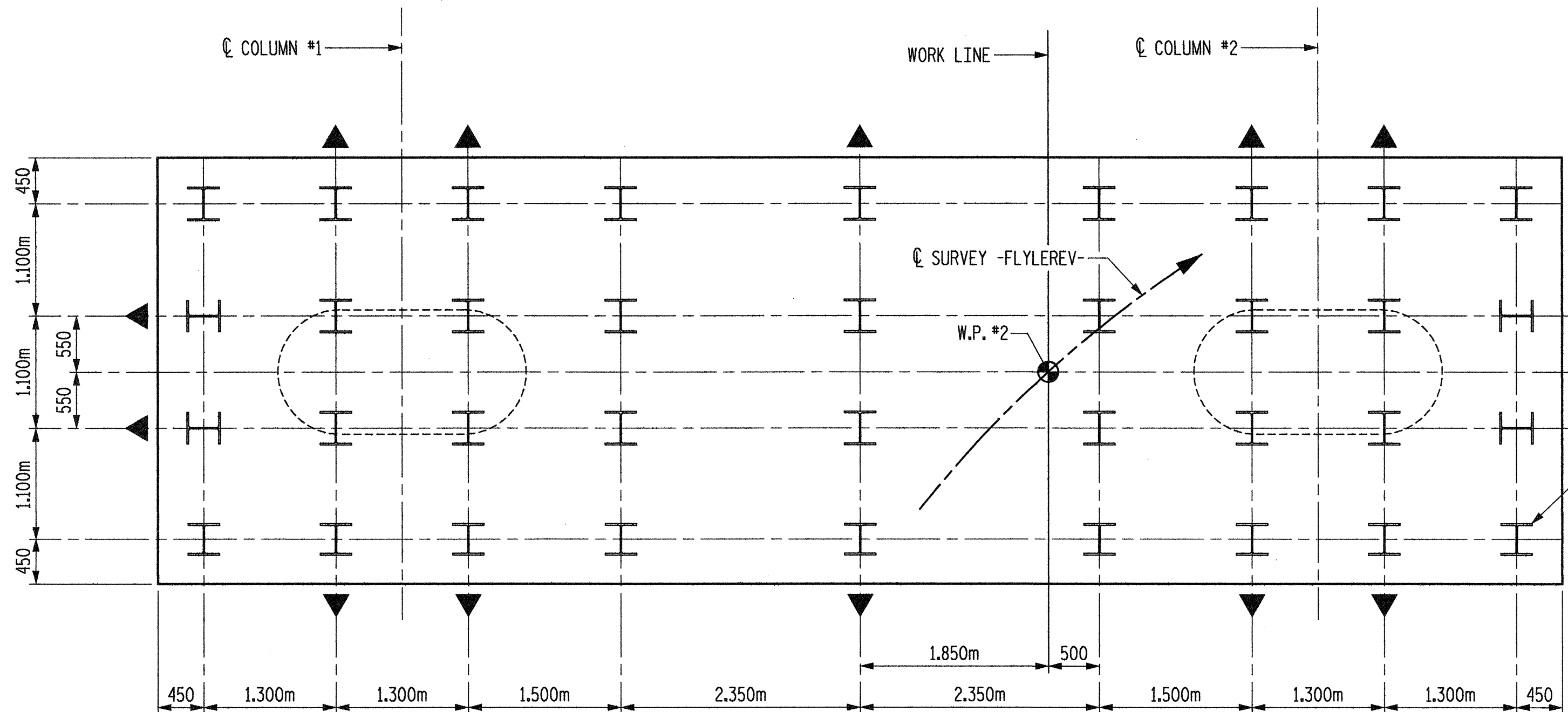


**PLAN OF FOOTING**

SHOWING REINFORCING BARS

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



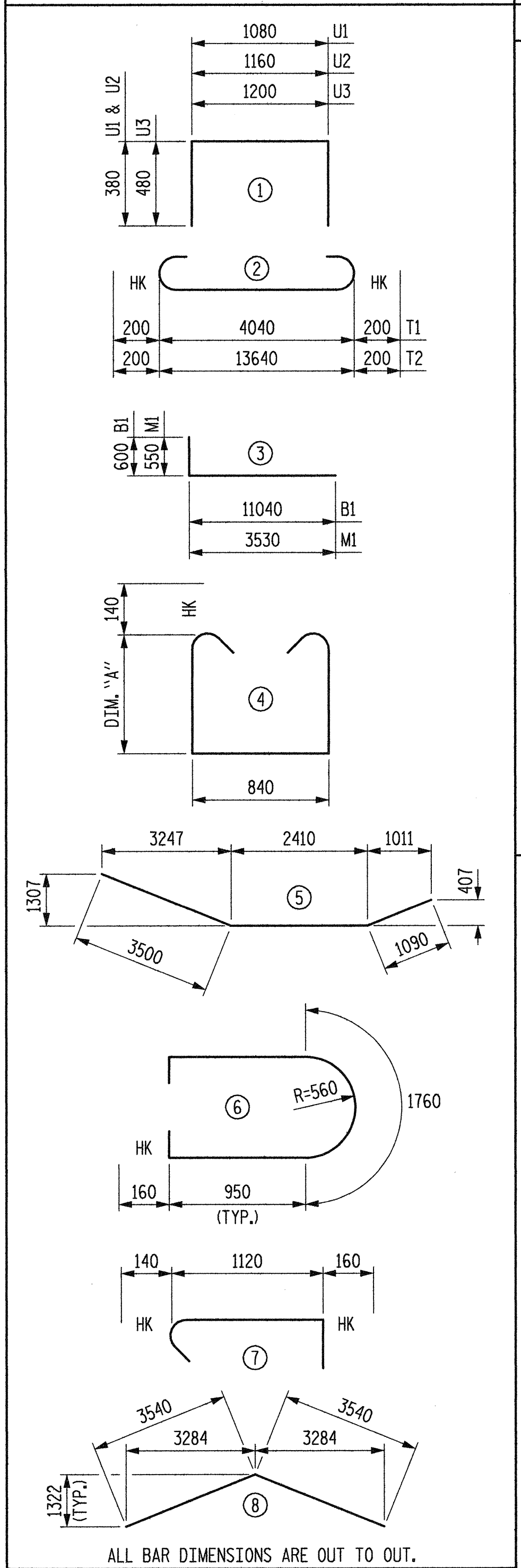
**PLAN OF FOOTING**

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.

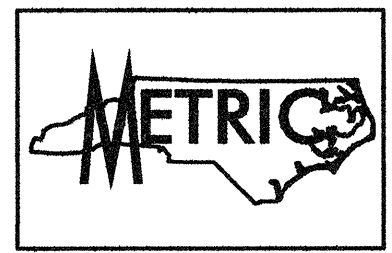
**BILL OF MATERIAL**

BENT #1												
BAR NO.	SIZE	TYPE	DIM. "A"	LENGTH	WEIGHT	BAR NO.	SIZE	TYPE	DIM. "A"	LENGTH	WEIGHT	
B1	14	36	3	11640	1289	S21	4	16	4	2420	5960	37
B2	6	36	STR	17900	849	S22	32	16	4	2440	6000	298
B3	6	25	STR	17900	427	S23	4	16	4	2420	5960	37
B4	4	25	STR	7840	125	S24	4	16	4	2380	5880	37
B5	4	25	STR	6340	101	S25	4	16	4	2340	5800	36
B6	4	25	STR	4860	77	S26	4	16	4	2300	5720	36
B7	4	25	STR	3360	53	S27	4	16	4	2260	5640	35
B8	12	25	5	7000	334	S28	4	16	4	2220	5560	35
B9	6	36	8	7080	336	S29	4	16	4	2180	5480	34
B10	15	13	STR	1200	18	S30	4	16	4	2140	5400	34
B11	28	13	STR	900	25	S31	4	16	4	2100	5320	33
						S32	4	16	4	2060	5240	33
M1	68	32	3	4080	1777	S33	4	16	4	2020	5160	32
						S34	4	16	4	1900	4920	31
S1	4	16	4	1210	3540	S35	4	16	4	1780	4680	29
S2	4	16	4	1260	3640	S36	4	16	4	1650	4420	27
S3	4	16	4	1310	3740	S37	4	16	4	1530	4180	26
S4	4	16	4	1360	3840	S38	4	16	4	1410	3940	24
S5	4	16	4	1400	3920	S39	4	16	4	1290	3700	23
S6	4	16	4	1450	4020	S40	4	16	4	1170	3460	21
