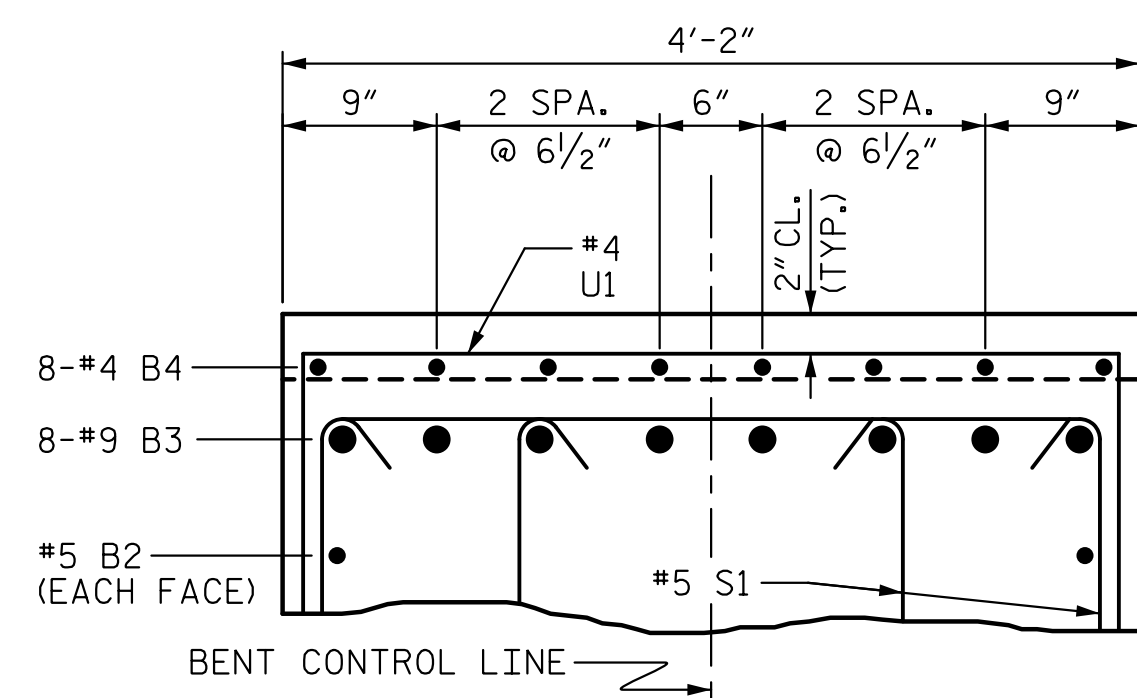
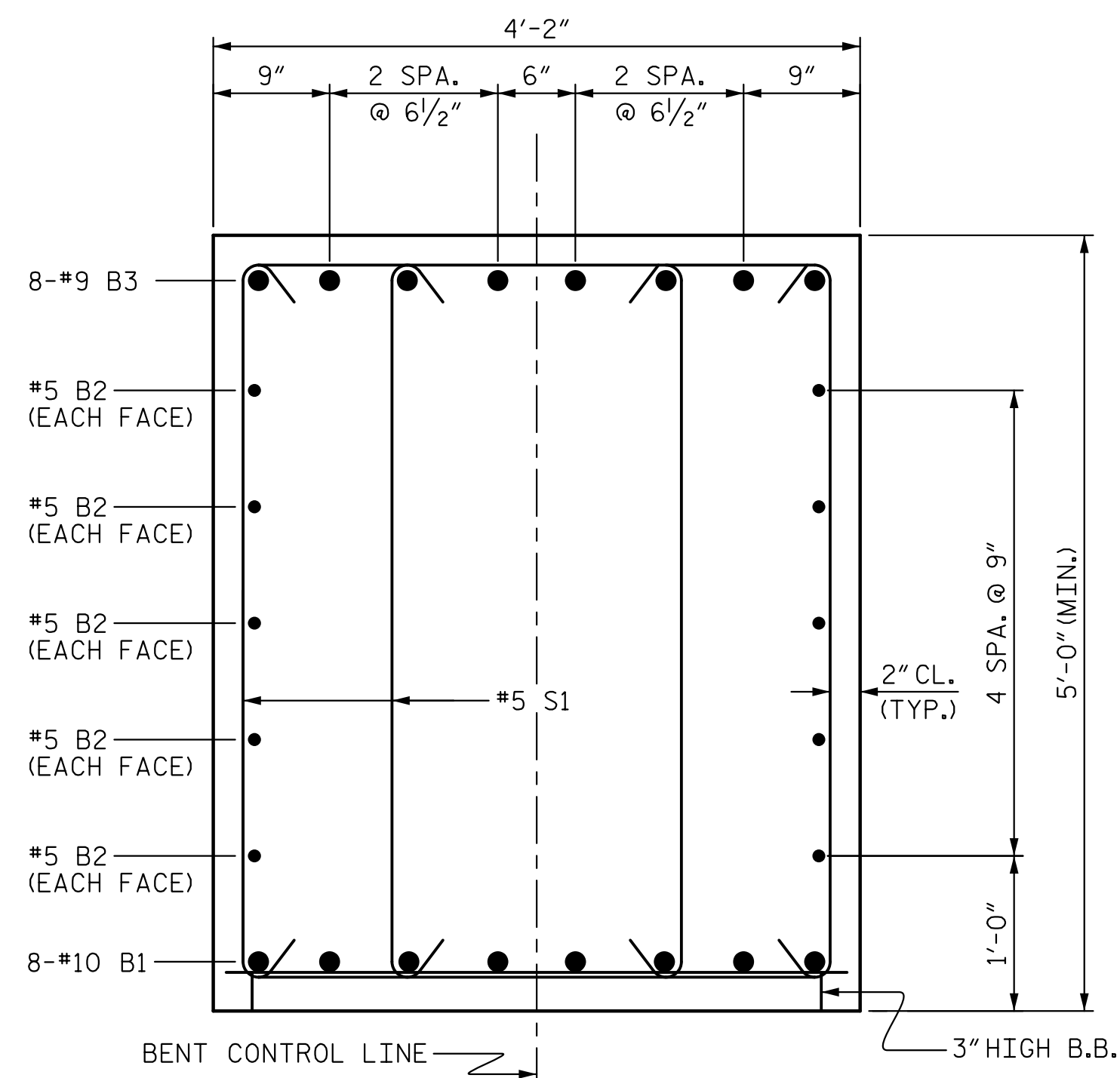


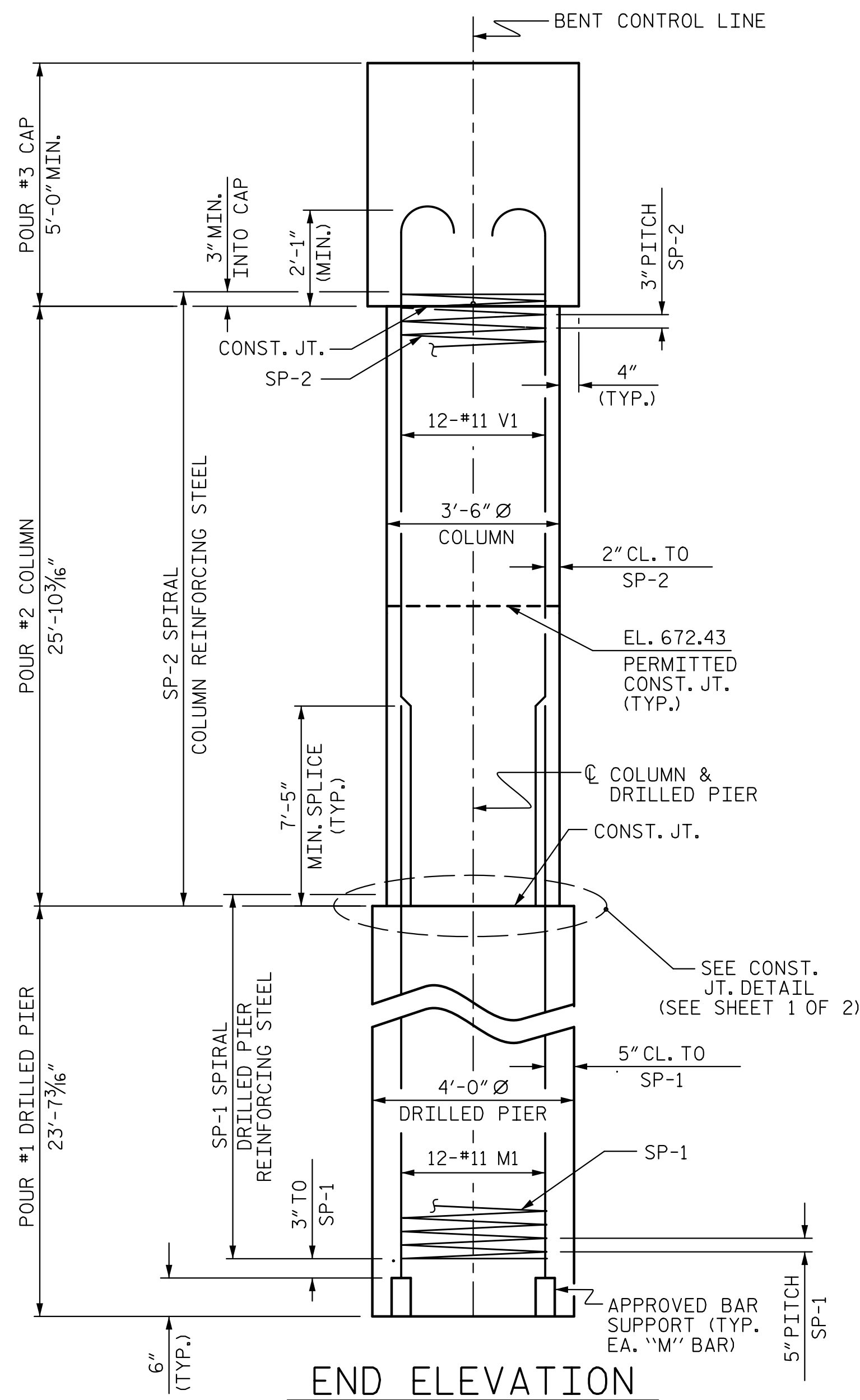
END OF CAP DETAIL (TYP.)



