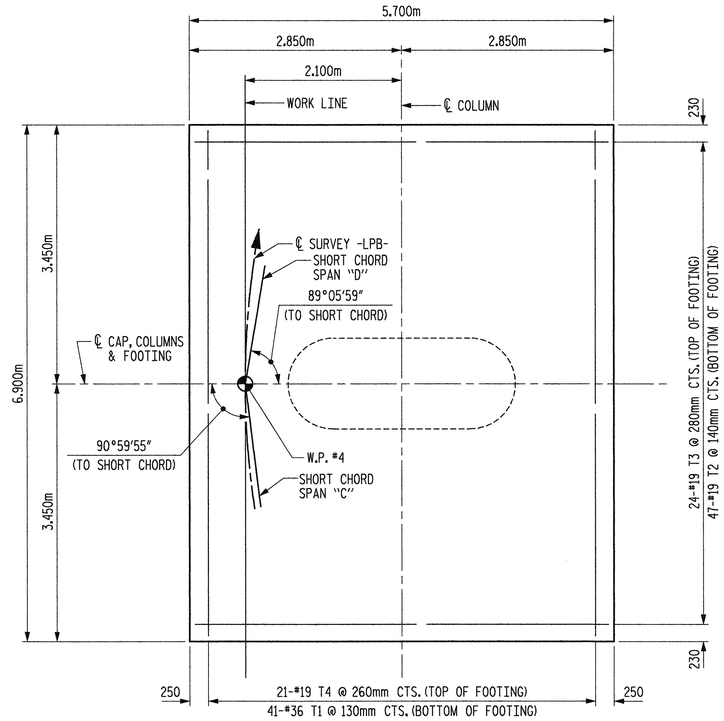
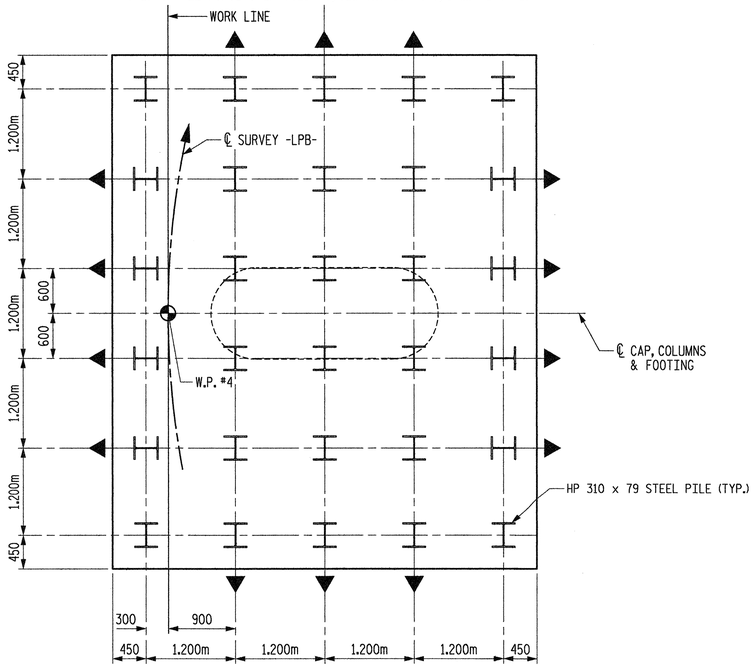


PLAN OF FOOTING

SHOWING REINFORCING BARS

NOTE: FOR REINFORCING IN COLUMNS, SEE SECTION C-C, SHEET 2 OF 3.



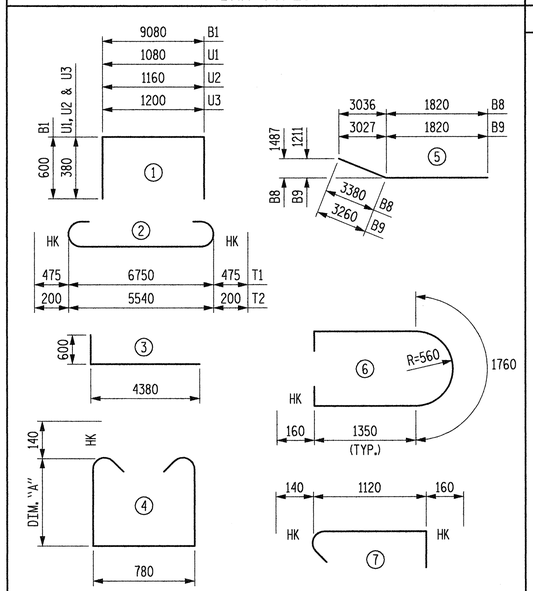
PLAN OF FOOTING

SHOWING PILES

NOTE: FOR DIMENSIONS NOT SHOWN, SEE PLAN OF FOOTING ABOVE.

