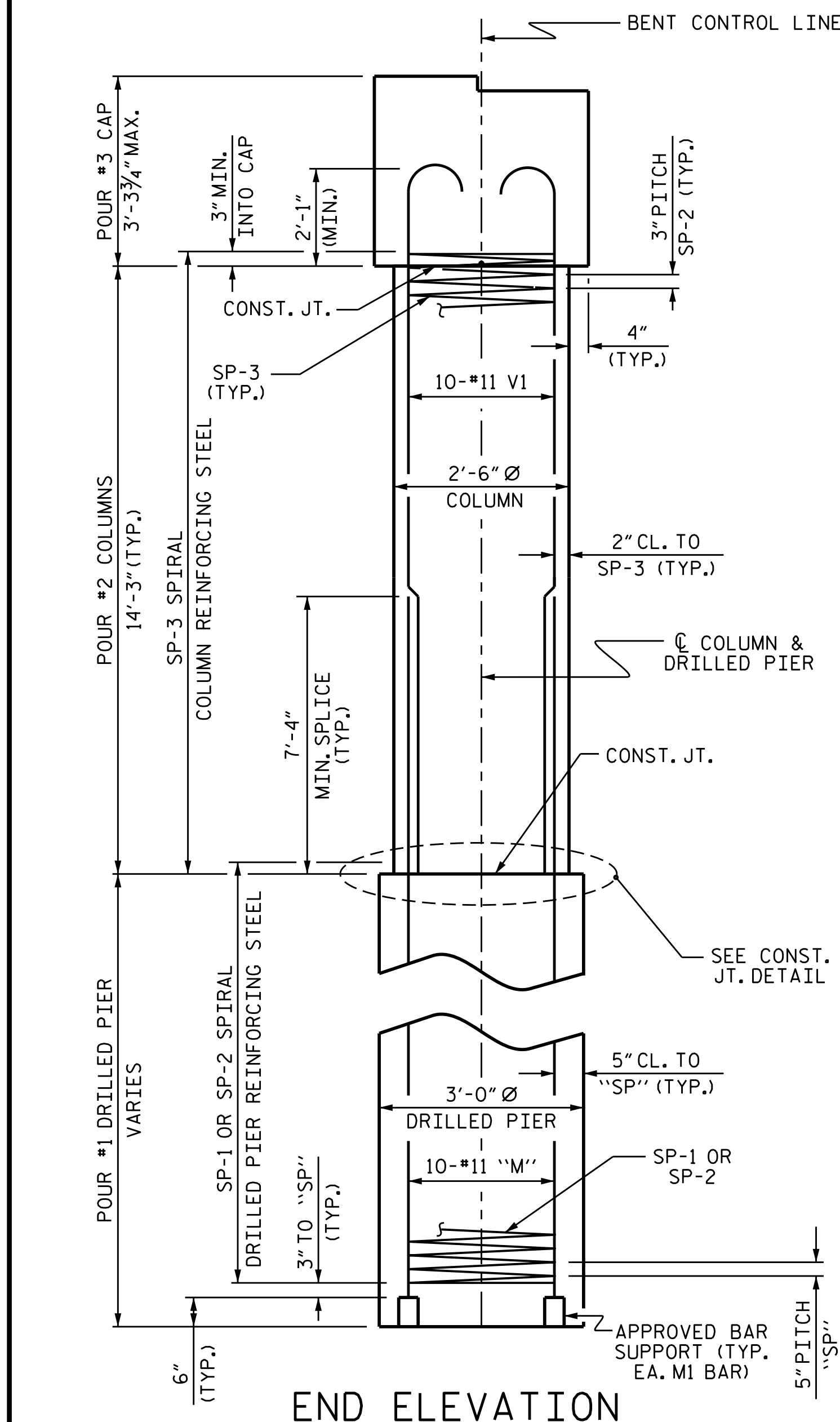
