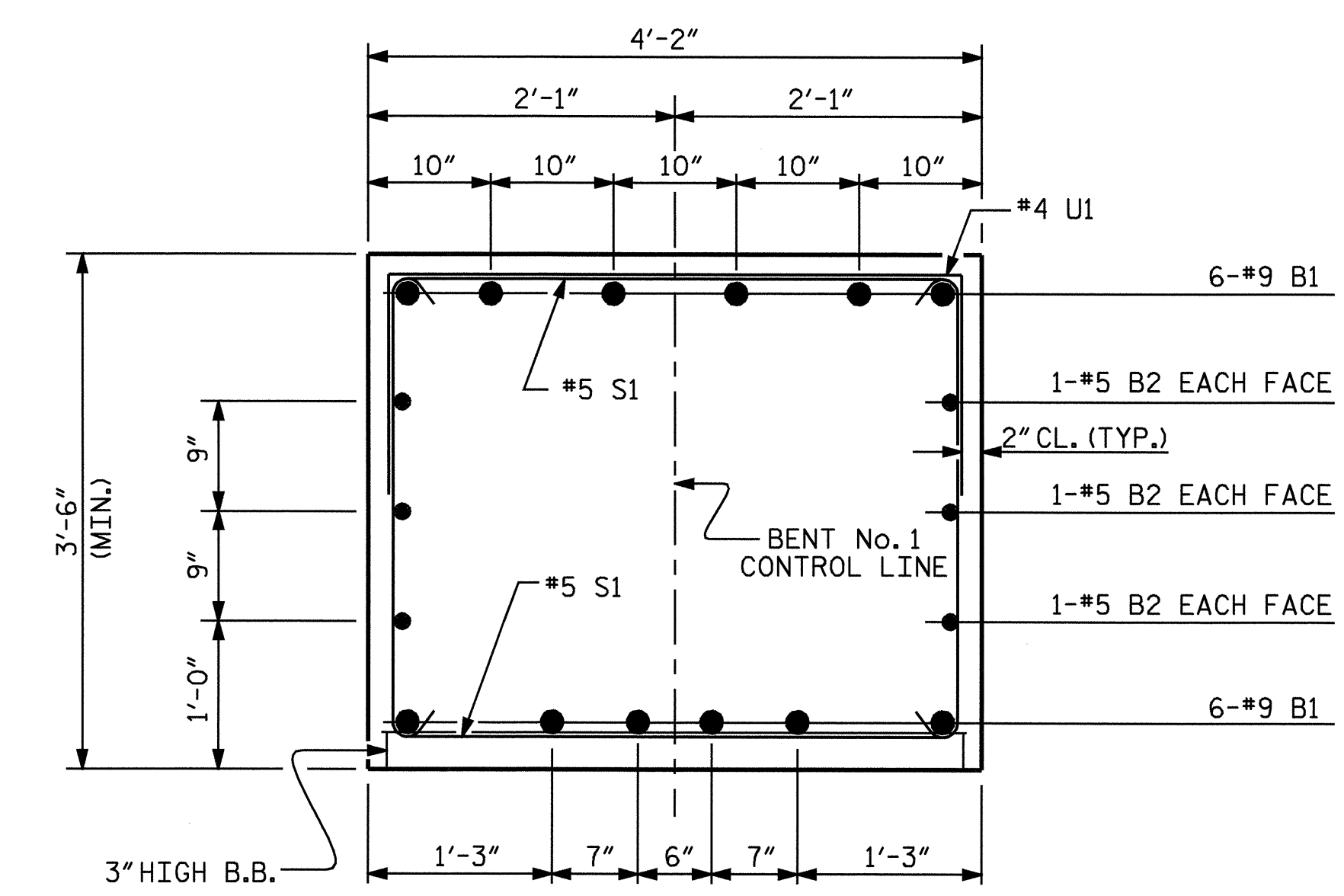