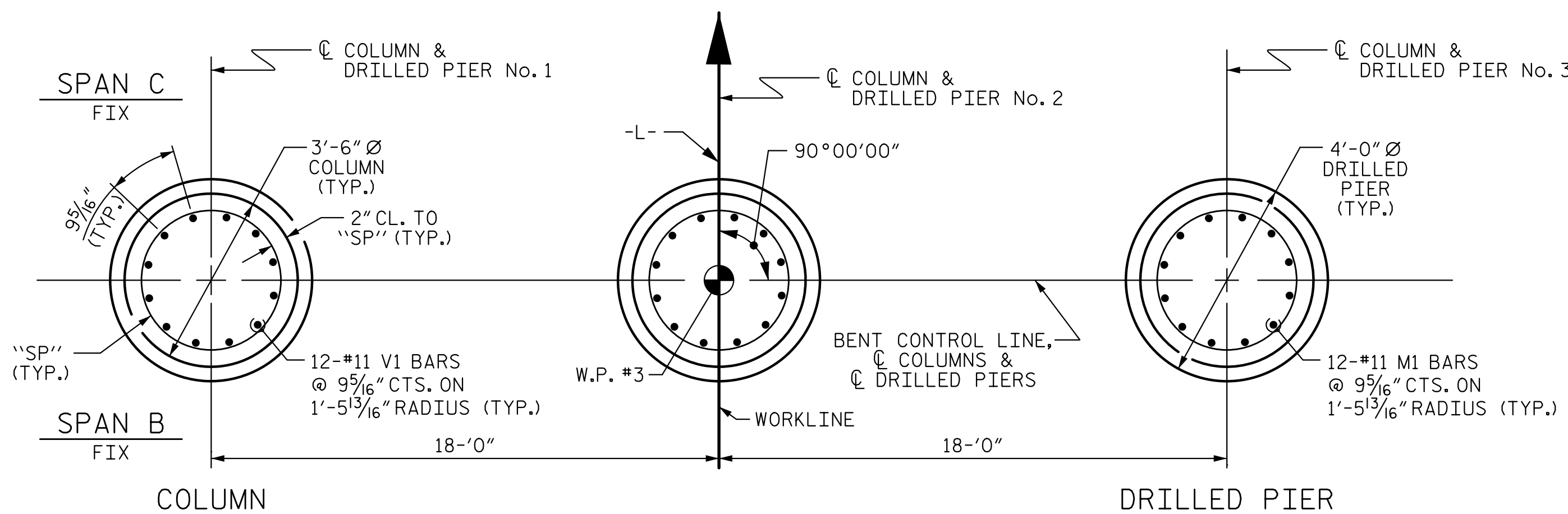
SECTION B-B



SECTION A-A



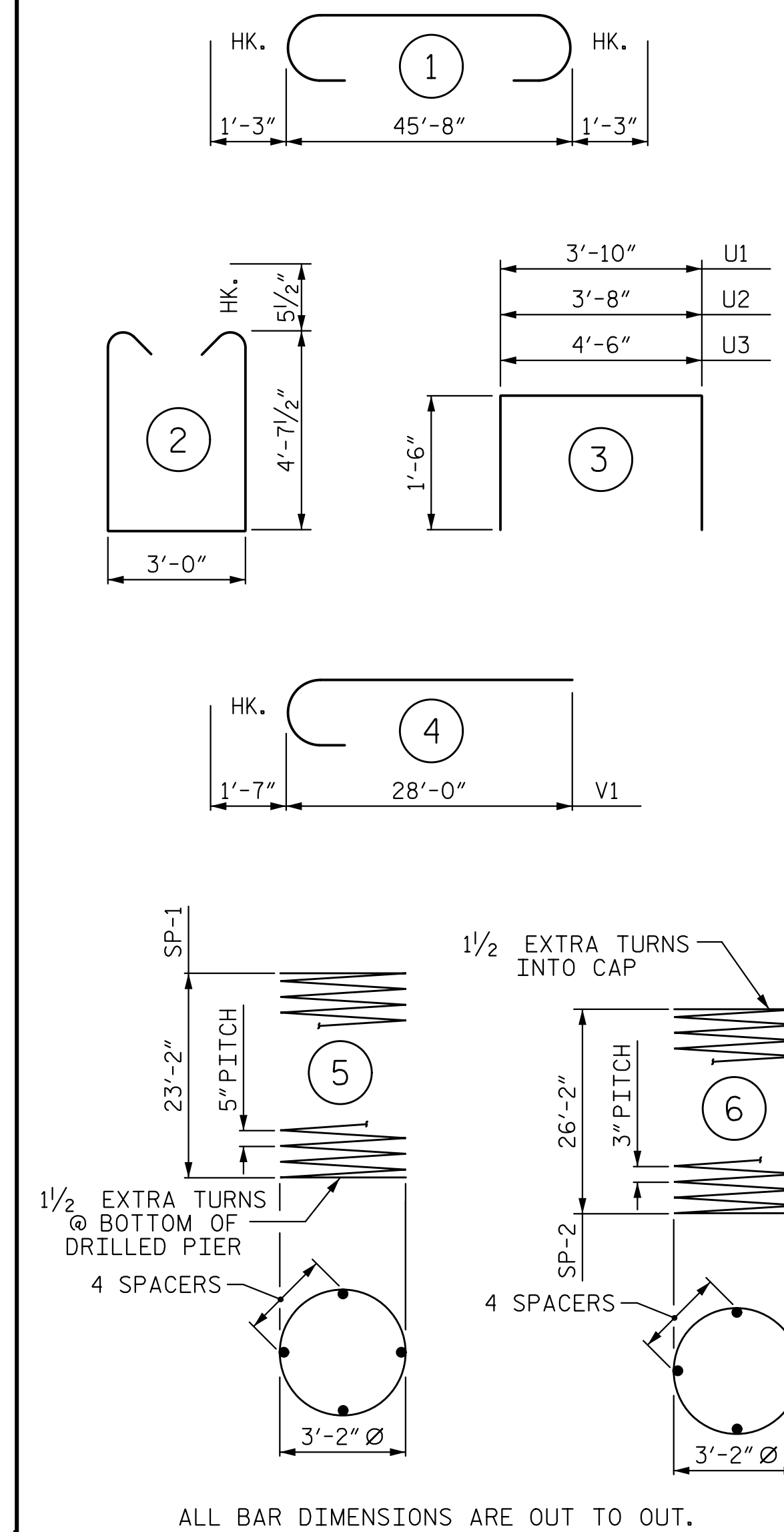
END ELEVATION



PLAN OF DRILLED PIERS & COLUMNS

(DETAILS ARE TYPICAL EACH DRILLED PIER & COLUMN)

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT 2

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	#8	STR	45'-10"	1,578
B2	#5	STR	45'-10"	478
B3	#9	1	48'-2"	1,310
B4	#4	STR	3'-10"	20
M1	#11	STR	33'-7"	6,423
S1	#5	2	13'-2"	1,648
U1	#4	3	6'-10"	183
U2	#4	3	6'-8"	45
U3	#4	3	7'-6"	50
V1	#11	4	29'-7"	5,658

REINFORCING STEEL 17,393 LBS.

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
SP-1	#3	*	560'-9"	1,755
SP-2	#3	**	1,041'-0"	2,086

