

**NAME: 3-3-MSB-1-PNL-1**  
 LOCATION: ELEC. ROOM 1-180  
 MOUNTING: SURFACE  
 MAINS RATING: 125 A  
 MANS TYPE: MCS  
 FEED THROUGH LUOS: No

| #   | CIRCUIT DESCRIPTION    | CONDUIT & WIRE | WIRE: 4 |      |     | P   | T    | LC   | CONDUIT & WIRE       | CIRCUIT DESCRIPTION | # |
|---|------------------------|----------------|---------|------|-----|-----|------|------|----------------------|---------------------|---|
|   |                        |                | A       | B    | C   |     |      |      |                      |                     |   |
| 1   | 1 LG DH 3 MESH GALLERY | 20 A 1         | 0.72    | 0.76 |     | 1   | 20 A |      | 1 LG CORRIDOR DH 3   | 2                   |   |
| 3   | 1 LG ELEC ROOM DH 3    | 20 A 1         |         | 1.42 | 3.1 | 1   | 20 A |      | EM LG ELEC ROOM DH 3 | 4                   |   |
| 5   | 1 LG DH 3 ZONE C       | 20 A 1         |         |      |     | 1   | 20 A |      | 1 LG DH 3 ZONE C     | 6                   |   |
| 7   | 1 LG DH 3 ZONE E       | 20 A 1         | 2.5     |      | 1.7 | 2.5 | 1    | 20 A | 1 LG DH 3 ZONE E     | 8                   |   |
| 9   |                        |                |         |      |     |     |      |      |                      | 10                  |   |
| 11  |                        |                |         |      |     |     |      |      |                      | 12                  |   |
| 13  |                        |                |         |      |     |     |      |      |                      | 14                  |   |
| 15  |                        |                |         |      |     |     |      |      |                      | 16                  |   |
| 17  |                        |                |         |      |     |     |      |      |                      | 18                  |   |
| 19  |                        |                |         |      |     |     |      |      |                      | 20                  |   |
| 21  |                        |                |         |      |     |     |      |      |                      | 22                  |   |
| 23  |                        |                |         |      |     |     |      |      |                      | 24                  |   |
| 25  |                        |                |         |      |     |     |      |      |                      | 26                  |   |
| 27  |                        |                |         |      |     |     |      |      |                      | 28                  |   |
| 29  |                        |                |         |      |     |     |      |      |                      | 30                  |   |
| 31  |                        |                |         |      |     |     |      |      |                      | 32                  |   |
| 33  |                        |                |         |      |     |     |      |      |                      | 34                  |   |
| 35  |                        |                |         |      |     |     |      |      |                      | 36                  |   |
| 37  |                        |                |         |      |     |     |      |      |                      | 38                  |   |
| 39  |                        |                |         |      |     |     |      |      |                      | 40                  |   |
| 41  |                        |                |         |      |     |     |      |      |                      | 42                  |   |
| BRANCH CIRCUIT LOAD (KVA)<br>FEED THROUGH LUOS LOAD:<br>TOTAL PANEL LOAD (KVA): 3.98 KVA 4.42 KVA 4.3 KVA<br>TOTAL LOAD (AMPS): 18.0 A 19.1 A 15.3 A<br>PHASE LOAD BALANCE: 85.5% |                        |                |         |      |     |     |      |      |                      |                     |   |

| LOAD CLASSIFICATION | CONNECTED LOAD | ESTIMATED DEMAND | PANEL TOTALS                      |
|---------------------|----------------|------------------|-----------------------------------|
| Lighting            | 11.76 KVA      | 14.7 KVA         | TOTAL CONNECTED LOAD (AMPS): 19 A |
| Other               | 0.76 KVA       | 0.76 KVA         | TOTAL CODE LOAD (AMPS): 19 A      |
|                     |                |                  | PERCENT LOADED: 14.82%            |
| TOTAL KVA           |                | 12.47 KVA        | 15.4 KVA                          |

LOAD CLASSIFICATION (L) LEGEND  
 R- RECEPTACLE, L- LIGHTING, K- KITCHEN, M- MOTORSHVAC, H- HEATERS, O- OTHER, E- EXISTING, C- CSNRM/R LOADS

**NAME: A-1-INV-3-PNL-3-1**  
 LOCATION: ELEC. ROOM 1-182  
 MOUNTING: SURFACE  
 MAINS RATING: 100 A  
 MANS TYPE: MLO  
 FEED THROUGH LUOS: No

| #   | CIRCUIT DESCRIPTION     | CONDUIT & WIRE | WIRE: 4 |      |      | P   | T    | LC   | CONDUIT & WIRE       | CIRCUIT DESCRIPTION | # |
|---|-------------------------|----------------|---------|------|------|-----|------|------|----------------------|---------------------|---|
|   |                         |                | A       | B    | C    |     |      |      |                      |                     |   |
| 1   | EM LG DH 3 MESH GALLERY | 20 A 1         | 0.45    | 1.07 |      | 1   | 20 A |      | EM LG CORRIDOR DH 3  | 2                   |   |
| 3   | EM LG ELEC ROOM DH 3    | 20 A 1         |         | 0.5  | 1.32 | 1   | 20 A |      | EM LG ELEC ROOM DH 3 | 4                   |   |
| 5   | EM LG DH 3 ZONE C       | 20 A 1         |         |      | 1.1  | 1.1 | 1    | 20 A | EM LG DH 3 ZONE C    | 6                   |   |
| 7   | EM LG DH 3 ZONE E       | 20 A 1         | 1.1     |      |      |     | 1    | 20 A | EM LG DH 3 ZONE E    | 8                   |   |
| 9   |                         |                |         |      |      |     |      |      |                      | 10                  |   |
| 11  |                         |                |         |      |      |     |      |      |                      | 12                  |   |
| 13  |                         |                |         |      |      |     |      |      |                      | 14                  |   |
| 15  |                         |                |         |      |      |     |      |      |                      | 16                  |   |
| 17  |                         |                |         |      |      |     |      |      |                      | 18                  |   |
| 19  |                         |                |         |      |      |     |      |      |                      | 20                  |   |
| 21  |                         |                |         |      |      |     |      |      |                      | 22                  |   |
| 23  |                         |                |         |      |      |     |      |      |                      | 24                  |   |
| 25  |                         |                |         |      |      |     |      |      |                      | 26                  |   |
| 27  |                         |                |         |      |      |     |      |      |                      | 28                  |   |
| 29  |                         |                |         |      |      |     |      |      |                      | 30                  |   |
| 31  |                         |                |         |      |      |     |      |      |                      | 32                  |   |
| 33  |                         |                |         |      |      |     |      |      |                      | 34                  |   |
| 35  |                         |                |         |      |      |     |      |      |                      | 36                  |   |
| 37  |                         |                |         |      |      |     |      |      |                      | 38                  |   |
| 39  |                         |                |         |      |      |     |      |      |                      | 40                  |   |
| 41  |                         |                |         |      |      |     |      |      |                      | 42                  |   |
| BRANCH CIRCUIT LOAD (KVA)<br>FEED THROUGH LUOS LOAD:<br>TOTAL PANEL LOAD (KVA): 2.54 KVA 1.97 KVA 2.2 KVA<br>TOTAL LOAD (AMPS): 9.3 A 7.1 A 8.1 A<br>PHASE LOAD BALANCE: 76.78% |                         |                |         |      |      |     |      |      |                      |                     |   |

| LOAD CLASSIFICATION | CONNECTED LOAD | ESTIMATED DEMAND | PANEL TOTALS                      |
|---------------------|----------------|------------------|-----------------------------------|
| Lighting            | 3.65 KVA       | 7.26 KVA         | TOTAL CONNECTED LOAD (AMPS): 11 A |
| Other               | 1.05 KVA       | 1.05 KVA         | TOTAL CODE LOAD (AMPS): 10 A      |
|                     |                |                  | PERCENT LOADED: 19.7%             |
| TOTAL KVA           |                | 6.65 KVA         | 8.06 KVA                          |

LOAD CLASSIFICATION (L) LEGEND  
 R- RECEPTACLE, L- LIGHTING, K- KITCHEN, M- MOTORSHVAC, H- HEATERS, O- OTHER, E- EXISTING, C- CSNRM/R LOADS

**NAME: 3-2-MSB-1-PNL-1**  
 LOCATION: ELEC. ROOM 1-181  
 MOUNTING: SURFACE  
 MAINS RATING: 100 A  
 MANS TYPE: MCS  
 FEED THROUGH LUOS: No

| #  | CIRCUIT DESCRIPTION     | CONDUIT & WIRE | WIRE: 4 |      |      | P    | T    | LC   | CONDUIT & WIRE           | CIRCUIT DESCRIPTION | # |
|--|-------------------------|----------------|---------|------|------|------|------|------|--------------------------|---------------------|---|
|  |                         |                | A       | B    | C    |      |      |      |                          |                     |   |
| 1  | RECPY. ELEC. ROOM 1-181 | 20 A 1         | 1.08    | 0.72 |      | 1    | 20 A |      | RECPY. MECHANICAL 1-219  | 2                   |   |
| 3  | RECPY. ELEC. ROOM 1-178 | 20 A 1         |         | 1.08 | 0.72 | 1    | 20 A |      | RECPY. MECHANICAL 1-219  | 4                   |   |
| 5  | RECPY. ELEC. ROOM 1-179 | 20 A 1         |         |      | 1.08 | 0.54 | 1    | 20 A | RECPY. STORAGE 1-217     | 6                   |   |
| 7  | RECPY. ELEC. ROOM 1-178 | 20 A 1         | 1.08    | 0.54 |      | 1    | 20 A |      | RECPY. STORAGE 1-217     | 8                   |   |
| 9  | RECPY. CORRIDOR 1-223   | 20 A 1         |         | 0.9  | 1.08 | 1    | 20 A |      | RECPY. DATA HALL 3-1-216 | 10                  |   |
| 11   | RECPY. CORRIDOR 1-223   | 20 A 1         |         |      | 1.08 | 1.08 | 1    | 20 A | RECPY. DATA HALL 3-1-216 | 12                  |   |
| 13   | RECPY. CORRIDOR 1-223   | 20 A 1         | 0.72    |      |      |      | 20 A |      | RECPY. DATA HALL 3-1-216 | 14                  |   |
| 15   | RECPY. EXT.             | 20 A 1         |         | 0.36 |      |      |      |      |                          | 16                  |   |
| 17   |                         |                |         |      |      |      |      |      |                          | 18                  |   |
| 19   |                         |                |         |      |      |      |      |      |                          | 20                  |   |
| 21   |                         |                |         |      |      |      |      |      |                          | 22                  |   |
| 23   |                         |                |         |      |      |      |      |      |                          | 24                  |   |
| 25   |                         |                |         |      |      |      |      |      |                          | 26                  |   |
| 27   |                         |                |         |      |      |      |      |      |                          | 28                  |   |
| 29   |                         |                |         |      |      |      |      |      |                          | 30                  |   |
| 31   |                         |                |         |      |      |      |      |      |                          | 32                  |   |
| 33   |                         |                |         |      |      |      |      |      |                          | 34                  |   |
| 35   |                         |                |         |      |      |      |      |      |                          | 36                  |   |
| 37   |                         |                |         |      |      |      |      |      |                          | 38                  |   |
| 39   |                         |                |         |      |      |      |      |      |                          | 40                  |   |
| 41   |                         |                |         |      |      |      |      |      |                          | 42                  |   |
| BRANCH CIRCUIT LOAD (KVA)<br>FEED THROUGH LUOS LOAD:<br>TOTAL PANEL LOAD (KVA): 4.14 KVA 4.14 KVA 3.78 KVA<br>TOTAL LOAD (AMPS): 35.2 A 33.2 A 31.5 A<br>PHASE LOAD BALANCE: 90.1% |                         |                |         |      |      |      |      |      |                          |                     |   |

| LOAD CLASSIFICATION | CONNECTED LOAD | ESTIMATED DEMAND | PANEL TOTALS                      |
|---------------------|----------------|------------------|-----------------------------------|
| RECPY.              | 12.06 KVA      | 12.06 KVA        | TOTAL CONNECTED LOAD (AMPS): 33 A |
|                     |                |                  | TOTAL CODE LOAD (AMPS): 33 A      |
|                     |                |                  | PERCENT LOADED: 33.48%            |
| TOTAL KVA           |                | 12.06 KVA        | 12.06 KVA                         |

LOAD CLASSIFICATION (L) LEGEND  
 R- RECEPTACLE, L- LIGHTING, K- KITCHEN, M- MOTORSHVAC, H- HEATERS, O- OTHER, E- EXISTING, C- CSNRM/R LOADS

**NAME: 3-1-UPS-1-UDP-1**  
 LOCATION: ELEC. ROOM 1-181  
 MOUNTING: SURFACE  
 MAINS RATING: 400 A  
 MANS TYPE: MCS  
 FEED THROUGH LUOS: No

| #   | CIRCUIT DESCRIPTION | CONDUIT & WIRE | WIRE: 3 |       |   | P | T    | LC | CONDUIT & WIRE | CIRCUIT DESCRIPTION | # |
|---|---------------------|----------------|---------|-------|---|---|------|----|----------------|---------------------|---|
|   |                     |                | A       | B     | C |   |      |    |                |                     |   |
| 1   |                     |                |         |       |   |   |      |    |                | 2                   |   |
| 3   | FWU-3-1             | 70 A 3         | 16.74   | 16.74 |   | 3 | 70 A |    | FWU-3-1        | 4                   |   |
| 5   |                     |                |         |       |   |   |      |    |                | 6                   |   |
| 7   |                     |                |         |       |   |   |      |    |                | 8                   |   |
| 9   | CDU-3-1             | 70 A 3         | 10.95   | 10.95 |   | 3 | 70 A |    | CDU-3-1        | 10                  |   |
| 11  |                     |                |         |       |   |   |      |    |                | 12                  |   |
| 13  |                     |                |         |       |   |   |      |    |                | 14                  |   |
| 15  |                     |                |         |       |   |   |      |    |                | 16                  |   |
| 17  |                     |                |         |       |   |   |      |    |                | 18                  |   |
| 19  |                     |                |         |       |   |   |      |    |                | 20                  |   |
| 21  |                     |                |         |       |   |   |      |    |                | 22                  |   |
| 23  |                     |                |         |       |   |   |      |    |                | 24                  |   |
| 25  |                     |                |         |       |   |   |      |    |                | 26                  |   |
| 27  |                     |                |         |       |   |   |      |    |                | 28                  |   |
| 29  |                     |                |         |       |   |   |      |    |                | 30                  |   |
| 31  |                     |                |         |       |   |   |      |    |                | 32                  |   |
| 33  |                     |                |         |       |   |   |      |    |                | 34                  |   |
| 35  |                     |                |         |       |   |   |      |    |                | 36                  |   |
| 37  |                     |                |         |       |   |   |      |    |                | 38                  |   |
| 39  |                     |                |         |       |   |   |      |    |                | 40                  |   |
| 41  |                     |                |         |       |   |   |      |    |                | 42                  |   |
| BRANCH CIRCUIT LOAD (KVA)<br>FEED THROUGH LUOS LOAD:<br>TOTAL PANEL LOAD (KVA): 55.37 KVA 55.37 KVA 55.37 KVA<br>TOTAL LOAD (AMPS): 199.8 A 199.8 A 199.8 A<br>PHASE LOAD BALANCE: 100% |                     |                |         |       |   |   |      |    |                |                     |   |

| LOAD CLASSIFICATION | CONNECTED LOAD | ESTIMATED DEMAND | PANEL TOTALS                       |
|---------------------|----------------|------------------|------------------------------------|
| Power               | 166.1 KVA      | 166.1 KVA        | TOTAL CONNECTED LOAD (AMPS): 200 A |
|                     |                |                  | TOTAL CODE LOAD (AMPS): 200 A      |
|                     |                |                  | PERCENT LOADED: 49.95%             |
| TOTAL KVA           |                | 166.1 KVA        | 166.1 KVA                          |

LOAD CLASSIFICATION (L) LEGEND  
 R- RECEPTACLE, L- LIGHTING, K- KITCHEN, M- MOTORSHVAC, H- HEATERS, O- OTHER, E- EXISTING, C- CSNRM/R LOADS

**NAME: 3-1-MSB-1-MDP-1**  
 LOCATION: ELEC. ROOM 1-181  
 MOUNTING: SURFACE  
 MAINS RATING: 600 A  
 MANS TYPE: MLO  
 FEED THROUGH LUOS: No

| #   | CIRCUIT DESCRIPTION | CONDUIT & WIRE | WIRE: 3 |       |      | P | T    | LC | CONDUIT & WIRE | CIRCUIT DESCRIPTION | # |
|---|---------------------|----------------|---------|-------|------|---|------|----|----------------|---------------------|---|
|   |                     |                | A       | B     | C    |   |      |    |                |                     |   |
| 1   |                     |                |         |       |      |   |      |    |                | 2                   |   |
| 3   | FWU-3-3             | 70 A 3         | 16.74   | 16.74 |      | 3 | 70 A |    | FWU-3-4        | 4                   |   |
| 5   |                     |                |         |       |      |   |      |    |                | 6                   |   |
| 7   |                     |                |         |       |      |   |      |    |                | 8                   |   |
| 9   | FWU-3-14            | 70 A 3         | 16.74   | 3.41  |      | 3 | 70 A |    | CHW-3-4        | 10                  |   |
| 11  |                     |                |         |       |      |   |      |    |                | 12                  |   |
| 13  |                     |                |         |       |      |   |      |    |                | 14                  |   |
| 15  |                     |                |         |       |      |   |      |    |                | 16                  |   |
| 17  | CHW-3-4B            | 70 A 3         | 3.41    |       | 3.41 |   |      |    |                | 18                  |   |
| 19  |                     |                |         |       |      |   |      |    |                | 20                  |   |
| 21  |                     |                |         |       |      |   |      |    |                | 22                  |   |
| 23  |                     |                |         |       |      |   |      |    |                | 24                  |   |
| 25  |                     |                |         |       |      |   |      |    |                | 26                  |   |
| 27  |                     |                |         |       |      |   |      |    |                | 28                  |   |
| 29  |                     |                |         |       |      |   |      |    |                | 30                  |   |
| 31  |                     |                |         |       |      |   |      |    |                | 32                  |   |
| 33  |                     |                |         |       |      |   |      |    |                | 34                  |   |
| 35  |                     |                |         |       |      |   |      |    |                | 36                  |   |
| 37  |                     |                |         |       |      |   |      |    |                | 38                  |   |
| 39  |                     |                |         |       |      |   |      |    |                | 40                  |   |
| 41  |                     |                |         |       |      |   |      |    |                | 42                  |   |
| BRANCH CIRCUIT LOAD (KVA)<br>FEED THROUGH LUOS LOAD:<br>TOTAL PANEL LOAD (KVA): 57.02 KVA 57.02 KVA 57.02 KVA<br>TOTAL LOAD (AMPS): 205.8 A 205.8 A 205.8 A<br>PHASE LOAD BALANCE: 100% |                     |                |         |       |      |   |      |    |                |                     |   |

| LOAD CLASSIFICATION | CONNECTED LOAD | ESTIMATED DEMAND | PANEL TOTALS                       |
|---------------------|----------------|------------------|------------------------------------|
| Power               | 171.07 KVA     | 171.07 KVA       | TOTAL CONNECTED LOAD (AMPS): 206 A |
|                     |                |                  | TOTAL CODE LOAD (AMPS): 206 A      |
|                     |                |                  | PERCENT LOADED: 34.29%             |
| TOTAL KVA           |                | 171.07 KVA       | 171.07 KVA                         |

LOAD CLASSIFICATION (L) LEGEND  
 R- RECEPTACLE, L- LIGHTING, K- KITCHEN, M- MOTORSHVAC, H- HEATERS, O- OTHER, E- EXISTING, C- CSNRM/R LOADS

**NAME: 3-2-UPS-1-UDP-1**  
 LOCATION: ELEC. ROOM 1-180  
 MOUNTING: SURFACE  
 MAINS RATING: 400 A  
 MANS TYPE: MCS  
 FEED THROUGH LUOS: No

| #   | CIRCUIT DESCRIPTION | CONDUIT & WIRE | WIRE: 3 |       |   | P | T     | LC | CONDUIT & WIRE | CIRCUIT DESCRIPTION | # |
|---|---------------------|----------------|---------|-------|---|---|-------|----|----------------|---------------------|---|
|   |                     |                | A       | B     | C |   |       |    |                |                     |   |
| 1   |                     |                |         |       |   |   |       |    |                | 2                   |   |
| 3   | FWU-3-4             | 70 A 3         | 16.74   | 16.74 |   | 3 | 70 A  |    | FWU-3-2        | 4                   |   |
| 5   |                     |                |         |       |   |   |       |    |                | 6                   |   |
| 7   |                     |                |         |       |   |   |       |    |                | 8                   |   |
| 9   | CDU-3-2             | 100 A 3        | 10.95   | 10.95 |   | 3 | 100 A |    | CDU-3-4        | 10                  |   |
| 11  |                     |                |         |       |   |   |       |    |                | 12                  |   |
| 13  |                     |                |         |       |   |   |       |    |                | 14                  |   |
| 15  |                     |                |         |       |   |   |       |    |                | 16                  |   |
| 17  |                     |                |         |       |   |   |       |    |                | 18                  |   |
| 19  |                     |                |         |       |   |   |       |    |                | 20                  |   |
| 21  |                     |                |         |       |   |   |       |    |                | 22                  |   |
| 23  |                     |                |         |       |   |   |       |    |                | 24                  |   |
| 25  |                     |                |         |       |   |   |       |    |                | 26                  |   |
| 27  |                     |                |         |       |   |   |       |    |                | 28                  |   |
| 29  |                     |                |         |       |   |   |       |    |                | 30                  |   |
| 31  |                     |                |         |       |   |   |       |    |                | 32                  |   |
| 33  |                     |                |         |       |   |   |       |    |                | 34                  |   |
| 35  |                     |                |         |       |   |   |       |    |                | 36                  |   |
| 37  |                     |                |         |       |   |   |       |    |                | 38                  |   |
| 39  |                     |                |         |       |   |   |       |    |                | 40                  |   |
| 41  |                     |                |         |       |   |   |       |    |                | 42                  |   |
| BRANCH CIRCUIT LOAD (KVA)<br>FEED THROUGH LUOS LOAD:<br>TOTAL PANEL LOAD (KVA): 55.37 KVA 55.37 KVA 55.37 KVA<br>TOTAL LOAD (AMPS): 199.8 A 199.8 A 199.8 A<br>PHASE LOAD BALANCE: 100% |                     |                |         |       |   |   |       |    |                |                     |   |

| LOAD CLASSIFICATION | CONNECTED LOAD | ESTIMATED DEMAND | PANEL TOTALS                       |
|---------------------|----------------|------------------|------------------------------------|
| Power               | 166.1 KVA      | 166.1 KVA        | TOTAL CONNECTED LOAD (AMPS): 200 A |
|                     |                |                  | TOTAL CODE LOAD (AMPS): 200 A      |
|                     |                |                  | PERCENT LOADED: 49.95%             |
| TOTAL KVA           |                | 166.1 KVA        | 166.1 KVA                          |

LOAD CLASSIFICATION (L) LEGEND  
 R- RECEPTACLE, L- LIGHTING, K- KITCHEN, M- MOTORSHVAC, H- HEATERS, O- OTHER, E- EXISTING, C- CSNRM/R LOADS

**NAME: 3-2-MSB-1-MDP-1**  
 LOCATION: ELEC. ROOM 1-180  
 MOUNTING: SURFACE  
 MAINS RATING: 600 A  
 MANS TYPE: MLO  
 FEED THROUGH LUOS: No