Date: February 13, 2026

TO: Prospective Bidders

RE: ISFA Rate Field – HVAC FY2026
Engineer's Project Number: 25080
**Addendum Number: 01**

This Addendum consists of additions and/or modifications to the plans and/or specifications to the bidding and contract documents dated January 30, 2026. The changes to these documents are only in the manner and to the extent stated herein. All drawings have "Issued for Addendum 1" and "2/13/26" in the title block. Changes are bubbled and tagged with revision Delta 1. This Addendum supersedes any oral or written information previously delivered. Contractor to acknowledge receipt of this Addendum 1 on the Bid Form; failure to do so may subject bidder to disqualification.

**Revise PROJECT MANUAL as follows:**

1. Bid Form
    a. Contractor to acknowledge receipt of this Addendum 1 on the Bid Form.

**Revise DRAWINGS as follows:**

1. M2.01 Mechanical Plans
    a. View 2: REVISE AHU-6-3B CFM.
    b. View 2: ADD ceiling uninstall/reinstall requirement.
    c. View 3: REVISE thermostat location.

2. M2.02 Mechanical Plans
    a. View 4: REVISE isolation valve requirements. Existing isolation valves to remain and be re-used.

3. M4.01 Mechanical Schedules
    a. AHU Schedule: CLARIFIED AHU-5B-3 dimensions.
    b. AHU Schedule: Revise AHU-6-3B size and performance data.

4. M6.01 Mechanical Controls
    a. View 1: REVISE damper points to binary (previous analog).
    b. View 1: DELETE heater amps.

**CLARIFICATIONS TO THE DOCUMENTS as follows:**

1. **Question**: Is there to be one WBE/MBE affidavit per bid item, or one WBE/MBE affidavit for the whole project? **Answer**: Only one WBE/MBE affidavit is required for the whole project.

2. **Question**: What are the allowable construction working hours? **Answer**: 6:00 am to 6:00 pm, Monday through Friday. Overtime allowed with approval of owner.

3. **Question**: Can Siemens contact information be shared?
   **Answer**:

   Craig Crawford, P.E., LEED AP
   Siemens Industry, Inc.
   RC-US SI RAM Z3 CHI SAL-AUTO1
   585 Slawin Court
   Mount Prospect, IL 60056, USA
   Fax: +1 866 269-1557
   Mobile: +1 847 305-0665
   mailto:craig.crawford@siemens.com

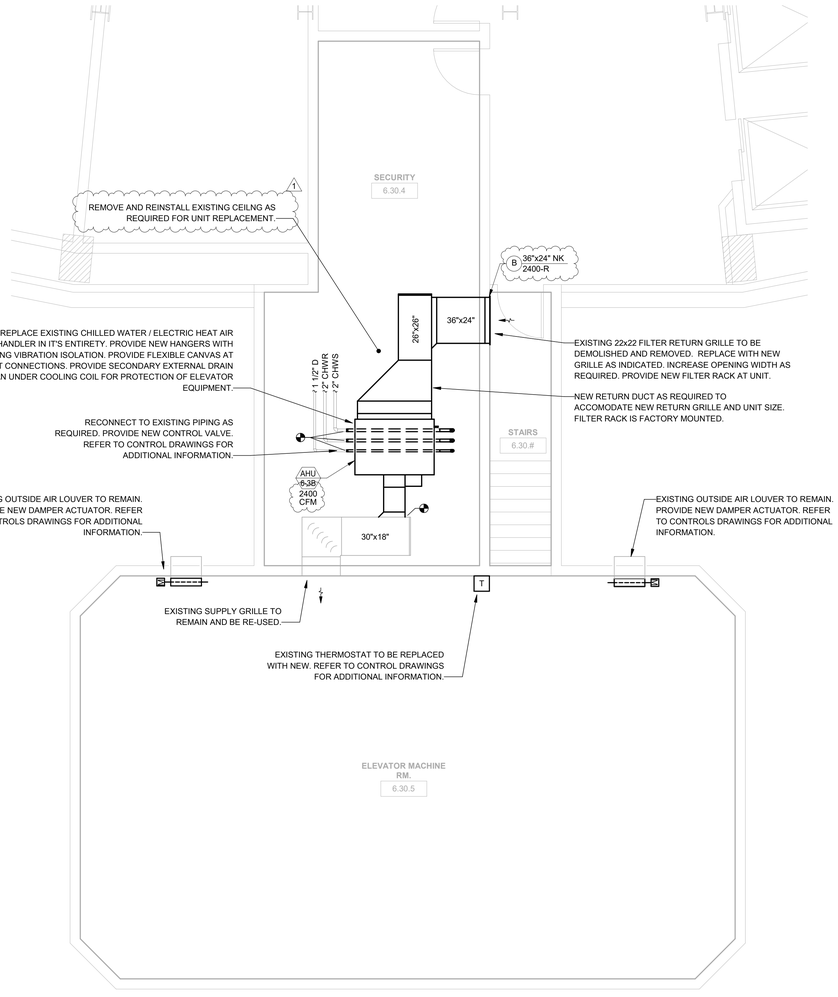
Sincerely,

**CHRIS CARTER** – PROJECT ENGINEER
**ELARA ENGINEERING**
CHICAGO, IL • HILLSIDE, IL
**V:** 630-204-1218 • **F:** 708-236-0330
WWW.ELARAENG.COM