▲ INDICATES DIRECTION OF 125:1000 BATTER.

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

BENT #3

BAR	NO.	SIZE	TYPE	DIM. "A"	LENGTH	WEIGHT
B1	12	36	1		10280	975
B2	6	25	STR		9100	217
B3	2	25	STR		8540	68
B4	2	25	STR		7280	58
B5	2	25	STR		6020	48
B6	2	25	STR		4760	38
B7	2	25	STR		3500	28
B8	4	19	5		5200	46
B9	4	19	5		5080	45
B10	28	13	STR		900	25
B11	8	13	STR		1200	10
M1	54	36	3		4980	2126
S1	2	16	4	1190	3440	11
S2	2	16	4	1260	3580	11
S3	2	16	4	1320	3700	11
S4	2	16	4	1380	3820	12
S5	2	16	4	1450	3960	12
S6	2	16	4	1510	4080	13
S7	2	16	4	1580	4220	13
S8	2	16	4	1640	4340	13
S9	2	16	4	1710	4480	14
S10	2	16	4	1770	4600	14
S11	2	16	4	1840	4740	15
S12	2	16	4	1900	4860	15
S13	2	16	4	1960	4980	15
S14	2	16	4	2060	5180	16
S15	2	16	4	2150	5360	17
S16	2	16	4	2240	5540	17
S17	2	16	4	2330	5720	18
S18	2	16	4	2420	5900	18
S19	2	16	4	2520	6100	19
S20	2	16	4	2520	6100	19
S21	2	16	4	2520	6100	19
S22	2	16	4	2510	6080	19
S23	2	16	4	2500	6060	19
S24	2	16	4	2490	6040	19
S25	2	16	4	2480	6020	19
S26	2	16	4	2470	6000	19
S27	2	16	4	2460	5980	19
S28	2	16	4	2450	5960	18
S29	2	16	4	2440	5940	18
S30	2	16	4	2430	5920	18
S31	2	16	4	2340	5740	18
S32	2	16	4	2260	5580	17
S33	2	16	4	2170	5400	17
S34	2	16	4	2080	5220	16
S35	2	16	4	2000	5060	16
S36	2	16	4	1910	4880	15
S37	2	16	4	1850	4760	15
S38	2	16	4	1790	4640	14
S39	2	16	4	1730	4520	14
S40	2	16	4	1670	4400	14
S41	2	16	4	1610	4280	13
S42	2	16	4	1550	4160	13
S43	2	16	4	1490	4040	13
S44	2	16	4	1430	3920	12
S45	2	16	4	1370	3800	12
S46	2	16	4	1310	3680	11
S47	2	16	4	1250	3560	11
S48	2	16	4	1190	3440	11
S49	46	16	6		4780	341
S50	69	16	7		1420	152
T1	41	36	2		7700	2496
T2	47	19	2		5940	624
T3	24	19	STR		5540	297
T4	21	19	STR		6740	316
U1	8	13	1		1840	15
U2	8	13	1		1920	15
U3	28	13	1		1960	55
V1	54	36	STR		8560	3655

REINFORCING STEEL 12382 kg

CLASS A CONCRETE BREAKDOWN

POUR #1 (FOOTING)	68.8 CU. METERS
POUR #2 (COLUMNS)	23.1 CU. METERS
POUR #3 (CAP)	25.8 CU. METERS
TOTAL CLASS A CONCRETE	117.7 CU. METERS

HP 310 x 79 STEEL PILES

NO. 30	315.0 LIN. METERS

PROJECT NO. R-2552AA

WAKE-JOHNSTON COUNTY

STATION: 27+51.601 -I1Y1-

SHEET 3 OF 3

METRIC

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
BENT #3

Plans prepared by:
KO & ASSOCIATES, P.C.
Consulting Engineers
1011 SCHAUB DR., SUITE #202
RALEIGH, N.C. 27606
For Division of Highways

NORTH CAROLINA PROFESSIONAL SEAL 5601 ENGINEER CHIH KUO KO 07/29/05

DWG. NO. 39

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-75
1			3			TOTAL SHEETS
2			4			47.9

DRAWN BY B.E. LANNING DATE JAN. 2005
CHECKED BY J.C. KO / A.K. ORR DATE JAN. 2005

PLOT: 01/28/2005 07:05:41 AM Ko & Associates, P.C.
FILE NAME: r:\r2552aa_sd_b3c_02.dgn