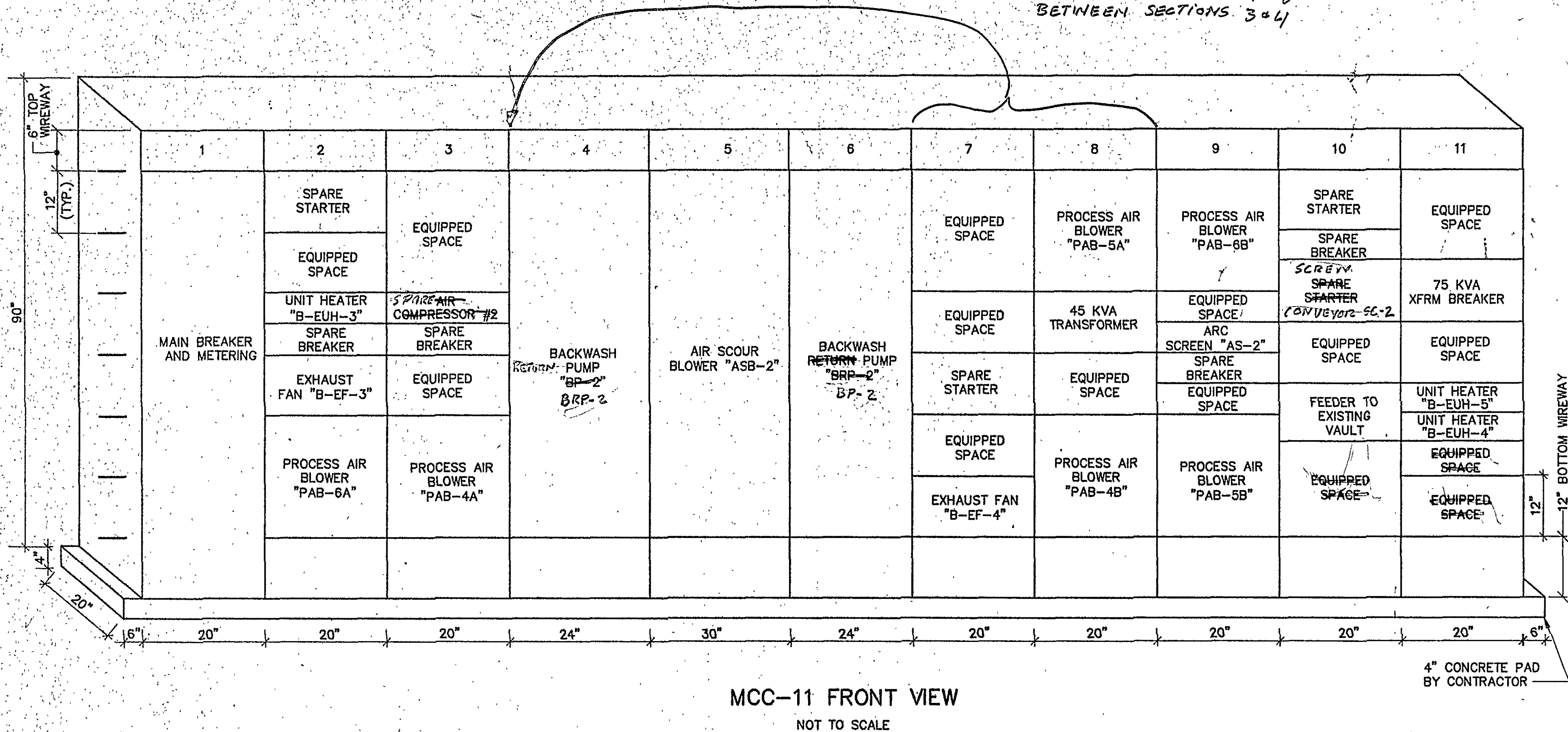
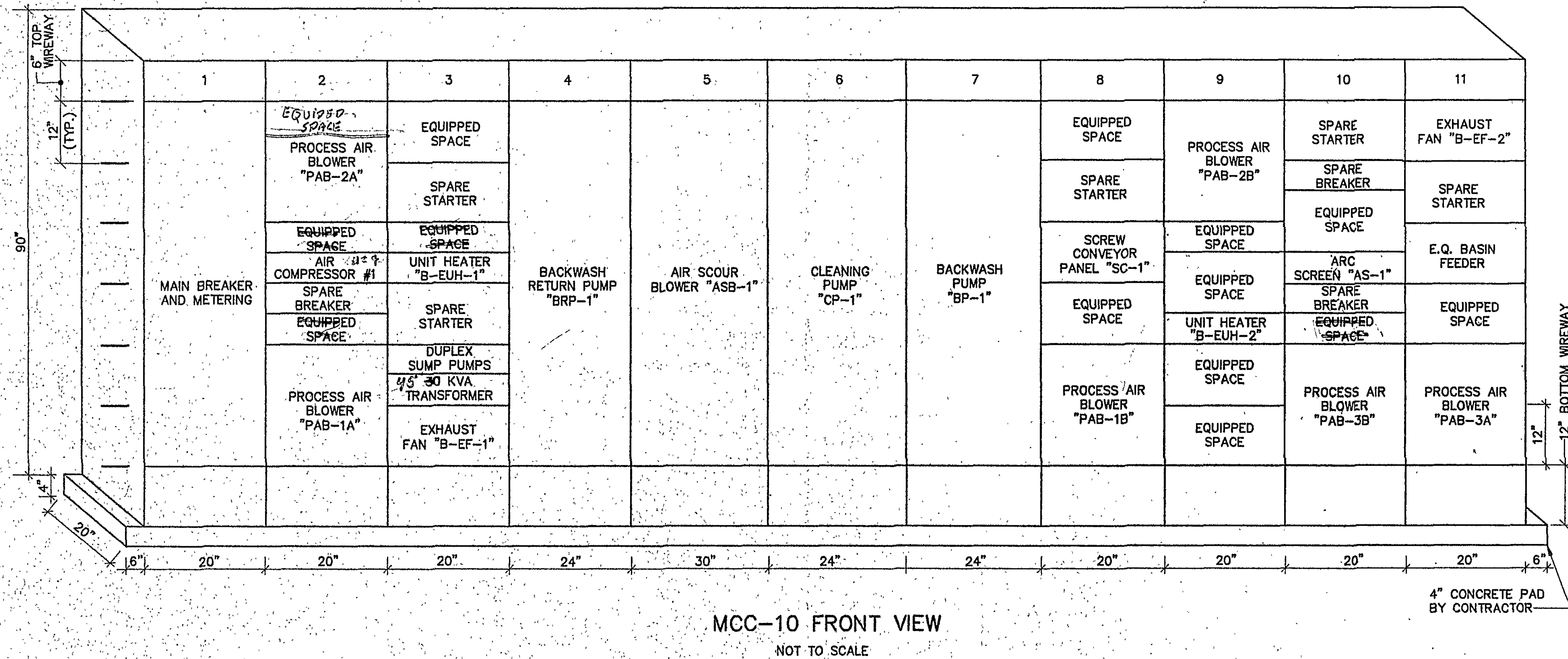