Attachments

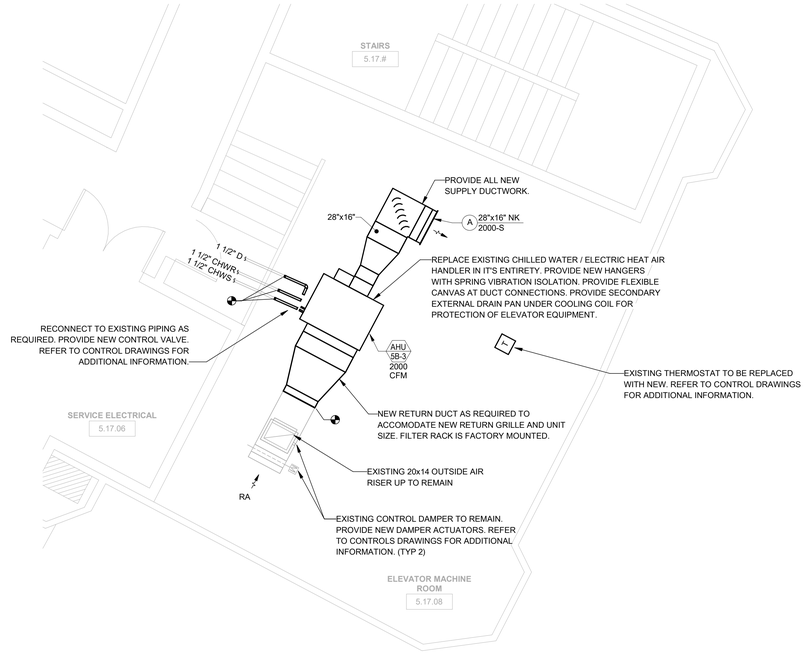
1. M2.01
2. M2.02
3. M4.01
4. M6.01

**END OF ADDENDUM NO. 1**



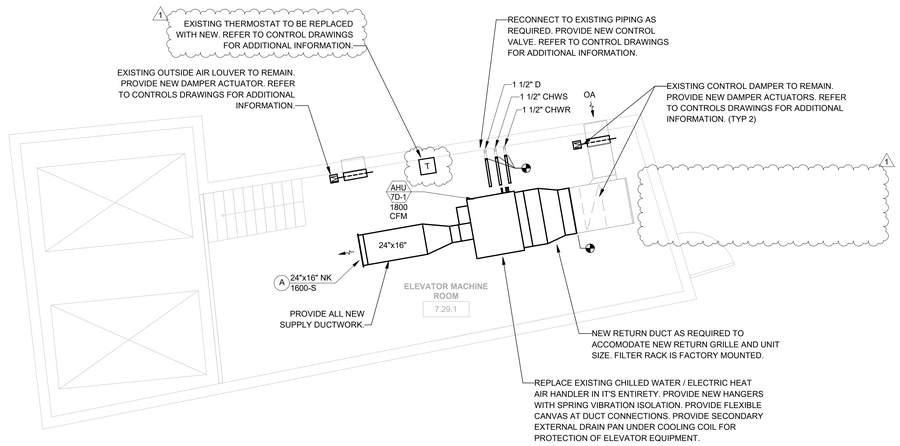

## 2 MECHANICAL PLAN - ELEV. 7, 8, 9, & 10 MACHINE ROOM - 500 LEVEL

SCALE: 1/4" = 1'-0"




## 1 MECHANICAL PLAN - ELEV. 3 & 4 MACHINE ROOM - 400 LEVEL

SCALE: 1/4" = 1'-0"




## 3 MECHANICAL PLAN - ELEV. 5 & 6 MACHINE ROOM - 600 LEVEL

SCALE: 1/4" = 1'-0"

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ISFA
ILLINOIS SPORTS FACILITIES AUTHORITY

ISSUE/REVISION:

