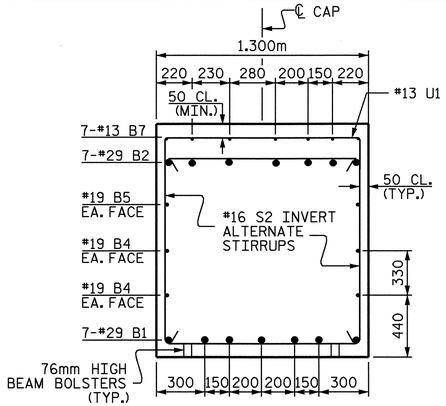
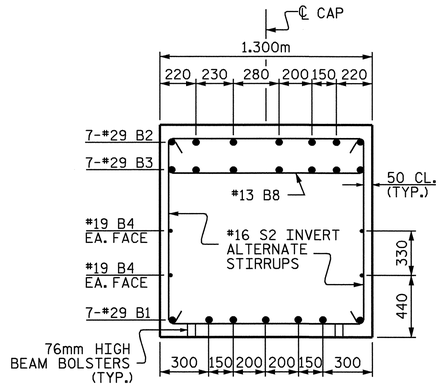
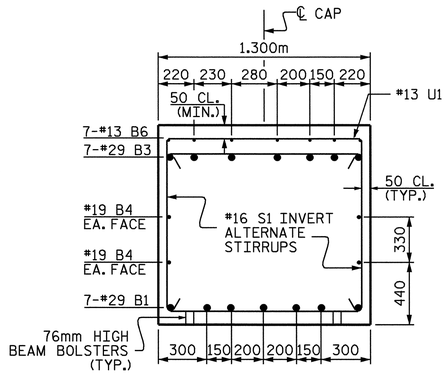


