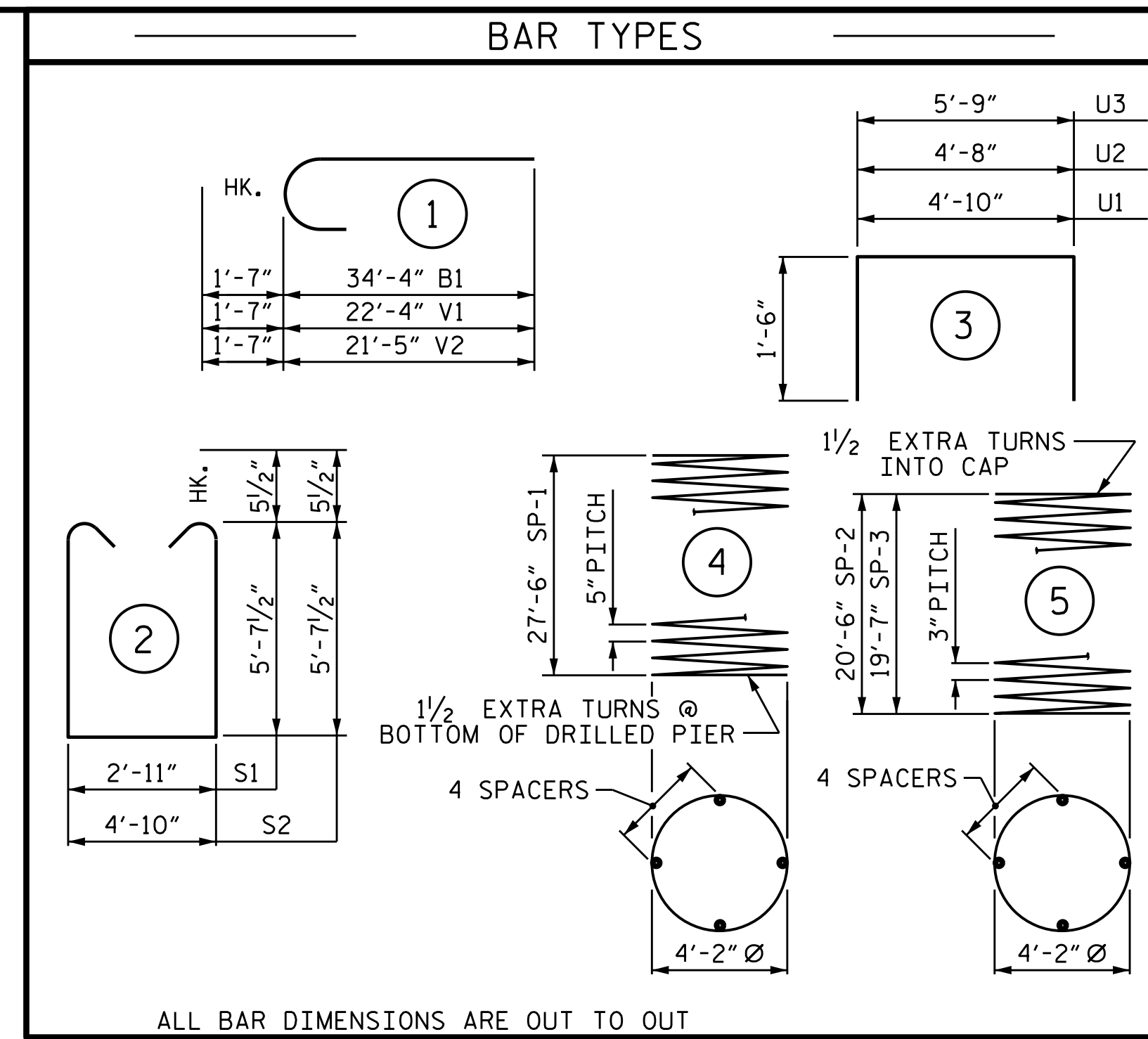
