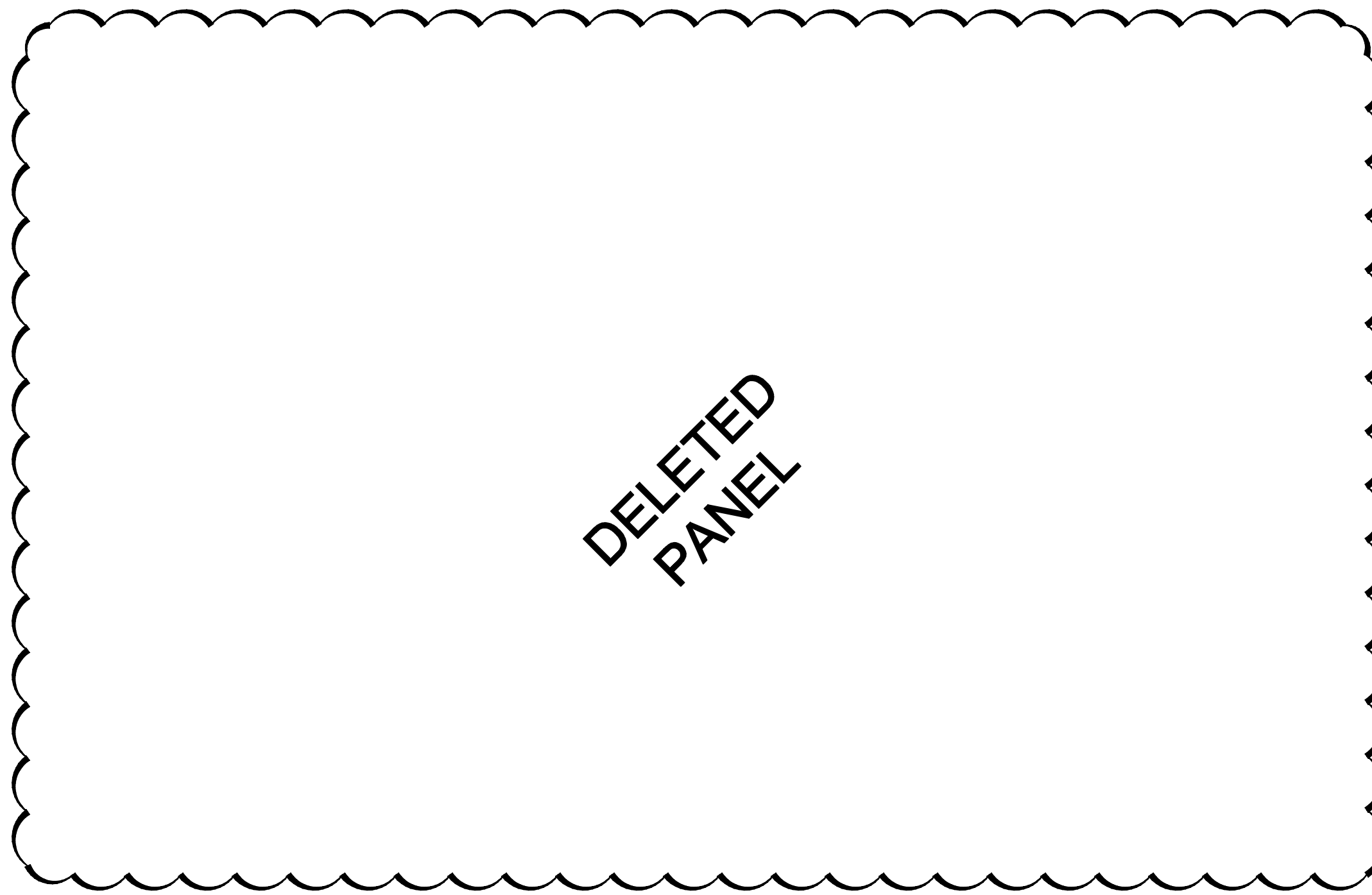


### NEW BRANCH CIRCUIT HOUSE PANEL "H"

| MAIN: 200 AMP / 3 PHASE PANEL                         |      |      |       |      |      |             |            |            |      | VOLTAGE: 277/480V, 3ø, 4 WIRE |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
|---|------|------|-------|------|------|-------------|------------|------------|------|-------------------------------|-------|------|------|---------------------|------------|------------|------------|-----|------|-------|------|------|---------------------|
| SPEC: SIEMENS   |      |      |       |      |      |             |            |            |      | LOCATION: EAST WALL EXTERIOR  |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| MOUNTING: FLUSH                                       |      |      |       |      |      |             |            |            |      | AIC SYMM: 10,000 MINIMUM      |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| DESCRIPTION   | WIRE | GND. | COND. | TRIP | CKT. | A PHASE KW  | B PHASE KW | C PHASE KW | CT.  | TRIP                          | COND. | GND. | WIRE | DESCRIPTION         | A PHASE KW | B PHASE KW | C PHASE KW | CT. | TRIP | COND. | GND. | WIRE | DESCRIPTION         |
| MONUMENT SIGN   | #12  | #12  | 1/2"  | 20   | 1    | 1.0         | 1.0        | ---        | ---  | 2                             | 20    | 1/2" | #12  | MONUMENT SIGN       | ---        | ---        | ---        | --- | 2    | 20    | 1/2" | #12  | MONUMENT SIGN       |
| EXTERIOR SITE LIGHT                                   | #12  | #12  | 1/2"  | 20   | 3    | ---         | .48        | .48        | ---  | 4                             | 20    | 1/2" | #12  | EXTERIOR SITE LIGHT | ---        | ---        | ---        | --- | 4    | 20    | 1/2" | #12  | EXTERIOR SITE LIGHT |
| EXTERIOR SITE LIGHT                                   | #12  | #12  | 1/2"  | 20   | 5    | ---         | ---        | .6         | .6   | 6                             | 20    | 1/2" | #12  | EXTERIOR SITE LIGHT | ---        | ---        | ---        | --- | 8    | 20    | 1/2" | #12  | EXTERIOR SITE LIGHT |
| SPRINKLER PUMP  | #8   | #8   | 3/4"  | 40   | 7    | 1.25        | .72        | ---        | ---  | 8                             | 20    | 1/2" | #12  | SPRINKLER PUMP      | ---        | ---        | ---        | --- | 10   | 40    | 3/4" | #8   | SPRINKLER PUMP      |
| BLANK   | ---  | ---  | ---   | ---  | 9    | ---         | ---        | 1.25       | 1.25 | 10                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | 12   | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 11   | ---         | ---        | ---        | ---  | 14                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | 16   | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 13   | ---         | ---        | ---        | ---  | 18                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | 20   | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 15   | ---         | ---        | ---        | ---  | 22                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | 24   | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 17   | ---         | ---        | ---        | ---  | 26                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | 28   | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 19   | ---         | ---        | ---        | ---  | 30                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | 32   | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 21   | ---         | ---        | ---        | ---  | 34                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | 36   | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 23   | ---         | ---        | ---        | ---  | 38                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | 40   | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 25   | ---         | ---        | ---        | ---  | 42                            | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 27   | ---         | ---        | ---        | ---  | ---                           | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 29   | ---         | ---        | ---        | ---  | ---                           | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 31   | ---         | ---        | ---        | ---  | ---                           | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 33   | ---         | ---        | ---        | ---  | ---                           | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 35   | ---         | ---        | ---        | ---  | ---                           | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 37   | ---         | ---        | ---        | ---  | ---                           | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 39   | ---         | ---        | ---        | ---  | ---                           | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| BLANK   | ---  | ---  | ---   | ---  | 41   | ---         | ---        | ---        | ---  | ---                           | ---   | ---  | ---  | BLANK               | ---        | ---        | ---        | --- | ---  | ---   | ---  | ---  | BLANK               |
| SUMMATION OF LIGHTING LOAD                            |      |      |       |      |      | 2.88 KW     | 6.47       | 4.71       | 4.95 | KW PER PHASE                  |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| SUMMATION OF RECEPTACLE LOAD                          |      |      |       |      |      | ---         | 16.13      |            |      | TOTAL --- KW                  |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| AC @ (---) X 125% =                                   |      |      |       |      |      | ---         | ---        |            |      | KW                            |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| ALL MOTORS @ (11.25) X 125% =                         |      |      |       |      |      | 14.1        | ---        |            |      | KW                            |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| ALL LIGHTS @ (2.88) X 125% =                          |      |      |       |      |      | 3.6         | ---        |            |      | KW                            |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| RECEPTACLES - FIRST 10KW @ 100% =                     |      |      |       |      |      | ---         | ---        |            |      | KW                            |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| REMAINDER @ (0.0) X 50% =                             |      |      |       |      |      | ---         | ---        |            |      | KW                            |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| TOTAL   |      |      |       |      |      | 17.7        | ---        |            |      | KW                            |       |      |      |                     |            |            |            |     |      |       |      |      |                     |
| PANEL A = $\frac{17.7 \text{ KW}}{(480V)(.83)}(1000)$ |      |      |       |      |      | = 21.3 AMPS |            |            |      |                               |       |      |      |                     |            |            |            |     |      |       |      |      |                     |

### NEW BRANCH CIRCUIT PANEL "B"

| MAIN: 100 AMP / 3 PHASE PANEL                          |      |      |       |      |      |              |            |            |      | VOLTAGE: 120/208V, 3ø, 4 WIRE |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
|--|------|------|-------|------|------|--------------|------------|------------|------|-------------------------------|-------|------|------|-------------------------|------------|------------|------------|-----|------|-------|------|------|-------------------------|
| SPEC: SIEMENS  |      |      |       |      |      |              |            |            |      | LOCATION: EAST WALL INTERIOR  |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| MOUNTING: FLUSH  |      |      |       |      |      |              |            |            |      | AIC SYMM: 10,000 MINIMUM      |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| DESCRIPTION  | WIRE | GND. | COND. | TRIP | CKT. | A PHASE KW   | B PHASE KW | C PHASE KW | CT.  | TRIP                          | COND. | GND. | WIRE | DESCRIPTION             | A PHASE KW | B PHASE KW | C PHASE KW | CT. | TRIP | COND. | GND. | WIRE | DESCRIPTION             |
| RECEPTACLES  | #12  | #12  | 1/2"  | 20   | 1    | 1.8          | .9         | ---        | ---  | 2                             | 20    | 1/2" | #12  | LIGHTING                | ---        | ---        | ---        | --- | 2    | 20    | 1/2" | #12  | LIGHTING                |
| RECEPTACLES  | #12  | #12  | 1/2"  | 20   | 3    | ---          | 1.44       | 1.65       | ---  | 4                             | 20    | 1/2" | #12  | SHOW WINDOW RECEPTACLES | ---        | ---        | ---        | --- | 4    | 20    | 1/2" | #12  | SHOW WINDOW RECEPTACLES |
| RECEPTACLES  | #12  | #12  | 1/2"  | 20   | 5    | ---          | ---        | 1.26       | .25  | 6                             | 20    | 1/2" | #12  | DRINKING FOUNTAIN       | ---        | ---        | ---        | --- | 6    | 20    | 1/2" | #12  | DRINKING FOUNTAIN       |
| BATHROOM GFCI  | #12  | #12  | 1/2"  | 20   | 7    | 1.0          | .25        | ---        | ---  | 8                             | 20    | 1/2" | #12  | REFRIGERATOR            | ---        | ---        | ---        | --- | 8    | 20    | 1/2" | #12  | REFRIGERATOR            |
| SMALL APPLIANCE GFCI                                   | #12  | #12  | 1/2"  | 20   | 9    | ---          | .25        | 2.25       | ---  | 10                            | 30    | 3/4" | #10  | WATER HEATER            | ---        | ---        | ---        | --- | 10   | 30    | 3/4" | #10  | WATER HEATER            |
| SMALL APPLIANCE GFCI                                   | #12  | #12  | 1/2"  | 20   | 11   | ---          | ---        | .25        | 2.25 | 12                            | 2     | 3/4" | #10  | EXHAUST FANS            | ---        | ---        | ---        | --- | 12   | 20    | 1/2" | #12  | EXHAUST FANS            |
| RECEPTACLES GFCI                                       | #12  | #12  | 1/2"  | 20   | 13   | .25          | 1.5        | ---        | ---  | 14                            | 20    | 1/2" | #12  | BLANK                   | ---        | ---        | ---        | --- | 14   | 20    | 1/2" | #12  | BLANK                   |
| RECEPTACLES  | #12  | #12  | 1/2"  | 20   | 15   | ---          | 2.34       | ---        | ---  | 16                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 16   | ---   | ---  | ---  | BLANK                   |
| RECEPTACLES  | #12  | #12  | 1/2"  | 20   | 17   | ---          | ---        | 1.62       | ---  | 18                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 18   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 19   | ---          | ---        | ---        | ---  | 20                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 20   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 21   | ---          | ---        | ---        | ---  | 22                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 22   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 23   | ---          | ---        | ---        | ---  | 24                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 24   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 25   | ---          | ---        | ---        | ---  | 26                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 26   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 27   | ---          | ---        | ---        | ---  | 28                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 28   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 29   | ---          | ---        | ---        | ---  | 30                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 30   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 31   | ---          | ---        | ---        | ---  | 32                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 32   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 33   | ---          | ---        | ---        | ---  | 34                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 34   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 35   | ---          | ---        | ---        | ---  | 36                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 36   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 37   | ---          | ---        | ---        | ---  | 38                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 38   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 39   | ---          | ---        | ---        | ---  | 40                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 40   | ---   | ---  | ---  | BLANK                   |
| BLANK  | ---  | ---  | ---   | ---  | 41   | ---          | ---        | ---        | ---  | 42                            | ---   | ---  | ---  | BLANK                   | ---        | ---        | ---        | --- | 42   | ---   | ---  | ---  | BLANK                   |
| SUMMATION OF LIGHTING LOAD                             |      |      |       |      |      | .9 KW        | 5.7        | 7.93       | 5.63 | KW PER PHASE                  |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| SUMMATION OF RECEPTACLE LOAD                           |      |      |       |      |      | 16.86 KW     | 17.76      |            |      | TOTAL --- KW                  |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| AC @ (---) X 125% =                                    |      |      |       |      |      | ---          | ---        |            |      | KW                            |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| ALL MOTORS @ (1.5) X 125% =                            |      |      |       |      |      | 1.86         | ---        |            |      | KW                            |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| ALL LIGHTS @ (.9) X 125% =                             |      |      |       |      |      | 1.125        | ---        |            |      | KW                            |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| RECEPTACLES - FIRST 10KW @ 100% =                      |      |      |       |      |      | 10.0         | ---        |            |      | KW                            |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| REMAINDER @ (6.86) X 50% =                             |      |      |       |      |      | 3.43         | ---        |            |      | KW                            |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| TOTAL  |      |      |       |      |      | 16.42        | ---        |            |      | KW                            |       |      |      |                         |            |            |            |     |      |       |      |      |                         |
| PANEL A = $\frac{16.42 \text{ KW}}{(208V)(.83)}(1000)$ |      |      |       |      |      | = 45.53 AMPS |            |            |      |                               |       |      |      |                         |            |            |            |     |      |       |      |      |                         |



### NEW BRANCH CIRCUIT PANEL "A"

| MAIN: 200 AMP / 3 PHASE PANEL |      |      |       |      |      |            |            |            |     | VOLTAGE: 277/480V, 3ø, 4 WIRE |       |      |      |                |            |            |            |     |      |       |      |      |                |
|-------------------------------|------|------|-------|------|------|------------|------------|------------|-----|-------------------------------|-------|------|------|----------------|------------|------------|------------|-----|------|-------|------|------|----------------|
| SPEC: SIEMENS                 |      |      |       |      |      |            |            |            |     | LOCATION: EAST WALL INTERIOR  |       |      |      |                |            |            |            |     |      |       |      |      |                |
| MOUNTING: FLUSH               |      |      |       |      |      |            |            |            |     | AIC SYMM: 10,000 MINIMUM      |       |      |      |                |            |            |            |     |      |       |      |      |                |
| DESCRIPTION                   | WIRE | GND. | COND. | TRIP | CKT. | A PHASE KW | B PHASE KW | C PHASE KW | CT. | TRIP                          | COND. | GND. | WIRE | DESCRIPTION    | A PHASE KW | B PHASE KW | C PHASE KW | CT. | TRIP | COND. | GND. | WIRE | DESCRIPTION    |
| COMPACTOR                     | #6   | #6   | 3/4"  | 60   | 1    | 2.5        | 4.4        | ---        | --- | 2                             | 100   | #8   | #8   | SUB PANEL LP-1 | ---        | ---        | ---        | --- | 4    | 100   | #8   | #8   | SUB PANEL LP-1 |
| RTU-1                         | #6   | #6   | 3/4"  | 60   | 3    | 4.0        | 4.0        | ---        | --- | 8                             | 60    | 3/4" | #6   | RTU-4          | ---        | ---        | ---        | --- | 10   | 60    | 3/4" | #6   | RTU-4          |
| RTU-2                         | #6   | #6   | 3/4"  | 60   | 7    | 4.0        | 4.0        | ---        | --- | 10                            | 60    | 3/4" | #6   | RTU-5          | ---        | ---        | ---        | --- | 12   | 60    | 3/4" | #6   | RTU-5          |
| RTU-3                         | #6   | #6   | 3/4"  | 60   | 11   | 4.0        | 4.0        | ---        | --- | 16                            | 60    | 3/4" | #6   | RTU-6          | ---        | ---        | ---        | --- | 18   | 60    | 3/4" | #6   | RTU-6          |
| NIGHT LIGHTING                | #12  | #12  | 1/2"  | 20   | 13   | ---        | ---        | ---        | --- | 20                            | 20    | 1/2" | #12  | LIGHTING       | ---        | ---        | ---        | --- | 22   | 20    | 1/2" | #12  | LIGHTING       |
| LIGHTING                      | #12  | #12  | 1/2"  | 20   | 27   | ---        | ---        | ---        | --- | 28                            | 20    | 1/2" | #12  | LIGHTING       | ---        | ---        | ---        | --- | 30   | 20    | 1/2" | #12  | LIGHTING       |
| LIGHTING                      | #12  | #12  | 1/2"  | 20   | 29   | ---        | ---        | ---        | --- | 32                            | 20    | 1/2" | #12  | LIGHTING       | ---        | ---        | ---        | --- | 34   | 20    | 1/2" | #12  | LIGHTING       |
| LIGHTING                      | #12  | #12  | 1/2"  | 20   | 31   | 1.65       | 1.2        | ---        | --- | 36                            | 20    | 1/2" | #12  | BUILDING SIGN  | ---        | ---        | ---        | --- | 38   | 20    | 1/2" | #12  | BUILDING SIGN  |
| LIGHTING                      | #12  | #12  | 1/2"  | 20   | 33   | ---        | ---        | ---        | --- | 40                            | 20    | 1/2" | #12  | BUILDING SIGN  | ---        | ---        | ---        | --- | 42   | 20    | 1/2" | #12  | BUILDING SIGN  |
| SUMP PUMP                     | #8   | #8   | 3/4"  | 40   | 35   | ---        | ---        | ---        | --- | 40                            | ---   | ---  | ---  | BLANK          | ---        | ---        | ---        | --- | 40   | ---   | ---  | ---  | BLANK          |
| BLANK                         | ---  | ---  | ---   | ---  | 37   |            |            |            |     |                               |       |      |      |                |            |            |            |     |      |       |      |      |                |