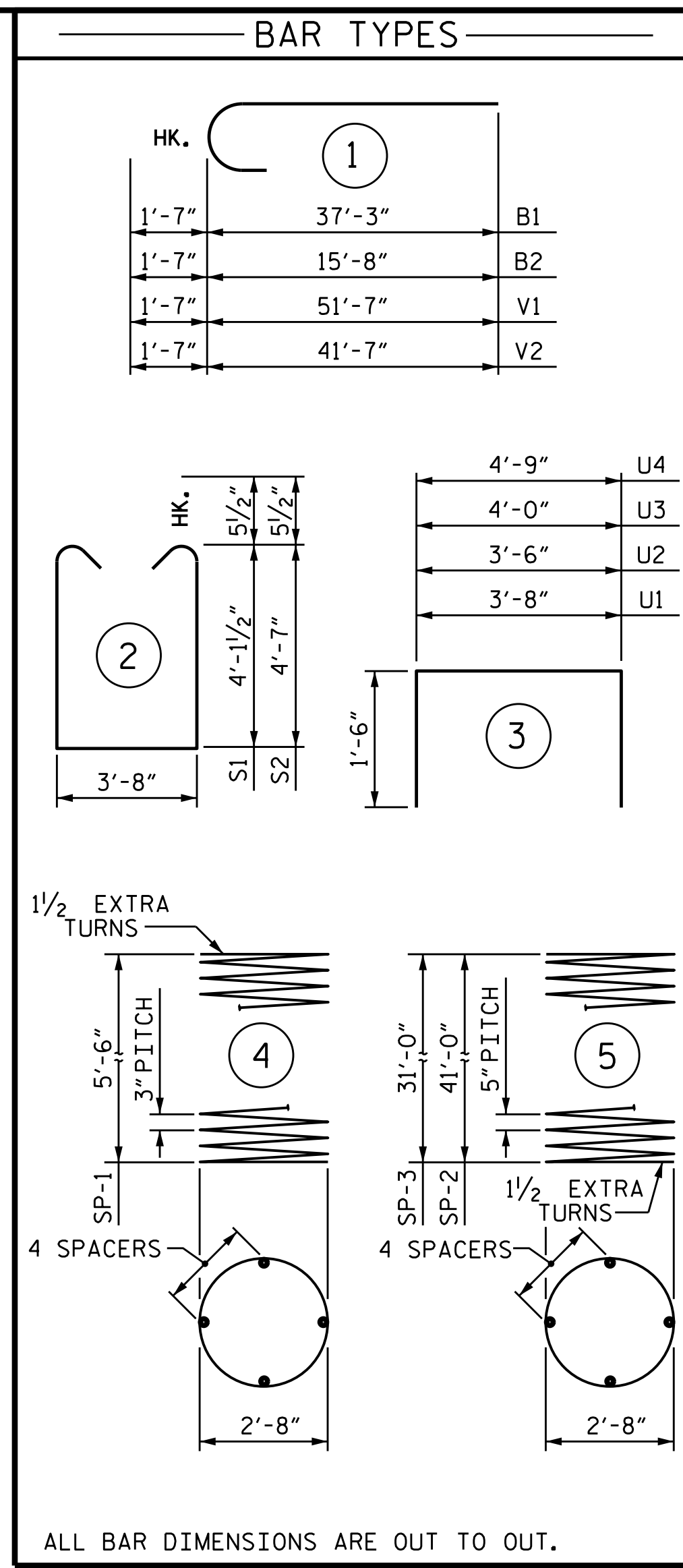
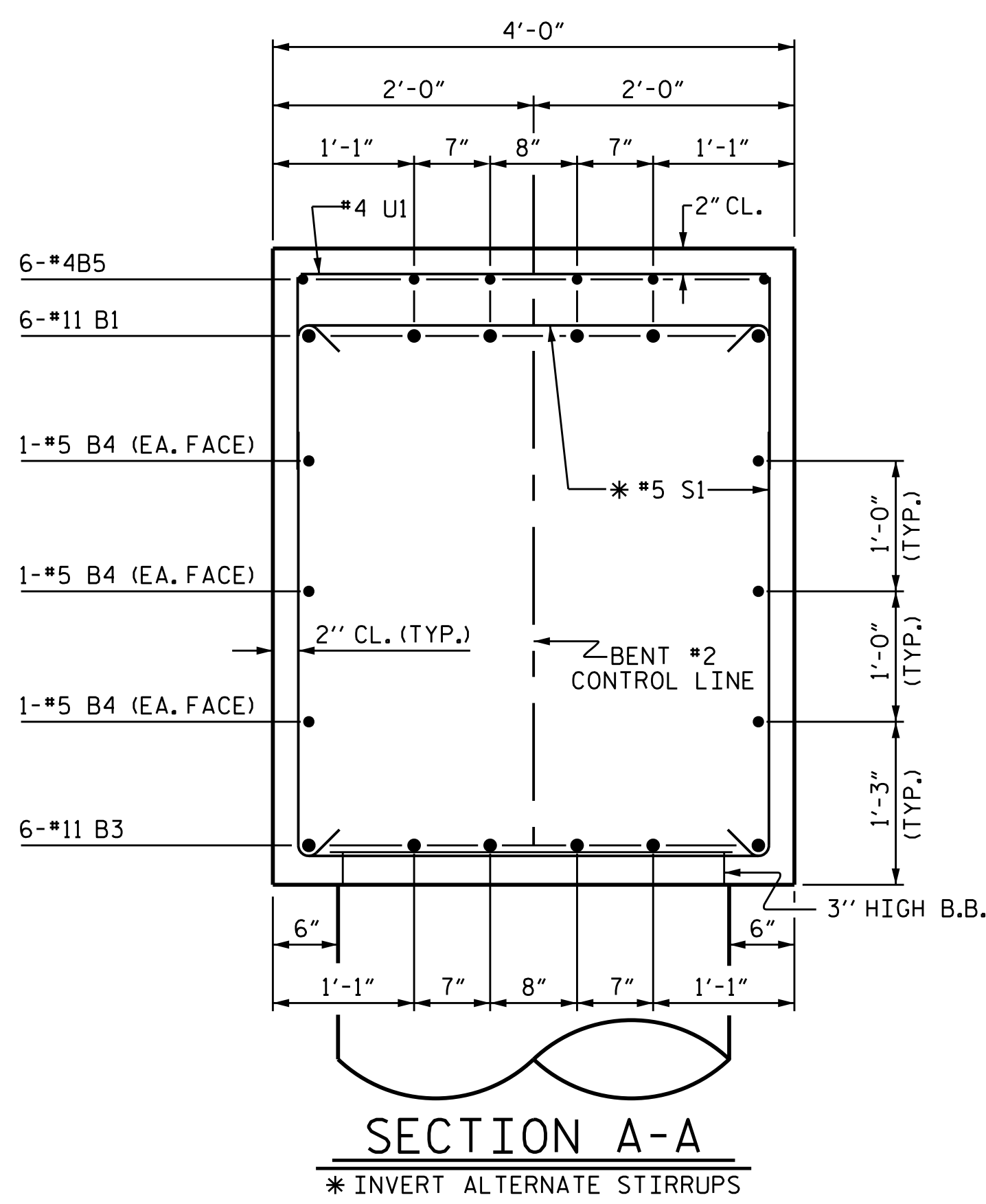
