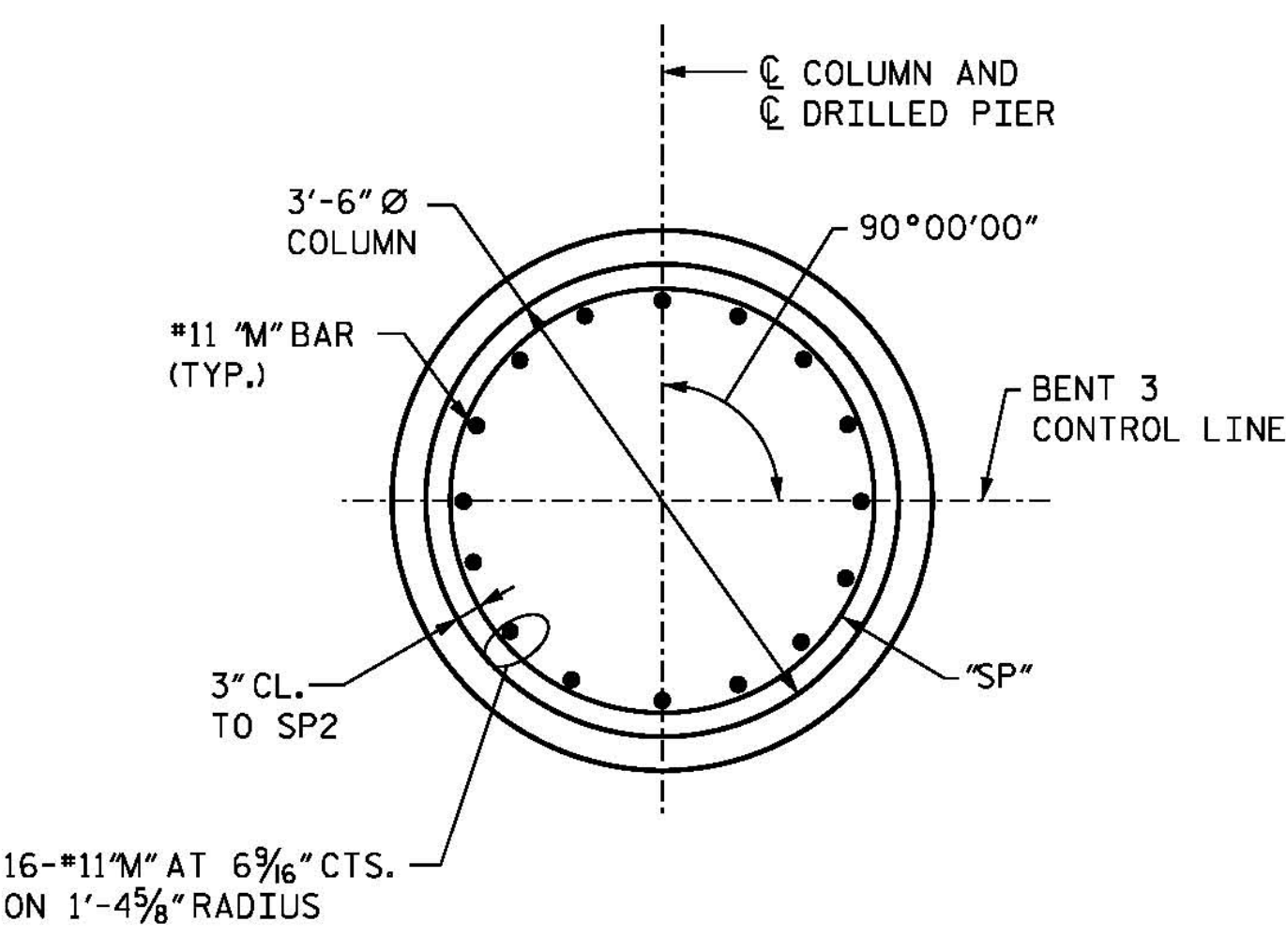
