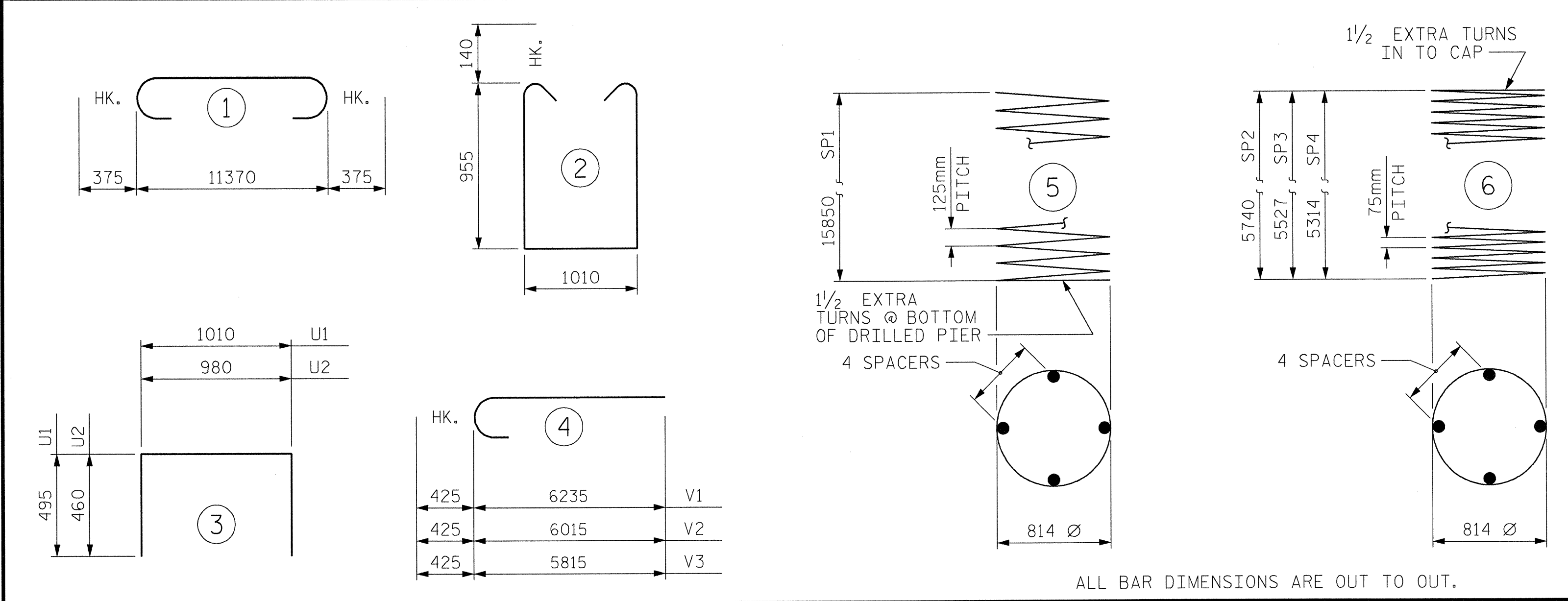


BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

FOR BENT 2

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	60	#36 STR	10780	5,114
S1	34	#16 2	3200	169
U1	40	#13 3	2000	80
U2	12	#13 3	1900	23
V1	10	#32 4	6660	427
V2	10	#32 4	6440	412
V3	10	#32 4	6240	400

