

## **ADDENDUM NO. 2**

Date: 8/7/26

Project Name: 9525.00 – IPBS Motivair Chiller Replacements

DAS RFB #: 952500-01

DAS Project #: 9525.00

PROPOSALS DUE: **8/11/26**

The receipt of this Addendum shall be acknowledged by the design firm in their submission. This addendum is issued to modify, clarify, or amend the original Project Drawings and Specifications and is hereby made part of the Contract Documents. The Contractor shall be responsible for incorporating items in this Addendum to the Work. The following shall take precedence over anything to the contrary in the Drawings or Specifications.

### **This Addendum consists of:**

- 1) Scope Clarification:
  - a. Remove associated roofing work from bid
    - i. Exclude patching of existing curbs of removed chillers
    - ii. Exclude patching of existing roof for installation of new support beams
- 2) Questions/Reponses:
  - a. Q: Where is the location of the EDP08 that is referenced in the electrical drawings?
    - i. R: It is adjacent to the MDP08 panel in the electrical room.
  - b. Q: Are the existing pump inertia bases being replaced with new inertia bases?
    - i. R: Yes, new inertia bases are to be provided.
  - c. Q: Provide specifications for the base grout.
    - i. R: Any high strength, non-shrink cementitious grout will be acceptable. Example products would be SikaGrout-212/713, Dayton Superior 1107 Advantage or Euclid NC Grout.
- 3) Drawing Updates:
  - a. Mechanical Drawings
    - i. Drawing MD101 – FLOOR PLAN HVAC DEMOLITION
      1. **MODIFY** chilled water piping as shown.
      2. **ADD** proposed chiller staging note as shown.
      3. Refer to attached full size sheet MD101.
    - ii. Drawing M101 – FLOOR PLAN HVAC
      1. **MODIFY** chilled water piping as shown.
      2. Refer to attached full size sheet M101.

iii. Drawing M301 – MECHANICAL DETAILS

1. **MODIFY** chilled water system piping and controls diagram as shown.
2. **ADD** glycol note as shown.
3. Refer to attached full size sheet M301.

iv. Drawing M501 – MECHANICAL SCHEDULES

1. **MODIFY** chiller and dry cooler schedules as shown.
2. Refer to attached full size sheet M501.

b. Electrical Drawings:

i. Drawing E101 – ELECTRICAL POWER

1. **CLARIFY** panel types for panels SB-4 and BE with provided pictures on drawing.
2. **CLARIFY** existing panel locations in the electrical room.  
Updated to match existing conditions.
3. Refer to attached full size sheet MD101.

c. Revised drawings included: MD101, M101, M301, M501, E101

4) Approved Manufacturers:

| <u>Spec Reference</u> | <u>Equipment Type</u> | <u>Manufacturer</u> |
|-----------------------|-----------------------|---------------------|
| 23 21 23              | Hydronic Specialties  | American Wheatley   |
| 23 21 23              | Hydronic Pumps        | Grundfos            |
| 23 65 33              | Dry Cooler            | USA Coil, Guntner   |

**End of Addendum**

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| Project No: | 9525.00    |
| Date:       | 07/06/2026 |

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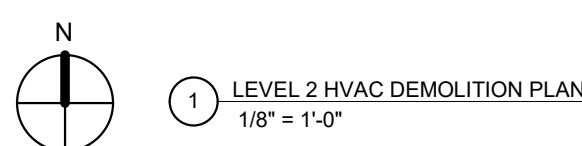
Drawing Name:  
**FLOOR PLAN HVAC  
DEMOLITION**

Drawing #:

# MD101

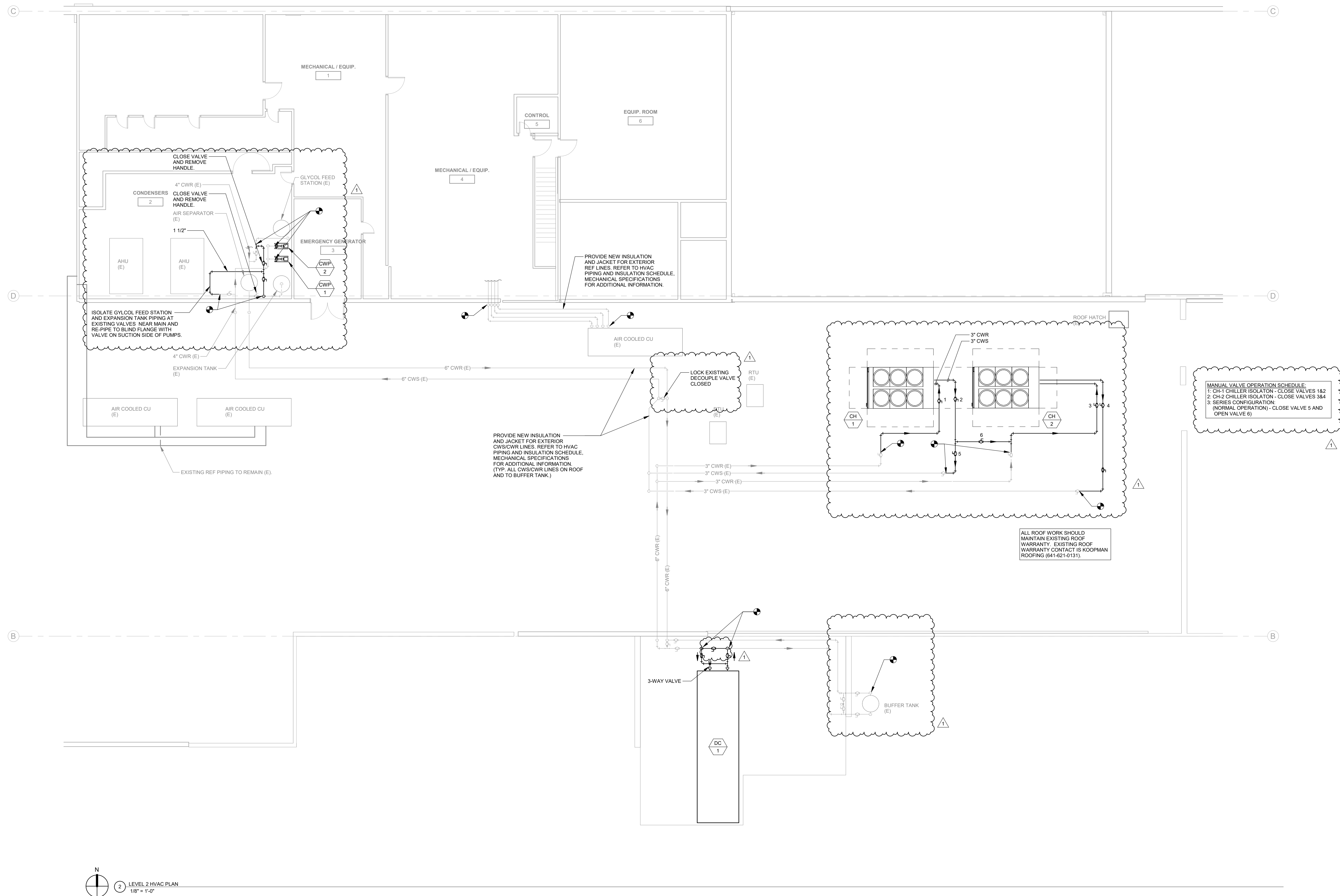
A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.

B. REFER TO M301 FOR MECHANICAL DETAILS AND CONTROLS.



## GENERAL NOTES:

- A. REFER TO M000 FOR GENERAL NOTES & SYMBOLS.  
B. REFER TO M301 FOR MECHANICAL DETAILS AND CONTROLS.



DAS IPBS  
MOTIVAIR CHILLER REPLACEMENT  
6450 CORPORATE DRIVE,  
JOHNSTON, IA 50131

Project No: 9525.00

Date: 07/06/2026

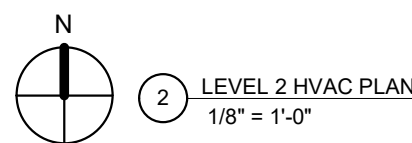
CONSTRUCTION  
DOCUMENTS

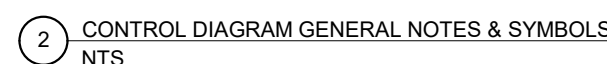
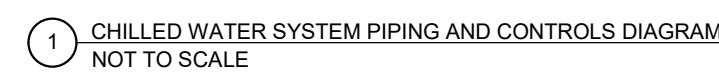
| # | Revision   | Date    |
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| 1 | Addendum 2 | 8.07.26 |
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Drawing Name:  
FLOOR PLAN HVAC

Drawing #:

M101





| # | Revision   | Date    |
|---|------------|---------|
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HVAC PIPING AND INSULATION SCHEDULE

| SYSTEM                        | PIPE SIZE (INCHES) | PIPE MATERIAL (NOTE 1) | JOINT TYPE (NOTE 1) | SHUT-OFF VALVE TYPE (NOTE 4) | INSULATION TYPE (NOTE 2,3) | INSULATION THICKNESS (INCHES) | JACKET (NOTE 5) |
|-------------------------------|--------------------|------------------------|---------------------|------------------------------|----------------------------|-------------------------------|-----------------|
| CHILLED WATER - INTERIOR      | 2 1/2 - 10         | SCHED. 40 STEEL        | GROOVED OR WELDED   | DUCTILE IRON,BUTTERFLY       | ELASTOMERIC                | 2                             | PVC             |
| CHILLED WATER - EXTERIOR      | 2 1/2 - 10         | SCHED. 40 STEEL        | GROOVED OR WELDED   | DUCTILE IRON,BUTTERFLY       | ELASTOMERIC                | 3                             | ALUMINUM        |
| REFRIGERANT PIPING - EXTERIOR | FIELD VERIFY       | N/A                    | N/A                 | N/A                          | ELASTOMERIC                | 1 1/2                         | ALUMINUM        |

- NOTES:
- REFER TO SPECIFICATIONS FOR FURTHER PIPE MATERIAL, JOINT AND INSTALLATION REQUIREMENTS. PUSH TO CONNECT / PUSH ON TYPE CONNECTIONS ARE NOT ALLOWED.
  - REFER TO SPECIFICATIONS FOR FURTHER INSULATION REQUIREMENTS. INSULATION R-VALUE SHALL MEET ENERGY CODE REQUIREMENTS.
  - INSULATION APPLIED TO PIPING LOCATED IN RETURN AIR PLENUMS SHALL MEET ASTM E84 25/50 FLAME AND SMOKE SPREAD RATING, AND COMPLY WITH NFPA STANDARD 90A.
  - REFER TO SPECIFICATIONS FOR FURTHER VALVE REQUIREMENTS.
  - EXPOSED PIPING MOUNTED BELOW 6'-0" ABOVE FLOOR SHALL HAVE PVC AND EXTERIOR PIPING SHALL HAVE ALUMINUM JACKET.

CHILLER SCHEDULE

| REFERENCE                       | CH-1 & CH-2       |
|---------------------------------|-------------------|
| MANUFACTURER                    | TRANE             |
| MODEL #                         | CGAM              |
| TYPE (AIR COOLED)               | AIR COOLED SCROLL |
| SERVES                          | MASTER CONTROLS   |
| OPERATING WEIGHT (LBS)          | 5,700             |
| DIMENSIONS - L x W x H (INCHES) | 146 X 89 X 93     |
| NOMINAL CAPACITY (TON)          | 80                |
| NET COOLING CAPACITY (TON)      | 72                |
| FULL LOAD EFFICIENCY (EER)      | 10.1              |
| IPLV/IP (BTU/W-H)               | 18                |
| REFRIGERANT                     | R454B             |
| REFRIGERANT CHARGE (LBS)        | 134               |
| EVAPORATOR FLUID                | 50% PROP. GLYCOL  |
| EVAPORATOR FLOW (GPM)           | 170               |
| EVAPORATOR ENT. TEMP. (°F)      | 52                |
| EVAPORATOR LVG. TEMP. (°F)      | 40                |
| EVAP. PRESS. DROP (FT HD)       | 18.00             |
| CONDENSER AMBIENT TEMP. (°F)    | 95                |
| NUMBER OF CIRCUITS              | 2                 |
| NUMBER OF COMPRESSORS           | 4                 |
| CAPACITY STEPS                  | 4                 |
| ELECTRICAL DATA                 |                   |
| VOLTAGE / PHASE                 | 460/3             |
| TOTAL UNIT POWER (KW)           | 85.50             |
| SINGLE POINT MCA                | 163               |
| SINGLE POINT MOCp               | 200               |
| STARTER TYPE                    | ACROSS-THE-LINE   |
| NOTES                           | 1 THROUGH 5       |

- NOTES:
- UNIT PROVIDED WITH FACTORY INSTALLED FREEZE PROTECTION.
  - PROVIDE WITH SINGLE POINT POWER & NON-FUSED DISCONNECT.
  - UNIT TO HAVE LOW AMBIENT OPERATION CABILITIES TO OPERATE DOWN TO -20F.
  - PROVIDE INTERIOR BASE FRAME.
  - PROVIDE COTTONWOOD SCREENS BY CHILLER MANUFACTURER.