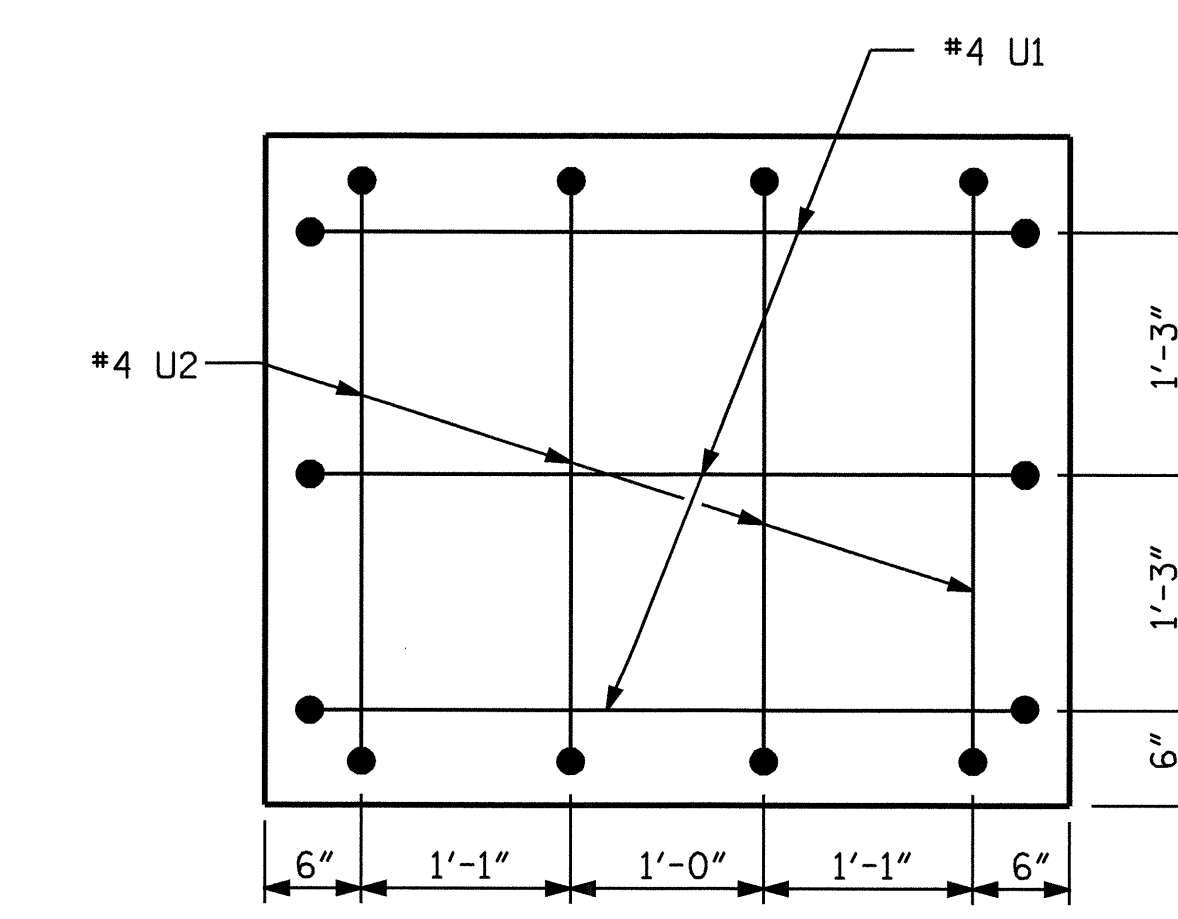