| REV | DATE | DESCRIPTION |
|---|---|---|
| | 1/30/2026 | ISSUED FOR BID |
| 1 | 2/13/26 | ADDENDUM 1 |

PROJECT:
RATE FIELD - HVAC FY2026

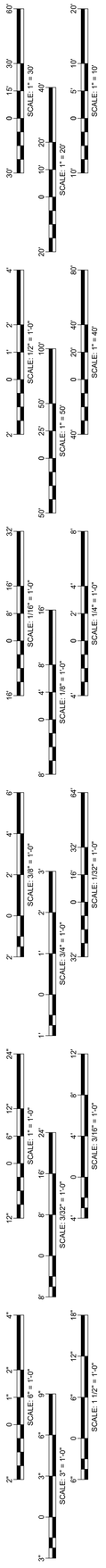
333 WEST 35TH STREET
CHICAGO, IL 60616

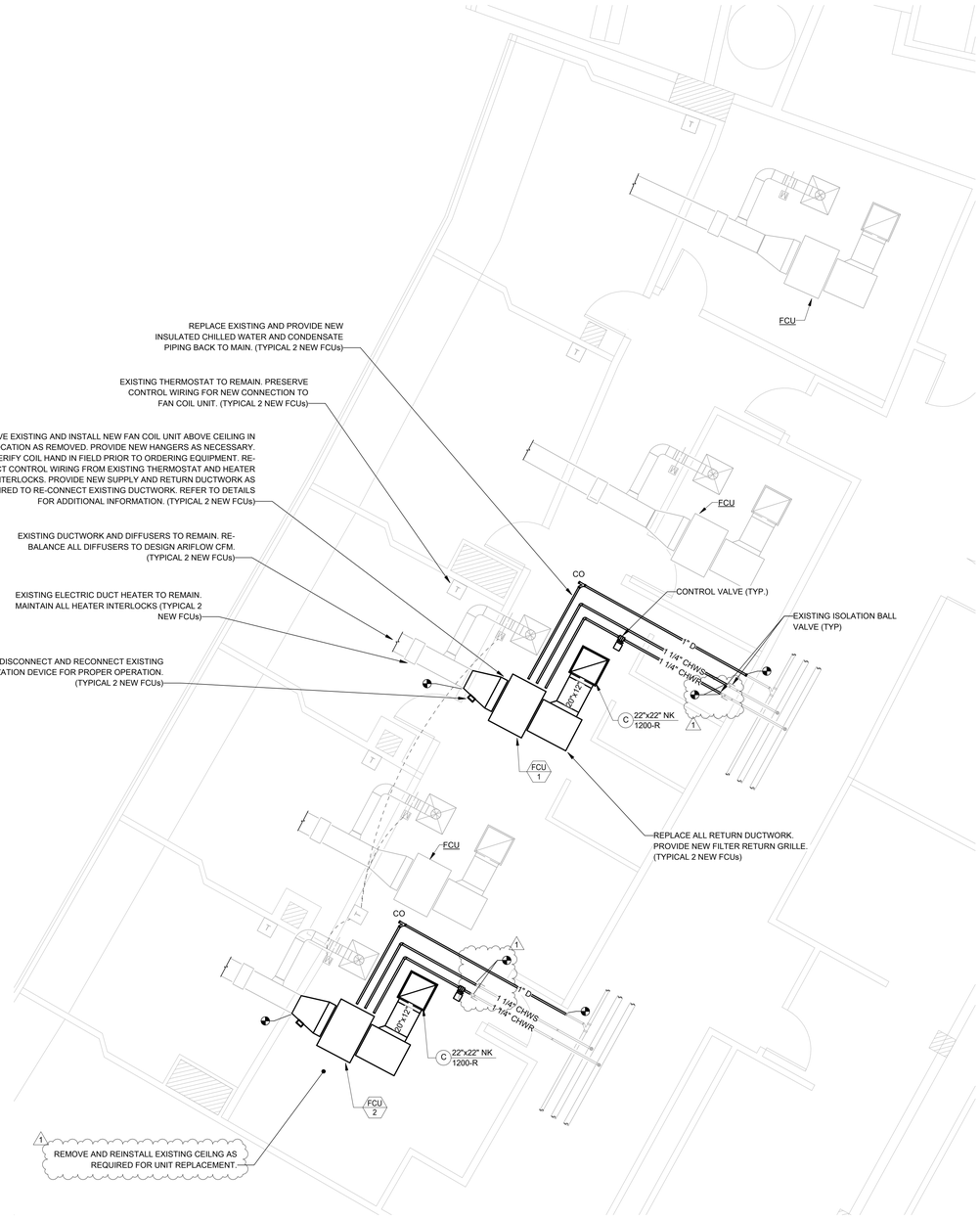
DRAWING TITLE:
MECHANICAL PLANS

| | |
|---|---|
| DESIGNED BY: | MO |
| CHECKED BY: | CC |
| PROJECT NO: | 25080 |
| SCALE: | 1/4" = 1'-0" |

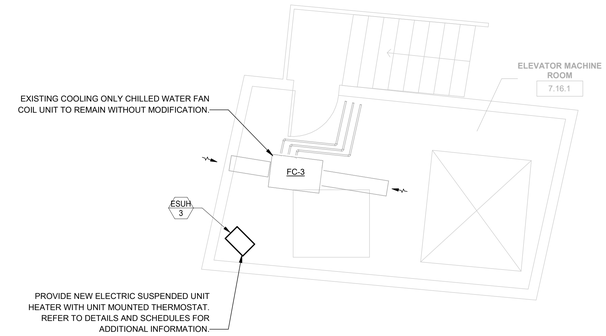
SHEET NO.

M2.01

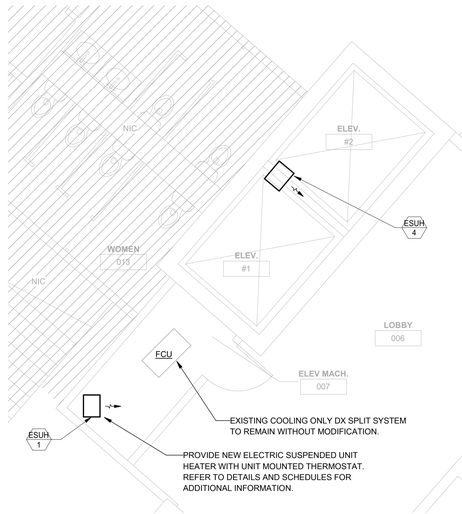


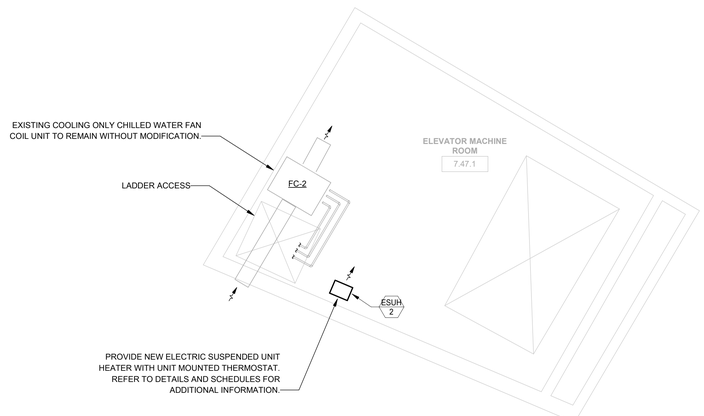

4 MECHANICAL PLAN - ISFA OFFICES - 400 LEVEL
SCALE: 1/4" = 1'-0"




1 MECHANICAL PLAN - ELEV. 1 MACHINE ROOM - 600 LEVEL
SCALE: 1/4" = 1'-0"




MECHANICAL PLAN - ELEV. 12 & 13 MACHINE ROOM - GROUND LEVEL
3 SCALE: 1/4" = 1'-0"




2 MECHANICAL PLAN - ELEV. 11 MACHINE ROOM - 600 LEVEL
SCALE: 1/4" = 1'-0"

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| 1 | 2/13/26 | ADDENDUM 1 |