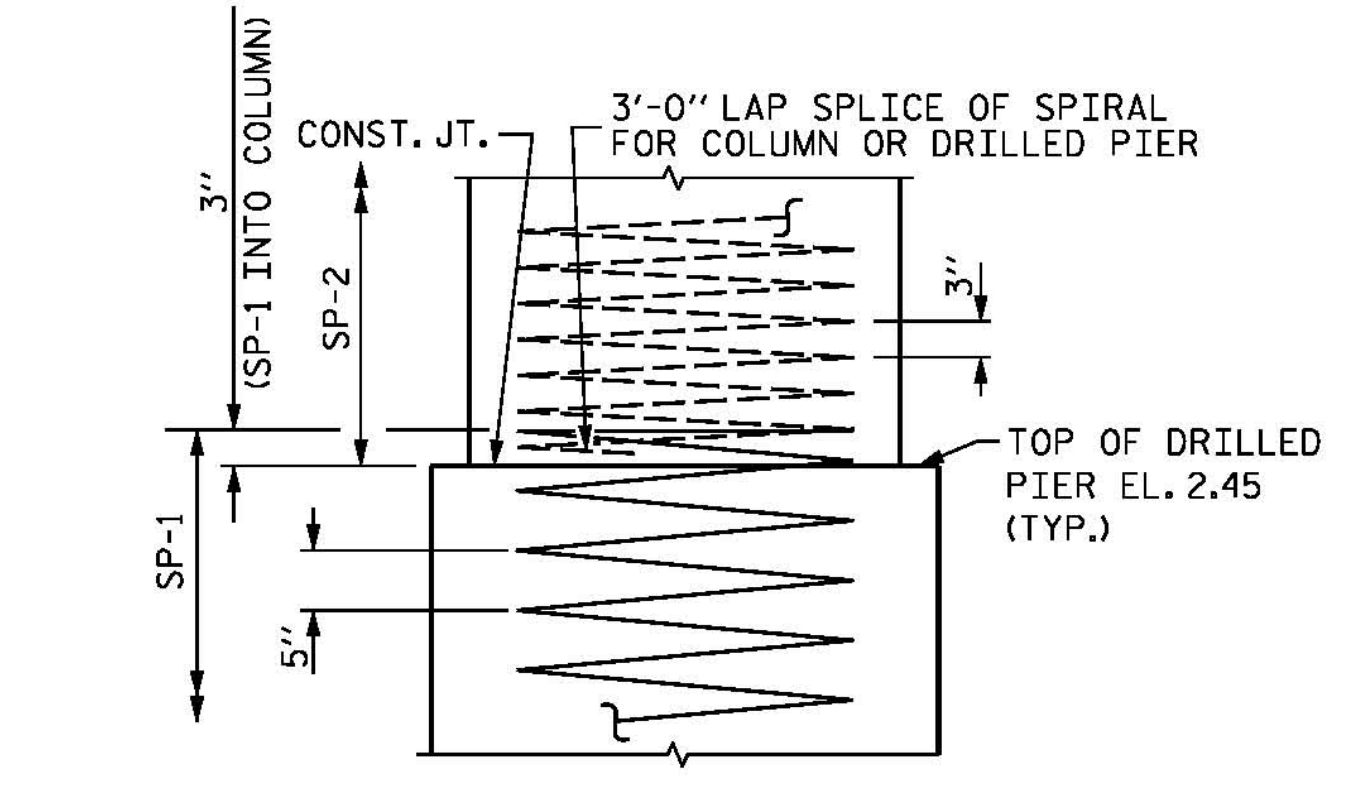


SECTION A-A

SECTION B-B

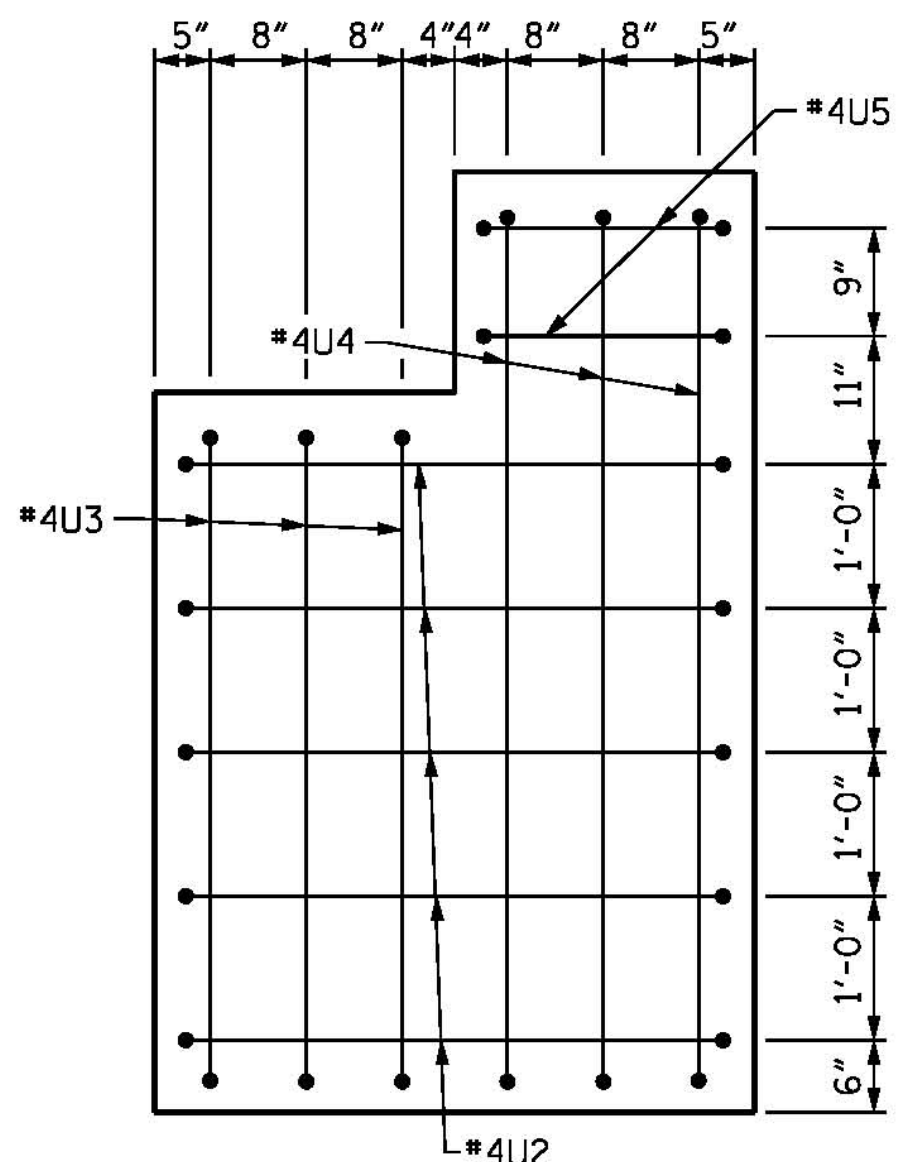


COLUMN AND DRILLED PIER DETAIL

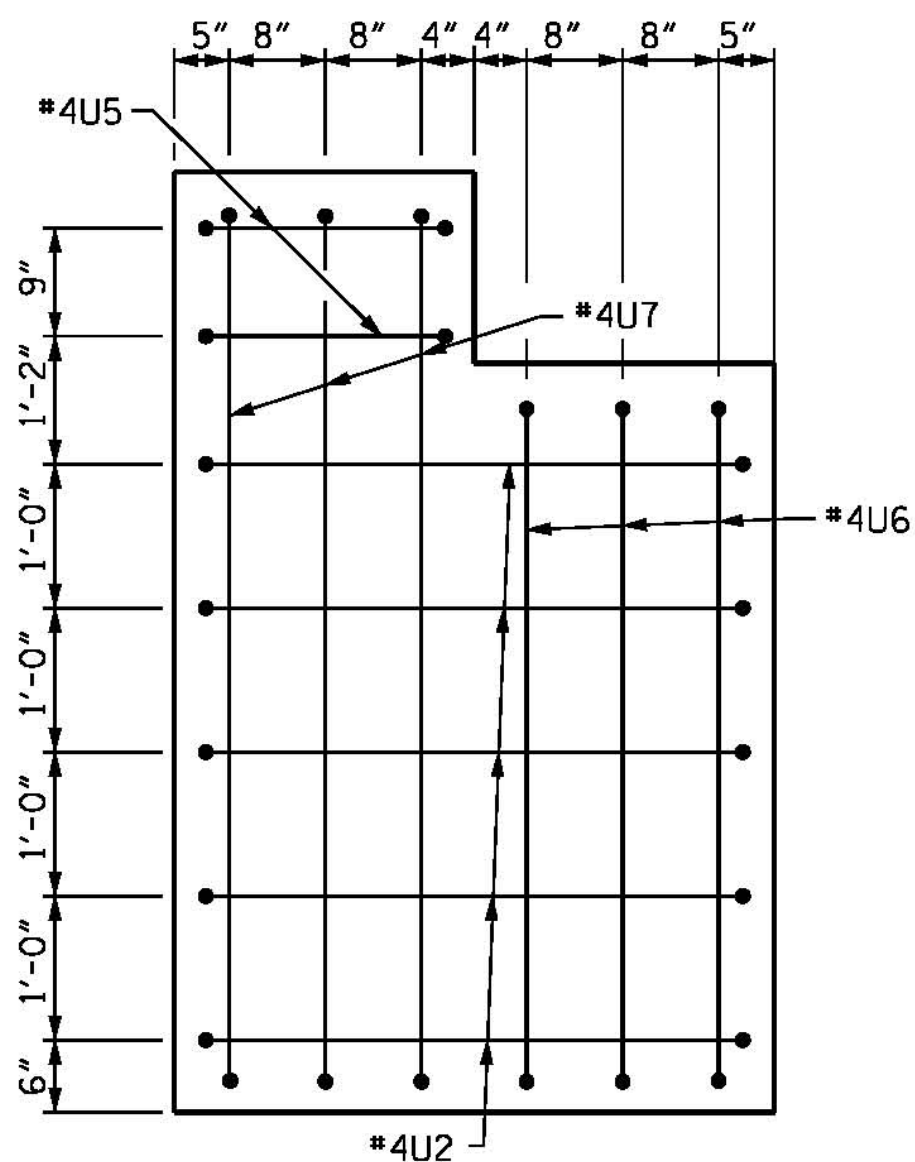


CONSTRUCTION JOINT DETAIL

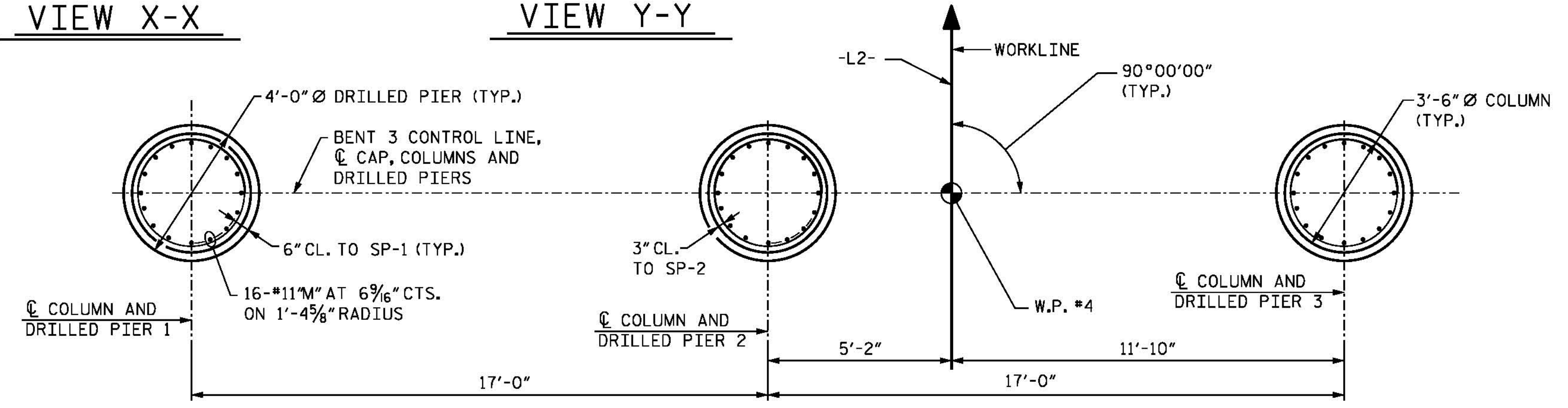
*M*BARS NOT SHOWN FOR CLARITY



VIEW X-X

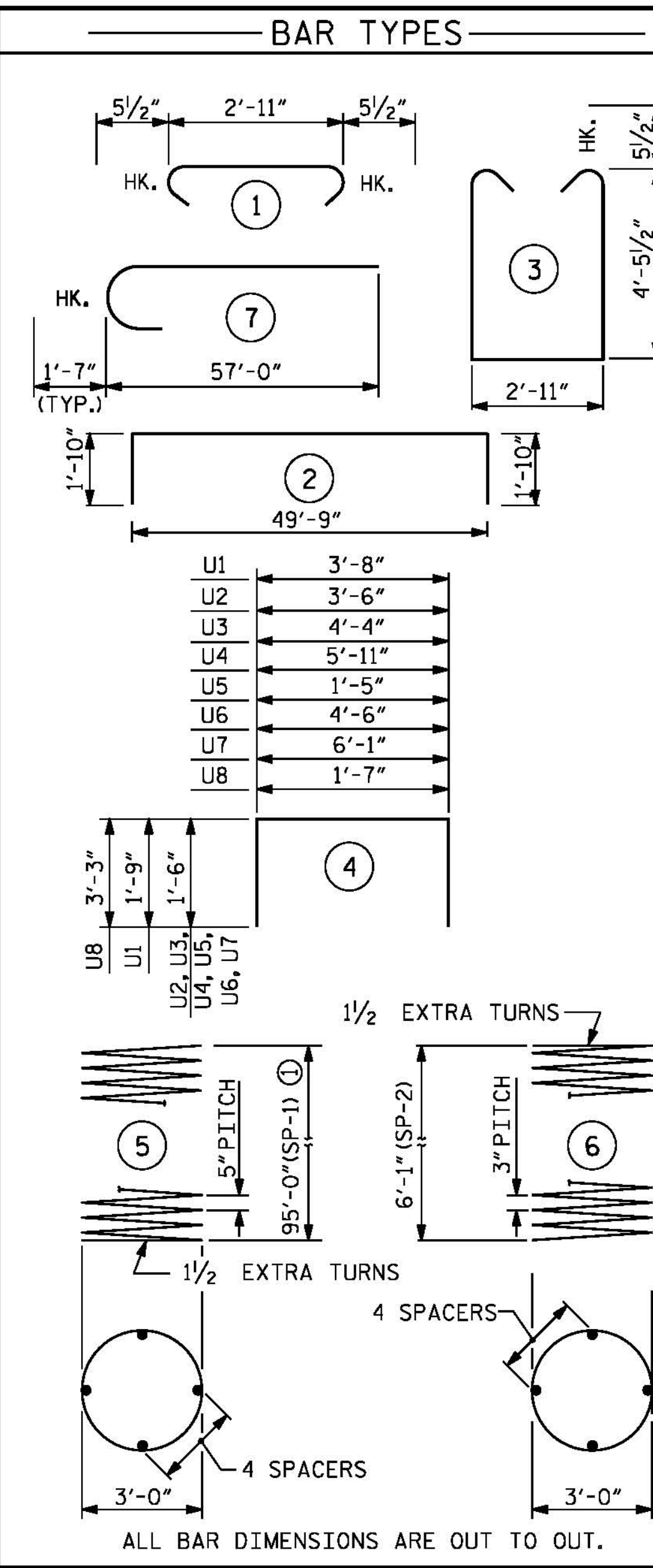


VIEW Y-Y



PLAN OF COLUMNS AND DRILLED PIERS

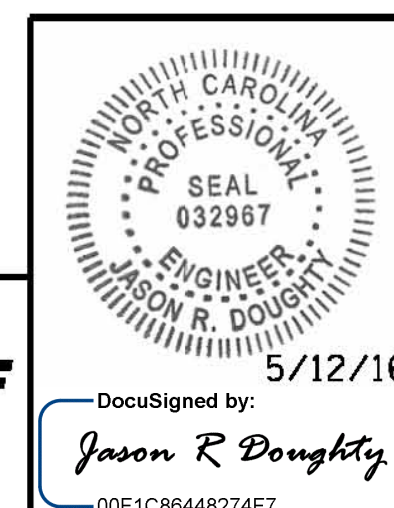
(REINFORCING STEEL ARE TYPICAL FOR EACH COLUMN AND DRILLED PIER)



BILL OF MATERIAL					
BENT 3					
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#10		53'-5"	1839
B2	12	#5	STR	49'-6"	620
B3	16	#10	STR	49'-6"	3408
B4	16	#4	STR	20'-7"	220
B5	8	#4	STR	20'-10"	111
B6	13	#4	STR	3'-8"	32
B7	4	#4	STR	11'-3"	30
M1	48	#11	STR	58'-6"	14,919
M2	48	#11		58'-7"	14,940
S1	164	#5		12'-9"	2181
S2	164	#5		3'-10"	656
U1	66	#4		7'-2"	316
U2	10	#4		6'-6"	43
U3	3	#4		7'-4"	15
U4	3	#4		8'-11"	18
U5	4	#4		4'-5"	12
U6	3	#4		7'-6"	15
U7	3	#4		9'-1"	18
U8	51	#4		8'-1"	275
EPOXY COATED REINFORCING STEEL				LBS.	39,668
SP1	3	*	5	2132'-3"	6672
SP2	3	**	6	251'-1"	503
EPOXY COATED SPIRAL COLUMN REINFORCING STEEL				LBS.	7175
CLASS "AA" CONCRETE BREAKDOWN					
POUR #2 - COLUMNS				6.2 C.Y.	
POUR #3 - CAP				46.7 C.Y.	
CLASS "AA" CONCRETE				52.9 C.Y.	
DRILLED PIER QUANTITIES					
POUR #1 - DRILLED PIER CONCRETE				133.2 C.Y.	
4'-0" Ø DRILLED PIERS				286.4 L.F.	
PERMANENT STEEL CASING FOR 4'-0" Ø DRILLED PIERS				91.4 L.F.	
SPT TESTING				1 EA.	
SID INSPECTIONS				1 EA.	
CSL TUBES				1164 L.F.	

* THE SP-2 EPOXY COATED SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.
 * THE SP-1 EPOXY COATED SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR,
 ① CONTRACTOR MAY PROVIDE 3'-0" MIN SPLICE AT MID HEIGHT OF EPOXY COATED SPIRAL REINFORCING STEEL. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR SPLICES.

PROJECT NO. B-4929
PENDER COUNTY
 STATION: 38+13.81 -L2-
 SHEET 2 OF 2



PARSONS BRINCKERHOFF
 434 FAYETTEVILLE STREET
 SUITE 1500
 RALEIGH, NC 27601
 LICENSE NO. F-0165

DocuSigned by:
 Jason R. Doughty
 00F1C96448274F7...
 5/12/16

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 BENT 3
 SECTIONS AND DETAILS

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

SHEET NO.
S-157
 TOTAL SHEETS
 278

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

5/10/2016 400_307_B4929_SMU_IB32.dgn

DESIGNED BY: M. WAGNER DATE: JAN. 2016
 DRAWN BY: B. CALDWELL DATE: FEB. 2016
 CHECKED BY: J. SHERMAN DATE: MAR. 2016
 DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: MAY 2016