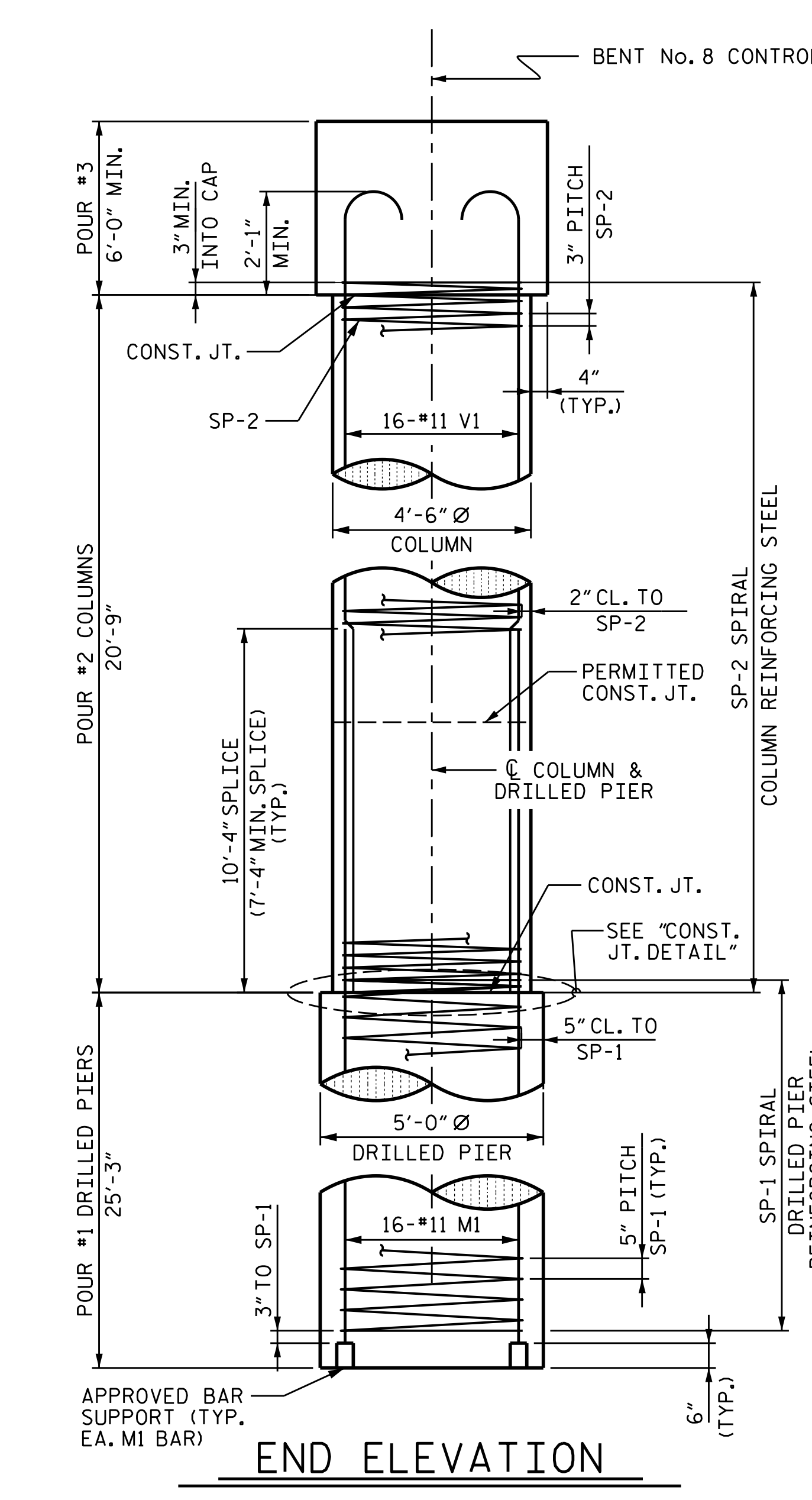