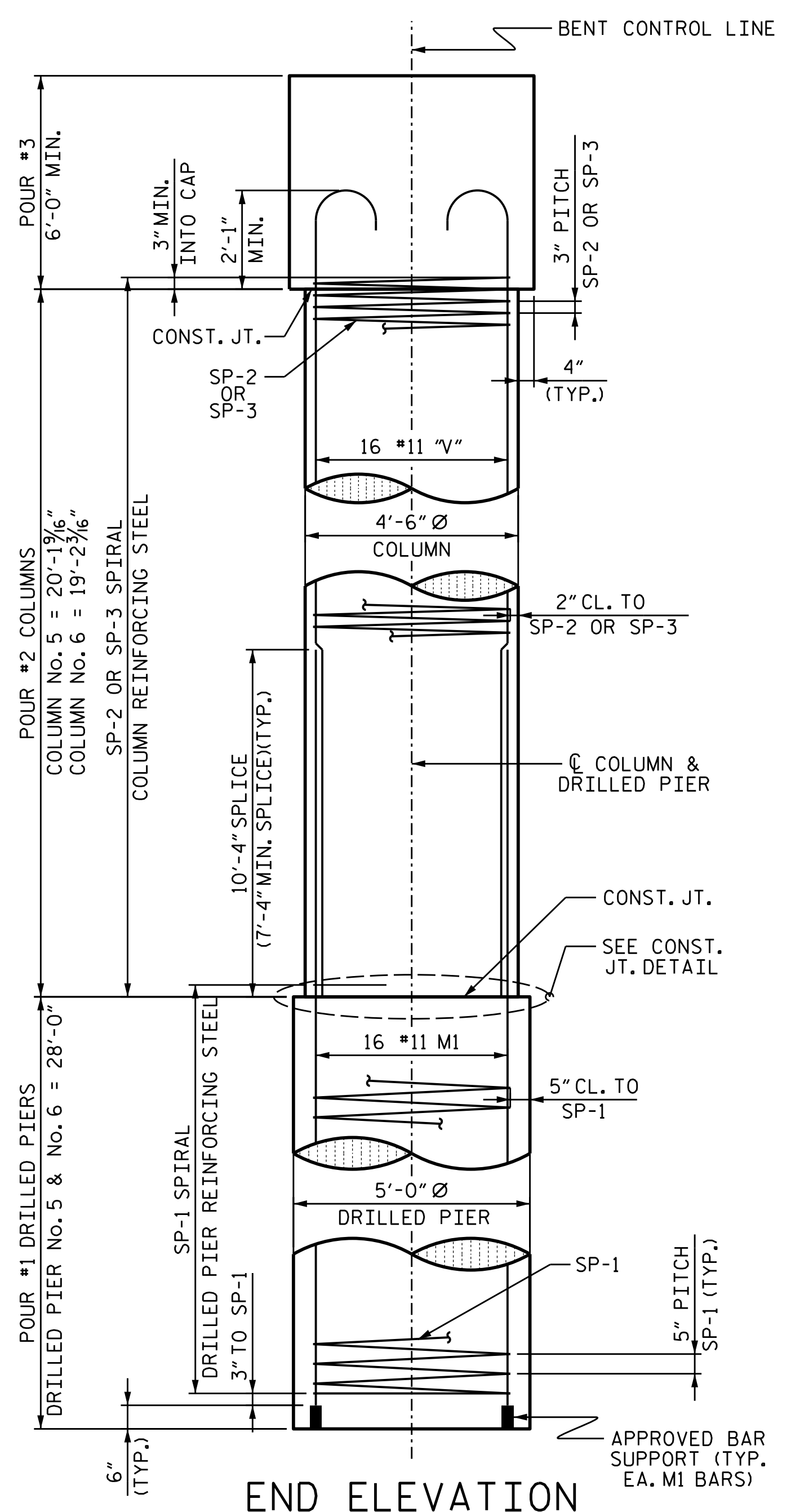


