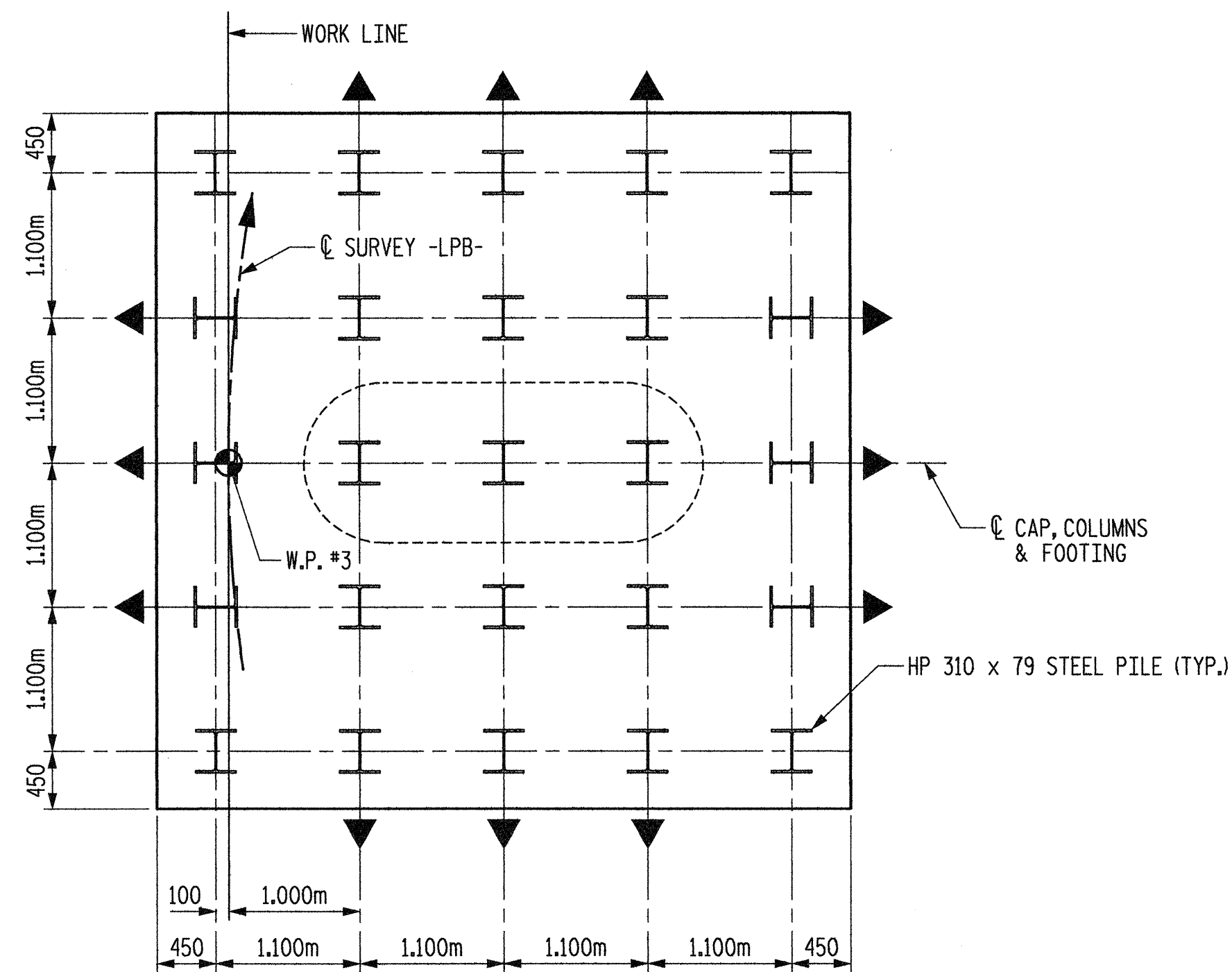


PLAN OF FOOTING
SHOWING REINFORCING BARS

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

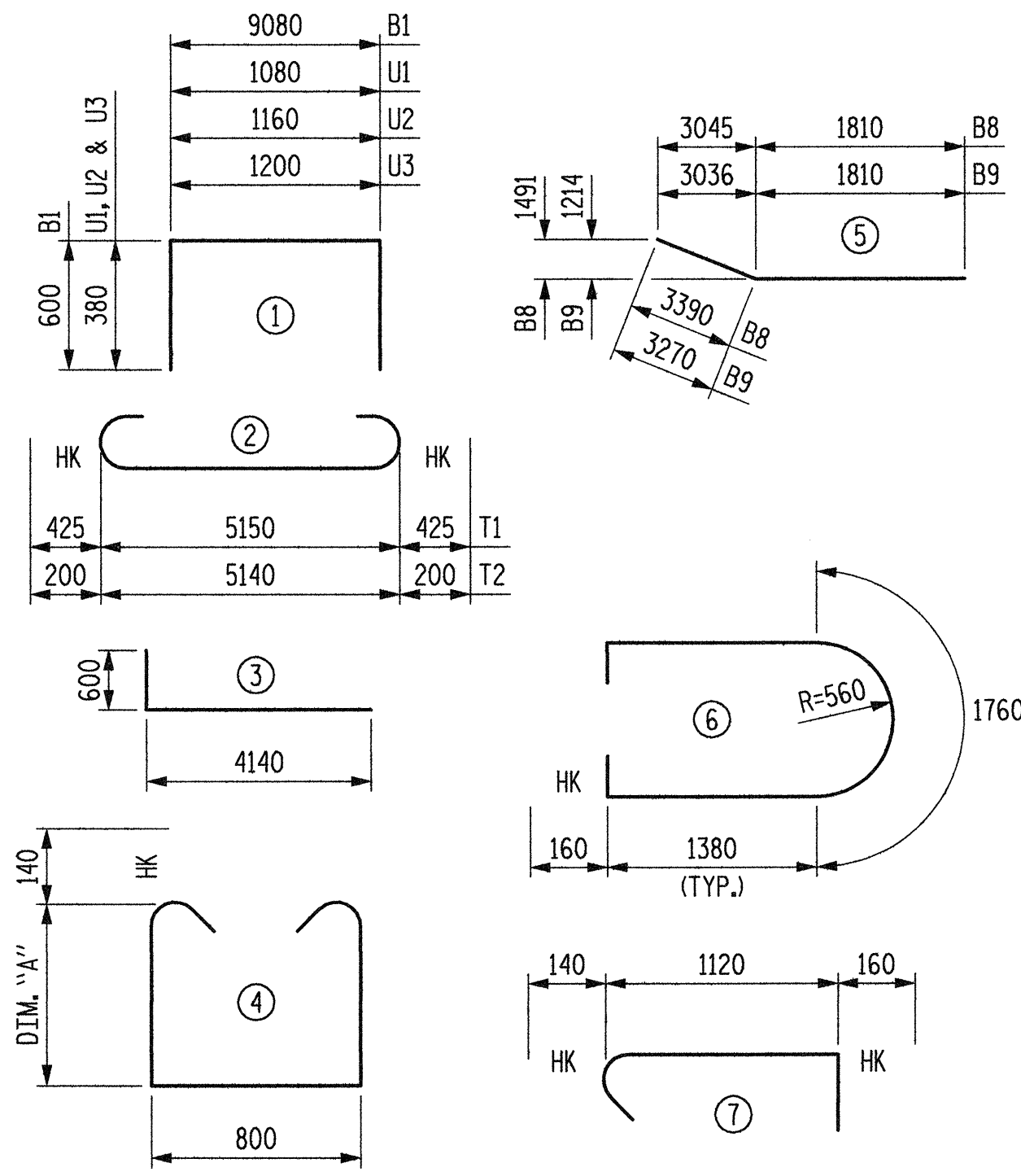


PLAN OF FOOTING
SHOWING PILES

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.

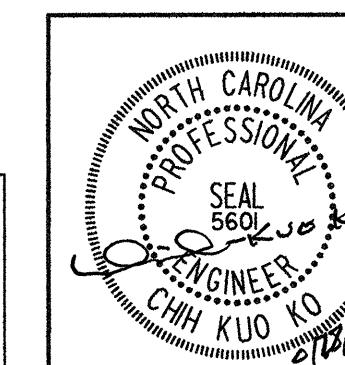
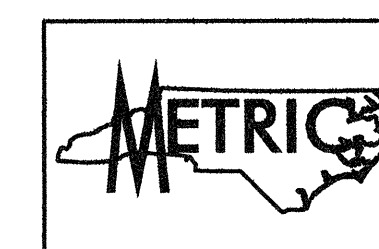
BILL OF MATERIAL

