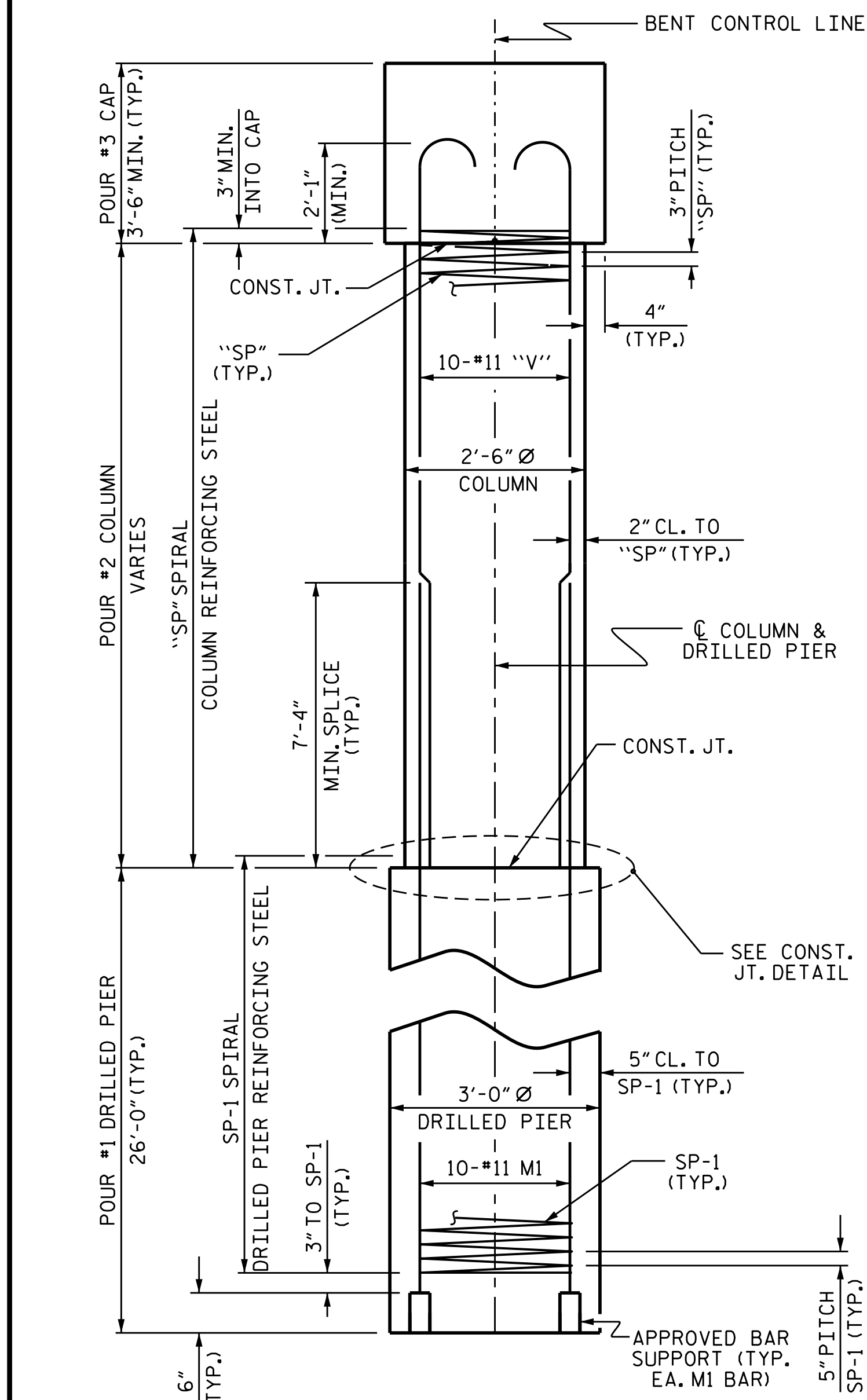
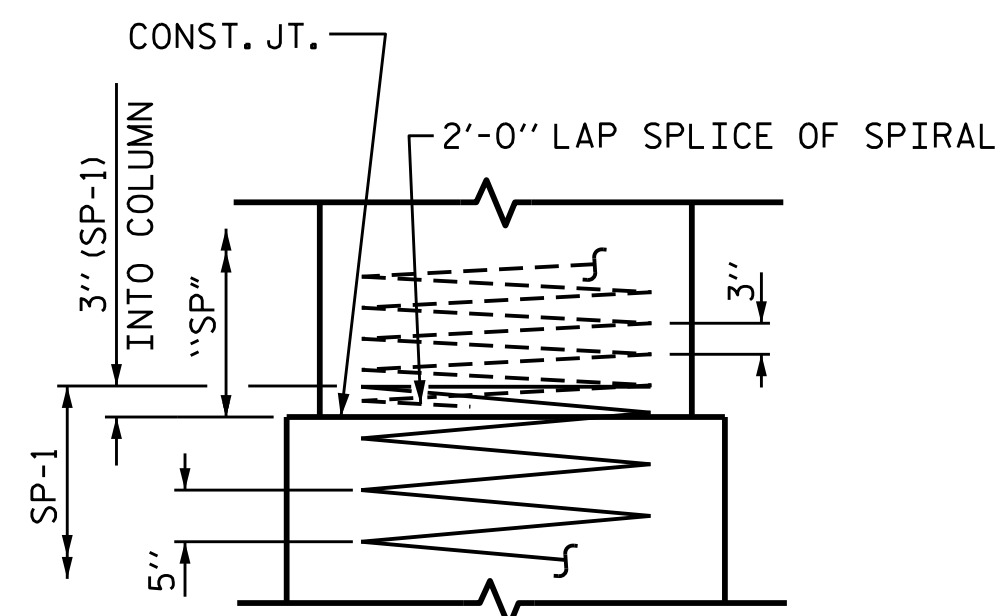