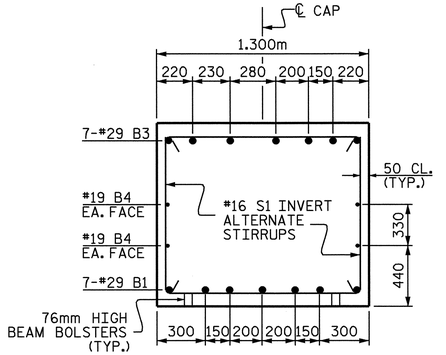
SECTION A-A



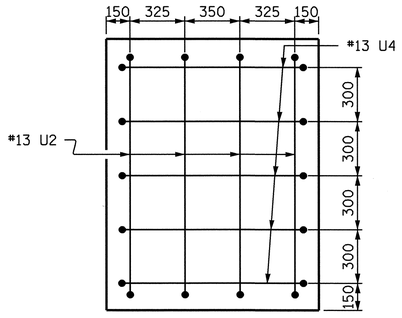
SECTION B-B



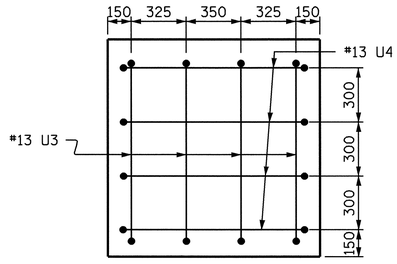
SECTION C-C



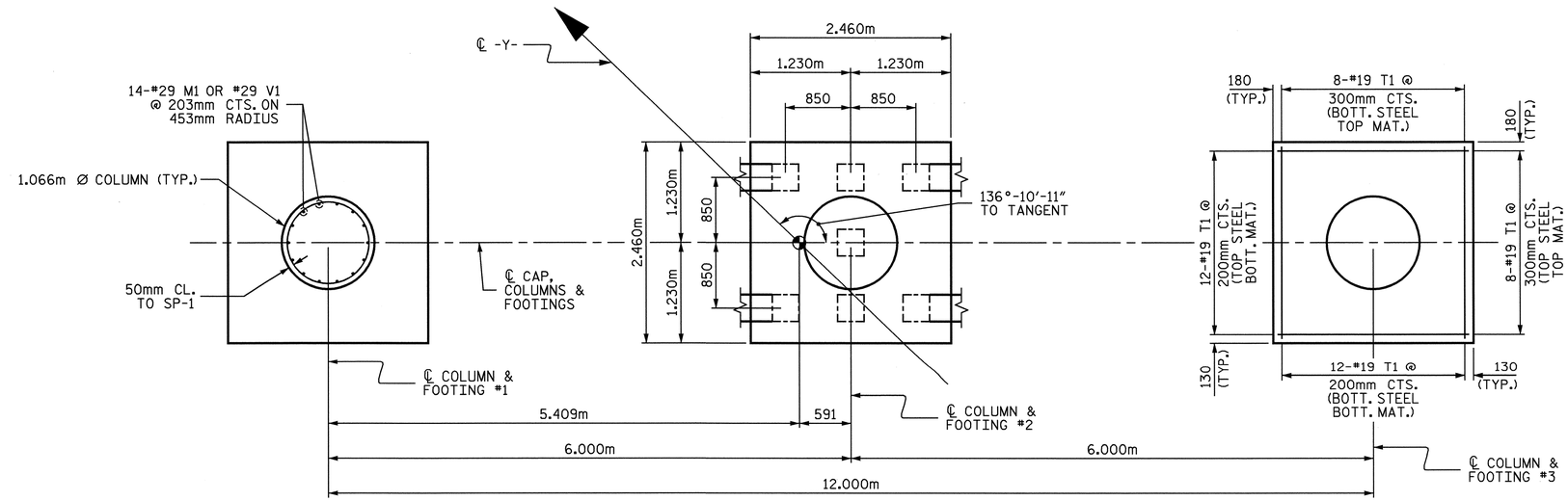
SECTION D-D



VIEW X-X



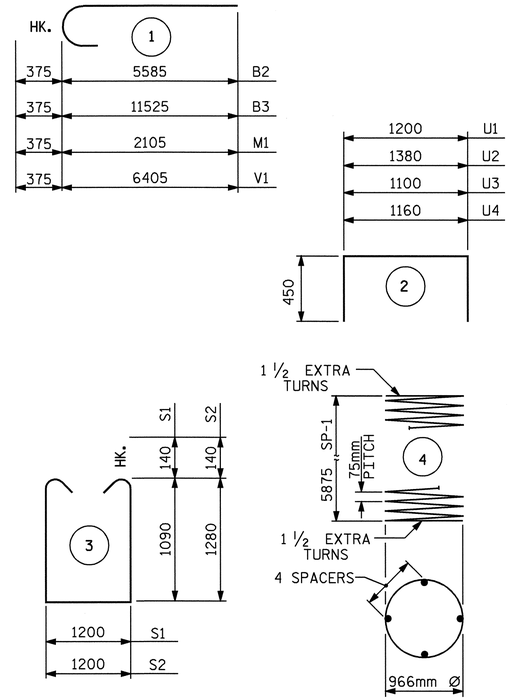
VIEW Y-Y



PLAN OF FOOTINGS

DETAILS AND REINFORCING STEEL FOR FOOTINGS AND COLUMNS ARE TYPICAL.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT NO. 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	7	29	STR	14500	514
B2	7	29	1	5960	211
B3	7	29	1	11900	421
B4	4	19	STR	14500	130
B5	2	19	STR	4120	18
B6	7	13	STR	4300	30
B7	7	13	STR	1300	9
B8	3	13	STR	1200	4
M1	42	29	1	2480	527
S1	38	16	3	3660	216
S2	21	16	3	4040	132
T1	120	19	STR	2360	633
U1	48	13	2	2100	100
U2	4	13	2	2280	9
U3	4	13	2	2000	8
U4	9	13	2	2060	18
V1	42	29	1	6780	1441
SP-1	3	**	4	243500	726

REINFORCING STEEL	KG	4421
SPIRAL COLUMN REINFORCING STEEL	KG	726

CLASS "A" CONCRETE BREAKDOWN

POUR #1 FOOTINGS	14.8 m³
POUR #2 COLUMNS	15.5 m³
POUR #3 CAP	24.9 m³
CLASS "A" CONCRETE TOTAL	55.2 m³

305 PRESTRESSED CONCRETE PILES NO. 21	METERS	336

** THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR.

NOTE:
CONCRETE DISPLACED BY CONCRETE PILES HAS BEEN DEDUCTED FROM CONCRETE QUANTITY.

PROJECT NO. R-513BB
ROBESON COUNTY
STATION: 209+17.263 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE BENT #1

NORTH CAROLINA PROFESSIONAL SEAL 16301 ENGINEER TING HSIUNG FANG

Ting H. Fang 3/18/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-54
1			3			TOTAL SHEETS
2			4			312

DRAWN BY : W.K. FISCHER DATE : 12/15/03
CHECKED BY : T.A. WALTER DATE : 12/19/03

25-FEB-2004 10:20
W:\SquadM\r0513bb\str2\wkfischer\Microstation\R-513BB_sd_B*1_02.dgn
wkfischer

STR. 2