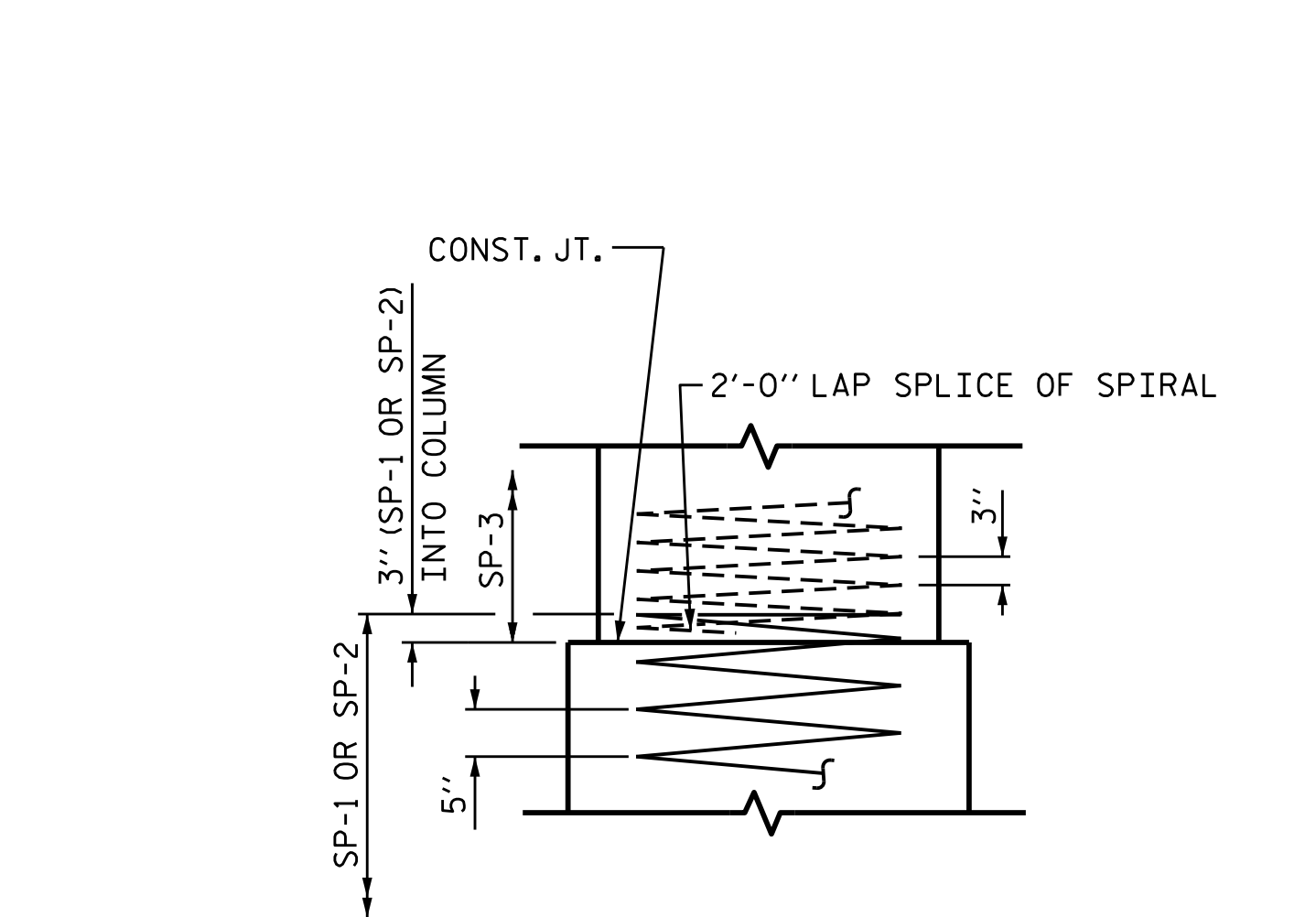