DRY COOLER SCHEDULE

| REFERENCE                       | DC-1             |
|---------------------------------|------------------|
| MANUFACTURER                    | KRACK            |
| MODEL #                         | FEVF 26412       |
| SERVES                          | CHILLED WATER    |
| WEIGHT (LBS)                    | 5,400            |
| DIMENSIONS - L x W x H (INCHES) | 330 x 90 x 64    |
| INTERNAL VOLUME (GAL)           | 72               |
| FLUID TYPE                      | 50% PROP. GLYCOL |
| TOTAL CAPACITY (MBH)            | 769              |
| FLOW RATE (GPM)                 | 170              |
| EWI (°F)                        | 52               |
| LWI (°F)                        | 42               |
| AMBIENT AIR TEMP (°F)           | 38               |
| AIR FLOW (CFM)                  | 123,000          |
| AIR VELOCITY (FPM)              | 645              |
| PRESSURE DROP (FT HD)           | 10               |
| FAN QTY. / RPM                  | 12 / 1140        |
| ELECTRICAL DATA                 |                  |
| MOTOR HP                        | 1.5              |
| VOLTAGE - PH                    | 480 / 3          |
| MCA                             | 32.1             |
| MOP                             | 40.0             |
| NOTES                           | 1 THROUGH 5      |

- NOTES:
- SEE CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
  - PROVIDE SINGLE POINT CONNECTION WITH INTEGRAL NON-FUSED DISCONNECT AND 22" HEIGHT SUPPORT LEGS.
  - UNIT SOUND IS 83 DB.
  - INTENT IS FOR DRY COOLER TO HANDLE CHILLED WATER COOLING LOAD BELOW 30F TO INCREASE EFFICIENCY AND REDUCE MECHANICAL COOLING.
  - PROVIDE COTTONWOOD SCREENS BY CHILLER MANUFACTURER.

PUMP SCHEDULE

| REFERENCE                       | CWP-1 & CWP-2 |
|---------------------------------|---------------|
| MANUFACTURER                    | TACO          |
| MODEL #                         | F12506D       |
| TYPE                            | END SUCTION   |
| SERVES                          | CHILLED WATER |
| WEIGHT (LBS)                    | 450           |
| DIMENSIONS - L x W x H (INCHES) | 40 x 16 x 20  |
| FLOW RATE (GPM)                 | 170           |
| OPERATING PRESSURE (FT. HEAD)   | 130           |
| IMPELLER DIAMETER (INCH)        | 5.80          |
| IMPELLER DIAMETER RANGE (INCH)  | 4 - 6.25      |
| PUMP EFFICIENCY %               | 74%           |
| ELECTRICAL DATA                 |               |
| MOTOR HP                        | 10            |
| BHP                             | 8.0           |
| RPM                             | 3,500         |
| VOLTAGE - PH                    | 480 - 3       |
| NOTES                           | 1 THROUGH 5   |

- NOTES:
- REFER TO CONTROL DRAWINGS.
  - TCC TO PROVIDE VFD'S WITH INTEGRAL DISCONNECT. VFD'S INSTALLED BY EC.
  - MOTORS TO BE SUITABLE FOR OPERATION WITH VARIABLE FREQUENCY DRIVE (VFD).
  - PROVIDE WITH SHAFT GROUNDING KITS.
  - BASE MOUNTED PUMP, PROVIDE INERTIA PAD.

CONTRACTOR SHALL PROVIDE GLYCOL ANALYSIS AND FREEZE PROTECTION VERIFICATION AT STARTUP. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.

Project No: 9525.00

Date: 07/06/2026

CONSTRUCTION DOCUMENTS

| # | Revision   | Date    |
|---|------------|---------|
| 1 | Addendum 2 | 8.06.26 |
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Drawing Name:  
ELECTRICAL POWER

Drawing #:

E101

POWER GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH MECHANICAL CONTRACTOR AND FINAL MECHANICAL SHOP DRAWINGS.
- C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING. PROVIDE ALL INTERIOR PENETRATIONS ARE 1 HOUR WALLS AND EXTERIOR PENETRATIONS ARE 2 HOURS.