**PLAN OF COLUMNS & DRILLED PIERS**

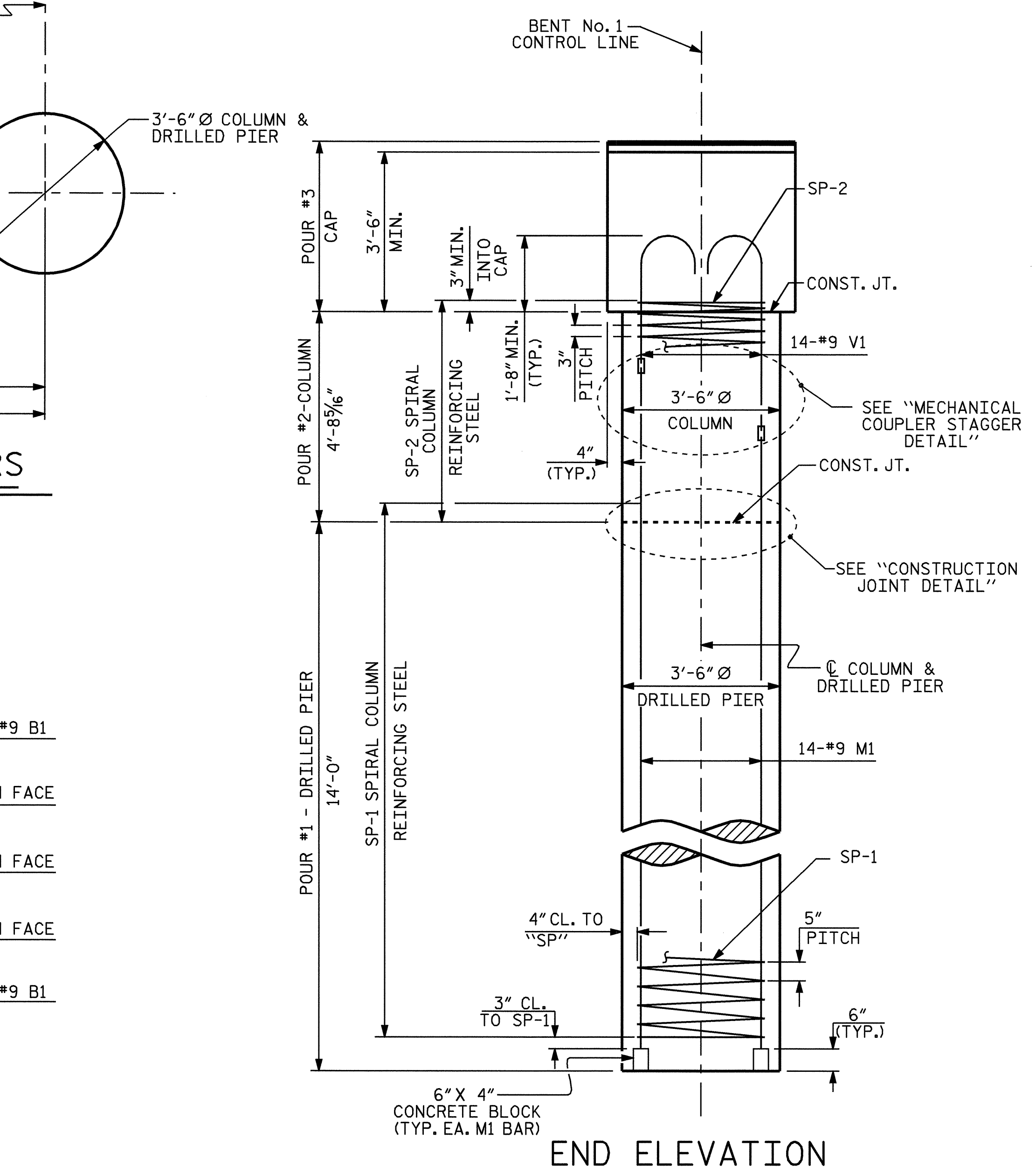
REINFORCING STEEL, DIMENSIONS, AND DETAILS ARE TYPICAL FOR ALL DRILLED PIERS & COLUMNS