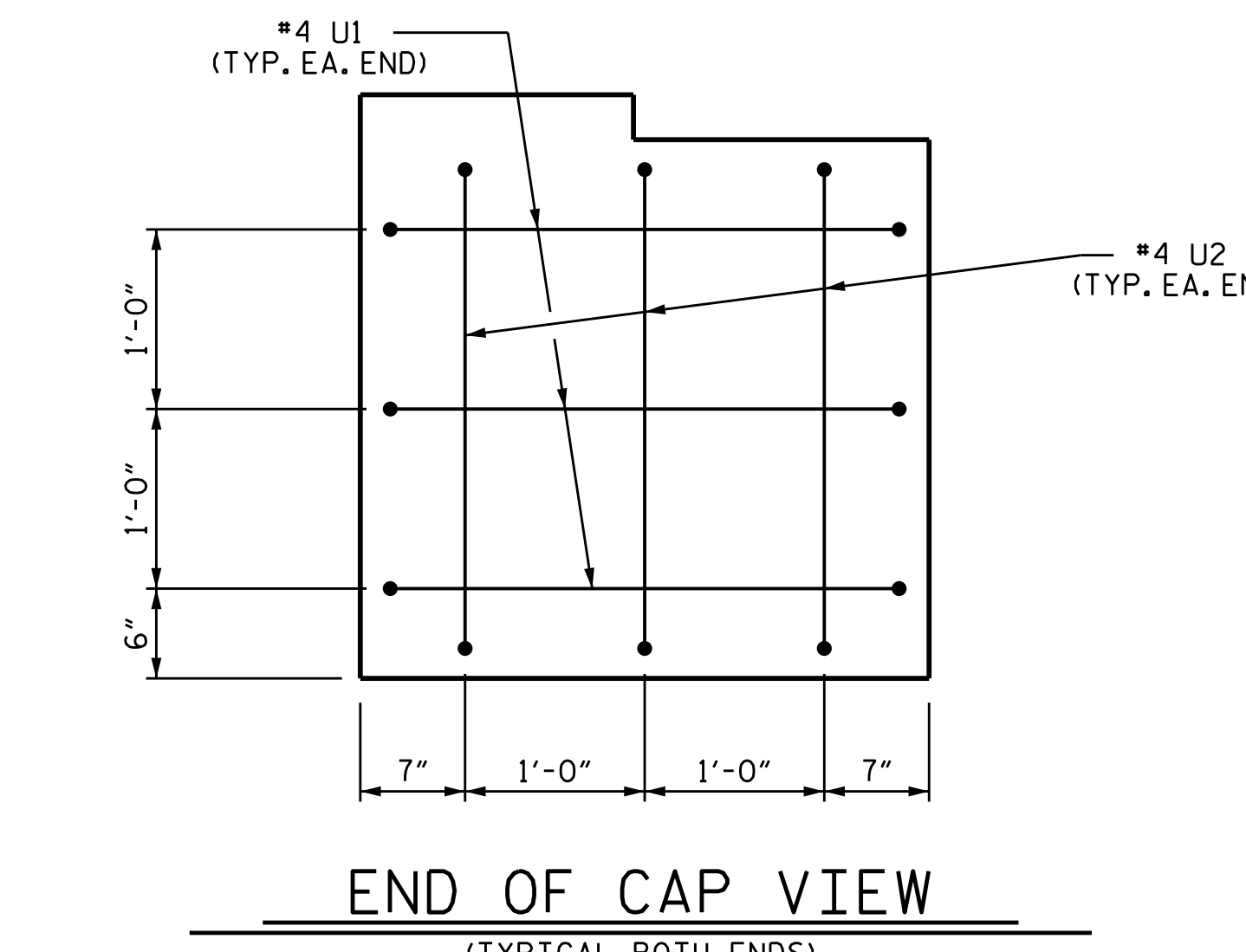
PLAN OF DRILLED PIERS & COLUMNS



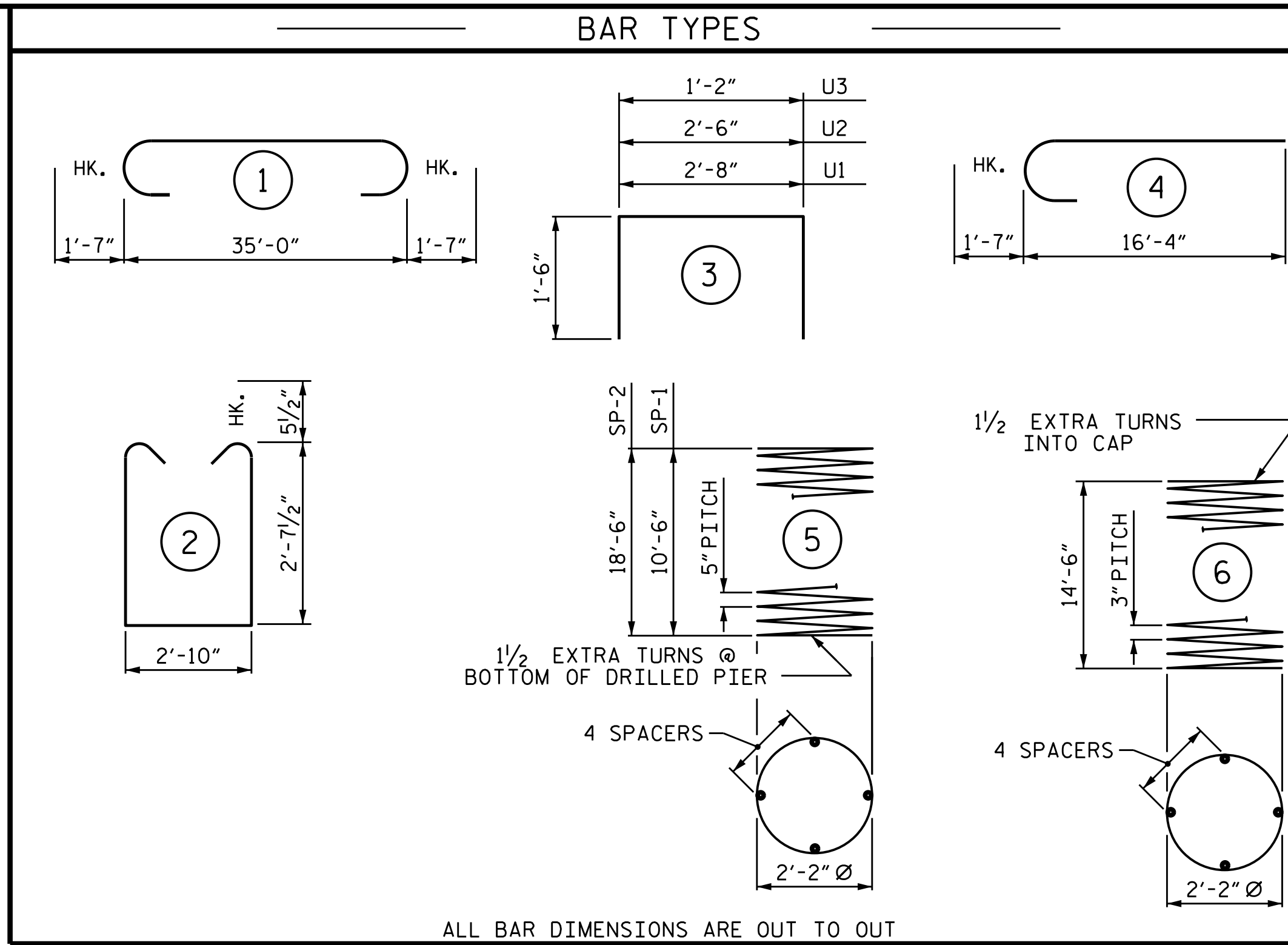
END ELEVATION



CONSTRUCTION JOINT DETAIL

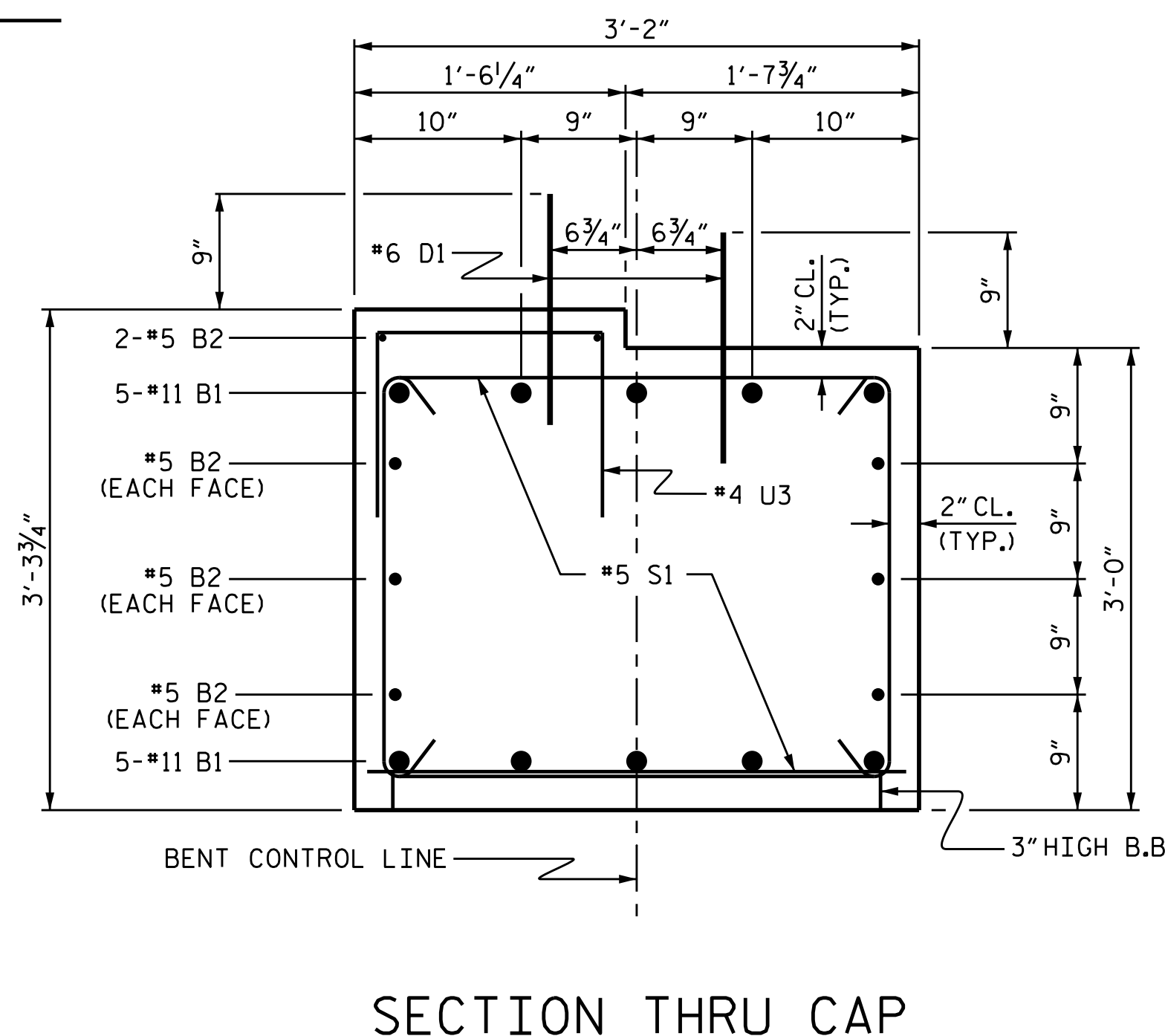


END OF CAP VIEW (TYPICAL BOTH ENDS)



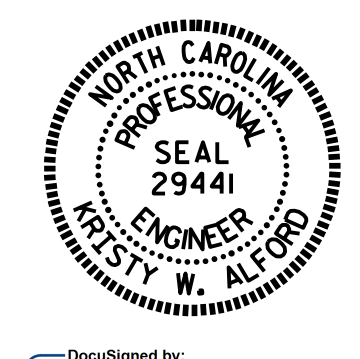
ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL FOR ONE BENT					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#11	1	38'-2"	2028
B2	8	#5	STR	35'-2"	293
D1	44	#6	STR	1'-6"	99
M1	10	#11	STR	20'-10"	1107
M2	20	#11	STR	28'-10"	3064
S1	60	#5	2	9'-0"	563
U1	6	#4	3	5'-8"	23
U2	6	#4	3	5'-6"	22
U3	35	#4	3	4'-2"	97