SPIRAL COLUMN REINFORCING STEEL 3,841 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)	27.7 C.Y.
POUR #3 (CAP)	36.6 C.Y.
TOTAL CLASS A CONCRETE	64.3 C.Y.

DRILLED PIERS:

DRILLED PIER CONCRETE POUR #1 (DRILLED PIERS)	33.0 C.Y.
4'-0" Ø DRILLED PIERS NOT IN SOIL	36.00 LIN. FT.
4'-0" Ø DRILLED PIERS IN SOIL	34.80 LIN. FT.
PERMANENT STEEL CASING FOR 4'-0" Ø DRILLED PIER	33.29 LIN. FT.
CSL TUBES	301.2 LIN. FT.

PROJECT NO. W-5516

ROWAN COUNTY

STATION: 61+79.40 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENT 2

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO.

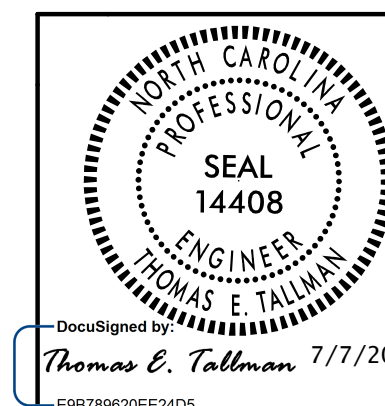
S-31

TOTAL SHEETS

41



5121 Kingdom Way, Suite 100 Raleigh, NC 27607
NC License No. P0295



DocuSigned by:
Thomas E. Tallman 7/7/2015