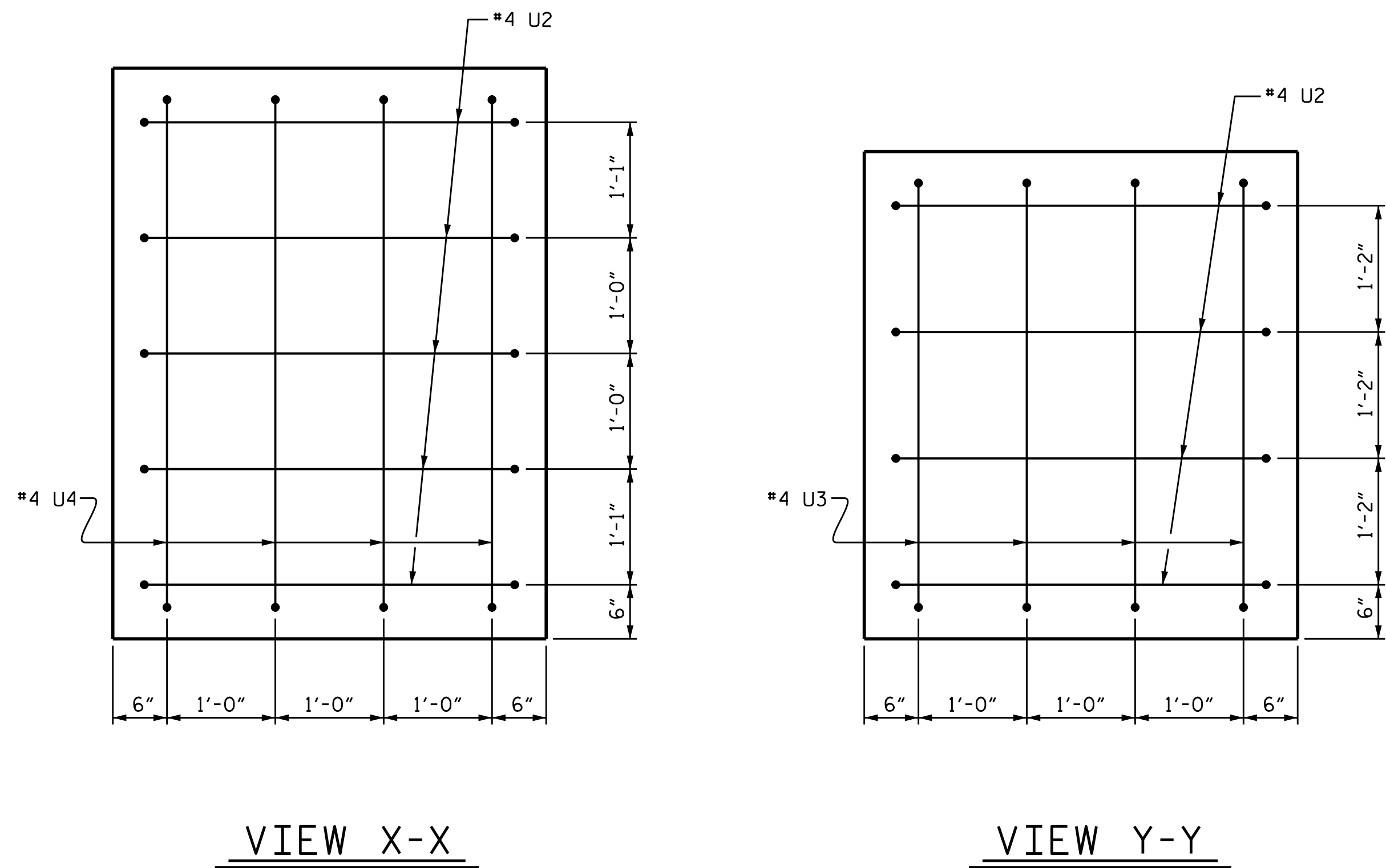