PROJECT:
RATE FIELD - HVAC FY2026

333 WEST 35TH STREET
CHICAGO, IL 60616

DRAWING TITLE:
MECHANICAL PLANS

| | |
|---|---|
| DESIGNED BY: | MO |
| CHECKED BY: | CC |
| PROJECT NO: | 25080 |
| SCALE: | 1/4" = 1'-0" |

SHEET NO.
M2.02

## AIR HANDLING UNIT SCHEDULE (AHU)

| EQUIP. TAG | | GENERAL | | | | | | | | | SUPPLY FAN | | | | | | | | | COOLING DATA | | | | | | | | | HEATING DATA | | | | | | ELECTRICAL DATA | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ABB. | NO. | LOCATION | MFR | MODEL | OPERATING WEIGHT (LBS) | COIL HAND | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | MIN. OA (CFM) | TOTAL AIR FLOW (CFM) | ESP (IN. WC) | TYPE | QTY. | FAN RPM | MOTOR | | | TYPE | EAT DB/WB (DEG.F) | LAT DB/WB (DEG.F) | EWT (DEG.F) | LWT (DEG.F) | WATER FLOW (GPM) | WATER PD (FT. HD.) | TOTAL CAPACITY (MBH) | SENSIBLE CAPACITY (MBH) | TYPE | EAT (DEG.F) | LAT (DEG.F) | TOTAL CAPACITY (KW) | STAGES | SENSIBLE CAPACITY (MBH) | VOLTS | HZ | PHASE | NOTES |
| | | | | | | | | | | | | | | | | RPM | HP (EACH) | BHP (EACH) | | | | | | | | | | | | | | | | | | | |
| AHU | 5B-3 | ELEVATOR 3, 4 MACHINE ROOM | CARRIER | 42DHA208RGMGDKAMKA | 309 | RIGHT | 40-1/4 | 48 | 24 | 300 | 2000 | 0.75 | DIRECT | 1 | 1108 | 1108 | 1 | - | ETHYLENE GLYCOL | 82.3 / 68.9 | 54.5 / 53.6 | 44 | 54 | 20.9 | 33.2 | 96.1 | 61.40 | ELECTRIC COIL | 50 | 61.1 | 7 | 2 | 23.90 | 460 | 60 | 3 | SEE BELOW |
| 1 AHU | 6-3B | ELEVATOR 7,8,9,10 MACHINE ROOM | CARRIER | 42BHE20LG5R12408GG | 309 | RIGHT | 40-1/4 | 48 | 21-1/2 | 400 | 2400 | 0.75 | BELT | 1 | 1068 | 1068 | 2 | 1.13 | ETHYLENE GLYCOL | 81.3 / 68.1. | 56.9 / 55.8 | 44 | 54 | 20.4 | 23.6 | 93.6 | 64.5 | ELECTRIC COIL | 50 | 76.2 | 20 | 3 | 67.9 | 480 | 60 | 3 | SEE BELOW |
| AHU | 7D-1 | ELEVATOR 5, 6 MACHINE ROOM | CARRIER | 42DHA168RGMGDMAMKA | 309 | LEFT | 37-3/4 | 47 | 21-1/2 | 200 | 1600 | 0.75 | DIRECT | 1 | 1341 | 1341 | 1 | - | ETHYLENE GLYCOL | 81.9 / 68.6 | 56.4 / 55.2 | 44 | 54 | 16.7 | 28.8 | 76.6 | 50.7 | ELECTRIC COIL | 50 | 67.4 | 9.9 | 2 | 33.8 | 460 | 60 | 3 | SEE BELOW |

NOTES:

1. MANUFACTURER PROVIDED 1 YEAR PARTS WARRANTY ON ENTIRE UNIT. MECHANICAL CONTRACTOR TO PROVIDE A 1 YEAR LABOR WARRANTY FOR THE ENTIRE UNIT.
2. FACTORY HEATER FUSING AND 40A DISCONNECT (AHU-5B-3 AND AHU-7D-1)
3. MOTOR AND ELECTRIC HEAT CONTROLS WITH FUSED DISCONNECT 41 TO 60 AMPS (AHU-6-3B)
4. VIBRATION ISOLATION AND OVERHEAD SUSPENSION BRACKETS.
5. CONDENSATE OVERFLOW SWITCH.
6. MULTI-SLOPED STAINLESS STEEL DRAIN PANS UNDER ANY COOLING COIL.
7. MANUFACTURER CERTIFIED START-UP.
8. 350 PSIG COIL TEST PRESSURE. 300 PSIG OPERATION PRESSURE.
9. STANDARD 1" THROWAWAY FILTER. PROVIDE (1) EXTRA SET OF FILTERS FOR OWNERS STOCK.
10. CHILLED WATER COILS ARE SCHDULED WITH 30% EG.
11. DOUBLE WALL 2/ 1" FIBERGLASS AND SOLID INNER LINER.
12. REAR RETURN / FRONT SUPPLY.
13. SINGLE POINT POWER CONNECTION.
14. PROVIDE WITH FILTER RACK.

## HYDRONIC FAN COIL UNITS (FCU)

| EQUIP. TAG | | GENERAL | | | | | | | | PERFORMANCE | | | | | | | ELECTRICAL | | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ABB. | NO. | LOCATION | SERVICE | MFR | MODEL | TYPE | OPERATING WEIGHT (LBS) | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | AIRFLOW (CFM) | ESP (IN. WC) | TOTAL COOLING CAPACITY (MBH) | SENSIBLE COOLING CAPACITY (MBH) | EAT DB/WB (°F) | LAT DB/WB (°F) | CHW FLOW (GPM) | FILTERS | VOLTS | HZ | PHASE | |
| FCU | 1 | ISFA OFFICE SUITE | ISFA OFFICE SUITE | CARRIER | 42DCA12 | HORIZONTAL DUCTED | 169 | 46 | 29.5 | 16.5 | 1200 | 0.3 | 44.6 | 25.5 | 75 / 67 | 54.6 / 54.3 | 9.9 | MERV 13 | 115 | 60 | 1 | SEE BELOW |
| FCU | 2 | ISFA OFFICE SUITE | ISFA OFFICE SUITE | CARRIER | 42DCA12 | HORIZONTAL DUCTED | 169 | 46 | 29.5 | 16.5 | 1200 | 0.3 | 44.6 | 25.5 | 75 / 67 | 54.6 / 54.3 | 9.9 | MERV 13 | 115 | 60 | 1 | SEE BELOW |

NOTES:

1. CAPACITIES ARE BASED ON HIGH FAN SPEED.
2. COIL CONNECTION HAND TO BE DETERMINED BY MECHANICAL CONTRACTOR.
3. EXISTING ELECTRIC HEATING COIL SHALL REMAIN AND BE RE-USED.
4. COORDINATE CONTROLS WITH BUILDING TEMPERATURE CONTROLS CONTRACTOR FOR THERMOSTATS, CONTROL VAVLES, INTERCONNECTION OF FAN COIL AND ELECTRIC HEATING COIL.
5. INCLUDE 1" THROWAWAY FILTERS.
6. ALL UNITS TO BE SIZED FOR 30% ETHYLENE GLYCOL CONCENTRATION IN CHILLED WATER.
7. FUSED DISCONNECT.
8. NO ALTERNATE MANUFACTURER'S PERMITTED. UNIT TO BE SOLE-SOURCED TO MATCH EXISTING UNITS AND SYSTEM CURRENTLY PRESENT IN FACILITY.