PLAN OF DRILLED PIERS & COLUMNS

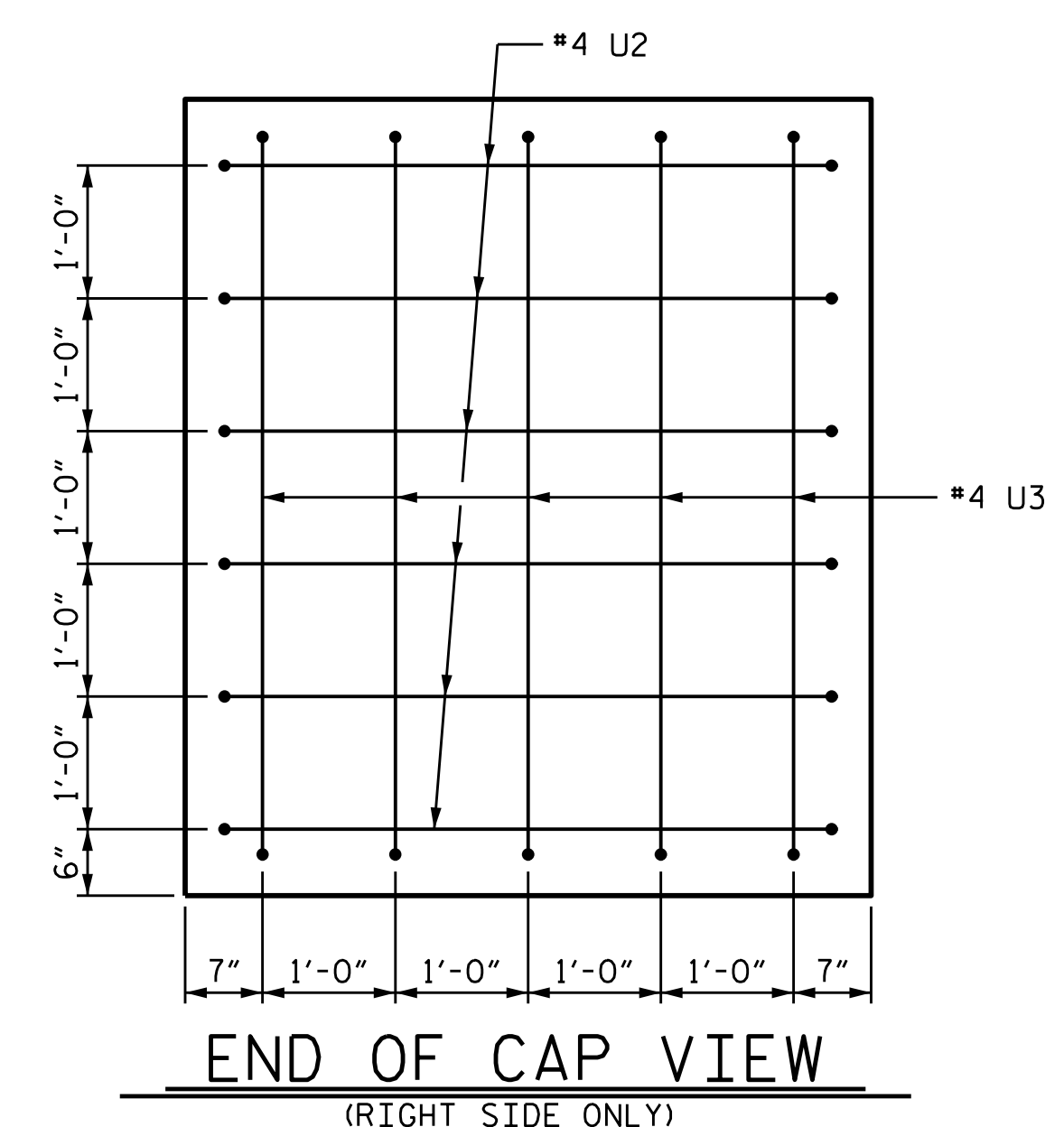


ALL BAR DIMENSIONS ARE OUT TO OUT

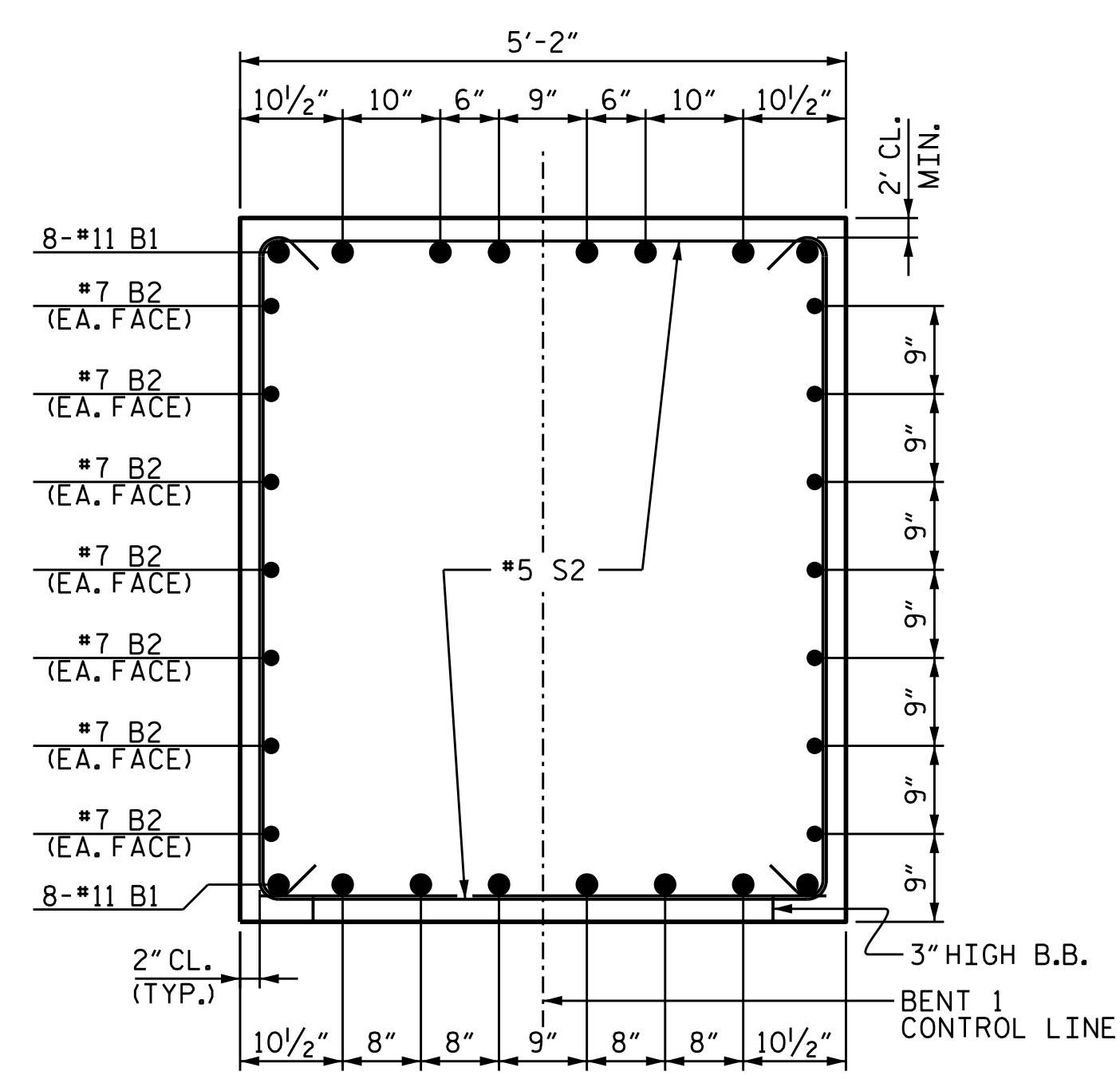
BILL OF MATERIAL					
BENT 1 STAGE I					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	16	#11	1	35'-11"	3,053
B2	14	#7	STR	38'-8"	1,106
B3	24	#4	STR	9'-6"	152
B4	8	#4	STR	6'-8"	36
M1	32	#11	STR	37'-10"	6,432
S1	80	#5	2	15'-1"	1,259
S2	6	#5	2	17'-0"	106
U1	32	#4	3	7'-10"	167
U2	6	#4	3	7'-8"	31
U3	5	#4	3	8'-9"	29
V1	16	#11	1	23'-11"	2,033
V2	16	#11	1	23'-0"	1,955
REINFORCING STEEL					16,359 LBS.
SP-1	2	*	4	879'-6"	1,835
SP-2	1	**	5	1,088'-10"	727
SP-3	1	**	5	1,036'-11"	693
SPIRAL COLUMN REINFORCING STEEL					3,255 LBS.
* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR					
** THE SP-2 OR SP-3 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR					



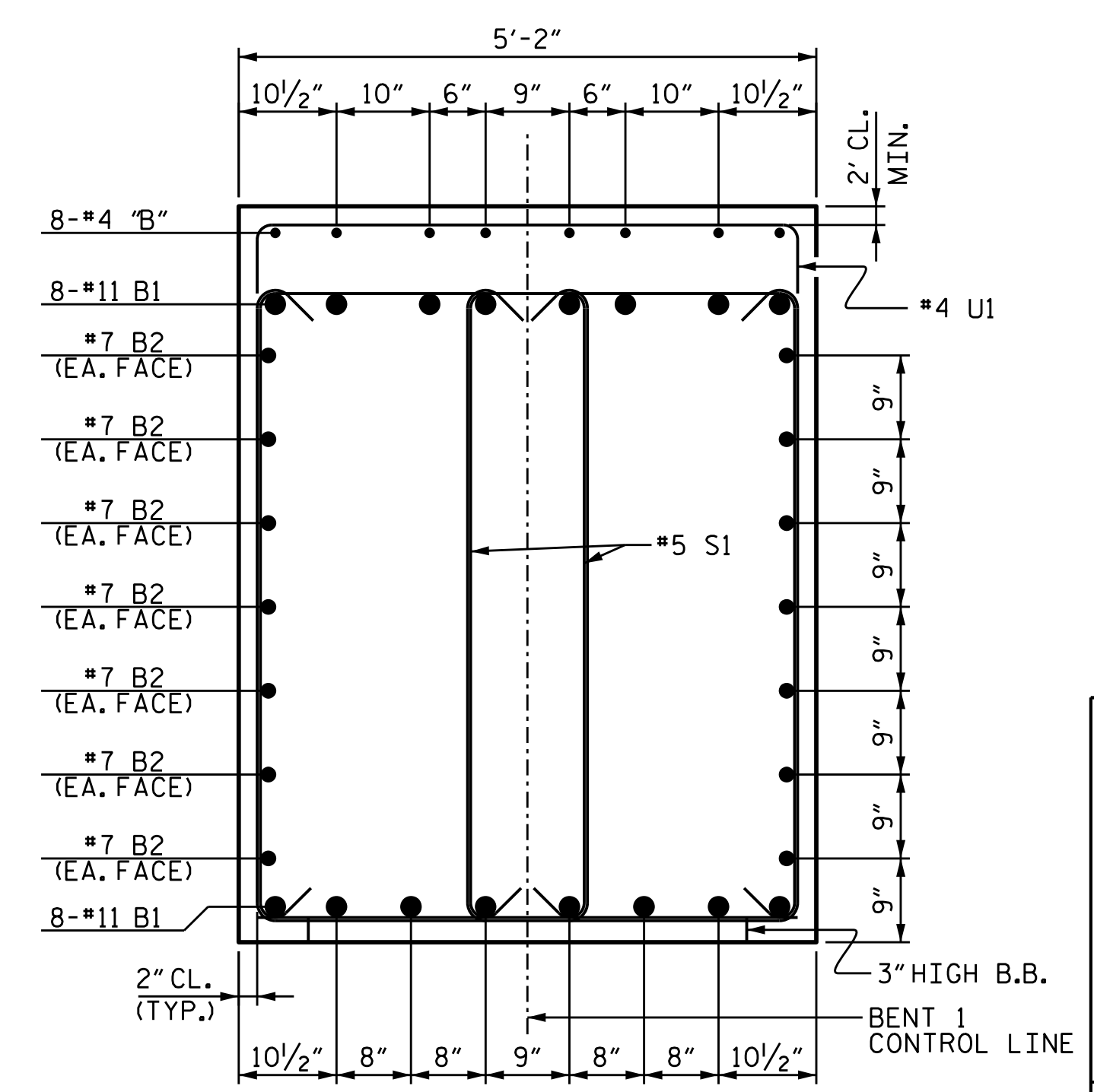
END ELEVATION



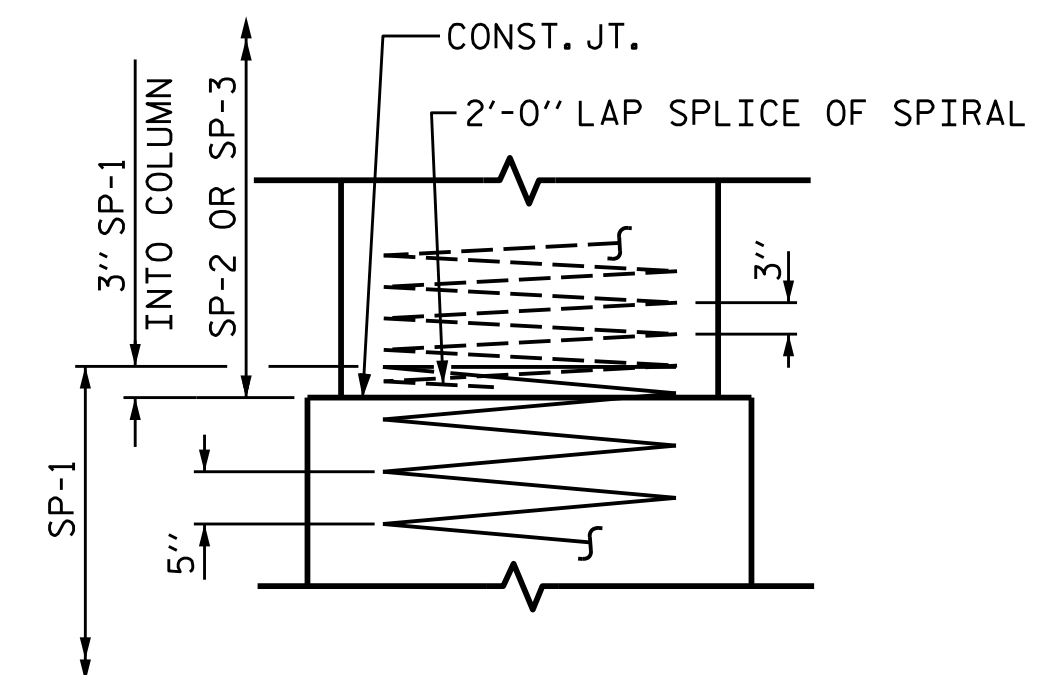
END OF CAP VIEW (RIGHT SIDE ONLY)



SECTION A-A



SECTION B-B



CONSTRUCTION JOINT DETAIL

CLASS A CONCRETE BREAKDOWN	
POUR #2 (COLUMNS)	23.2 C.Y.
POUR #3 (CAP)	40.2 C.Y.
<b>TOTAL CLASS A CONCRETE</b>	<b>63.4 C.Y.</b>

DRILLED PIERS:	
DRILLED PIER CONCRETE POUR #1	40.7 C.Y.
5'-0" Ø DRILLED PIERS NOT IN SOIL	29.00 LIN. FT.
5'-0" Ø DRILLED PIERS IN SOIL	27.00 LIN. FT.
PERMANENT STEEL CASING FOR 5'-0" Ø DRILLED PIERS	16.00 LIN. FT.
CSL TUBES	295.00 LIN. FT.

PROJECT NO. R-2566BA  
 WATAUGA COUNTY  
 STATION: 164+30.00-L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUBSTRUCTURE  
 BENT 1  
 STAGE I

SEAL 20125  
 ENGINEER  
 MARSHALL B. CHECK, JR.  
 SFBCC2F3A4DC413 9/30/2021 | 1:43 PM EDT

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS  
 804-C N. LAFAYETTE ST  
 SHELBY, NC 28150  
 PH (704) 476-0003  
 CORP. LICENSE NO.: C-0275

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-62
1			3			TOTAL SHEETS 79
2			4			

DRAWN BY: JLA DATE: 4/19  
 CHECKED BY: RAR DATE: 5/19  
 DESIGN ENGINEER OF RECORD: TBE DATE: 6/19