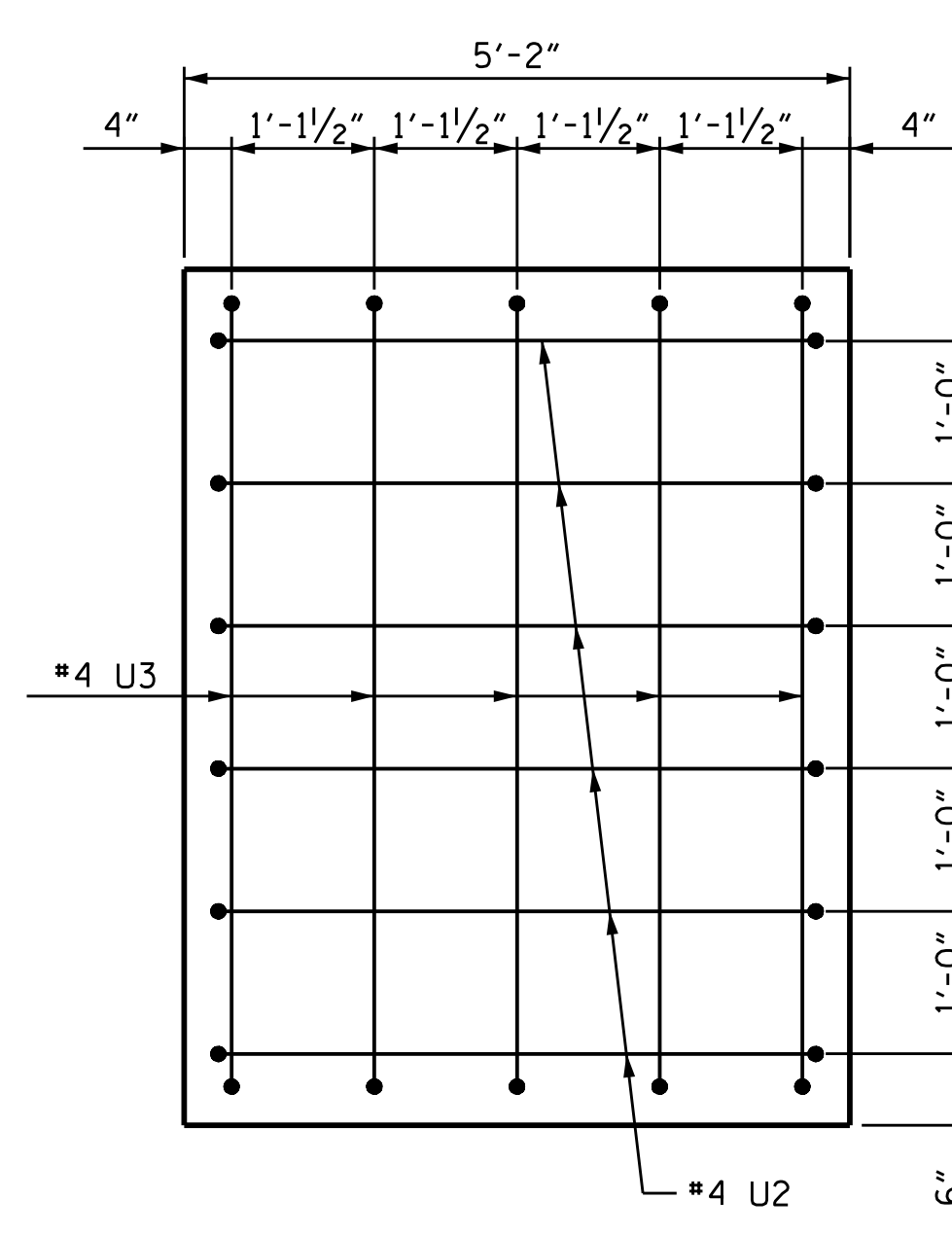