## ELECTRIC SUSPENDED UNIT HEATERS (ESUH)

| EQUIP. TAG | | GENERAL | | | | | | | | PERFORMANCE | ELECTRICAL | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ABB. | NO. | LOCATION | MFR | MODEL | SHIPPING WEIGHT (LBS) | MOUNTING TYPE | LENGTH (IN) | WIDTH (IN) | HEIGHT (IN) | KW | AIRFLOW (CFM) | VOLTS | HZ | PHASE | |
| ESUH | 1 | ELEVATOR 12. 13 MACHINE ROOM | KING | KB4803-3 | 30.5 | SUSPENDED | 15 | 11 | 16.5 | 3 | 520 | 480 | 60 | 3 | 1,2 |
| ESUH | 2 | ELEVATOR 11 MACHINE ROOM | KING | KB4805-3 | 30.5 | SUSPENDED | 15 | 11 | 16.5 | 5 | 520 | 480 | 60 | 3 | 1,2 |
| ESUH | 3 | ELEVATOR 1 MACHINE ROOM | KING | KB4805-3 | 30.5 | SUSPENDED | 15 | 11 | 16.5 | 5 | 520 | 480 | 60 | 3 | 1,2 |
| ESUH | 4 | ELEVATOR 12, 13 HOISTWAY | KING | KB4810-3 | 45 | ELEVATOR HOISTWAY WALL | 15 | 13.5 | 16.5 | 10 | 800 | 480 | 60 | 3 | 2,3,4 |
| ESUH | 5 | ELEVATOR 11 HOISTWAY | KING | KB4805-3 | 30.5 | ELEVATOR HOISTWAY WALL | 15 | 11 | 16.5 | 5 | 520 | 480 | 60 | 3 | 2,3,4 |
| ESUH | 6 | ELEVATOR 7,8 HOISTWAY | KING | KB4810-3 | 45 | ELEVATOR HOISTWAY WALL | 15 | 13.5 | 16.5 | 10 | 800 | 480 | 60 | 3 | 2,3,4 |
| ESUH | 7 | ELEVATOR 9,10 HOISTWAY | KING | KB4810-3 | 30.5 | ELEVATOR HOISTWAY WALL | 15 | 13.5 | 16.5 | 10 | 800 | 480 | 60 | 3 | 2,3,4 |
| ESUH | 8 | ELEVATOR 1 HOISTWAY | KING | KB4805-3 | 30.5 | ELEVATOR HOISTWAY WALL | 15 | 11 | 16.5 | 5 | 520 | 480 | 60 | 3 | 2,3,4 |

NOTES:

1. UNIT MOUNTED THERMOSTAT PROVIDED BY MANUFACTURER.
2. LOCAL DISCONNECT PROVIDED BY MANUFACTURER, FIELD MOUNTED BY ELECTRICAL CONTRACTOR.
3. ELEVATOR HOISTWAY APPLICATION. PROVIDE SWING ARM SUPPORT.
4. REMOTE MOUNTED THERMOSTAT. AT TOP OF HOISTWAY
5. 3 WIRE.

## GRILLES, REGISTERS, AND DIFFUSER SCHEDULE

| EQUIP. TAG | MFR | MODEL | TYPE | MATERIAL | SIZE | MAX. NC | NOTES |
|---|---|---|---|---|---|---|---|
| A | TITUS | 300RL | SUFACE MOUNTED DOUBLE DEFLECTION | ALUMINUM | VARIES | 30 | SEE BELOW |
| B | TITUS | 350RL | EXHAUST GRILLE | STEEL | VARIES | 30 | SEE BELOW |
| C | TITUS | 50FF | FILTER RETURN GRILLE | ALUMINUM | 22"x22" NECK | 30 | SEE BELOW |

NOTES:

1. CONTRACTOR SHALL VERIFY BORDER TYPE INCLUDING FRAME, FLANGE, AND SECURING METHOD IN EACH APPLICATION; REFER TO...
2. COLOR WHITE.
3. SURFACE MOUNT.
4. LAY-IN FRAME.
5. PROVIDE HINGE WITH QUARTER TURN FASTENER. FURNISH WITH 2" MERV 8 FILTER.

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| | 1/30/2026 | ISSUED FOR BID |
| 1 | 2/13/26 | ADDENDUM 1 |