S7	4	16	4	1500	4120	S41	52	16	6		3980	321
S8	4	16	4	1550	4220	S42	78	16	7		1420	172
S9	4	16	4	1600	4320							
S10	4	16	4	1650	4420	T1	91	19	2		4440	903
S11	4	16	4	1690	4500	T2	33	19	2		14040	1036
S12	4	16	4	1740	4600	T3	46	19	STR		4040	415
S13	4	16	4	1790	4700	T4	33	29	STR		13640	2278
S14	4	16	4	1840	4800							
S15	4	16	4	1890	4900	U1	8	13	1		1840	15
S16	4	16	4	1940	5000	U2	8	13	1		1920	15
S17	4	16	4	2030	5180	U3	28	13	1		2160	60
S18	4	16	4	2130	5380							
S19	4	16	4	2230	5580	V1	68	32	STR		5800	2526
S20	4	16	4	2320	5760							

REINFORCING STEEL	14610 kg
CLASS A CONCRETE BREAKDOWN	
POUR #1 (FOOTING)	84.0 CU. METERS
POUR #2 (COLUMNS)	19.7 CU. METERS
POUR #3 (CAP)	48.9 CU. METERS
TOTAL CLASS A CONCRETE	152.6 CU. METERS
HP 310 x 79 STEEL PILES NO. 36	342.0 LIN. METERS

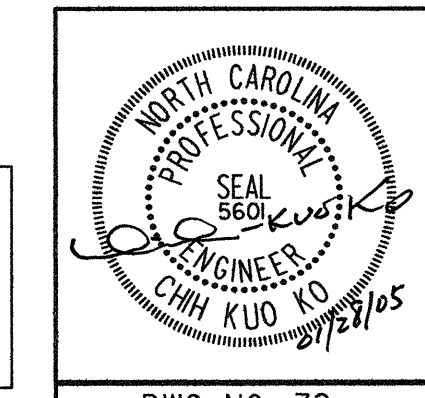
PROJECT NO. R-2552AA  
 WAKE-JOHNSTON COUNTY  
 STATION: 28+31.359 -I1Y1-

SHEET 3 OF 3



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SUBSTRUCTURE  
 BENT #1



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

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			5-122
2			4			429

DWG. NO. 39

PLT: 01/27/2005 09:30:05 PM Ko & Associates, P.C.  
 FILE NAME: r1y2552aa.sdbio.dwg

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