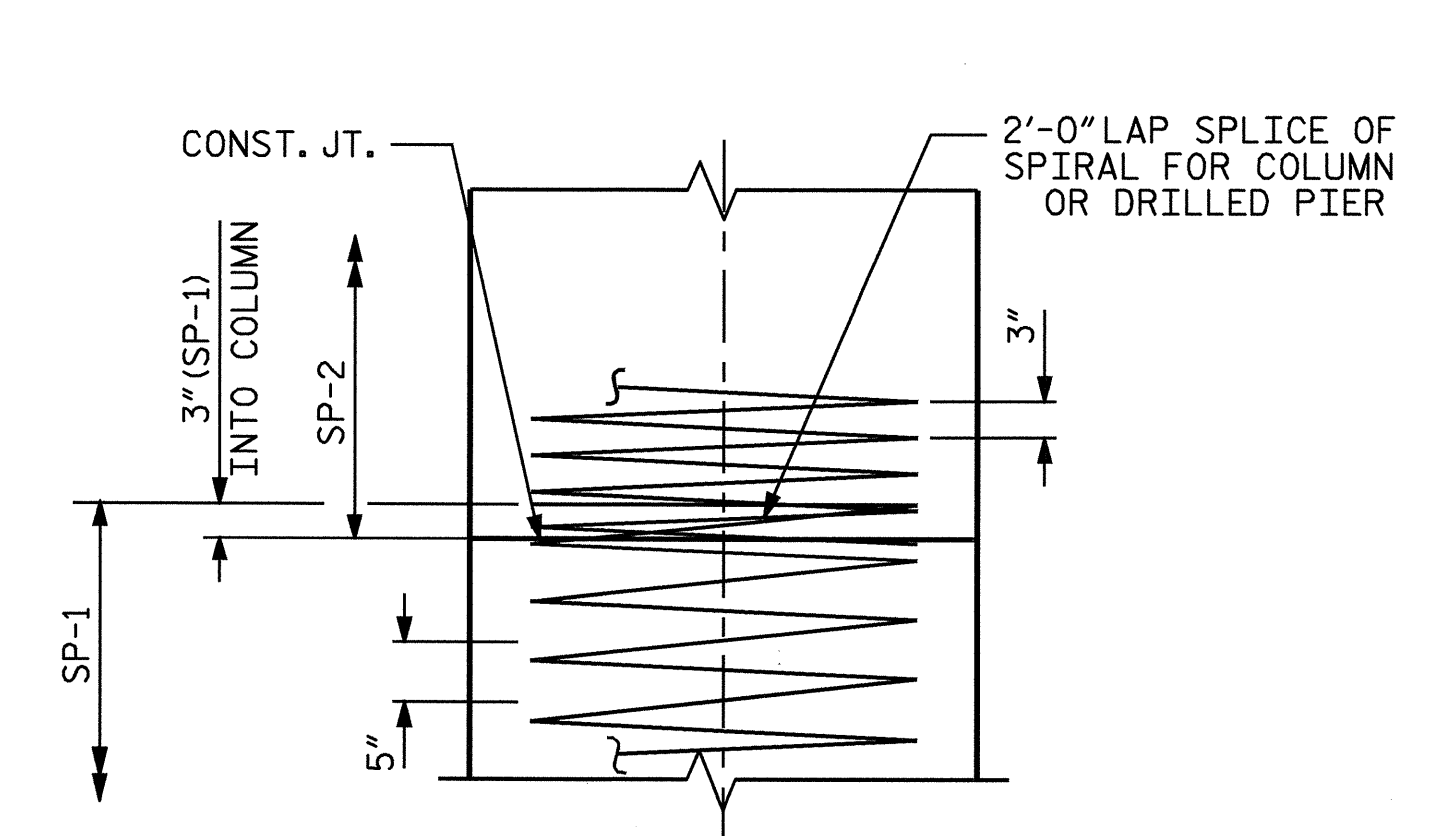
**SECTION A-A**



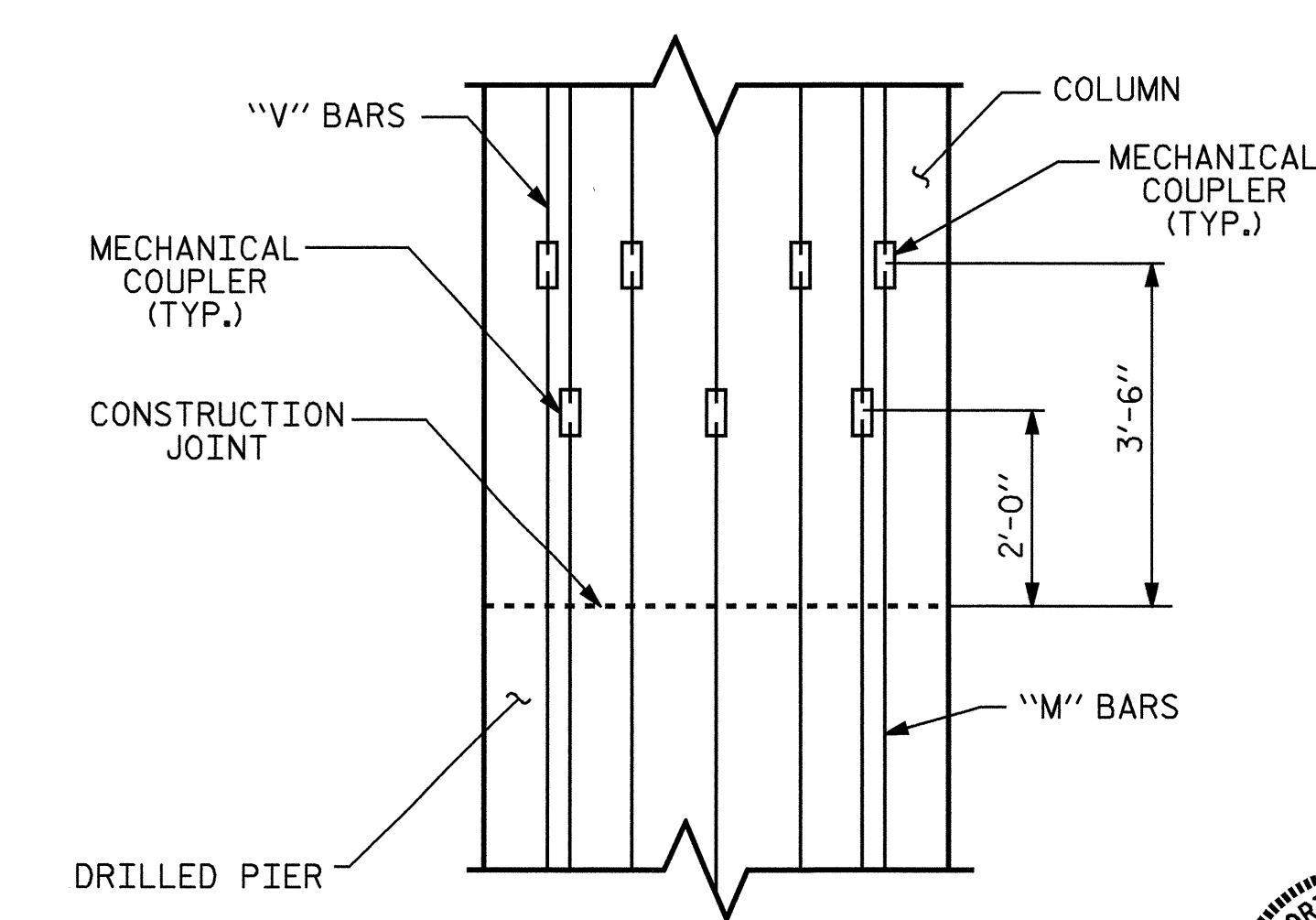
**VIEW Y-Y**



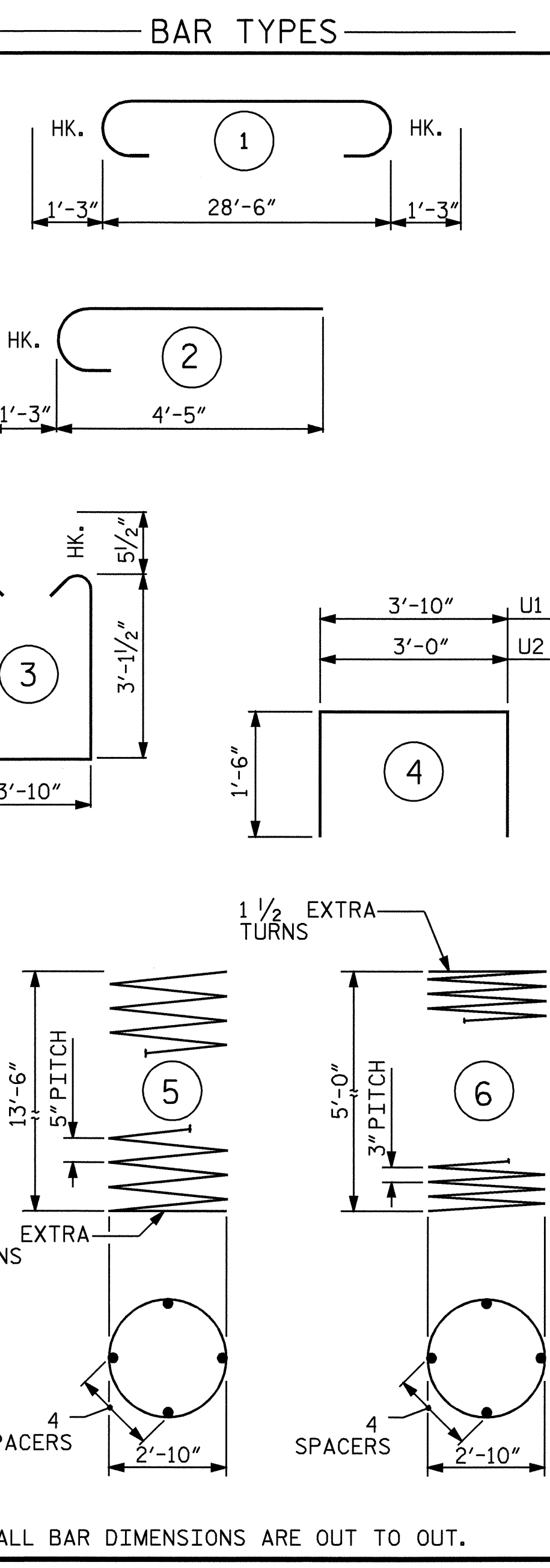
**END ELEVATION**



**CONSTRUCTION JOINT DETAIL**



**MECHANICAL COUPLER STAGGER DETAIL**



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL					
BENT No. 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	12	9	1	31'-0"	1265
B2	6	5	STR	28'-8"	179
S1	29	5	3	11'-0"	333
U1	30	4	4	6'-10"	137