PROJECT:
RATE FIELD - HVAC FY2026

333 WEST 35TH STREET
CHICAGO, IL 60616

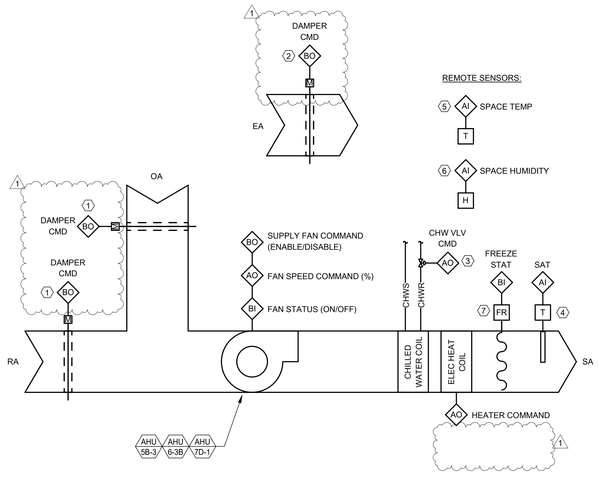
DRAWING TITLE:
MECHANICAL SCHEDULES

| | |
|---|---|
| DESIGNED BY: | MO |
| CHECKED BY: | CC |
| PROJECT NO: | 25080 |
| SCALE: | NO SCALE |

SHEET NO.
M4.01

## AHU BAS KEYED NOTES

1. DAMPER TO REMAIN. BASC TO FURNISH AND INSTALL REPLACEMENT ACTUATOR AND ENSURE PROPER OPERATION OF DAMPER. (AHU-5B-3 AND AHU-7D-1 ONLY)
2. DAMPER TO REMAIN. BASC TO FURNISH AND INSTALL REPLACEMENT ACTUATOR AND ENSURE PROPER OPERATION OF DAMPER. (MECHANICAL ROOMS 6.30.5 AND 7.29.1 ONLY)
3. BASC SHALL PROVIDE TWO-WAY MODULATING CONTROL VALVE FOR AHU COOLING COIL, FOR MC TO INSTALL. BASC RESPONSIBLE FOR ALL LOW VOLTAGE WIRING AND RACEWAYS. EACH CONTROL VALVE SHALL HAVE 24 VOLT ACTUATORS AND SHALL BE CONFIGURED TO FAIL CLOSED ON LOSS OF POWER AND ON LOSS OF CONTROL SIGNAL SO THAT CONTROL VALVE CLOSES IF CONDENSATE OVERFLOW SWITCH IS ACTIVATED. PROVIDE PRESSURE INDEPENDENT CONTROL VALVES (PICVS) THAT CAN BE FIELD ADJUSTED ABOVE AND BELOW THE FLOW RATES SPECIFIED IN THIS SCHEDULE. VALVE TO BE SELECTED SO THAT THE SPECIFIED FLOW RATE FALLS WITHIN THE MIDDLE OF THE CONTROL VALVE FLOW RANGE. CONTROL VALVES TO HAVE MINIMUM ANSI CLASS OF 125 AND MINIMUM 100PSI CLOSE OFF PRESSURE RATING. CONTROL VALVE SHALL INCLUDE BRASS TRIM AND STAINLESS STEEL STEM. EACH VALVE SHALL INCLUDE THE P/T TEST POINT OPTION.
4. BASC TO PROVIDE SUPPLY AIR TEMPERATURE SENSOR. TEMPERATURE SENSOR PROBE LENGTH TO BE SIZED SO THAT IT READS IN THE CENTER OF THE DUCTWORK.
5. BASC TO PROVIDE SPACE TEMPERATURE SENSORS AND ADD POINTS TO BAS FOR EACH AHU. REFER TO FLOOR PLANS FOR APPROXIMATE SENSOR LOCATIONS; COORDINATE FINAL LOCATION WITH OWNER. PROVIDE TEMPERATURE SENSOR WITH FLAT-PLATE FACE.
6. BASC TO PROVIDE HUMIDITY SENSOR. COMBINATION SENSOR IS ACCEPTABLE.
7. BASC TO FURNISH AND INSTALL FREEZESTAT.




## 1 AIR HANDLING UNIT - CONTROLS SCHEMATIC

SCALE: NO SCALE

## AHU SEQUENCE OF OPERATION

1. SYSTEM DESCRIPTION
   A. APPLIES TO INDOOR AIR HANDLERS SERVING ELEVATOR MACHINE ROOMS. THE AHUs ARE EQUIPPED WITH THE FOLLOWING:
      a. OUTSIDE AIR DAMPER (WHERE INDICATED)
      b. RETURN AIR DAMPER (WHERE INDICATED)
      c. CHILLED WATER COOLING COIL WITH MODULATING VALVE
      d. ELECTRIC HEATING COIL
      e. CONSTANT VOLUME SUPPLY FAN
      f. REMOTE SPACE TEMPERATURE SENSOR AND SPACE HUMIDITY SENSOR
2. SCHEDULING:
   A. THE AHU SHALL OPERATE YEAR-ROUND AS REQUIRED TO MAINTAIN SPACE CONDITIONS.
   B. NO UNOCCUPIED MODE SHALL BE USED. NO NIGHT SETBACK SHALL APPLY.
3. UNIT START-UP:
   A. THE AHU SHALL ENABLE WHEN ANY OF THE FOLLOWING CONDITIONS ARE TRUE:
      a. SPACE TEMPERATURE IS BELOW 50°F (ADJ.)
      b. SPACE TEMPERATURE IS ABOVE 80°F (ADJ.)
      c. SPACE HUMIDITY IS ABOVE 80% RH (ADJ.)
      d. THE BAS ISSUES A GENERAL ENABLE COMMAND
   B. UPON ENABLE, CONFIRM THE FOLLOWING CONDITIONS PRIOR TO START:
      a. CHILLED WATER PUMP IS AVAILABLE (IF COOLING IS REQUIRED).
      b. DISCHARGE AIR TEMPERATURE (DAT) SENSOR IS READING VALID VALUES.
   C. AHU START SEQUENCE:
      a. SUPPLY FAN SHALL START.
      b. OUTSIDE AIR AND RETURN AIR DAMPERS SHALL DRIVE TO OCCUPIED/MINIMUM POSITIONS.
      c. HEATING AND COOLING CONTROL LOOPS SHALL BE ENABLED.
4. UNIT SHUTDOWN:
   A. UNIT SHALL SHUT DOWN ONLY IF:
      a. A SAFETY TRIP OCCURS, OR
      b. THE BAS IS MANUALLY COMMANDED OFF FOR SERVICE.
   B. UPON SHUTDOWN, DAMPERS SHALL CLOSE AND SUPPLY FAN SHALL STOP.
5. FAN CONTROL:
   A. SUPPLY FAN SHALL OPERATE CONTINUOUSLY WHEN THE AHU IS ENABLED.
6. COOLING CONTROL - CHILLED WATER COIL:
   A. THE CHILLED WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE COOLING SETPOINT (80°F MAX. ADJ.).
   B. THE VALVE SHALL MODULATE OPEN AS THE SPACE TEMPERATURE RISES ABOVE SETPOINT AND MODULATE CLOSED AS THE SPACE TEMPERATURE FALLS BELOW SETPOINT.
7. HEATING CONTROL - ELECTRIC HEATING COIL:
   A. ELECTRIC HEATING SHALL BE ENABLED WHEN THE SPACE TEMPERATURE FALLS BELOW 50°F (ADJ.).
   B. ELECTRIC HEATING SHALL DE-ENERGIZE WHEN THE SPACE TEMPERATURE SETPOINT (50°F MINIMUM) IS SATISFIED.
   C. HIGH-TEMPERATURE SAFETY CUTOUT SHALL TRIP HEAT AND GENERATE AN ALARM.
8. VENTILATION CONTROL – OA/RA DAMPERS:
   A. OUTSIDE AIR DAMPER SHALL MAINTAIN A MINIMUM POSITION FOR VENTILATION.
   B. RETURN AIR DAMPER SHALL MODULATE IN SEQUENCE WITH OUTSIDE AIR DAMPER.
   C. DAMPERS SHALL CLOSE ONLY ON MANUAL SYSTEM SHUTDOWN OR SAFETY TRIP.
9. HUMIDITY MONITORING:
   A. BAS SHALL MONITOR SPACE RELATIVE HUMIDITY.
   B. HIGH HUMIDITY ALARM SHALL BE GENERATED WHEN SPACE HUMIDITY EXCEEDS 80% RH (ADJ.) FOR 10 MINUTES (ADJ.).
10. GRAPHICS:
    A. DISPLAY THE FOLLOWING ON THE BAS GRAPHICS:
       a. SPACE TEMPERATURE
       b. SPACE HUMIDITY
       c. DISCHARGE AIR TEMPERATURE
       d. COOLING VALVE POSITION
       e. OA/RA DAMPER POSITIONS
11. ALARMS:
    A. CRITICAL ALARMS SHALL BE ANNUNCIATED AT THE OPERATOR WORKSTATION AND EMAILED TO THE OWNER.
       a. CRITICAL ALARMS SHALL INCLUDE:
          - SPACE TEMPERATURE BELOW 50°F (ADJ.)
          - SPACE TEMPERATURE ABOVE 90°F (ADJ.)
          - SPACE HUMIDITY ABOVE 80% RH (ADJ.)
          - HIGH-TEMPERATURE TRIP ON ELECTRIC HEAT

