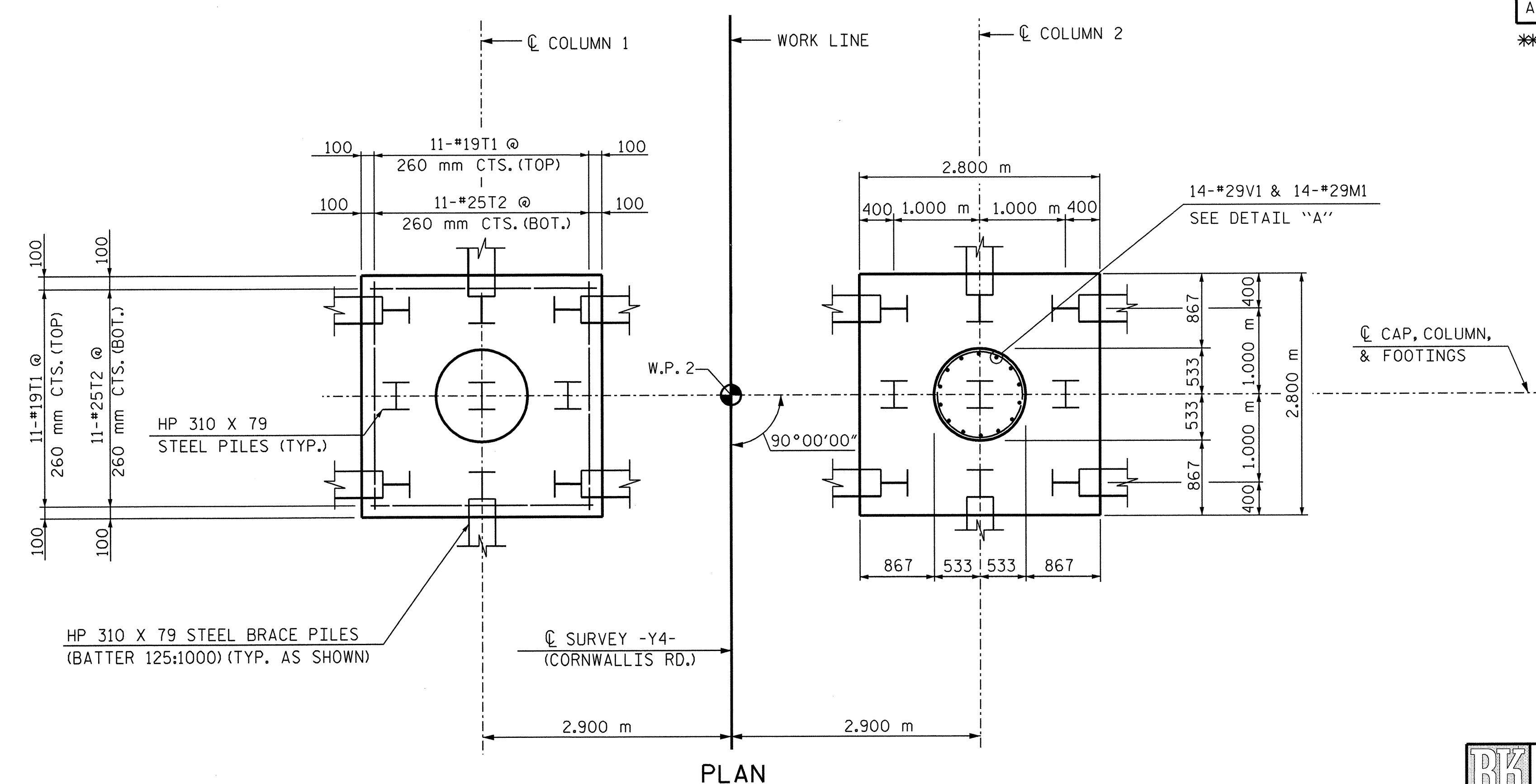


| BAR TYPES   |     | BILL OF MATERIAL  |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
|---|-----|---|------|---------|--------|------|--------|--------|----|---|-----|------|------|-----|----|----|-----|------|------|-----|----|---|-----|---|------|-----|----|----|-----|---|------|-----|----|----|-----|---|------|-----|----|---|-----|---|------|----|----|---|-----|---|------|----|----|----|-----|---|------|----|----|----|-----|------|------|-----|----|----|-----|------|------|-----|----|----|-----|---|------|-----|-----|---|----|---|---------|-----|--|
|   |     | <b>BENT 1</b>   |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
|   |     | <table border="1"> <thead> <tr> <th>BAR</th> <th>NO.</th> <th>SIZE</th> <th>TYPE</th> <th>LENGTH</th> <th>WEIGHT</th> </tr> </thead> <tbody> <tr><td>B1</td><td>6</td><td>#32</td><td>STR.</td><td>9100</td><td>350</td></tr> <tr><td>B2</td><td>10</td><td>#16</td><td>STR.</td><td>9100</td><td>141</td></tr> <tr><td>B3</td><td>6</td><td>#32</td><td>1</td><td>9940</td><td>382</td></tr> <tr><td>M1</td><td>28</td><td>#29</td><td>2</td><td>2760</td><td>391</td></tr> <tr><td>S1</td><td>70</td><td>#16</td><td>4</td><td>3520</td><td>382</td></tr> <tr><td>S2</td><td>8</td><td>#13</td><td>3</td><td>1420</td><td>11</td></tr> <tr><td>S3</td><td>6</td><td>#13</td><td>3</td><td>1600</td><td>10</td></tr> <tr><td>S4</td><td>20</td><td>#13</td><td>3</td><td>2020</td><td>40</td></tr> <tr><td>T1</td><td>44</td><td>#19</td><td>STR.</td><td>2640</td><td>260</td></tr> <tr><td>T2</td><td>44</td><td>#25</td><td>STR.</td><td>2640</td><td>462</td></tr> <tr><td>V1</td><td>28</td><td>#29</td><td>2</td><td>6800</td><td>963</td></tr> <tr><td>SP1</td><td>2</td><td>**</td><td>5</td><td>245,580</td><td>488</td></tr> </tbody> </table> | BAR  | NO.     | SIZE   | TYPE | LENGTH | WEIGHT | B1 | 6 | #32 | STR. | 9100 | 350 | B2 | 10 | #16 | STR. | 9100 | 141 | B3 | 6 | #32 | 1 | 9940 | 382 | M1 | 28 | #29 | 2 | 2760 | 391 | S1 | 70 | #16 | 4 | 3520 | 382 | S2 | 8 | #13 | 3 | 1420 | 11 | S3 | 6 | #13 | 3 | 1600 | 10 | S4 | 20 | #13 | 3 | 2020 | 40 | T1 | 44 | #19 | STR. | 2640 | 260 | T2 | 44 | #25 | STR. | 2640 | 462 | V1 | 28 | #29 | 2 | 6800 | 963 | SP1 | 2 | ** | 5 | 245,580 | 488 |  |
| BAR   | NO. | SIZE  | TYPE | LENGTH  | WEIGHT |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| B1  | 6   | #32   | STR. | 9100    | 350    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| B2  | 10  | #16   | STR. | 9100    | 141    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| B3  | 6   | #32   | 1    | 9940    | 382    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| M1  | 28  | #29   | 2    | 2760    | 391    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| S1  | 70  | #16   | 4    | 3520    | 382    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| S2  | 8   | #13   | 3    | 1420    | 11     |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| S3  | 6   | #13   | 3    | 1600    | 10     |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| S4  | 20  | #13   | 3    | 2020    | 40     |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| T1  | 44  | #19   | STR. | 2640    | 260    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| T2  | 44  | #25   | STR. | 2640    | 462    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| V1  | 28  | #29   | 2    | 6800    | 963    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| SP1   | 2   | **  | 5    | 245,580 | 488    |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
|   |     |   |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
|   |     |   |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
|   |     |   |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| ALL DIMENSIONS ARE OUT TO OUT.  |     |   |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
| * THE "SP" SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #13 PLAIN OR DEFORMED BAR |     |   |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
|   |     | REINFORCING STEEL 3,392 kg<br>SPIRAL COLUMN REINFORCING STEEL 488 kg<br>CLASS A CONCRETE<br>POUR 1 (FOOTINGS) 18.8 m <sup>3</sup><br>POUR 2 (COLUMNS) 10.4 m <sup>3</sup><br>POUR 3 (CAP) 13.5 m <sup>3</sup><br>TOTAL 42.7 m <sup>3</sup>  |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |
|   |     | HP 310 x 79 STEEL PILES<br>NO. 18 62.0 METER<br>FOUNDATION EXCAVATION LUMP SUM  |      |         |        |      |        |        |    |   |     |      |      |     |    |    |     |      |      |     |    |   |     |   |      |     |    |    |     |   |      |     |    |    |     |   |      |     |    |   |     |   |      |    |    |   |     |   |      |    |    |    |     |   |      |    |    |    |     |      |      |     |    |    |     |      |      |     |    |    |     |   |      |     |     |   |    |   |         |     |  |



PROJECT NO. R-2552AA  
 WAKE / JOHNSTON COUNTY  
 STATION: 27+61.028 -L- P.O.T.

SHEET 2 OF 2

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

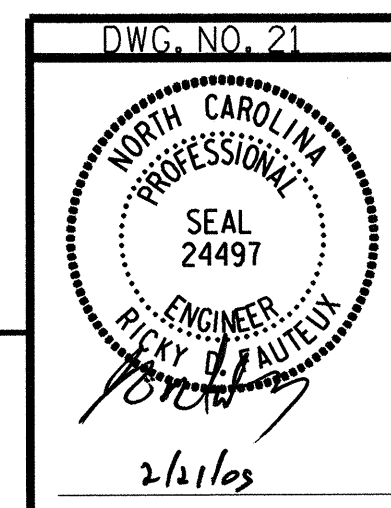
SUBSTRUCTURE  
 BENT 1  
 DETAILS

JANUARY 2005

| REVISIONS |       | SHEET NO. |       |
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TOTAL SHEETS 429

**RUMMEL, KLEPPER & KAHL, LLP**  
 consulting engineers  
 5800 FARINSON PLACE - SUITE 105  
 RALEIGH, NORTH CAROLINA 27609-3960



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DRAWN BY: B. PARRISH DATE: 01/05  
 CHECKED BY: R. D. FAUTEUX DATE: 01/05

PLAN  
 (DATA SHOWN TYPICAL FOR ALL FOOTINGS)