REINFORCING STEEL = 7,436 kg

SP1	3	**	5	324660	1,512
SP2	1	***	6	198960	198
SP3	1	***	6	191420	190
SP4	1	***	6	183860	183

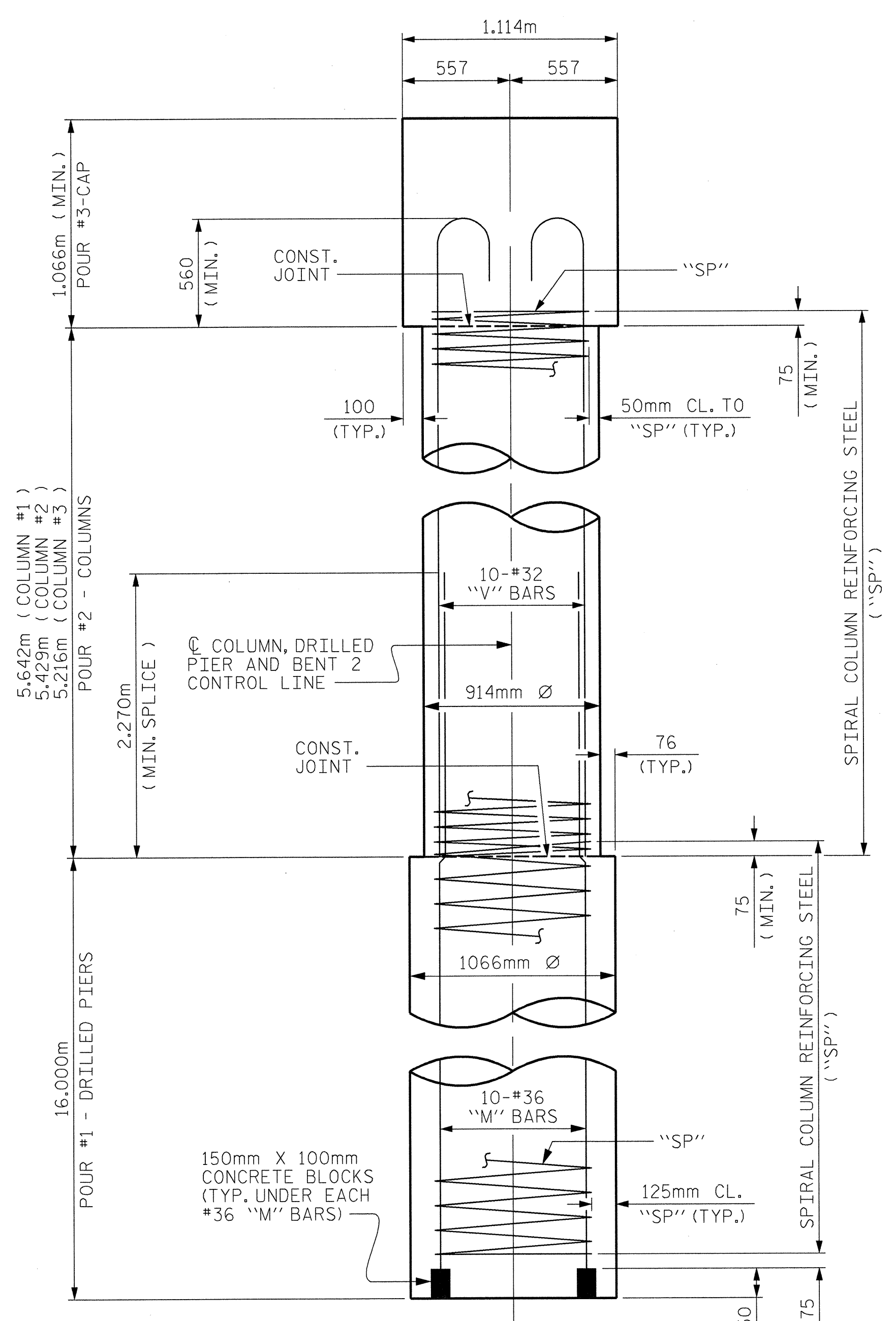
SPIRAL COLUMN REINFORCING STEEL = 2,083 kg