**AHU POINTS LIST**

| NAME | FACETS | TYPE | R/W | GRAPHIC | ALARM | TREND | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ZoneTemp | °F | AI | R | G | N | Y | |
| ZoneTempSp | °F | AI | R/W | G | N | Y | |
| ZoneTempAlmDelay | Min | AV | R/W | P | N | N | |
| ZoneTempAlm | ALARM/NORMAL | BV | R | G | Y | N | |
| ZoneHum | %RH | AI | R | G | N | Y | |
| FreezeStat | ALARM/NORMAL | BI | R | G | Y | N | Freeze Protection Device |
| SupAirTemp | °F | AI | R | G | N | Y | Probe Temperature Sensor |
| SupFanSts | ON/OFF | BI | R | G | N | Y | Current Switch |
| SupFanCmd | START/STOP | BO | R/w | G | N | Y | |
| SupFanSpdCmd | % | AO | R/W | G | N | Y | |
| OutAirDprCmd | % OPEN | AO | R/W | G | N | Y | Motorized Damper Actuator |
| RetAirDprCmd | % OPEN | AO | R/W | G | N | Y | Motorized Damper Actuator |
| ExhAirDprCmd | % OPEN | AO | R/W | G | N | Y | Motorized Damper Actuator |
| ChWtrVlvCmd | % OPEN | AO | R/W | G | N | Y | Control Valve |
| OccCmd | OCCUPIED/UNOCCUPIED | BV | R/W | G | N | Y | |
| UnoccAHUClgCall | N/A | BV | R | G | N | N | |
| SupFanRtTotal | Hr | AV | R | P | N | N | |
| SupFanRunFailDelay | Min | AV | R/W | P | N | N | |
| SupFanRunFailAlm | ALARM/NORMAL | BV | R | G | Y | N | |
| SupAirTempSp | °F | AV | R/W | G | N | Y | |
| SupAirTempSpMax | °F | AV | R/W | P | N | Y | |
| SupAirTempSpMin | °F | AV | R/W | P | N | Y | |
| ClgLockOutSp | °F | AV | R/W | G | N | Y | |
| ClgLockOutSpDb | °F | AV | R/W | P | N | N | |
| ElecHtgEnableCmd | START/STOP | AO | R/W | G | N | Y | |
| ElecHtgSts | AMPS | AI | R | G | N | Y | |
| ElecHtgLockout | N/A | AV | R/W | G | N | N | |
| ElecHtgSafetyAlm | ALARM/NORMAL | AV | R | G | Y | N | |
| OutAirDprMinPosSp | % OPEN | AV | R/W | G | N | Y | |
| MaxFlwOutAirDprPosSp | % OPEN | AV | R/W | P | N | N | |
| MaxFlwFanSpdPct | % | AV | R/W | P | N | N | |
| MinFlwOutAirDprPosSp | % OPEN | AV | R/W | P | N | N | |
| MinFlwFanSpdPct | % | AV | R/W | P | N | N | |
| LowSupAirTempAlmSp | °F | AV | R/W | G | N | N | |
| LowSupAirTempAlmDelay | Sec | AV | R/W | P | N | N | |
| LowSupAirTempAlm | ALARM/NORMAL | BV | R | G | Y | N | |
| LowSupAirTempAlmReset | RESET/NORMAL | BV | R/W | G | N | N | |
| OutAirFlowAlm | ALARM/NORMAL | BV | R | G | Y | N | |
| OutAirFlowAlmDelay | Min | AV | R/W | P | N | N | |

**NOTES:**

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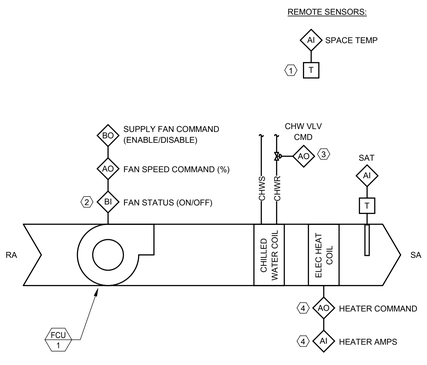
## FCU BAS KEYED NOTES

1. EXISTING SPACE TEMPERATURE SENSOR TO REMAIN.
2. BASC TO FURNISH AND INSTALL CURRENT SENSOR TO MONITOR FAN STATUS.
3. BASC TO FURNISH NEW CONTROL VALVE AND ACTUATOR, MC TO INSTALL NEW CONTROL VALVE. BASC RESPONSIBLE FOR FURNISHING, INSTALLING, AND WIRING THE ACTUATOR.
4. EXISTING ELECTRIC HEATING COIL AND EXISTING POINTS TO REMAIN AND BE RE-USED.




## 2 FAN COIL UNIT - CONTROLS SCHEMATIC

SCALE: NO SCALE

## FCU SEQUENCE OF OPERATION

A. SYSTEM ENABLE/DISABLE.
   1. THE FAN COIL SHALL BE ENABLED BY AN OCCUPANCY SCHEDULE.
      a. BAS TO COORDINATE WITH OWNER FOR OCCUPANCY SCHEDULE
   2. DURING OCCUPIED MODES THE UNIT SHALL CONTROL TO A ZONE TEMPERATURE SETPOINT OF 72°F (ADJ) WITH A ±2°F (ADJ) DEADBAND.
      a. PROVIDE A 5 MIN (ADJ) DELAY WHEN SWITCHING FROM HEATING TO COOLING MODE.
      b. ALLOW THE USER TO ADJUST THE SETPOINT ±2°F (ADJ) LOCALLY AT THE THERMOSTAT.
      c. ALLOW THE USER TO MANUALLY OCCUPY THE UNIT FOR AT MOST 2 HRS (ADJ).
   3. DURING UNOCCUPIED MODES THE UNIT SHALL MAINTAIN AN UNOCCUPIED COOLING SETPOINT OF 80°F (ADJ) AND AN UNOCCUPIED HEATING SETPOINT OF 65°F (ADJ).
      a. THE UNIT SHALL STAY IN UNOCCUPIED COOLING MODE UNTIL THE SPACE TEMPERATURE IS BELOW 76°F (ADJ).
      b. THE UNIT SHALL STAY IN UNOCCUPIED HEATING MODE UNTIL THE SPACE TEMPERATURE IS ABOVE 68° F (ADJ).