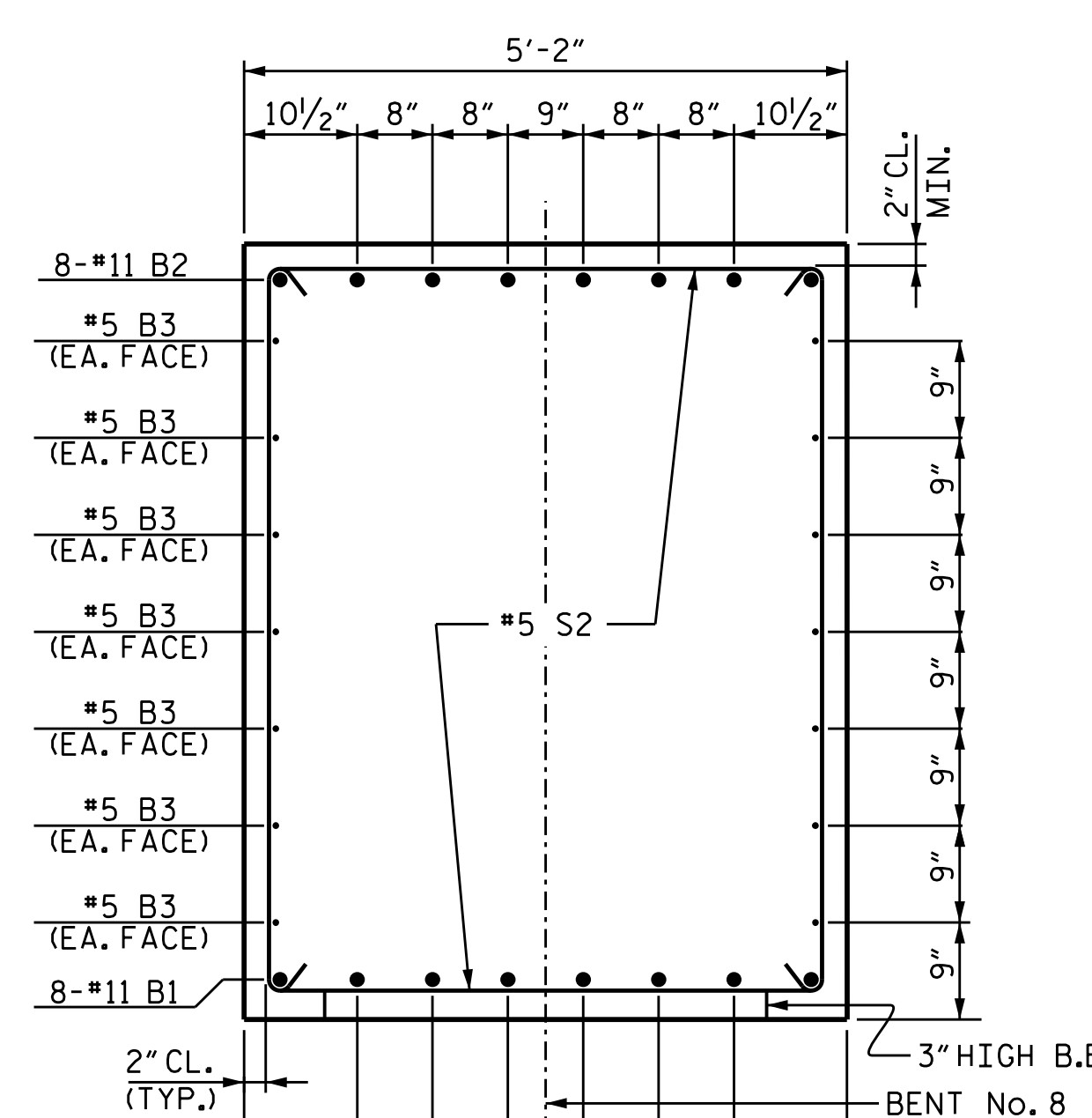
**PLAN OF DRILLED PIERS & COLUMNS**  
DIMENSIONS AND REINFORCING STEEL ARE TYPICAL FOR EACH COLUMN & DRILLED PIER.



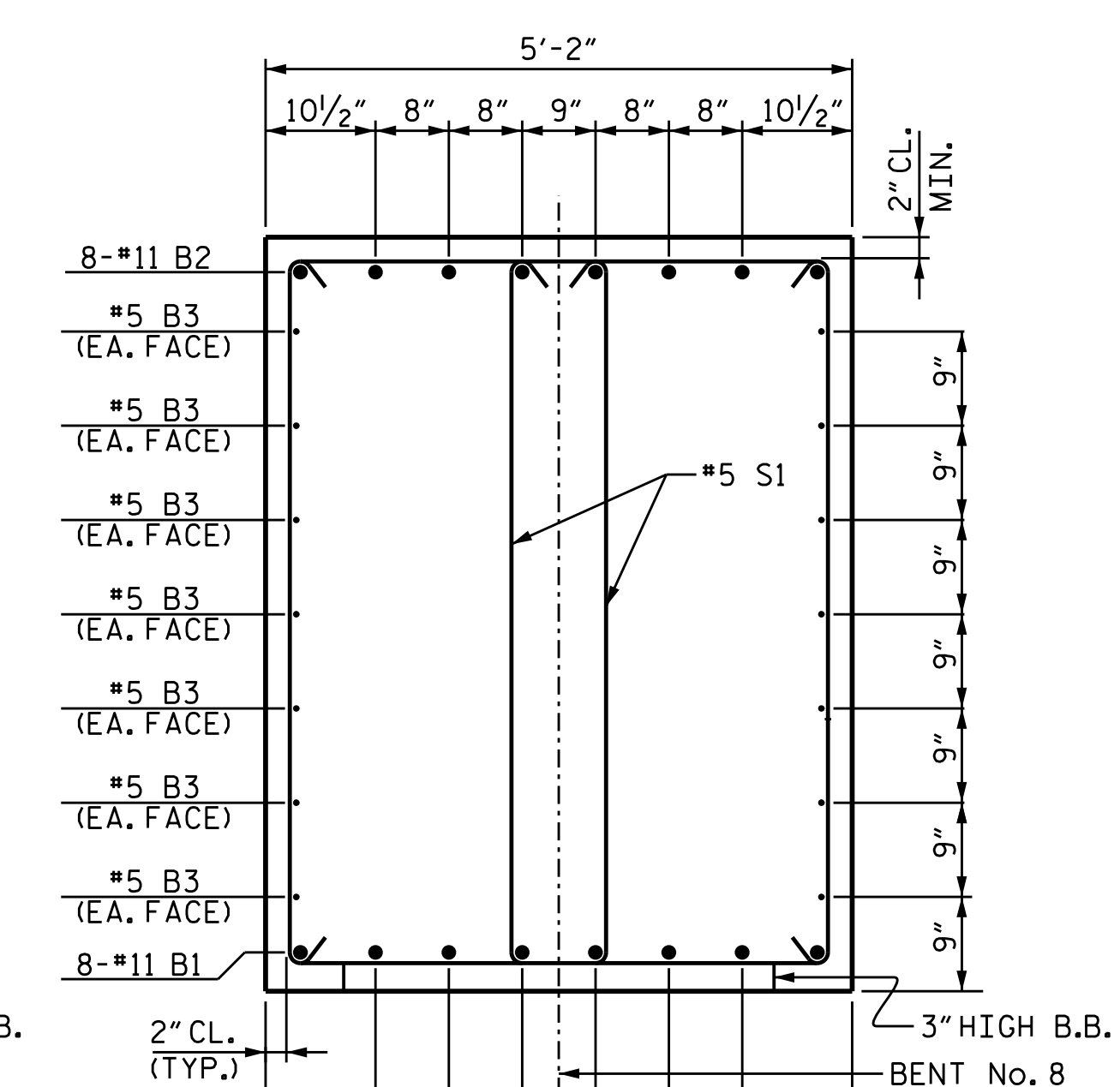
**END ELEVATION**



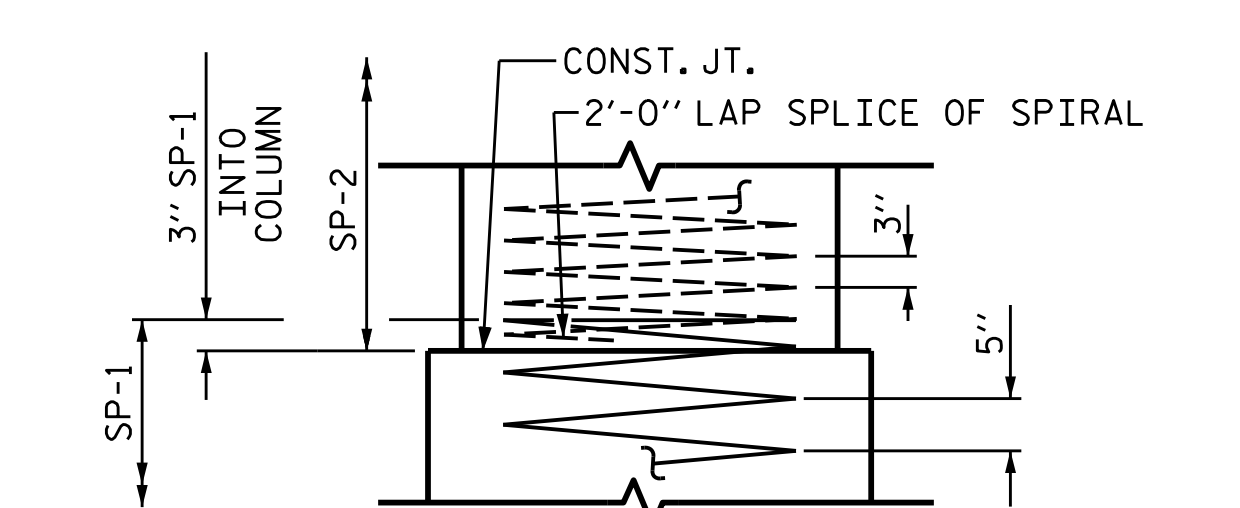
**END VIEW**



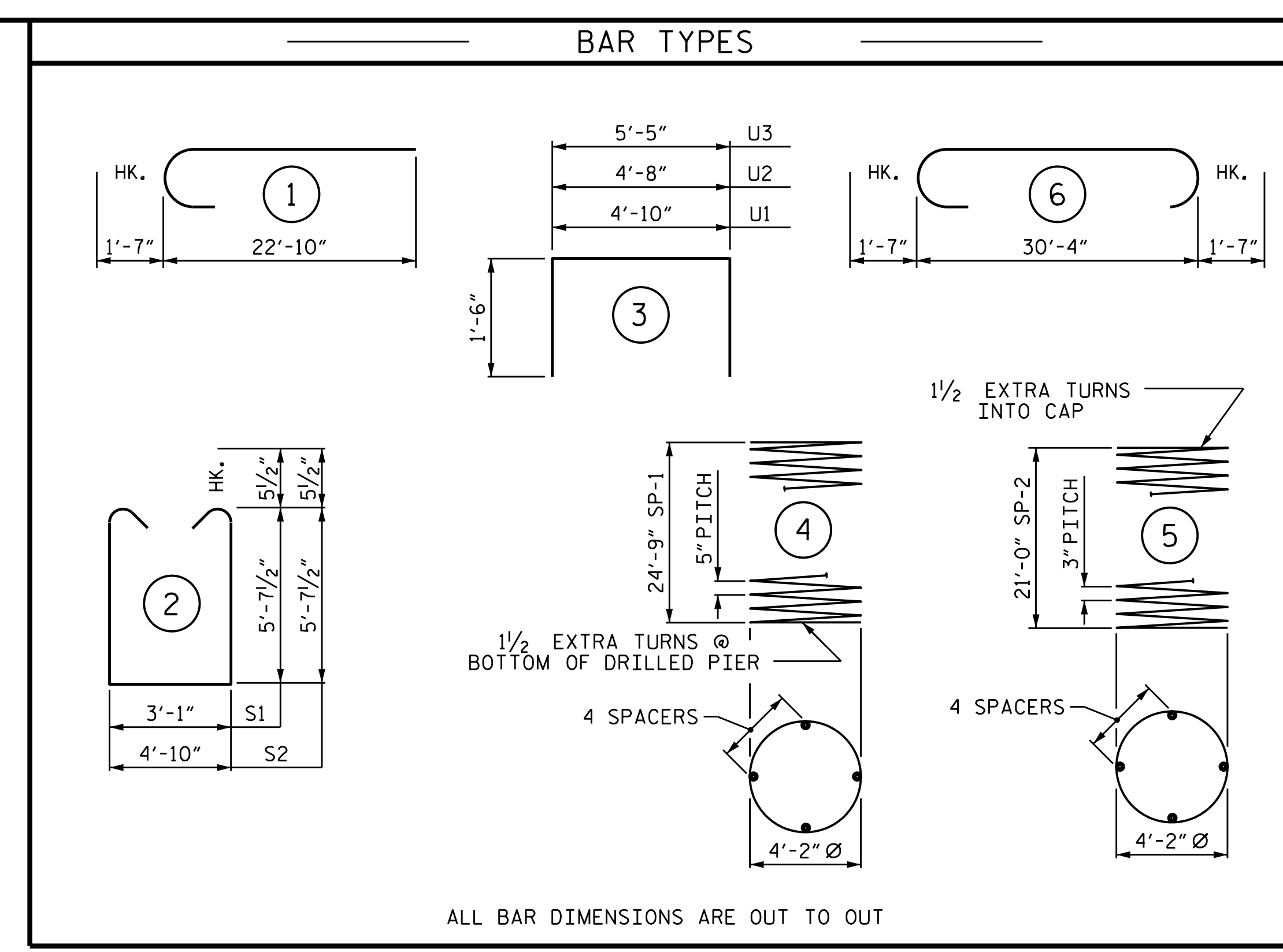
**SECTION A-A**



**SECTION B-B**



**CONSTRUCTION JOINT DETAIL**



ALL BAR DIMENSIONS ARE OUT TO OUT

**BILL OF MATERIAL FOR BENT No. 8**

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#11	STR	30'-6"	1,296
B2	8	#11	6	33'-6"	1,424
B3	14	#5	STR	30'-6"	445
M1	32	#11	STR	35'-1"	5,965
S1	52	#5	2	15'-3"	827
S2	11	#5	2	17'-0"	195
U1	28	#4	3	7'-10"	147
U2	12	#4	3	7'-8"	61
U3	10	#4	3	8'-5"	56
V1	32	#11	1	24'-5"	4,151

REINFORCING STEEL 14,567

SP-1	2	*	4	788'-11"	1,646
SP-2	2	**	5	1,114'-9"	1,489

SPIRAL COLUMN REINFORCING STEEL 3,135 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 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR

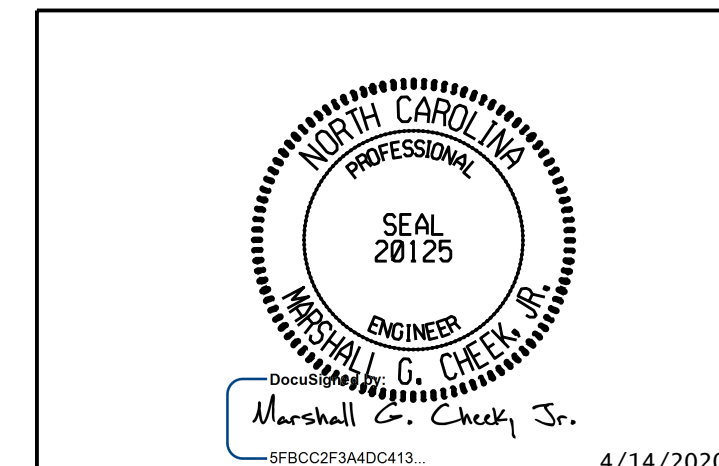
CLASS A CONCRETE BREAKDOWN

POUR #2 (COLUMNS)	24.4 C.Y.
POUR #3 (CAP)	35.9 C.Y.
<b>TOTAL CLASS A CONCRETE</b>	<b>60.3 C.Y.</b>

DRILLED PIERS:

DRILLED PIER CONCRETE POUR #1	36.7 C.Y.
5'-0" Ø DRILLED PIERS IN SOIL	25.50 LIN. FT.
5'-0" Ø DRILLED PIERS NOT IN SOIL	25.00 LIN. FT.
CSL TUBES	267.50 LIN. FT.

PROJECT NO. B-5825  
YADKIN/FORSYTH COUNTY  
STATION: 34+65.50-L-  
SHEET 2 OF 2



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH  
SUBSTRUCTURE  
BENT No. 8

DRAWN BY :	TBE	DATE :	10/19
CHECKED BY :	MGC	DATE :	1/20
DESIGN ENGINEER OF RECORD:	TBE	DATE :	2/20

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
TGS ENGINEERS  
706 HILLSBOROUGH STREET  
SUITE 200  
RALEIGH, NC 27603  
PH (919) 773-8887  
CORP. LICENSE NO.: C-0275

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-54
1			3			TOTAL SHEETS
2			4			60