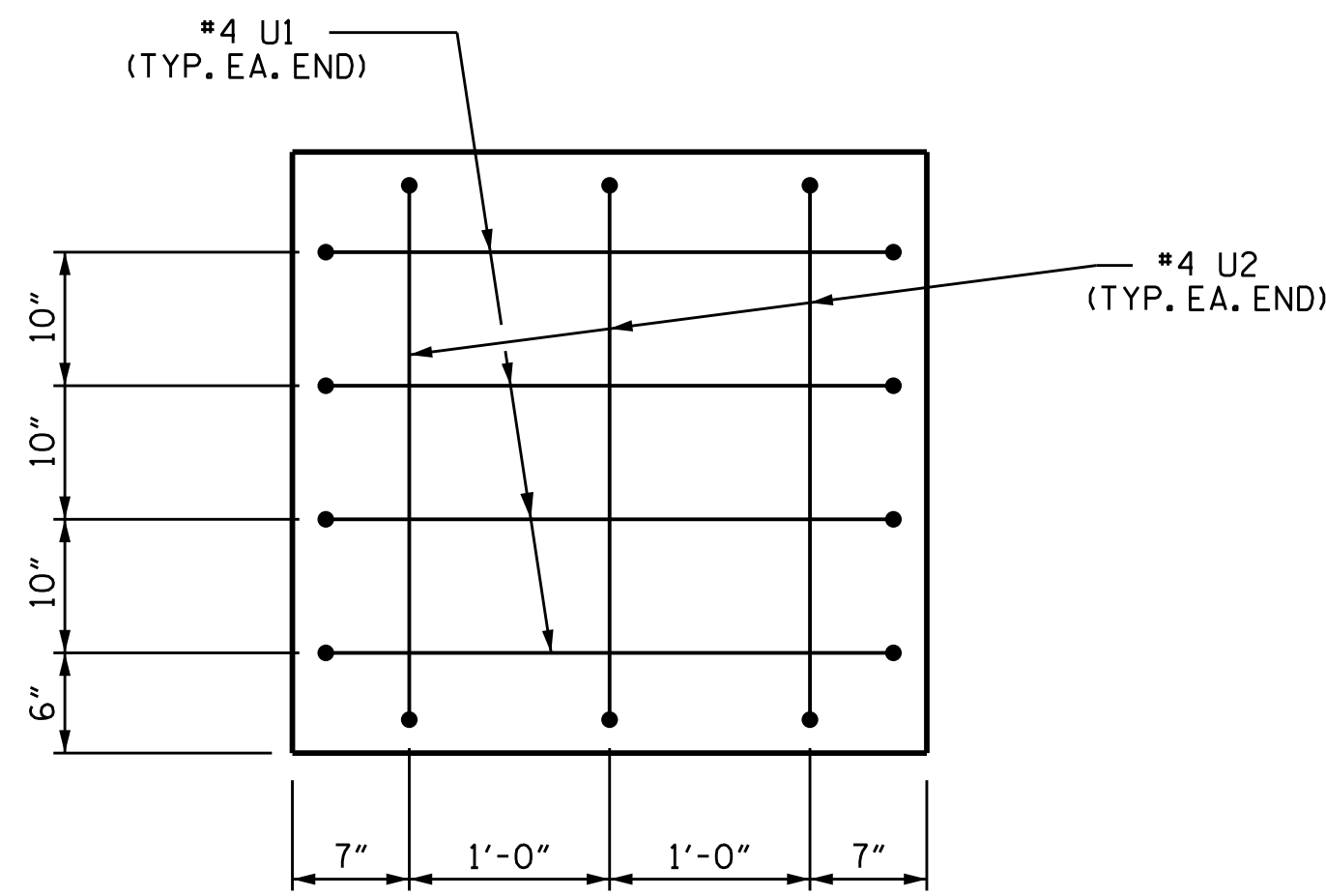
PLAN OF DRILLED PIERS & COLUMNS



END ELEVATION

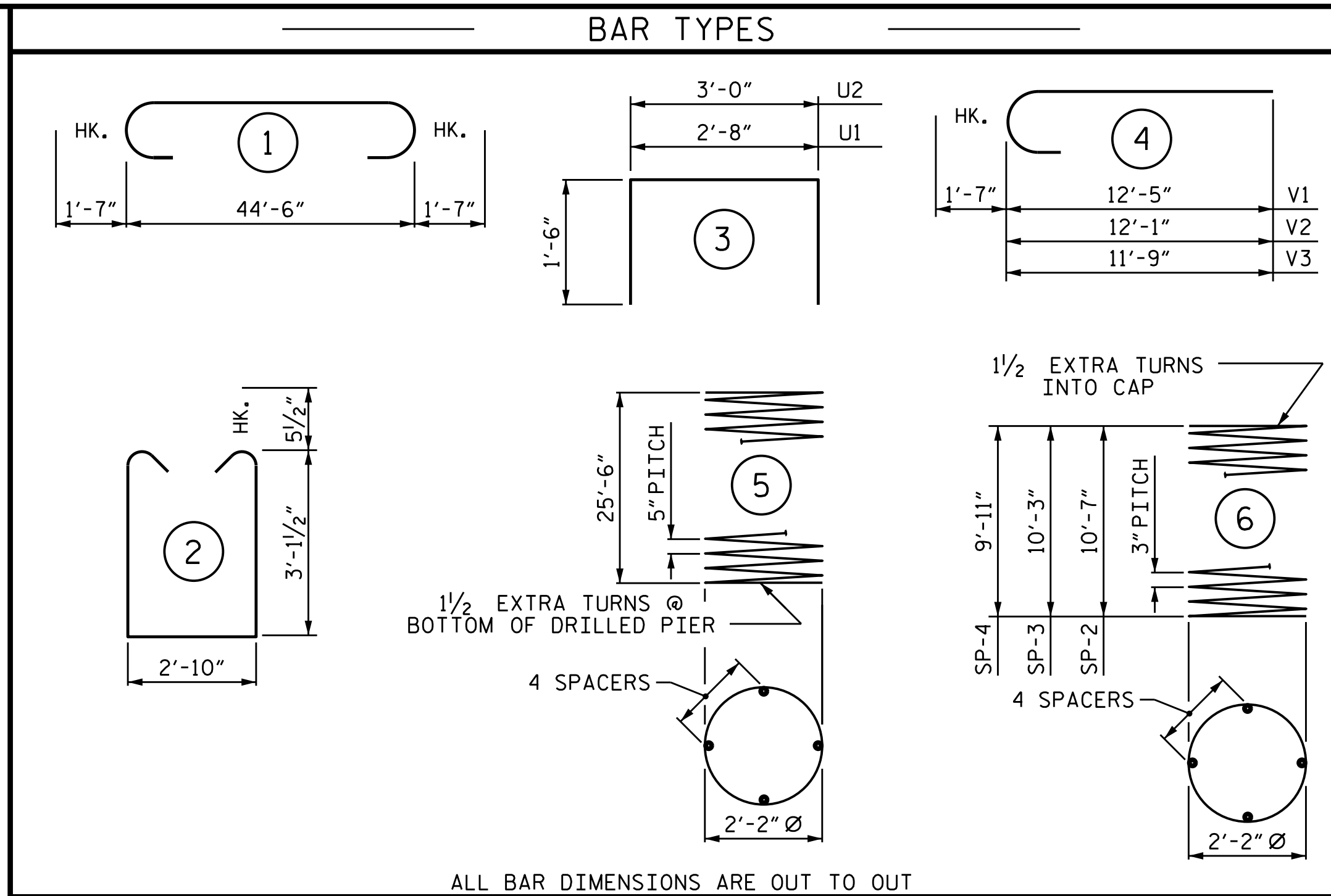


CONSTRUCTION JOINT DETAIL

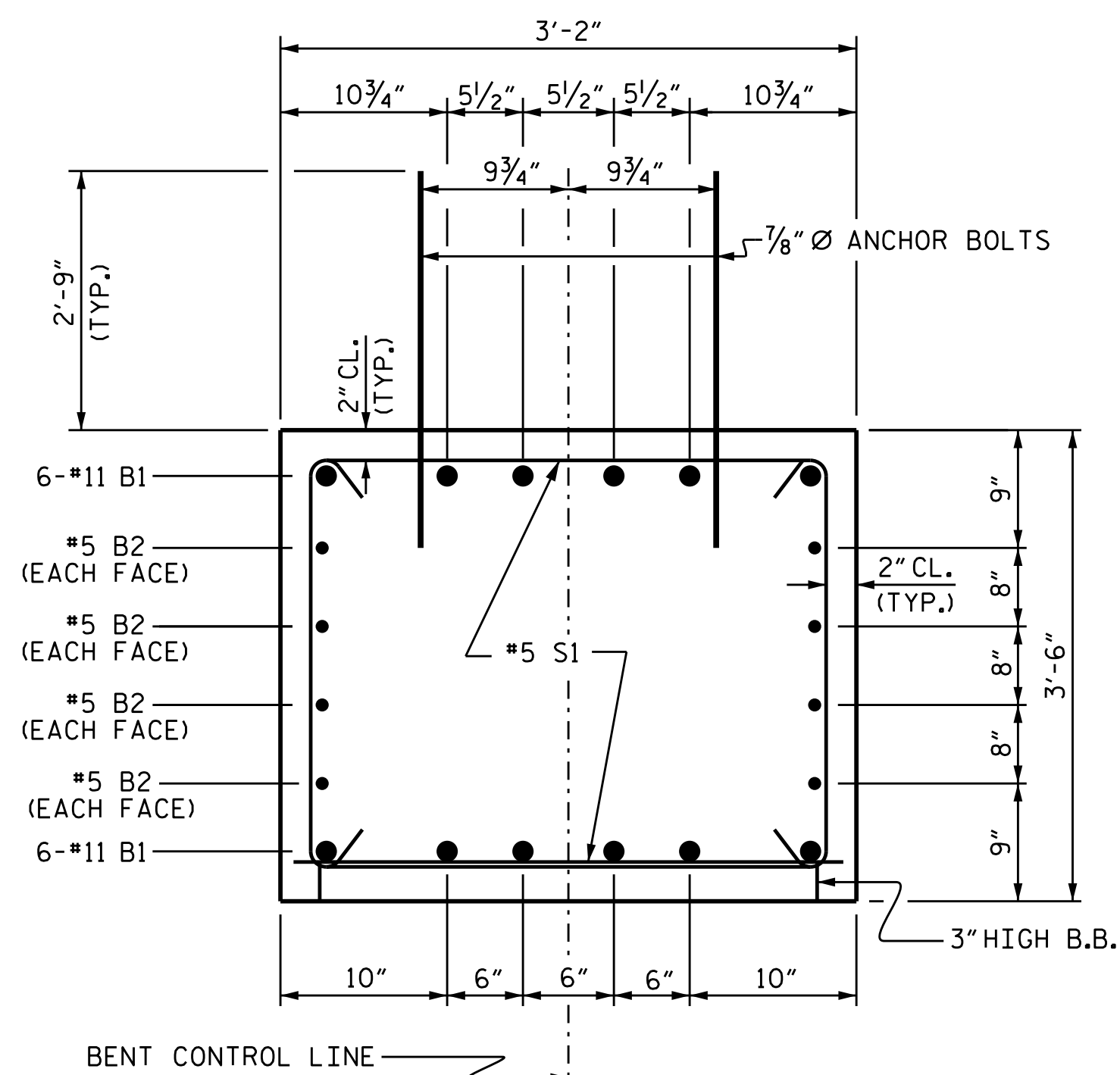


END OF CAP VIEW

(TYPICAL BOTH ENDS)



ALL BAR DIMENSIONS ARE OUT TO OUT



SECTION A-A

BILL OF MATERIAL

FOR ONE BENT

BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	12	#11	1	47'-8"	3039