CLASS A CONCRETE BREAKDOWN		
POUR #2 (COLUMNS)	m ³	10.7
POUR #3 (CAP)	m ³	14.5
TOTAL CLASS A CONCRETE	m ³	25.2

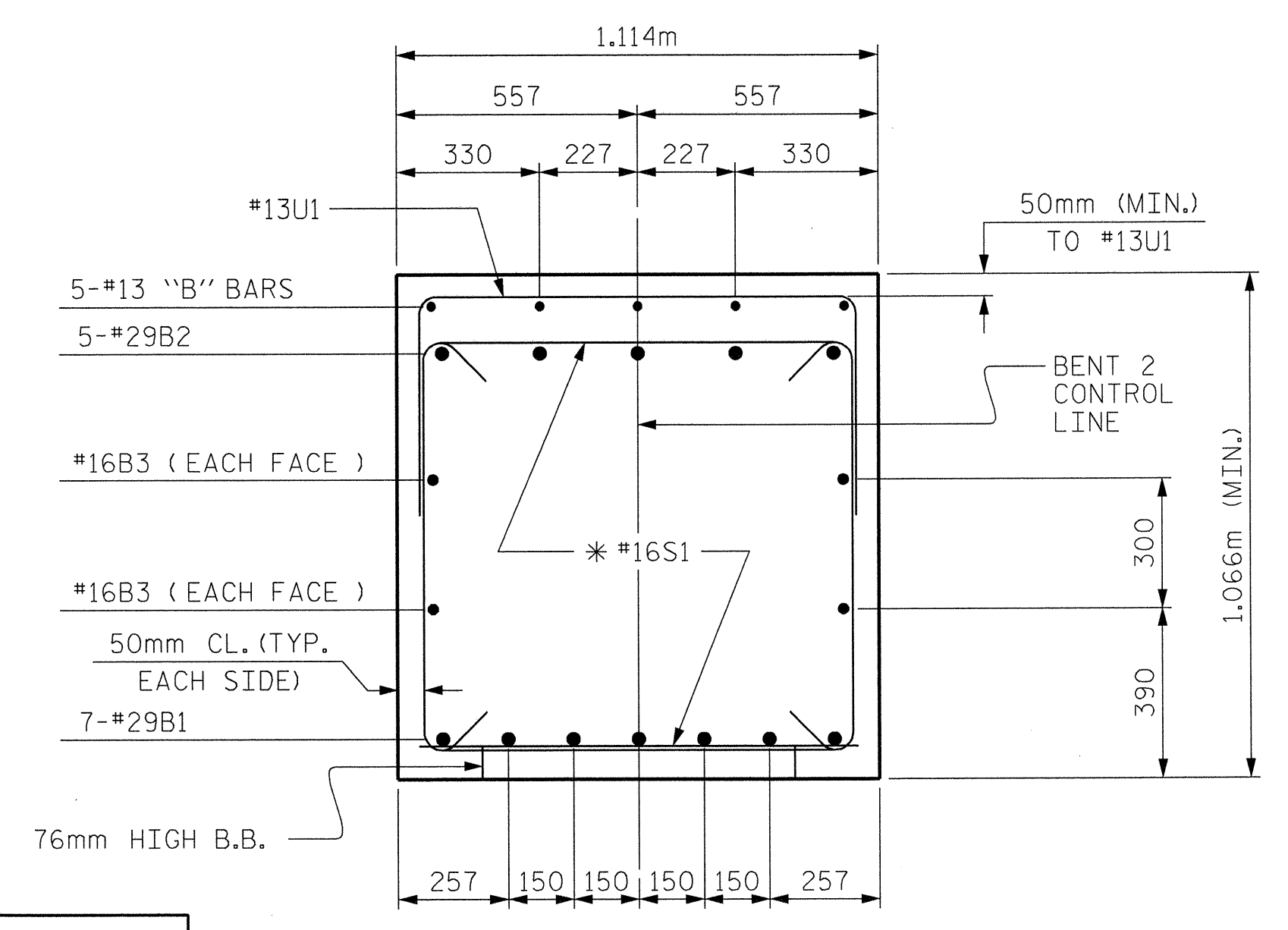
DRILLED PIER CONCRETE BREAKDOWN		
POUR #1 (DRILLED PIERS)	m ³	42.8

1066mm Ø DRILLED PIERS NOT IN SOIL METERS	10.0
1066mm Ø DRILLED PIERS IN SOIL METERS	38.0

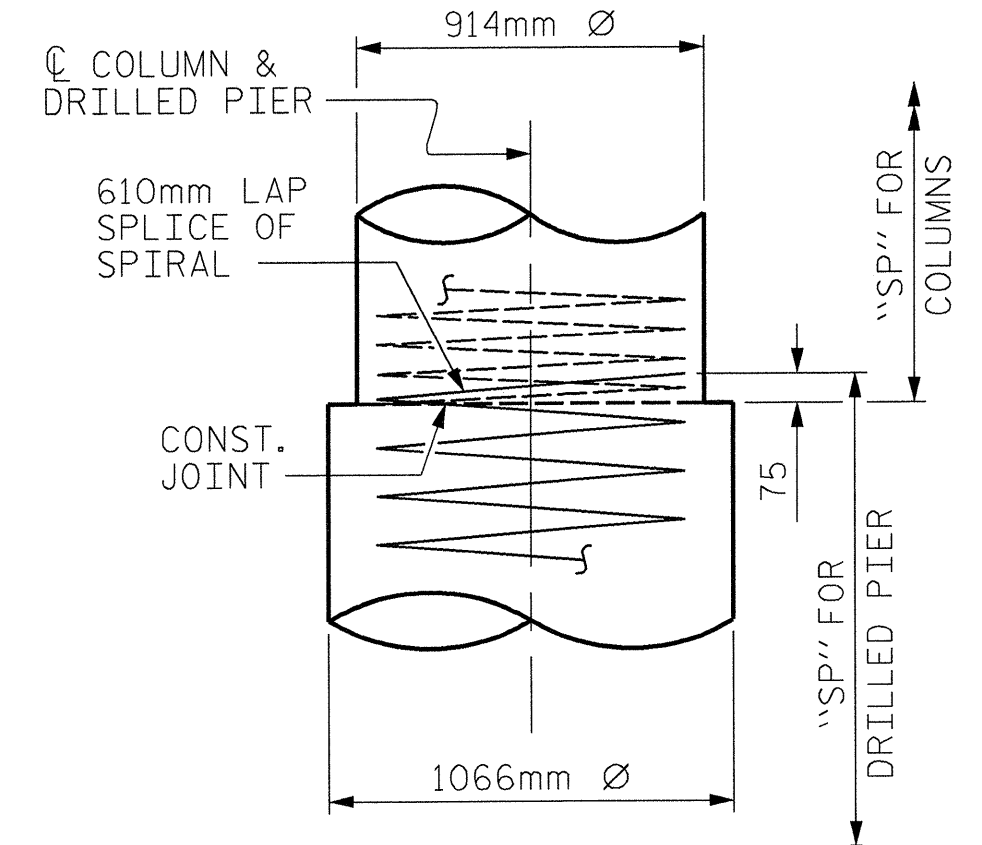
SPT TESTING	3 EACH
SID INSPECTION	3 EACH
CROSSHOLE SONIC LOGGING	1 EACH
CSL TUBES	202.2 METERS



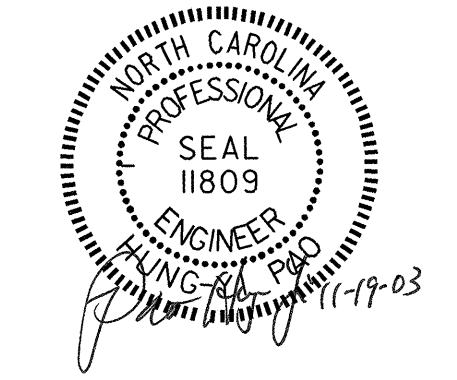
END ELEVATION