U2	8	4	4	6'-0"	32
V1	28	9	2	5'-8"	539
M1	28	9	STR	20'-0"	1904
REINFORCING STEEL				LBS.	4389
SP-1	2	**	5	297'-5"	620
SP-2	2	*	6	193'-1"	258
SPIRAL COLUMN REINFORCING STEEL				LBS.	878

\* THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

\* THE SP-1 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)	3.3	C. Y.
POUR #3 (CAP)	15.9	C. Y.
TOTAL	19.2	C. Y.

DRILLED PIER QUANTITIES	
DRILLED PIER CONCRETE:	
POUR #1 (DRILLED PIERS)	10.0 C. Y.
3'-6" Ø DRILLED PIERS NOT IN SOIL	10.0 LIN. FT.
3'-6" Ø DRILLED PIERS IN SOIL	18.0 LIN. FT.
CSL TUBES	132.0 LIN. FT.

DRAWN BY : A. V. ROYAL DATE : 12/04  
 CHECKED BY : B. N. GRADY DATE : 1/05

24-FEB-2005 11:17  
 W:\squadw\3922\aroyal\lmcross\station\B-3922.sd.B\*1.01.dgn  
 cohesson

PROJECT NO. B-3922  
WATAUGA COUNTY  
 STATION: 11+06.50 -L-  
 SHEET 2 OF 2

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

SHEET NO. S-26  
TOTAL SHEETS 41