B2	8	#5	STR	44'-8"	373
M1	30	#11	STR	36'-1"	5751
S1	74	#5	2	10'-0"	772
U1	8	#4	3	5'-8"	30
U2	6	#4	3	6'-0"	24
V1	10	#11	4	14'-0"	744
V2	10	#11	4	13'-8"	726
V3	10	#11	4	13'-4"	708

REINFORCING STEEL (FOR ONE BENT) 12167 LBS.

SP-1	3	*	5	417'-9"	1307
SP-2	1	**	6	292'-10"	196
SP-3	1	**	6	284'-0"	190
SP-4	1	**	6	275'-0"	184

SPIRAL COLUMN REINFORCING STEEL (FOR ONE BENT) 1877 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, SP-3 & SP-4 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)	5.5 C.Y.
POUR #3 (CAP)	18.5 C.Y.

TOTAL CLASS A CONCRETE 24.0 C.Y.

DRILLED PIERS: (FOR ONE BENT)

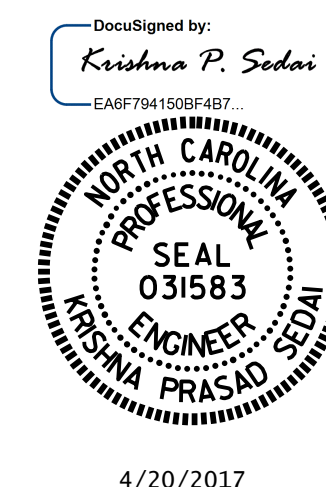
DRILLED PIER CONCRETE	
POUR #1 (DRILLED PIERS)	20.4 C.Y.
3'-0" Ø DRILLED PIER NOT IN SOIL	23 LIN. FT.
3'-0" Ø DRILLED PIER IN SOIL	55 LIN. FT.
PERMANENT STEEL CASING FOR 3'-0" Ø DRILLED PIER	36 LIN. FT.
CSL TUBES	330 LIN. FT.
SID INSPECTIONS	3 EA.

PROJECT NO. B-5165
DAVIDSON COUNTY
 STATION: 22+12.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 BENT 1



4/20/2017

DRAWN BY: H. B. DESAI DATE: 10/11/16
 CHECKED BY: T. L. AVERETTE DATE: 2/20/17
 DESIGN ENGINEER OF RECORD: K. P. SEDA I DATE: 2/22/17

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-22
1			3			TOTAL SHEETS 24
2			4			