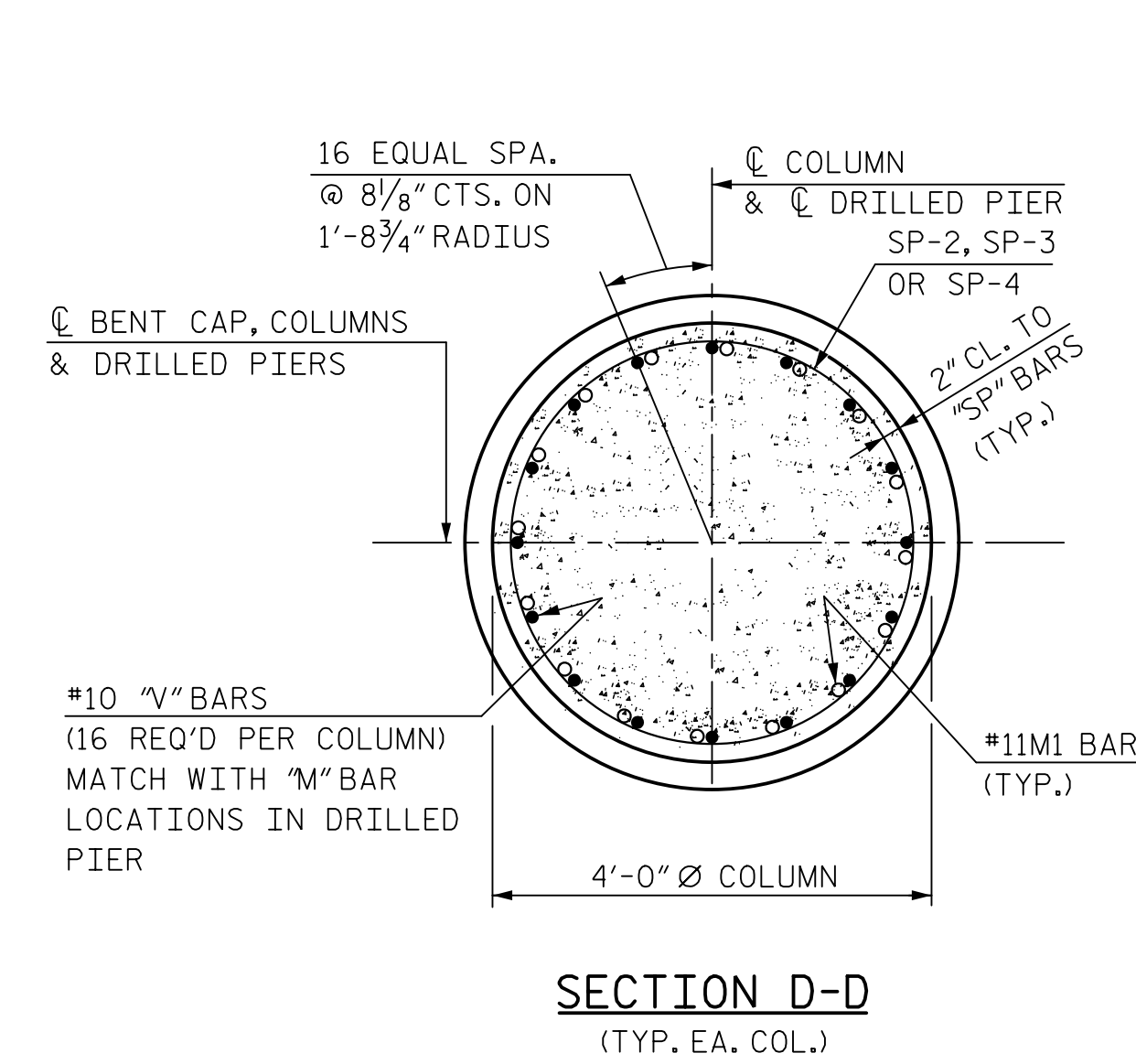


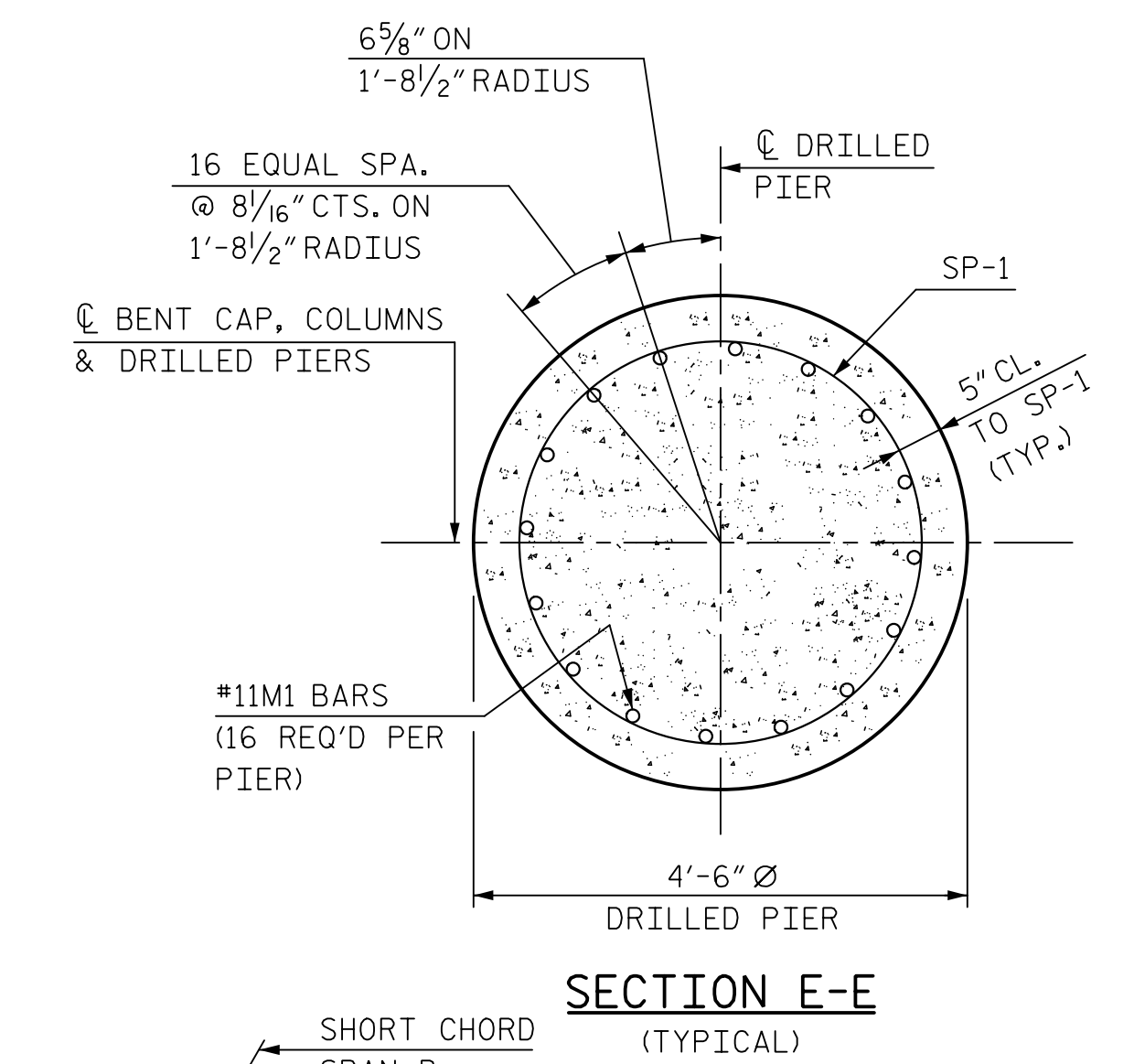
SECTION A-A

VIEW B-B

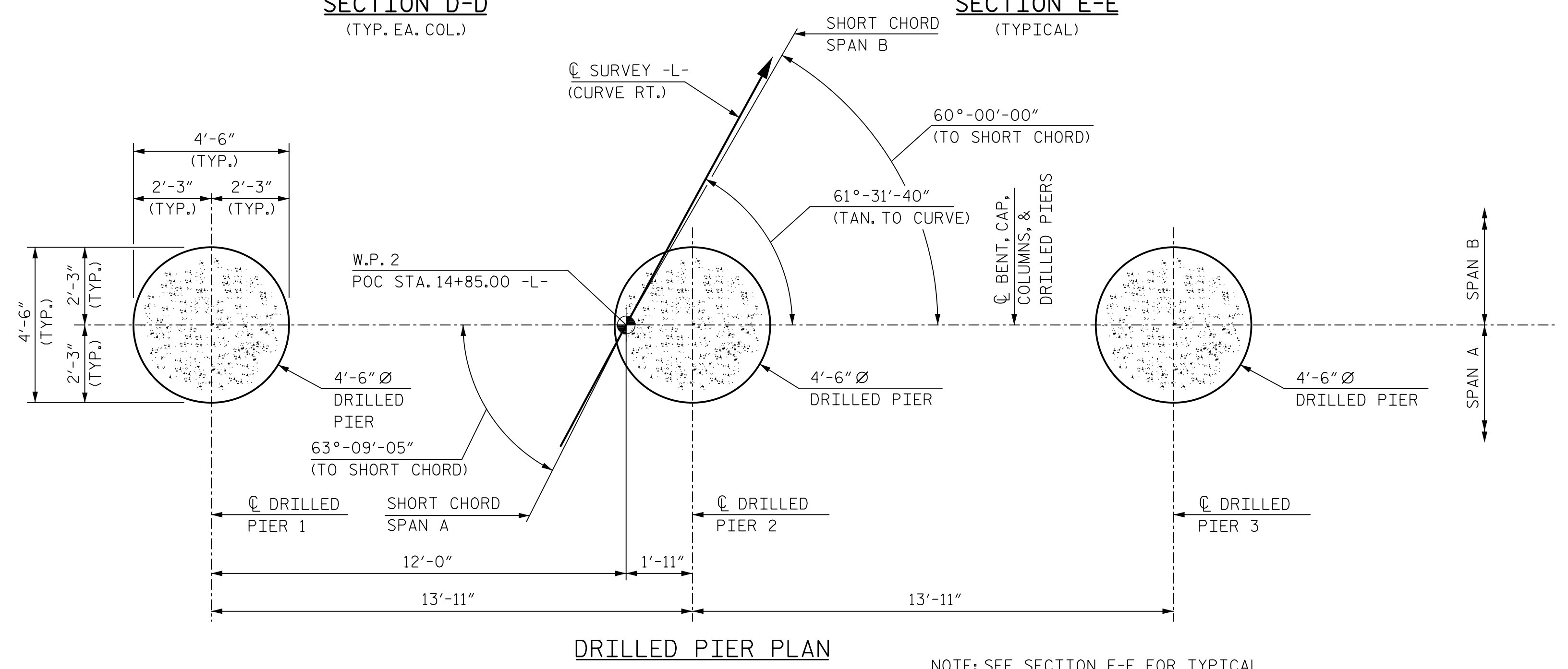
SECTION C-C



SECTION D-D
(TYP. EA. COL.)

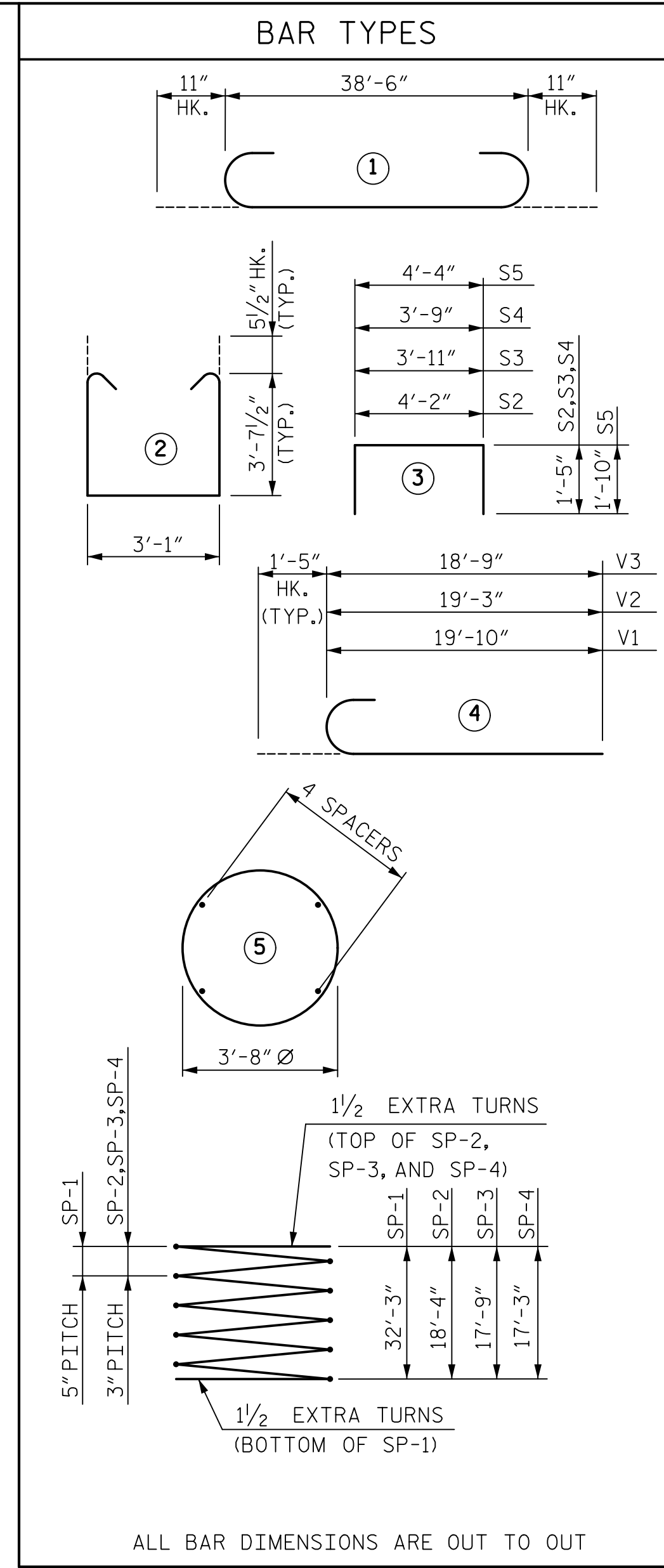


SECTION E-E
(TYPICAL)



DRILLED PIER PLAN

NOTE: SEE SECTION E-E FOR TYPICAL DRILLED PIER REINFORCING.



ALL BAR DIMENSIONS ARE OUT TO OUT

NOTE: THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE LONGITUDINAL REINFORCEMENT FOR THE DRILLED PIERS IS DETAILED WITH 3 FEET OF EXTRA LENGTH.

BILL OF REINFORCING					
BENT 1					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	8	STR.	38'-6"	1,028
B2	20	4	STR.	20'-6"	274
B3	8	8	1	40'-4"	862
B4	32	4	STR.	4'-5"	94
M1	48	11	STR.	41'-3"	10,520
S1	80	5	2	11'-3"	939
S2	8	4	3	7'-0"	37
S3	6	4	3	6'-9"	27
S4	6	4	3	6'-7"	26
S5	36	4	3	8'-0"	192
V1	16	10	4	21'-3"	1,463
V2	16	10	4	20'-8"	1,423
V3	16	10	4	20'-2"	1,388
SP-1	3	*	5	898'-7"	2,812
SP-2	1	**	5	852'-6"	569
SP-3	1	**	5	825'-11"	552
SP-4	1	**	5	803'-1"	536
QUANTITIES					
REINFORCING STEEL				LBS.	18,273
SPIRAL COLUMN REINFORCING STEEL				LBS.	4,469
CLASS A CONCRETE					
COLUMN POUR 2				CU. YDS.	24.5
CAP POUR 3				CU. YDS.	28.3
TOTAL				CU. YDS.	52.8
DRILLED PIER CONCRETE POUR 1				CU. YDS.	57.9
4'-6" Ø DRILLED PIERS, IN SOIL				LIN. FT.	60.3
4'-6" Ø DRILLED PIERS, NOT IN SOIL				LIN. FT.	38.0
PERMANENT STEEL CASING FOR 4'-6" Ø DRILLED PIER				LIN. FT.	54.1
SPT TESTING				EA.	2

* THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.
 * THE SP-2, SP-3, AND SP-4 SPIRAL REINFORCING STEEL SHALL BE W20 OR D20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR.

PROJECT NO. B-4811
 RUTHERFORD COUNTY
 STATION: POC 15+25.00 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 BENT 1

DocuSigned by:
 David W. Hawkins
 1/29/2016
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 27812
 DAVID W. HAWKINS

DocuSigned by:
 Paul J. Barber
 1/29/2016
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 12916
 PAUL J. BARBER

HNTB HNTB NORTH CAROLINA, P.C.
 NC License No. C-1554
 343 E. Six Forks Rd., Suite 200, Raleigh, N.C. 27609

DRAWN BY: M. WRIGHT DATE: 11/14
 CHECKED BY: D. RAGAN DATE: 2/15 DWG. NO. 32

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

TOTAL SHEETS: 42

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED