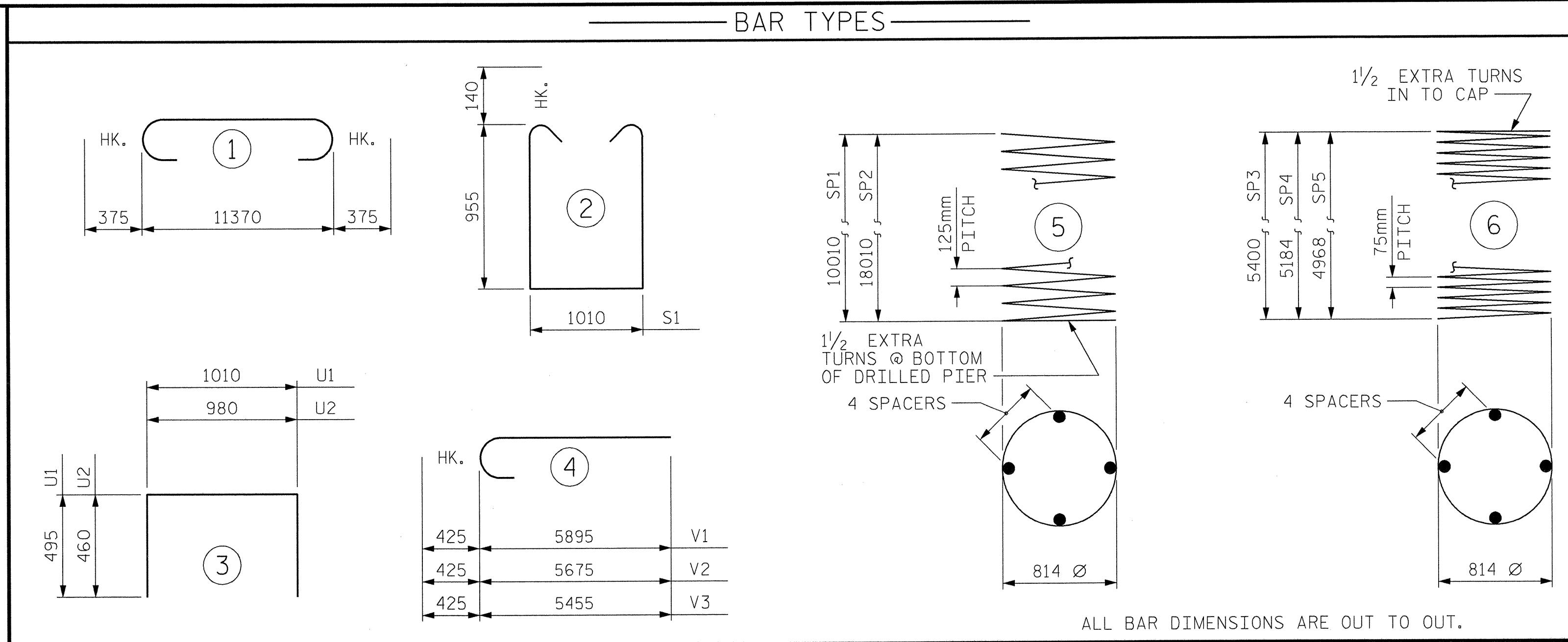
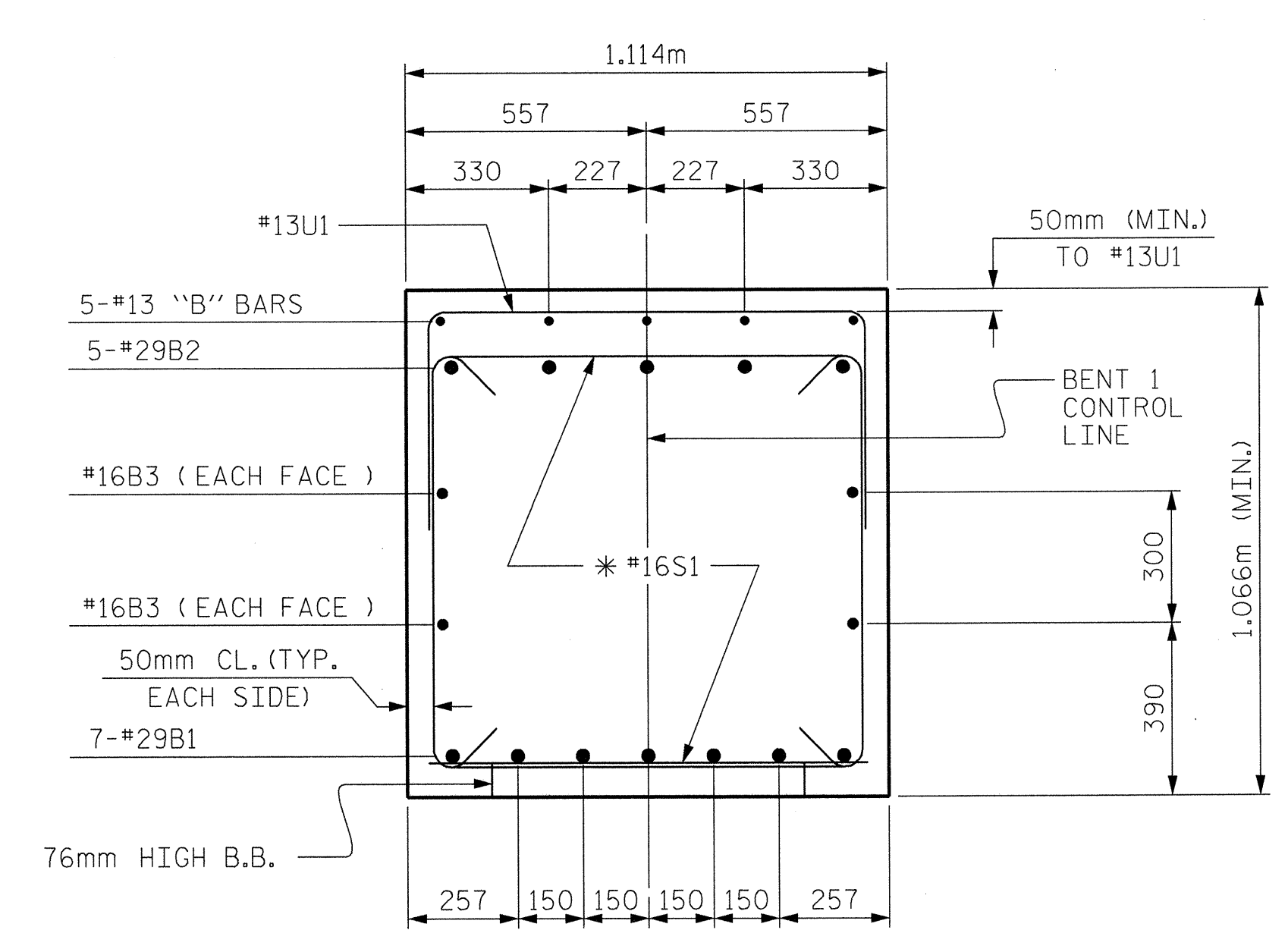


END ELEVATION

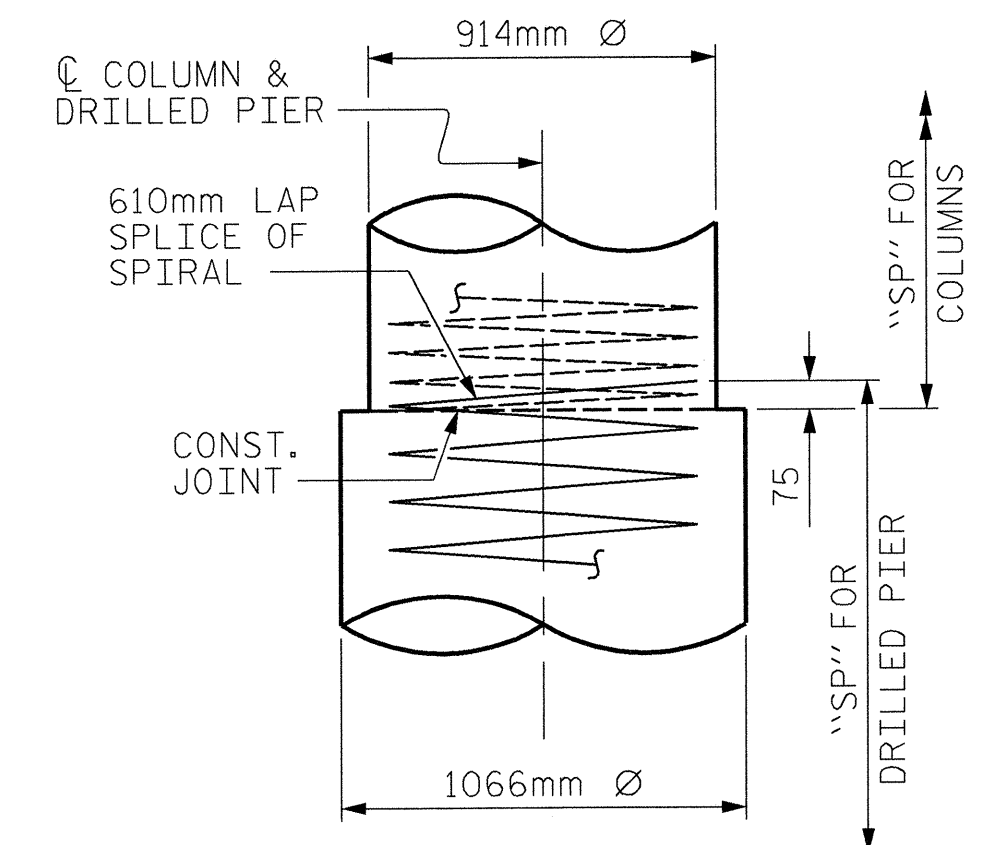


ALL BAR DIMENSIONS ARE OUT TO OUT.



