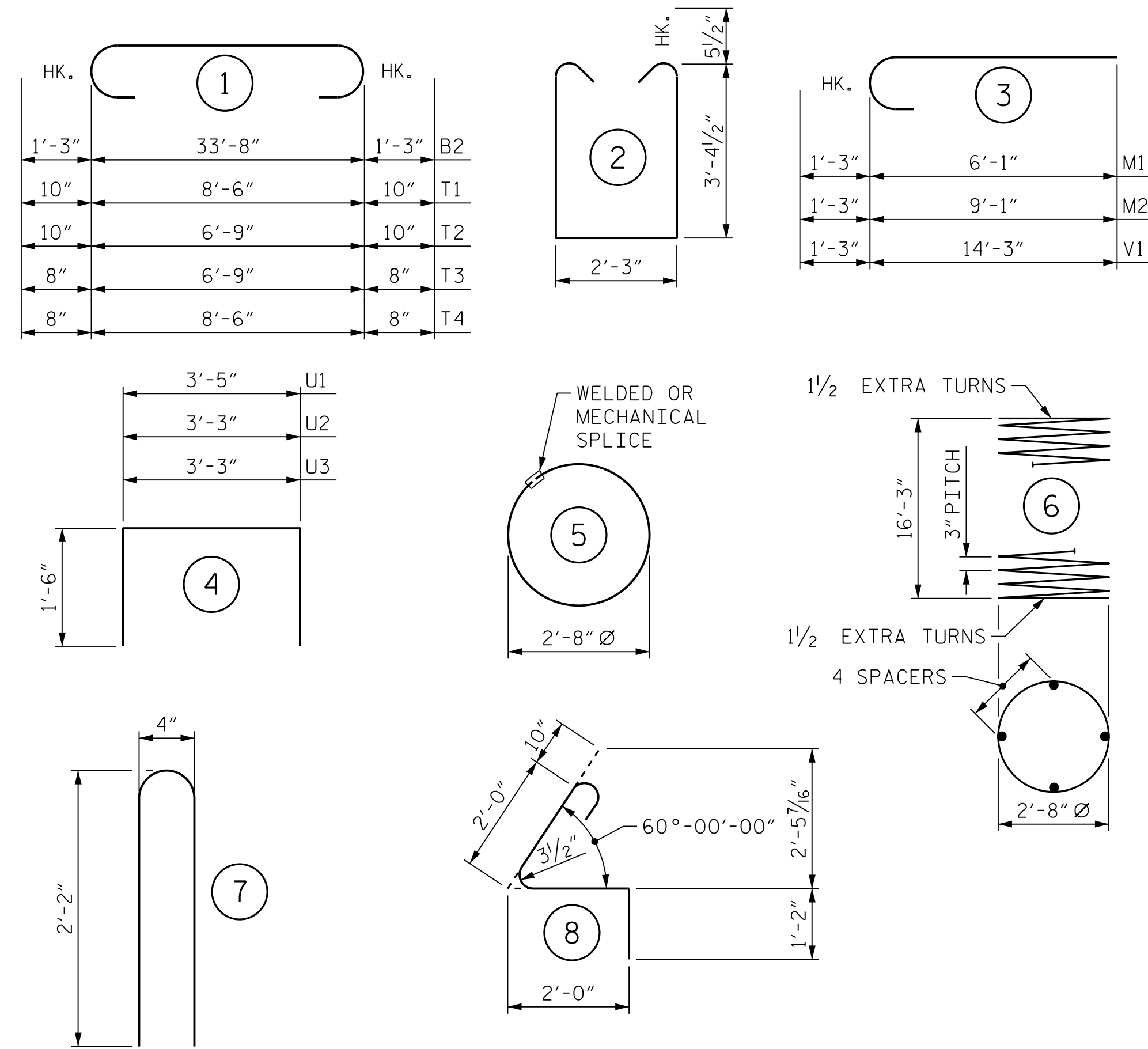


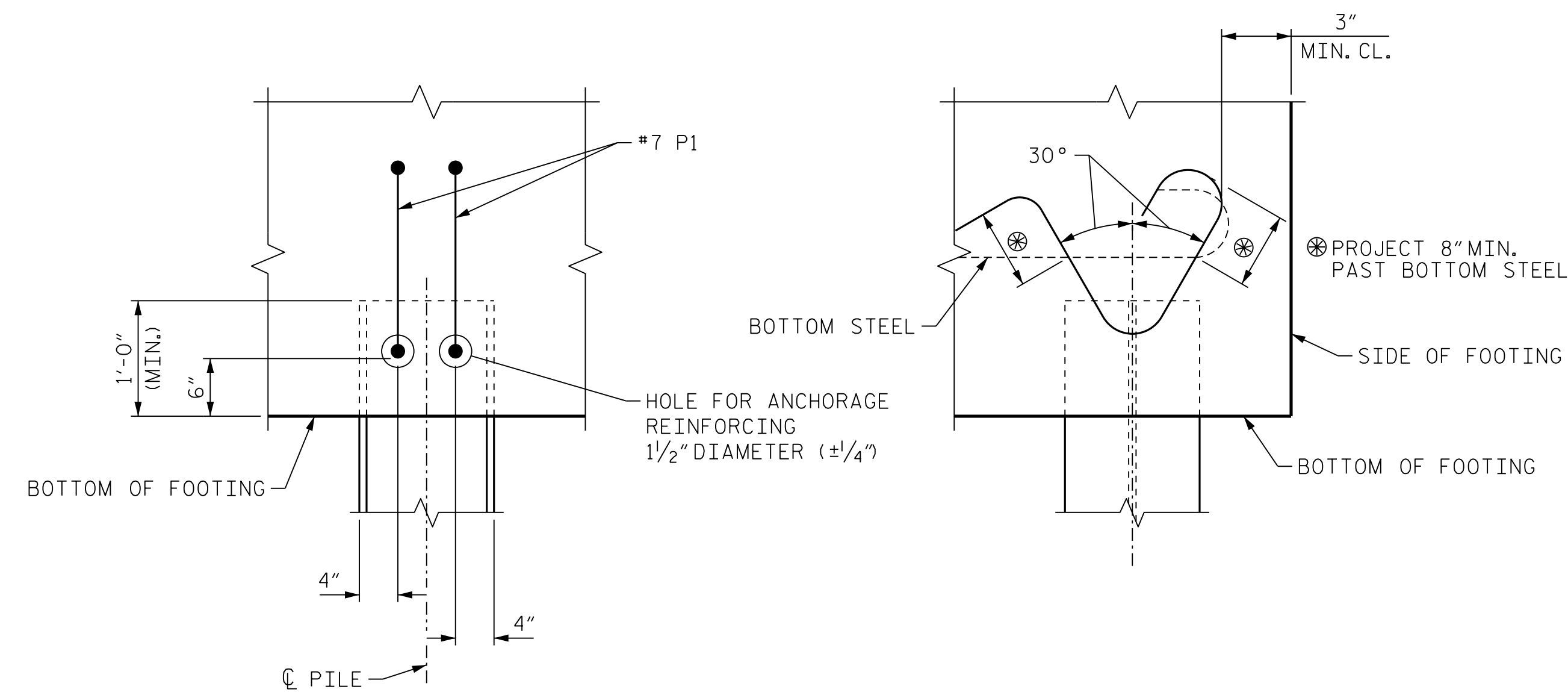
BAR TYPES



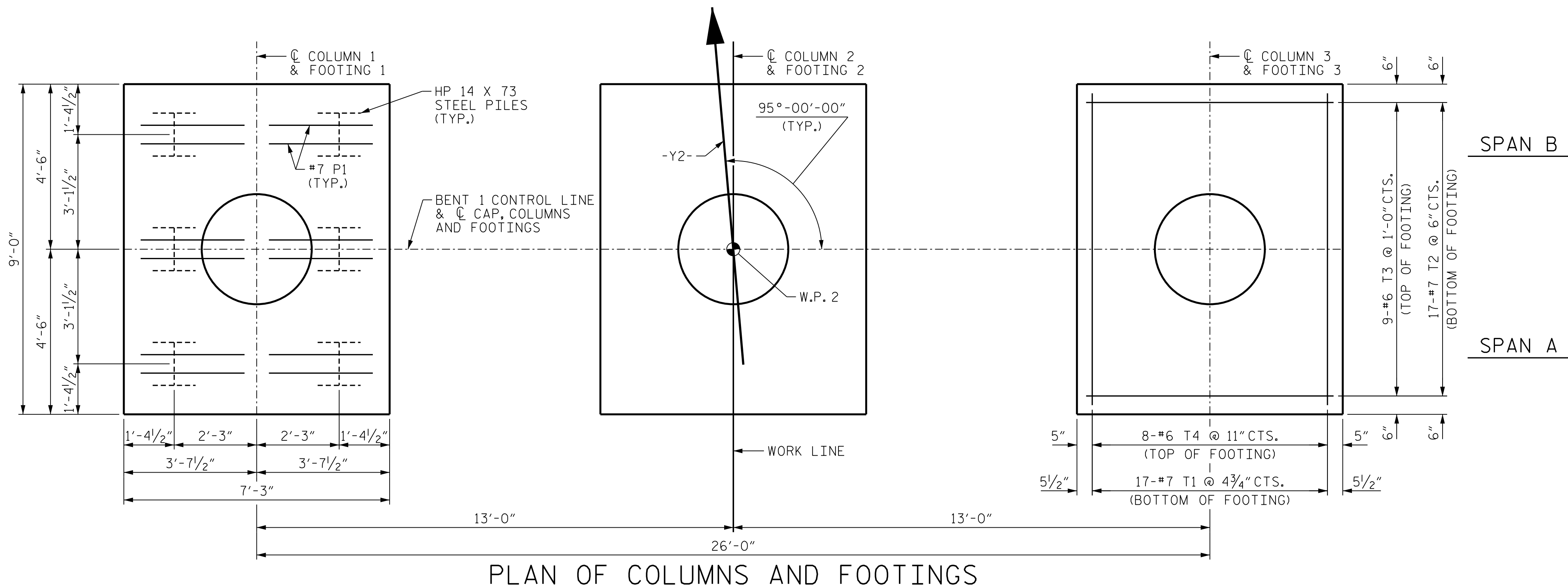
ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT 1					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#9	STR	33'-8"	687
B2	6	#9	1	36'-2"	738
B3	8	#6	STR	33'-8"	405
B4	6	#4	STR	3'-10"	15
M1	36	#9	3	7'-4"	898
M2	36	#9	3	10'-4"	1265
P1	36	#7	8	6'-0"	442
S1	88	#5	2	9'-11"	910
S2	33	#4	5	8'-5"	186
T1	51	#7	1	10'-2"	1060
T2	51	#7	1	8'-5"	877
T3	27	#6	1	8'-1"	328
T4	24	#6	1	9'-10"	354
U1	28	#4	4	6'-5"	120
U2	8	#4	4	6'-3"	33
U3	8	#4	4	6'-3"	33
U4	32	#4	7	4'-8"	100
V1	36	#9		15'-6"	1897
				3	
REINFORCING STEEL					10,348 LBS.
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
SP-1	3	*	6	558'-10"	1,749
SPIRAL COLUMN REINFORCING STEEL					1,749 LBS.
* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.					
CLASS A CONCRETE BREAKDOWN					
POUR #1 (FOOTING)					25.4 C.Y.
POUR #2 (COLUMNS)					12.6 C.Y.
POUR #3 (CAP)					18.2 C.Y.
TOTAL					56.2 C.Y.



STEEL H-PILE ANCHORAGE DETAIL

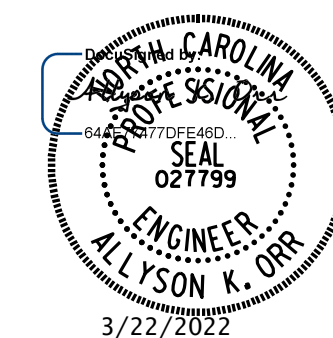


PLAN OF COLUMNS AND FOOTINGS

(DIMENSIONS AND REINFORCING STEEL ARE TYPICAL FOR EACH COLUMN AND FOOTING, UNLESS OTHERWISE NOTED)

PROJECT NO. I-5987A  
ROBESON COUNTY  
 STATION: 29+75.79 -Y2-

SHEET 3 OF 3



DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

MI ENGINEERING  
 1011 SCHAUB DRIVE, SUITE 100  
 RALEIGH, NC 27606  
 (919) 851-6606  
 FIRM PE NUMBER: P-0671

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 SUBSTRUCTURE  
 BENT 1  
 DETAILS AND  
 BILL OF MATERIAL

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S1-30 TOTAL SHEETS 36
2			4			

3/22/2022 1:15:41 PM User: blanning File: N:\NC Bridges\M20003 I-5987A&B I-5987A Structures\401.059.I5987A.SMU.BIC.770151.dgn

DRAWN BY: B.E. LANNING DATE: 06/2021  
 CHECKED BY: A.K. ORR DATE: 06/2021  
 DESIGN ENGINEER OF RECORD: A.K. ORR DATE: 03/2022