| BENT #2 | | | | | | | | | | | | | | |
|---------|------|------|----------|--------|--------|---------|------|------|----------|--------|--------|------|-----|--|
| BAR NO. | SIZE | TYPE | DIM. "A" | LENGTH | WEIGHT | BAR NO. | SIZE | TYPE | DIM. "A" | LENGTH | WEIGHT | | | |
| B1 | 11 | 36 | 1 | | 10280 | 894 | S21 | 2 | 16 | 4 | 2480 | 6040 | 19 | |
| B2 | 6 | 25 | STR | | 9100 | 217 | S22 | 2 | 16 | 4 | 2470 | 6020 | 19 | |
| B3 | 2 | 25 | STR | | 8640 | 69 | S23 | 2 | 16 | 4 | 2460 | 6000 | 19 | |
| B4 | 2 | 25 | STR | | 7380 | 59 | S24 | 2 | 16 | 4 | 2450 | 5980 | 19 | |
| B5 | 2 | 25 | STR | | 6100 | 48 | S25 | 2 | 16 | 4 | 2440 | 5960 | 18 | |
| B6 | 2 | 25 | STR | | 4840 | 38 | S26 | 2 | 16 | 4 | 2420 | 5920 | 18 | |
| B7 | 2 | 25 | STR | | 3580 | 28 | S27 | 2 | 16 | 4 | 2300 | 5680 | 18 | |
| B8 | 4 | 19 | 5 | | 5200 | 46 | S28 | 2 | 16 | 4 | 2180 | 5440 | 17 | |
| B9 | 4 | 19 | 5 | | 5080 | 45 | S29 | 2 | 16 | 4 | 2060 | 5200 | 16 | |
| B10 | 28 | 13 | STR | | 900 | 25 | S30 | 2 | 16 | 4 | 1940 | 4960 | 15 | |
| M1 | 34 | 36 | 3 | | 5280 | 1419 | S31 | 2 | 16 | 4 | 1870 | 4820 | 15 | |
| S1 | 2 | 16 | 4 | 1210 | 3500 | | S32 | 2 | 16 | 4 | 1800 | 4680 | 15 | |
| S2 | 2 | 16 | 4 | 1290 | 3660 | | S33 | 2 | 16 | 4 | 1720 | 4520 | 14 | |
| S3 | 2 | 16 | 4 | 1370 | 3820 | | S34 | 2 | 16 | 4 | 1650 | 4380 | 14 | |
| S4 | 2 | 16 | 4 | 1450 | 3980 | | S35 | 2 | 16 | 4 | 1580 | 4240 | 13 | |
| S5 | 2 | 16 | 4 | 1530 | 4140 | | S36 | 2 | 16 | 4 | 1500 | 4080 | 13 | |
| S6 | 2 | 16 | 4 | 1610 | 4300 | | S37 | 2 | 16 | 4 | 1430 | 3940 | 12 | |
| S7 | 2 | 16 | 4 | 1680 | 4440 | | S38 | 2 | 16 | 4 | 1360 | 3800 | 12 | |
| S8 | 2 | 16 | 4 | 1760 | 4600 | | S39 | 2 | 16 | 4 | 1280 | 3640 | 11 | |
| S9 | 2 | 16 | 4 | 1840 | 4760 | | S40 | 2 | 16 | 4 | 1210 | 3500 | 11 | |
| S10 | 2 | 16 | 4 | 1920 | 4920 | | S41 | 44 | 16 | 6 | 4840 | 4840 | 331 | |
| S11 | 2 | 16 | 4 | 2000 | 5080 | | S42 | 66 | 16 | 7 | 1420 | 1420 | 145 | |
| S12 | 2 | 16 | 4 | 2130 | 5340 | | T1 | 37 | 32 | 2 | 6000 | 1422 | | |
| S13 | 2 | 16 | 4 | 2250 | 5580 | | T2 | 37 | 19 | 2 | 5540 | 458 | | |
| S14 | 2 | 16 | 4 | 2380 | 5840 | | T3 | 38 | 19 | STR | 5140 | 437 | | |
| S15 | 2 | 16 | 4 | 2510 | 6100 | | U1 | 8 | 13 | 1 | 1840 | 15 | | |
| S16 | 2 | 16 | 4 | 2520 | 6120 | | U2 | 8 | 13 | 1 | 1920 | 15 | | |
| S17 | 2 | 16 | 4 | 2520 | 6120 | | U3 | 28 | 13 | 1 | 1960 | 55 | | |
| S18 | 2 | 16 | 4 | 2510 | 6100 | | V1 | 34 | 36 | STR | 8160 | 2194 | | |
| S19 | 2 | 16 | 4 | 2500 | 6080 | | | | | | | | | |
| S20 | 2 | 16 | 4 | 2490 | 6060 | | | | | | | | | |

| | |
|-----------------------------------|-------------------|
| REINFORCING STEEL | 8435 kg |
| CLASS A CONCRETE BREAKDOWN | |
| POUR #1 (FOOTING) | 42.7 CU. METERS |
| POUR #2 (COLUMNS) | 21.8 CU. METERS |
| POUR #3 (CAP) | 25.8 CU. METERS |
| TOTAL CLASS A CONCRETE | 90.3 CU. METERS |
| HP 310 x 79 STEEL PILES NO. 25 | 250.0 LIN. METERS |

PROJECT NO. R-2552AA
WAKE-JOHNSTON COUNTY
 STATION: 27+51.601 -I1Y1-

SHEET 3 OF 3



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUBSTRUCTURE
 BENT #2

Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 1011 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 | | | 5-72 |
| 2 | | | 4 | | | 479 |

DWG. NO. 36

PLOT: 01/29/2005 07:54:51 AM Ko & Associates, P.C.
 FILE NAME: r:\2552aa\ad.bco_02.dgn

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