B. SUPPLY FAN CONTROL.
   1. THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED MODES.
   2. THE SUPPLY FAN SHALL CYCLE ON FOR UNOCCUPIED MODES.
   3. PROVIDE A TOTAL RUNTIME FOR THE SUPPLY FAN.
   4. F THE SUPPLY FAN IS COMMANDED ON AND STATUS IS NOT PROVEN IN 2 MIN (ADJ) SEND A FAN RUN FAILURE ALARM TO THE OPERATOR WORKSTATION.

C. SUPPLY FAN SPEED CONTROL.
   1. DURING NORMAL OPERATION THE FAN SHALL RUN AT A BALANCER DETERMINED SPEED.
   2. IF THE UNIT IS IN HEATING MODE AND THE HEATING PID IS AT 100% (ADJ) FOR 15 MINS (ADJ) INCREASE THE FAN SPEED TO 100% (ADJ).
   3. IF THE UNIT IS IN COOLING MODE AND THE COOLING PID IS AT 100% (ADJ) FOR 15 MINS (ADJ) INCREASE THE FAN SPEED TO 100% (ADJ).

D. TEMPERATURE CONTROL
   1. COOLING
      a. WHEN THE UNIT IS IN COOLING MODE AND THE CHILLER SYSTEM IS ENABLED, THE CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.
      b. WHEN THE UNIT IS IN HEATING MODE, THE CHILLED WATER VALVE SHALL STAY CLOSED.
   2. HEATING
      A. THE DUCT MOUNTED ELECTRIC HEATING COIL SHALL BE ENABLED WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 30°F (ADJ.) WITH A ±5°F (ADJ.) DEADBAND.
      B. THE DUCT MOUNTED ELECTRIC HEATING COIL SHALL BE MODULATED TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT.

E. DISCHARGE AIR TEMPERATURE SETPOINT CONTROL
   1. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL MODULATE TO MAINTAIN THE ZONE TEMPERATURE SETPOINT.
   2. WHEN THE ZONE IS SATISFIED THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE EQUAL TO THE ZONE TEMPERATURE SETPOINT.
   3. WHEN THE UNIT IS IN HEATING MODE THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL INCREASE FROM THE ZONE TEMPERATURE SETPOINT TO A MAXIMUM OF 95°F (ADJ) AS THE HEATING PID LOOP INCREASES FROM 0% (ADJ) TO 100% (ADJ).
   4. WHEN THE UNIT IS IN COOLING MODE THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL DECREASE FROM THE ZONE TEMPERATURE SETPOINT TO A MINIMUM OF 55°F (ADJ) AS THE COOLING PID LOOP INCREASES FROM 0% (ADJ) TO 100% (ADJ).

F. ALARMS
   1. CRITICAL ALARMS
      a. CRITICAL ALARMS SHALL BE ANNUNCIATED AT THE OPERATOR WORKSTATION AND EMAILED TO THE OWNER.
   2. CRITICAL ALARMS SHALL INCLUDE THE FOLLOWING:
   3. THE SPACE TEMPERATURE IS BELOW 60°F (ADJ) FOR 5 MINS (ADJ) OR ABOVE 85°F (ADJ) FOR 5 MIN (ADJ).
   4. SUPPLY FAN FAILURE

**FCU POINTS LIST**

| NAME | FACETS | TYPE | R/W | GRAPHIC | ALARM | TREND | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| ZoneTemp | °F | AI | R | G | N | Y | |
| ZoneTempSp | °F | AI | R/W | G | N | Y | |
| ZoneTempAlmDelay | Min | AV | R/W | P | N | N | |
| ZoneTempAlm | ALARM/NORMAL | BV | R | G | Y | N | |
| SupAirTemp | °F | AI | R | G | N | Y | Probe Temperature Sensor |
| SupFanSts | ON/OFF | BI | R | G | N | Y | Current Switch |
| SupFanCmd | START/STOP | BO | R/w | G | N | Y | |
| SupFanSpdCmd | % | AO | R/W | G | N | Y | |
| ChWtrVlvCmd | % OPEN | AO | R/W | G | N | Y | Control Valve |
| OccCmd | OCCUPIED/UNOCCUPIED | BV | R/W | G | N | Y | |
| UnoccAHUClgCall | N/A | BV | R | G | N | N | |
| SupFanRtTotal | Hr | AV | R | P | N | N | |
| SupFanRunFailDelay | Min | AV | R/W | P | N | N | |
| SupFanRunFailAlm | ALARM/NORMAL | BV | R | G | Y | N | |
| SupAirTempSp | °F | AV | R/W | G | N | Y | |
| SupAirTempSpMax | °F | AV | R/W | P | N | Y | |
| SupAirTempSpMin | °F | AV | R/W | P | N | Y | |
| ClgLockOutSp | °F | AV | R/W | G | N | Y | |
| ClgLockOutSpDb | °F | AV | R/W | P | N | N | |
| ElecHtgEnableCmd | START/STOP | AO | R/W | G | N | Y | |
| ElecHtgSts | AMPS | AI | R | G | N | Y | |
| ElecHtgLockout | N/A | AV | R/W | G | N | N | |
| ElecHtgSafetyAlm | ALARM/NORMAL | AV | R | G | Y | N | |
| MaxFlwFanSpdPct | % | AV | R/W | P | N | N | |
| MinFlwFanSpdPct | % | AV | R/W | P | N | N | |

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ISSUE/REVISION:

| REV | DATE | DESCRIPTION |
|---|---|---|
| | 1/30/2026 | ISSUED FOR BID |
| 1 | 2/13/26 | ADDENDUM 1 |

PROJECT:
RATE FIELD - HVAC FY2026

333 WEST 35TH STREET
CHICAGO, IL 60616

DRAWING TITLE:
MECHANICAL CONTROLS

| | |
|---|---|
| DESIGNED BY: | MO |
| CHECKED BY: | CC |
| PROJECT NO: | 25080 |
| SCALE: | NO SCALE |

SHEET NO.
M6.01