RELOCATE SECTIONS 7 & 8  
BETWEEN SECTIONS 3 & 4



| CKT NO.                                                                     | TRIP AMPS | DESCRIPTION OF LOAD         | LOAD KVA                  | KVA PER PHASE |   |   | LOAD KVA                                                                                                                             | DESCRIPTION OF LOAD       | TRIP AMPS | CKT NO. |
|-----------------------------------------------------------------------------|-----------|-----------------------------|---------------------------|---------------|---|---|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|---------|
|                                                                             |           |                             |                           | A             | B | C |                                                                                                                                      |                           |           |         |
| 1                                                                           | 20        | SEE NOTE 1 G.F.C.I. IN COMP | -                         | -             | - | - | -                                                                                                                                    | SEE NOTE 1 COMPRESSOR FAN | 20        | 2       |
| 3                                                                           | 20        | PAB 105-B-FAN               | -                         | -             | - | - | -                                                                                                                                    | PAB 103-B-FAN             | 20        | 4       |
| 5                                                                           | 20        | PAB 101-B-FAN               | -                         | -             | - | - | -                                                                                                                                    | PAB 102-B-FAN             | 20        | 6       |
| 7                                                                           | 20        | PAB 104-B-FAN               | -                         | -             | - | - | -                                                                                                                                    | PAB 106-B-FAN             | 20        | 8       |
| 9                                                                           | 20        | PAB 105-A-FAN               | -                         | -             | - | - | -                                                                                                                                    | PAB 103-A-FAN             | 20        | 10      |
| 11                                                                          | 20        | PAB 101-A-FAN               | -                         | -             | - | - | -                                                                                                                                    | PAB 102-A-FAN             | 20        | 12      |
| 13                                                                          | 20        | PAB 104-A-FAN               | -                         | -             | - | - | -                                                                                                                                    | PAB 106-A-FAN             | 20        | 14      |
| 15                                                                          | 20        | ASB 207C-2-FAN              | -                         | -             | - | - | -                                                                                                                                    | ASB 207C-FAN              | 20        | 16      |
| 17                                                                          | 20        | FLOW METER                  | -                         | -             | - | - | -                                                                                                                                    |                           | 20        | 18      |
| 19                                                                          | 20        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 20        | 20      |
| 21                                                                          | 30        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 30        | 22      |
| 23                                                                          | 30        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 30        | 24      |
| 25                                                                          | 30        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 30        | 26      |
| 27                                                                          | 2P        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 2P        | 28      |
| 29                                                                          | 20        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 30        | 30      |
| 31                                                                          | 2P        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 2P        | 32      |
| 33                                                                          | 20        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 30        | 34      |
| 35                                                                          | 15        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 20        | 36      |
| 37                                                                          | 15        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 20        | 38      |
| 39                                                                          | 15        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 20        | 40      |
| 41                                                                          | 15        |                             | -                         | -             | - | - | -                                                                                                                                    |                           | 20        | 42      |
| LIGHTING PANEL: LP-1<br>LOCATION: ELECTRICAL ROOM<br>BUILDING: BAF BUILDING |           |                             | TOTAL KVA                 | -             | - | - | SERVICE CHARACTERISTICS:<br>120/208 VOLT - 3 PHASE - 4 WIRE - 60 Hz<br>PROVIDE 150AF/150AT MAIN BREAKER & SOLID NEUTRAL & GROUND BUS |                           |           |         |
|                                                                             |           |                             | GRAND CONNECTED TOTAL KVA |               |   |   |                                                                                                                                      |                           |           |         |

\* CONTRACTOR SHALL PROVIDE AND INSTALL LIGHTING PANEL "LP-1" (RATINGS OF PANELBOARD, MAIN AND BRANCH BREAKERS AS SHOWN). PROVIDE CONDUIT AND WIRES (SIZE AS SHOWN ON SHEET E-8) FOR FEEDER TO PANEL LP-1 AND CONNECT. SEE BAF MANUFACTURER'S SHOP DRAWINGS FOR SCOPE OF EQUIPMENT, CONDUIT AND WIRES TO BE PROVIDED BY BAF MANUFACTURER.

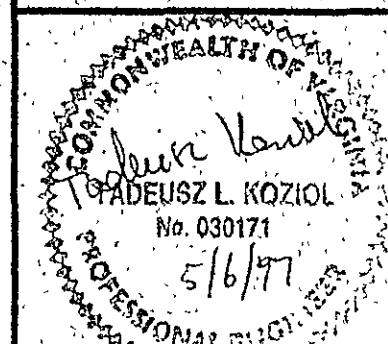


| CKT NO.                                                                     | TRIP AMPS | DESCRIPTION OF LOAD             | LOAD KVA                  | KVA PER PHASE |      |      | LOAD KVA                                                                                                                             | DESCRIPTION OF LOAD          | TRIP AMPS | CKT NO. |
|-----------------------------------------------------------------------------|-----------|---------------------------------|---------------------------|---------------|------|------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|---------|
|                                                                             |           |                                 |                           | A             | B    | C    |                                                                                                                                      |                              |           |         |
| 1                                                                           | 20        | CONTROL ROOM LIGHTING           | 1.20                      | 1.74          | -    | -    | 0.54                                                                                                                                 | CONTROL ROOM RECEPTACLES     | 20        | 2       |
| 3                                                                           | 20        | CNTRL RM OUTDOOR/STAIR LIGHTING | 0.79                      | -             | 1.33 | -    | 0.54                                                                                                                                 | CONTROL ROOM RECEPTACLES     | 20        | 4       |
| 5                                                                           | 20        | OUTDOOR WALKWAY LIGHTING        | 0.60                      | -             | -    | 0.96 | 0.36                                                                                                                                 | OUTDOOR WALKWAY RECEPTACLES  | 20        | 6       |
| 7                                                                           | 20        | OUTDOOR WALKWAY RECEPTACLES     | 0.72                      | 0.96          | -    | -    | 0.24                                                                                                                                 | OUTDOOR WALKWAY LIGHTING     | 20        | 8       |
| 9                                                                           | 20        | EQUIPMENT ROOM LIGHTING         | 1.40                      | -             | 2.12 | -    | 0.72                                                                                                                                 | EQUIPMENT ROOM RECEPTACLES   | 20        | 10      |
| 11                                                                          | 20        | EQUIPMENT ROOM LIGHTING         | 1.60                      | -             | -    | 2.14 | 0.54                                                                                                                                 | EQUIPMENT ROOM RECEPTACLES   | 20        | 12      |
| 13                                                                          | 20        | GALLERY LIGHTING                | 0.49                      | 0.49          | -    | -    | -                                                                                                                                    | SPARE                        | 20        | 14      |
| 15                                                                          | 20        | GALLERY LIGHTING                | 0.80                      | -             | 1.90 | -    | 1.10                                                                                                                                 | GALLERY LIGHTING             | 20        | 16      |
| 17                                                                          | 20        | GALLERY RECEPTACLES             | 0.36                      | -             | -    | 0.72 | 0.36                                                                                                                                 | GALLERY RECEPTACLES          | 20        | 18      |
| 19                                                                          | 20        | COMPUTER CONSOLE                | 0.50                      | 0.50          | -    | -    | -                                                                                                                                    | SPARE                        | 20        | 20      |
| 21                                                                          | 20        | ATC-1 POWER                     | 1.00                      | -             | 1.75 | -    | 0.75                                                                                                                                 | ELECTRIC UNIT HEATER B-EUH-6 | 2P        | 22      |
| 23                                                                          | 20        | CONTROL PANEL POWER             | 1.00                      | -             | -    | 1.75 | 0.75                                                                                                                                 |                              | 20        | 24      |
| 25                                                                          | 20        | CONTROL PANEL POWER             | 1.00                      | 1.00          | -    | -    | -                                                                                                                                    | SPARE                        | 20        | 26      |
| 27                                                                          | 20        | CONTROL PANEL POWER             | 1.00                      | -             | 1.00 | -    | -                                                                                                                                    | SPARE                        | 20        | 28      |
| 29                                                                          | 20        | SPARE                           | -                         | -             | -    | -    | -                                                                                                                                    | SPARE                        | 20        | 30      |
| 31                                                                          | 20        | SPARE                           | -                         | -             | -    | -    | -                                                                                                                                    | SPARE                        | 20        | 32      |
| 33                                                                          | 30        | SPARE                           | -                         | -             | -    | -    | -                                                                                                                                    | SPARE                        | 30        | 34      |
| 35                                                                          | 2P        | SPARE                           | -                         | -             | -    | -    | -                                                                                                                                    | SPARE                        | 2P        | 36      |
| 37                                                                          | 20        | SPARE                           | -                         | -             | -    | -    | -                                                                                                                                    | SPARE                        | 20        | 38      |
| 39                                                                          | 2P        | SPARE                           | -                         | -             | -    | -    | -                                                                                                                                    | SPARE                        | 2P        | 40      |
| 41                                                                          | 30        | SPARE                           | -                         | -             | -    | -    | -                                                                                                                                    | SPARE                        | 20        | 42      |
| LIGHTING PANEL: LP-2<br>LOCATION: ELECTRICAL ROOM<br>BUILDING: BAF BUILDING |           |                                 | TOTAL KVA                 | 5.75          | 8.10 | 5.57 | SERVICE CHARACTERISTICS:<br>120/208 VOLT - 3 PHASE - 4 WIRE - 60 Hz<br>PROVIDE 150AF/150AT MAIN BREAKER & SOLID NEUTRAL & GROUND BUS |                              |           |         |
|                                                                             |           |                                 | GRAND CONNECTED TOTAL KVA | 19.36         |      |      |                                                                                                                                      |                              |           |         |

NOTES:  
1. CONTRACTOR SHALL COORDINATE WITH BAF MANUFACTURER FOR LP-1 BRANCH CIRCUIT REQUIREMENTS AND PROVIDE A PANEL DIRECTORY.

RECORD DRAWINGS

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**MALCOLM  
PIRNIÉ**  
11892 Rock Landing Drive, Suite 400  
Newport News, Virginia 23606

| REVISIONS |    |      |         | DES | DWN | CHK |
|-----------|----|------|---------|-----|-----|-----|
| NO.       | BY | DATE | REMARKS |     |     |     |
|           |    |      |         | GJM | GJM | TK  |
|           |    |      |         |     |     |     |
|           |    |      |         |     |     |     |
|           |    |      |         |     |     |     |



CITY OF ROANOKE, VIRGINIA  
WATER POLLUTION  
CONTROL PLANT  
UPGRADE AND EXPANSION

BIOLOGICAL AERATED FILTER  
PANEL SCHEDULES AND  
MCC FRONT VIEWS  
SCALE: NONE

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