**PLAN OF COLUMNS AND DRILLED PIERS**

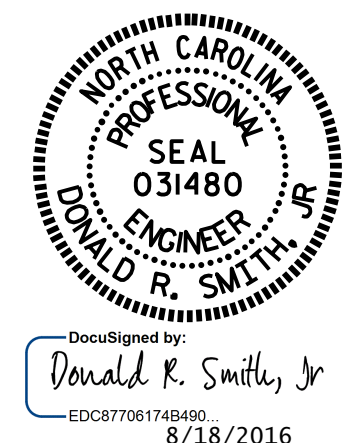


BILL OF MATERIAL					
BENT #2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#11	1	38'-10"	1238
B2	6	#11	1	17'-3"	550
B3	6	#11	STR	39'-5"	1257
B4	6	#5	STR	39'-5"	247
B5	6	#4	STR	11'-8"	47
B6	6	#4	STR	4'-1"	16
B7	3	#4	STR	3'-8"	7
S1	36	#5	2	12'-10"	482
S2	25	#5	2	13'-9"	359
U1	40	#4	3	6'-8"	178
U2	9	#4	3	6'-6"	39
U3	4	#4	3	7'-0"	19
U4	4	#4	3	7'-9"	21
V1	10	#11	1	53'-2"	2825
V2	10	#11	1	43'-2"	2293
TOTAL REINFORCING STEEL LBS.					9,578
SP-1	2	**	4	193'-11"	259
SP-2	1	***	5	822'-6"	858
SP-3	1	***	5	625'-1"	652
SPIRAL COLUMN REINFORCING STEEL LBS.					1,769
CLASS A CONCRETE BREAKDOWN					
POUR #2 (COLUMNS)				2.7	C.Y.
POUR #3 (BENT CAP)				28.2	C.Y.
TOTAL					30.9 C.Y.
DRILLED PIER QUANTITIES					
DRILLED PIER CONCRETE					
POUR #1 (DRILLED PIERS)				26.0	C.Y.
3'-6" DIA. DRILLED PIERS IN SOIL				46.0	LIN. FT.
3'-6" DIA. DRILLED PIERS NOT IN SOIL				27.0	LIN. FT.
SID INSPECTION					2 EA.
SPT TESTING					4 EA.
CSL TUBES					304.0 LIN. FT.



\*\* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.  
 \*\*\* THE SP-2 AND SP-3 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.

PROJECT NO. U-3440  
CABARRUS COUNTY  
 STATION: 68+25.60 -L-



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 BENT #2  
 (RIGHT LANE)

DRAWN BY : K. D. LAYNE DATE : 2/09/16  
 CHECKED BY : R. P. PATEL DATE : 2/10/16  
 DESIGN ENGINEER OF RECORD : T. R. PETERSON DATE : 6/20/16

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S2-31
1			3			TOTAL SHEETS
2			4			37