V1	30	#11	4	17'-11"	2856
REINFORCING STEEL (FOR ONE BENT)				10,152 LBS.	
SP-1	1	*	5	179'-9"	187
SP-2	2	*	5	306'-3"	639
SP-3	3	**	6	401'-0"	804
SPIRAL COLUMN REINFORCING STEEL (FOR ONE BENT)				1630	
* THE SP-1 AND SP-2 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR					
** THE SP-3 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR					
CLASS A CONCRETE BREAKDOWN (FOR ONE BENT)					
POUR #2 (COLUMNS)				7.8 C.Y.	
POUR #3 (CAP)				13.1 C.Y.	
TOTAL CLASS A CONCRETE				20.9 C.Y.	
DRILLED PIERS: (FOR ONE BENT)					
DRILLED PIER CONCRETE				12.6 C.Y.	
POUR #1 (DRILLED PIERS)				12.6 C.Y.	
3'-0" Ø DRILLED PIER NOT IN SOIL				16.0 LIN. FT.	
3'-0" Ø DRILLED PIER IN SOIL				32.3 LIN. FT.	
PERMANENT STEEL CASING FOR 3'-0" Ø DRILLED PIER				32.0 LIN. FT.	
CSL TUBES				211.0 LIN. FT.	



SECTION THRU CAP

PROJECT NO. B-5166  
 GRANVILLE COUNTY  
 STATION: 16+34.00 -L-  
 SHEET 2 OF 2



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

SHEET NO. S-18	
TOTAL SHEETS 20	

ASSEMBLED BY: T.L. AVERETTE	DATE: 04/16
CHECKED BY: J.P. ADAMS	DATE: 4/2016
DRAWN BY: DGE	3/10
CHECKED BY: MKT	3/10
REV. 11/14	MAA/TMG

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED