



| ISSUANCES |                           |          |
|-----------|---------------------------|----------|
| No.       | Drawing Issue Description | Date     |
| 1         | ISSUED FOR BD             | 11/04/19 |

| MONITOR / CONTROL POINTS     | EMCS INPUT/OUTPUT & FUNCTIONS SUMMARY |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
|------------------------------|---------------------------------------|--------------------|----------------------|---------------|----------------|-------------|-----------------------|-------------------|----------------------|---------------------|--------------|--------------------|------------------------|---------|----------|------------|---------|---------------|---------------|---------------|---------------|--------------|--------------|----------------|-------------|----------|---------------|-----------------|-------------|-----------------|---------------|------------------|-----------------------|---------------------|---------------|------------|----------------|--|--|
|                              | CONTROL PROGRAM FUNCTION              |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
|                              | TIME OF DAY SCHEDULING                | HOLIDAY SCHEDULING | OVERSPEED SCHEDULING | OPTIMUM START | DEMAND CONTROL | SPLIT CYCLE | PROGRESS ALARM ALARMS | HIGH/LOW SETBACKS | SLIDING ALARM LIMITS | TEMPERATURE CONTROL | STATUS ALARM | OUTDOOR AIR LOGOUT | LOOP TEMP OPTIMIZATION | EXPANSE | ENTHALPY | PREHEATING | RH/TAPE | SEMI-DAY CALC | ALARM REPORTS | ALARM REPORTS | ALARM REPORTS | ROLLER RESET | ROLLER RESET | LOCAL OVERRIDE | TEMPERATURE | HUMIDITY | CONTACT BREAK | CONTACT CLOSURE | FLOW SWITCH | PRESSURE SWITCH | METER FAILURE | OVERSPEED BUTION | PRO CONTROL-REGULATED | CHILLER WATER RESET | CONTROL VALVE | START/STOP | ENABLE/DISABLE |  |  |
| DEMAND METER                 |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| O.A. TEMPERATURE             |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| FIRE ALARM                   |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| FIRE ALARM POWER LOSS        |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| BURGLAR ALARM                |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| BURGLAR ALARM POWER LOSS     |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| FREEZER                      |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| COOLER                       |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| OUTSIDE LIGHTING             | X                                     | X                  | X                    |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| GENERATOR                    |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| GENERATOR OVERBANK           |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| HVAC EMERGENCY SHUT-OFF      |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| TYPICAL WATER HEATERS        | X                                     | X                  | X                    |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| H.W. TEMP SENSORS            |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| RECTIRC. PUMP                |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| TYPICAL BOILER               | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| H.W. SUPPLY TEMP SENSOR      |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| H.W. RETURN TEMP SENSOR      |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| PRESSURE DIFFERENTIAL SWITCH |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| H.W. CIRCULATING PUMP        |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| HEAT EXCHANGER               | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| CIRC W. SUPPLY SENSOR        |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| CIRC W. RETURN SENSOR        |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| CIRC T.W. SUPPLY SENSOR      |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| CIRC T.W. RETURN SENSOR      |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| COOLING TOWER FAN            | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| TYPICAL PUMP                 | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| FLOW SENSOR                  |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| WATER SOURCE HEAT PUMP       | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| FAN                          |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| COMPRESSOR                   |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| REVERSING VALVE              |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| DISCHARGE AIR TEMP SENSOR    |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| SPACE TEMP SENSOR            |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| SMOKE ALARM                  |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| TYPICAL EHR SYSTEM           | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| EXHAUST TEMPERATURE SENSOR   |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| EXHAUST HUMIDITY SENSOR      |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| EXHAUST FAN                  |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| OUTSIDE AIR FAN FAN          |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| SMOKE ALARM                  |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| UNIT HEATERS EH-1,2,4        | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| SPACE TEMP SENSOR            |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| EXHAUST FAN EF-6,8           | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| EXHAUST FANS EF-1            | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| MOTOR OPERATED DAMPER        |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| SPACE TEMP SENSOR            |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| EXHAUST FANS EF-3            | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| SPACE TEMP SENSOR            |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| TYPICAL ROOFTOP UNIT         | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| COMPRESSOR                   |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| WAS HEAT                     |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| DIFF. PRESSURE SENSOR        |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| WATER SOURCE HEAT PUMP       | X                                     | X                  | X                    | X             |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| FAN                          |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| COMPRESSOR                   |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| REVERSING VALVE              |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| ELECTRIC HEAT                |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| DISCHARGE AIR TEMP SENSOR    |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |
| SPACE TEMP SENSOR            |                                       |                    |                      |               |                |             |                       |                   |                      |                     |              |                    |                        |         |          |            |         |               |               |               |               |              |              |                |             |          |               |                 |             |                 |               |                  |                       |                     |               |            |                |  |  |

GENERAL NOTES:  
A. PROVIDE MULTIPLE STAGES OF CONTROL FOR UNITS WITH MULTIPLE STAGES OF CAPACITY.  
B. WIRE THRU SMOKE DETECTORS FOR UNITS WITH OVER 2000 CFM. THAT SERVE CORRIDORS, AND/OR THAT HAVE ASSOCIATED SMOKE DAMPERS TO SHUT DOWN THE UNIT AND CLOSE THE SMOKE DAMPERS WHEN SMOKE IS PRESENT.  
C. WHERE ROOM SENSORS ARE SHOWN INSTALLED IN EXISTING WALLS, RUN FLEXIBLE CONDUIT DOWN IN WALL FROM ABOVE CEILING TO NEW SENSOR IF WALL IS INACCESSIBLE, RUN WIREMOLD SURFACE METAL RACEWAY DOWN WALL FROM ABOVE CEILING TO SENSOR MOUNTED ON WIREMOLD SURFACE MOUNTED OUTLET BOX.

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