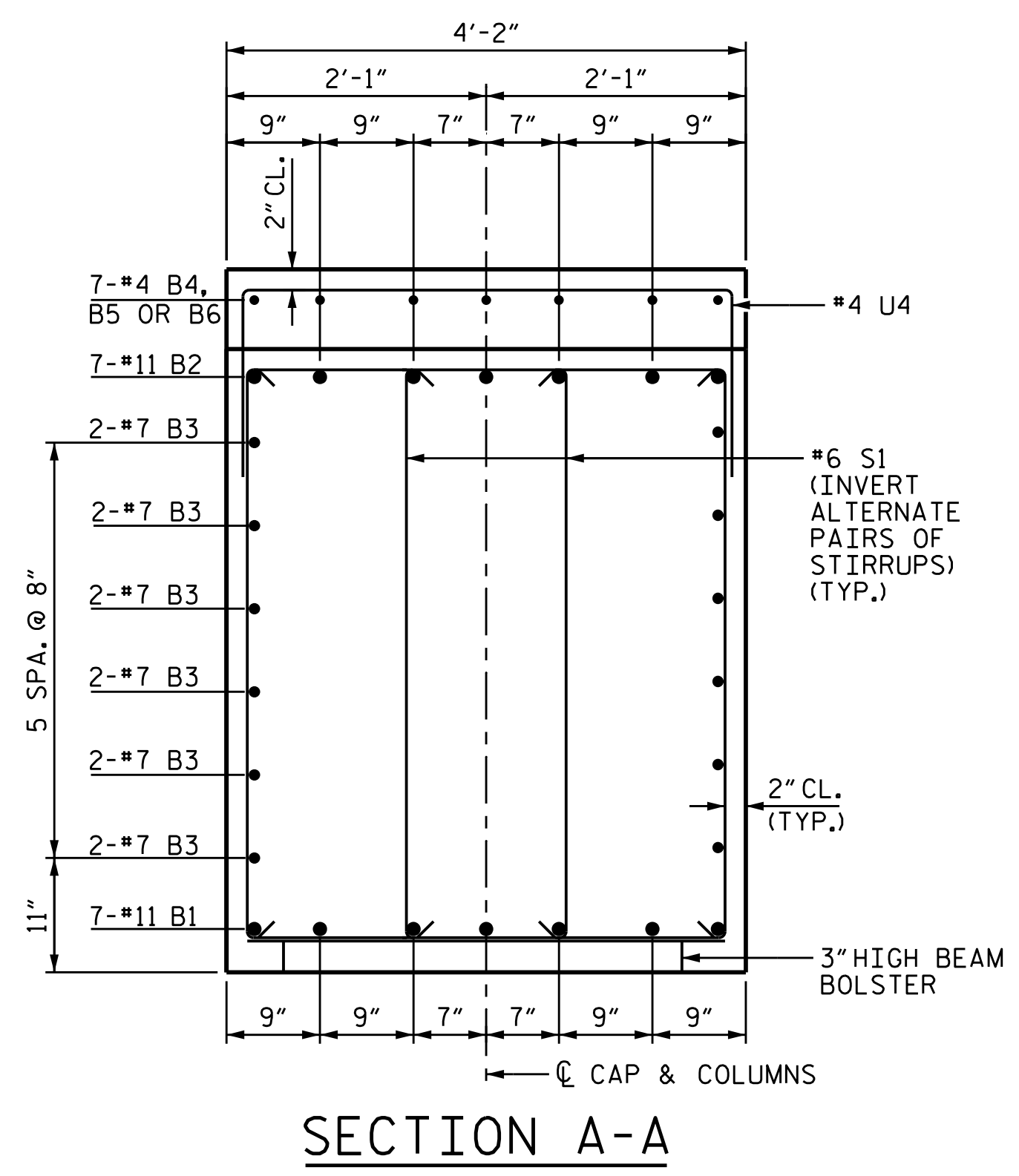
**PLAN OF DRILLED PIERS & COLUMNS**  
(DIMENSIONS SHOWN ARE TYPICAL FOR EACH COLUMN AND DRILLED PIER)



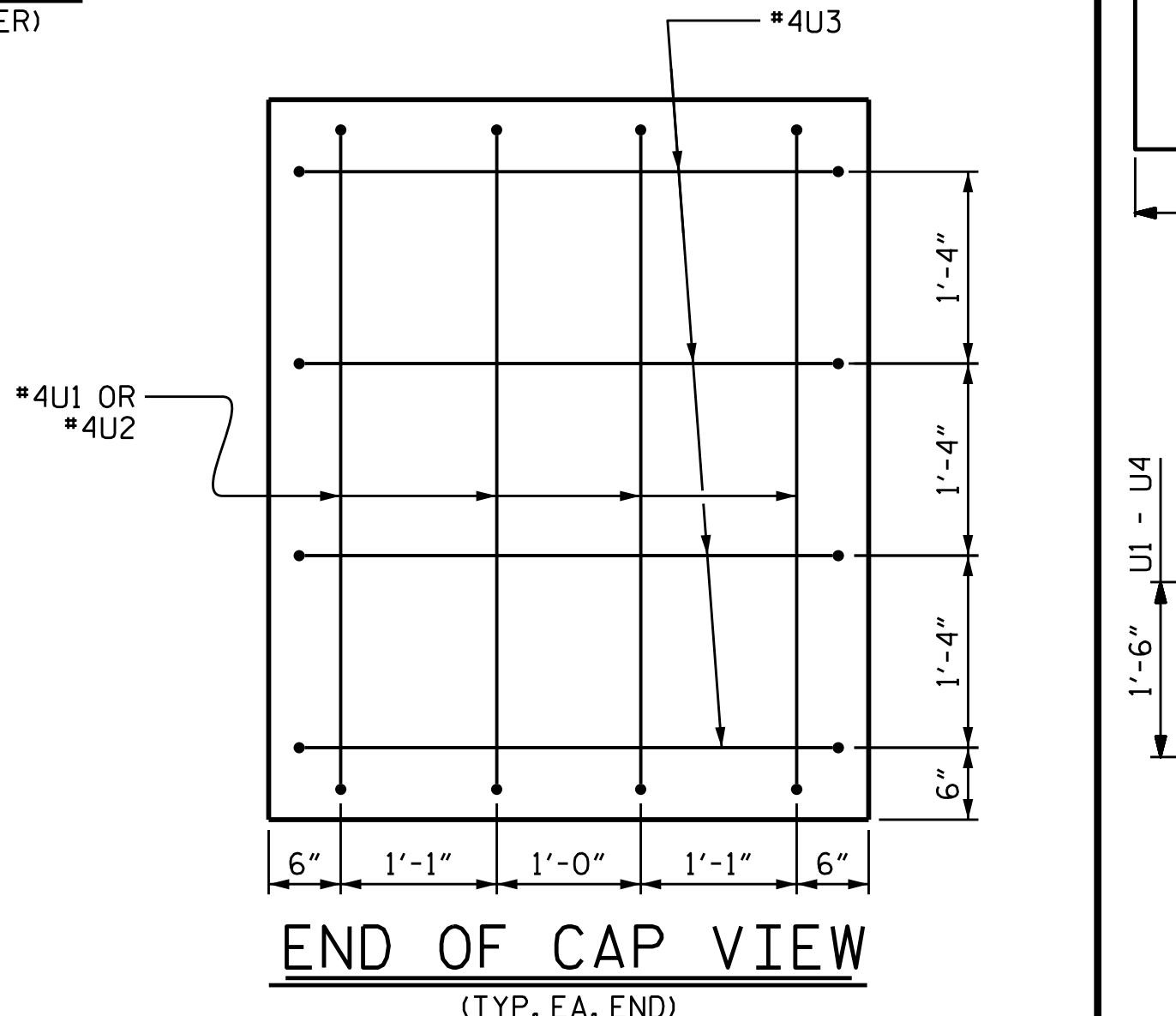
**END ELEVATION**



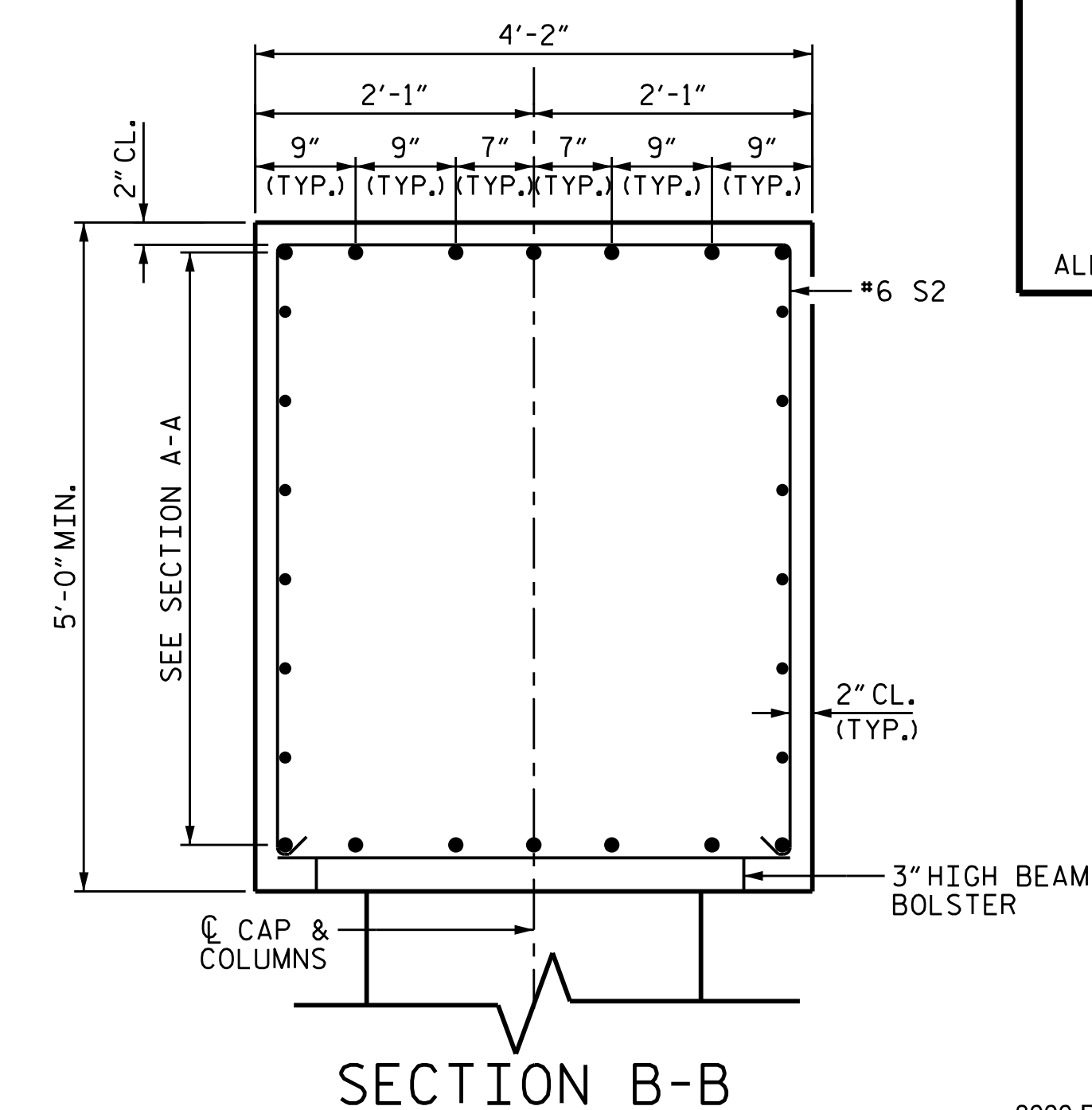
**CONSTRUCTION JOINT DETAIL**



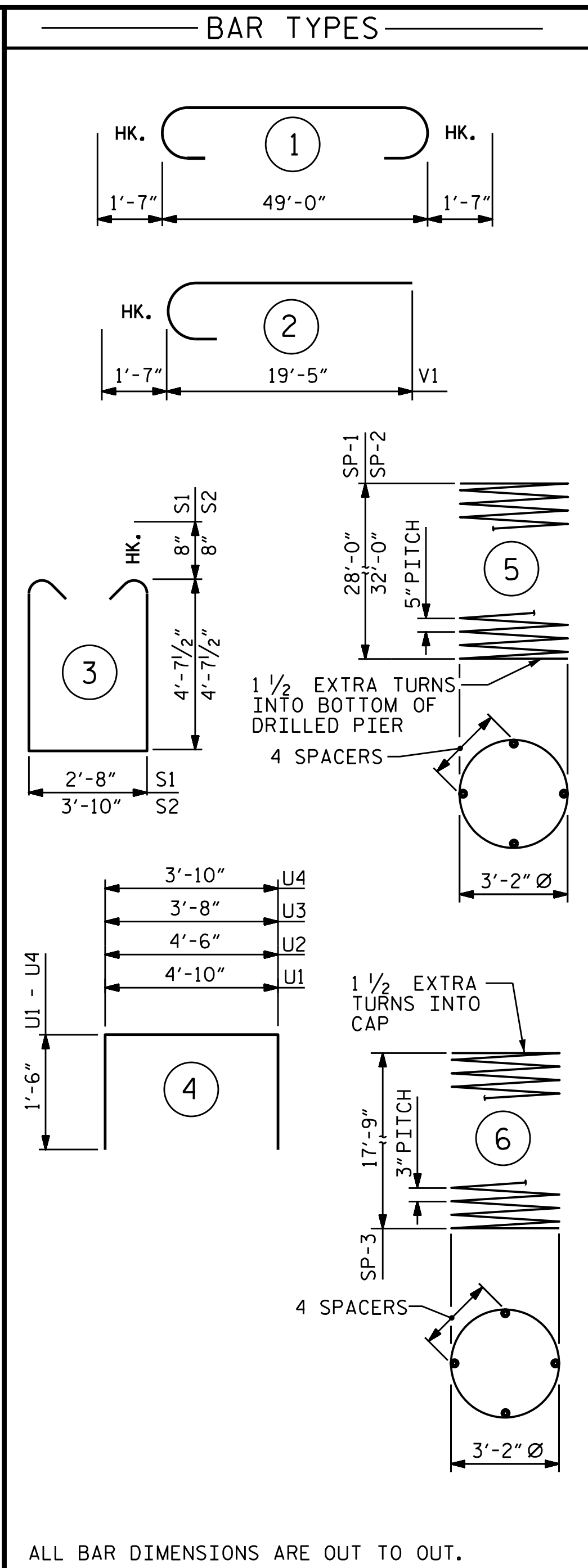
**SECTION A-A**



**END OF CAP VIEW**  
(TYP. EA. END)



**SECTION B-B**



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	7	#11	STR.	49'-2"	1829
B2	7	#11	1	52'-2"	1940
B3	12	#7	STR.	49'-2"	1206
B4	7	#4	STR.	11'-2"	52
B5	7	#4	STR.	13'-8"	64
B6	7	#4	STR.	11'-11"	56
M1	10	#10	STR.	36'-1"	1553
M2	20	#10	STR.	40'-1"	3450
S1	104	#6	3	13'-3"	2070
S2	30	#6	3	14'-5"	650
U1	4	#4	4	7'-10"	21
U2	4	#4	4	7'-6"	20
U3	8	#4	4	6'-8"	36
U4	47	#4	4	6'-10"	215
V1	30	#10	2	21'-0"	2711

REINFORCING STEEL					
SP-1	1	*	5	672'-10"	702
SP-2	2	*	5	766'-11"	1600
SP-3	3	**	6	712'-0"	1427

SPIRAL COLUMN REINFORCING STEEL 2,302 LBS

CLASS A CONCRETE BREAKDOWN

POUR #2 (COLUMNS)	18.7 C.Y.
POUR #3 (CAP)	40.6 C.Y.
<b>TOTAL CLASS A CONCRETE</b>	<b>59.3 C.Y.</b>

DRILLED PIERS:

DRILLED PIERS CONCRETE POUR #1 (DRILLED PIERS)	43.5 C.Y.
4'-0" DRILLED PIER NOT IN SOIL	26.0 LIN. FT.
4'-0" DRILLED PIER IN SOIL	67.5 LIN. FT.
CSL TUBES	392 LIN. FT.

PROJECT NO. BR-0033  
McDOWELL COUNTY  
 STATION: 16+11.51 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 BENT 1



Alexander Forfa 11/23/2021

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

DRAWN BY: M. SPENCER DATE: 06/2021  
 CHECKED BY: A. FORFA DATE: 06/2021  
 DESIGN ENGINEER OF RECORD: A. FORFA DATE: 09/2021



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DOCUMENT NOT CONSIDERED  
 FINAL UNLESS ALL  
 SIGNATURES COMPLETED

SHEET NO.  
 S-25  
 TOTAL SHEETS  
 32