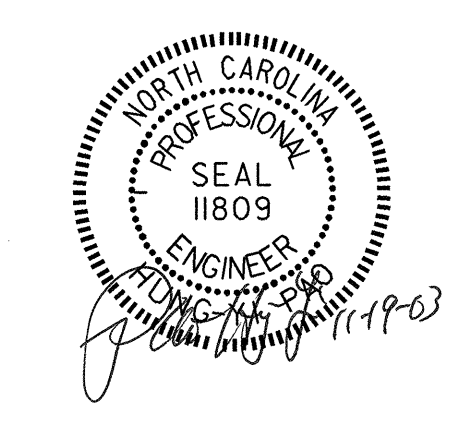
SECTION A-A

* INVERT ALTERNATE STIRRUPS

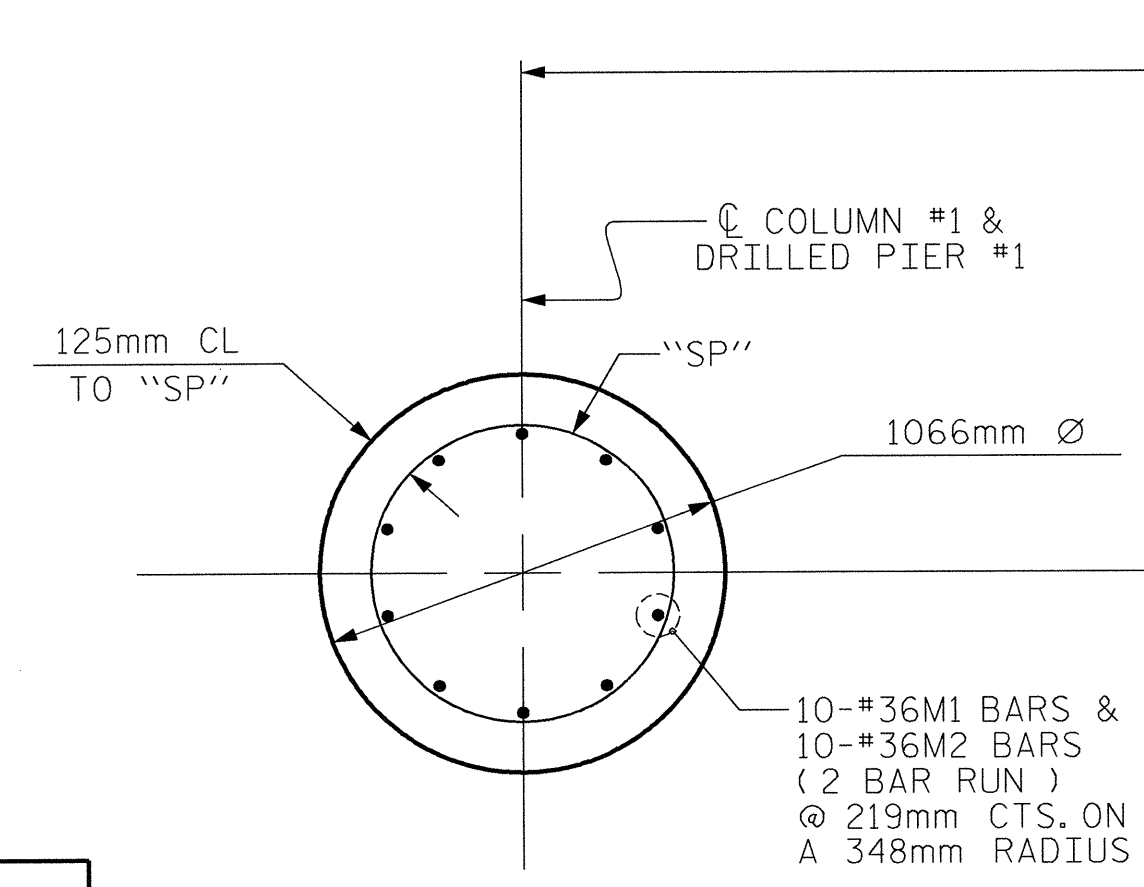


CONSTRUCTION JOINT DETAIL

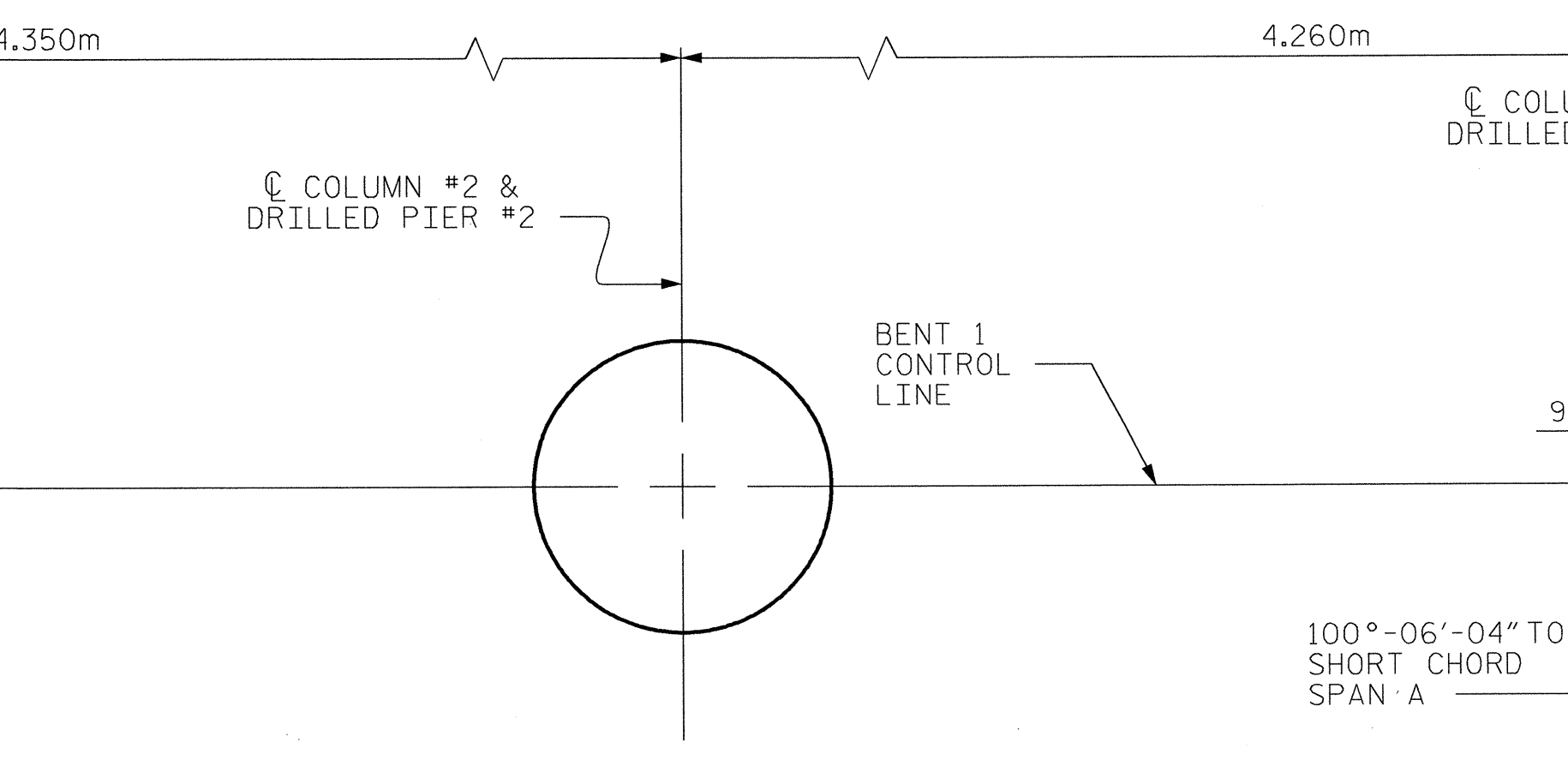
* THE SP1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #16 PLAIN OR DEFORMED BAR.
 ** THE SP2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.



BILL OF MATERIAL					
FOR BENT 1					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
B1	7	#29	STR	11400	404
B2	5	#29	1	12120	307
B3	4	#16	STR	11400	71
B4	20	#13	STR	1160	23
B5	5	#13	STR	1240	6
M1	10	#36	STR	13440	1,063
M2	40	#36	STR	11860	3,751
S1	34	#16	2	3200	169
U1	40	#13	3	2000	80
U2	12	#13	3	1900	23
V1	10	#32	4	6320	405
V2	10	#32	4	6100	391
V3	10	#32	4	5880	377
REINFORCING STEEL					= 7,070 kg
SP1	1	**	5	206380	320
SP2	2	**	5	367440	1,141
SP3	1	***	6	186380	185
SP4	1	***	6	178820	178
SP5	1	***	6	171260	170
SPIRAL COLUMN REINFORCING STEEL					= 1,994 kg
CLASS A CONCRETE BREAKDOWN					
POUR #2 (COLUMNS)				m ³	10.1
POUR #3 (CAP)				m ³	14.5
TOTAL CLASS A CONCRETE				m ³	24.6
DRILLED PIER CONCRETE BREAKDOWN					
POUR #1 (DRILLED PIERS)				m ³	41.5
1066mm Ø DRILLED PIERS NOT IN SOIL METERS					10.0
1066mm Ø DRILLED PIERS IN SOIL METERS					36.5
SPT TESTING					3 EACH
SID INSPECTION					3 EACH
CSL TUBES					196.1 METERS

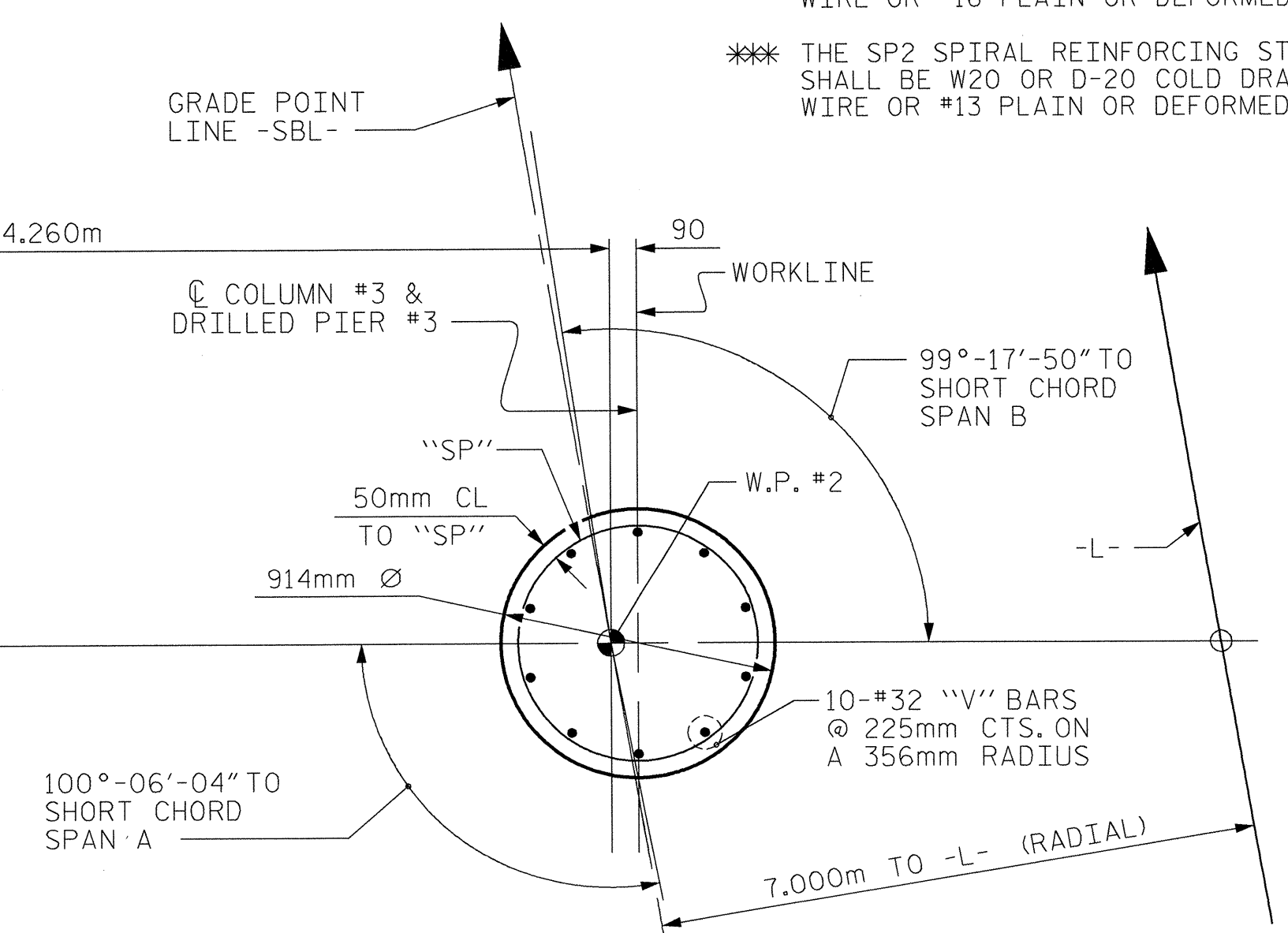


PLAN OF DRILLED PIER
 REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR ALL DRILLED PIERS.



PLAN OF COLUMNS AND DRILLED PIERS

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE WORK POINT IS OFFSET FROM THE CENTERLINE COLUMN AND DRILLED PIER.



PLAN OF COLUMN
 REINFORCING STEEL AND DIMENSIONS ARE TYPICAL FOR ALL COLUMNS.

Stantec
 Stantec Consulting Services Inc.
 Suite 300, 801 Jones Franklin Road
 Raleigh, NC 27606
 Tel. 919.851.6866
 Fax. 919.851.7024
 www.stantec.com

DRAWN BY: M. J. OSTRISHKO DATE: 8-28-03
 CHECKED BY: H. PAO DATE: 9-20-03

PROJECT NO. R-2610A
CHATHAM COUNTY
 STATION: 18+04.666 -L-
 SHEET 2 OF 2

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
BENT 1
 (LEFT LANE BRIDGE)

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

SHEET NO. 5-25
 TOTAL SHEETS 82