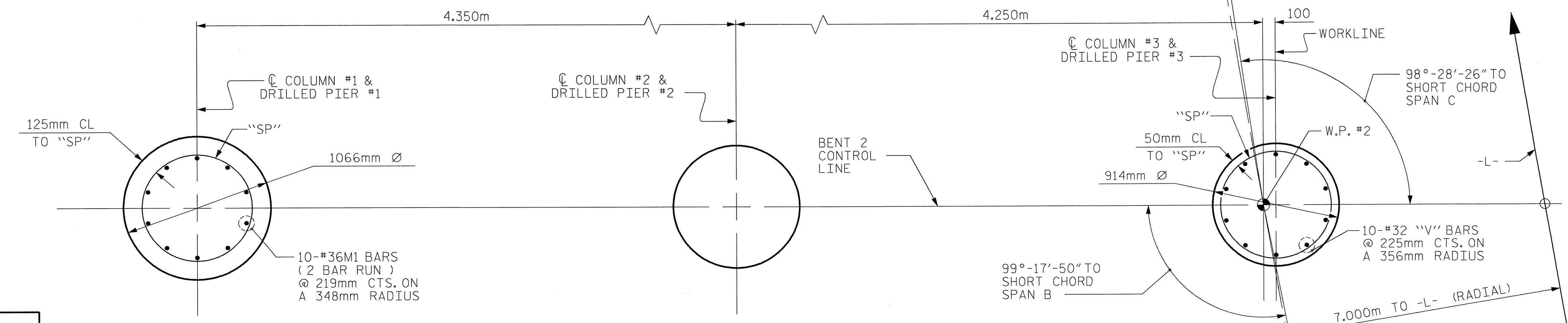
SECTION A-A



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.



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.

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 2
 (LEFT LANE BRIDGE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	5-27
1			3			TOTAL SHEETS
2			4			42

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 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

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