## AIR HANDLING UNIT SCHEDULE

| MARK | LOCATION | NOMINAL CAPACITY (TONS) | OUTDOOR AMBIENT TEMP (°F) | | REFRIGERANT TYPE | EER | SUPPLY AIRFLOW (CFM) | MINIMUM OUTSIDE AIR (CFM) | FILTER | COOLING | | | | ELECTRIC HEATING | | | FAN | | | ELECTRICAL | | | HGR (MBH) | WEIGHT (LB) | MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SUMMER | WINTER | | | | | | TOTAL (MBH) | SENSIBLE (MBH) | EAT DB/WB (°F) | LAT DB/WB (°F) | CAPACITY (kW) | EAT DB (°F) | LAT DB (°F) | ESP (IN. W.G.) | FAN RPM | BHP | MCA (AMPS) | MOCP (AMPS) | V/Ph/Hz | | | | | |
| AHU-1 | OUTDOOR | 5 | 105 DB/ 93 WB | 5 | R-410A | 13 | 1600 | 150 | MERV 13 | 50.43 | 36.01 | 75.70/64.40 | 54.86/53.58 | 12 | 64.90 | 88.49 | 0.75 | 1011 | 0.64 | 45 | 45 | 208/3/60 | 28.82 | 953 | TRANE | THC067E4REA | ALL |

NOTES:
1. REVIEW REFRIGERANT TYPE WITH EOR IF R-410A IS NOT AVAILABLE.
2. PROVIDE FACTORY-MOUNTED BACNET DDC UNIT CONTROLLER.
3. PROVIDE WITH ZONE TEMPERATURE AND HUMIDITY SENSOR.
4. PROVIDE 115 V POWERED CONVENIENCE OUTLET.
5. PROVIDE COMPARATIVE ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF DAMPER.
6. PROVIDE HOT GAS REHEAT AND DEHUMIDIFICATION CYCLE.
7. PROVIDE CLOGGED FILTER SWITCH.
8. PROVIDE CONDENSATE OVERFLOW SWITCH.
9. CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT PAD ON GRADE. HEIGHT OF PAD TO PROVIDE CLEARANCE FOR P-TRAP ABOVE GRADE.
10. PROVIDE WITH MERV 13 FILTER.
11. PROVIDE HAIL GUARD.
12. PROVIDE MINIMUM OF 2500 HOUR SALT SPRAY TEST IN ACCORDANCE WITH ASTM B117.

## EXHAUST FAN SCHEDULE

| MARK | SERVICE | FAN TYPE | CFM | DRIVE | ESP (IN. W.G.) | FAN RPM | POWER | V/Ph/Hz | MCA | WEIGHT (LB) | MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | TOILET 102 | CEILING MOUNTED | 75 | DIRECT | 0.5 | 773 | 17 | 115/1/60 | 0.4 | 16 | GREENHECK | SP-LP0511-1 | ALL |

NOTES:
1. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.
2. PROVIDE ONE FUNCTION SWITCH WITH PILOT LIGHT.
3. PROVIDE FAN MOUNTED EXHAUST GRILLE INSTALLED FLUSH TO CEILING.

## GRILLES, REGISTERS, AND DIFFUSERS (GRD) SCHEDULE

| TYPE MARK | SERVICE | FACE | | NECK SIZE (IN) | MAX NC | MATERIAL | BORDER TYPE | MANUFACTURER | MODEL | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | LENGTH (IN) | WIDTH (IN) | | | | | | | |
| RG-A | RETURN | 24 | 24 | 18x18 | 25 | STEEL | SEE ARCH RCP | PRICE | PDDR | ALL |
| SD-A | SUPPLY | 24 | 24 | 10 | 25 | ALUMINUM | SEE ARCH RCP | PRICE | SPD | ALL |

NOTES:

1. GRILLES, REGISTERS, AND DIFFUSERS SHALL COMPLY WITH THE SOUND RATING OF THE AIR CONDITIONING AND REFRIGERATION INSTITUTE (ARI) OR AIR MOVEMENT CONTROL ASSOCIATION (AMCA) .
2. COORDINATE ALL BORDER TYPES WITH ARCHITECTURAL REFLECTED CEILING PLANS. PROVIDE PLASTER FRAMES IN HARD CEILINGS.
3. FINISH SHALL BE COORDINATED AND APPROVED BY ARCHITECT.
4. GRILLES AND DIFFUSERS LOCATED IN HARD CEILINGS SHALL BE PROVIDED WITH PLASTER FRAMES AND INTEGRAL BALANCING DAMPERS UNLESS OTHERWISE NOTED.
5. SUPPLY GRILLES AND DIFFUSERS THAT ARE EXPOSED OR IN LAY-IN CEILINGS SHALL BE PROVIDED WITH BALANCING DAMPERS IN THE BRANCH TAP DUCTWORK.
6. TAPS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK OPENING UNLESS OTHERWISE NOTED.

THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN:
- A 73 °F (ADJ.) COOLING SETPOINT
- A 68 °F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SET POINT BY 5°F (ADJ)
LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SET POINT BY 10°F (ADJ)

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE AND COOLING SETPOINTS AT THE ZONE SENSOR.

THE RTU SHALL OPERATE THE SUPPLY FAN CONTINUOUSLY AND STAGE COMPRESSORS, STAGE HEAT, AND/OR ENABLE AIRSIDE ECONOMIZING TO MAINTAIN ZONE TEMPERATURE AT SETPOINT. THE OA DAMPER SHALL OPEN TO BRING IN THE REQUIRED AMOUNT OF VENTILATION.

FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A SET POINT 0.5 INCH WATER GAUGE (ADJ.).

MIXED AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE ZONE AIR HUMIDITY. THE DEHUMIDIFICATION SEQUENCE SHALL MAINTAIN ZONE AIR HUMIDITY AT OR BELOW 60 % RH (ADJ.). DEHUMIDIFICATION SHALL BE ENABLED WHENEVER ZONE HUMIDITY IS ABOVE SETPOINT AND THE ZONE TEMPERATURE IS SATISFIED.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH RETURN AIR HUMIDITY: IF THE ZONE AIR HUMIDITY IS GREATER THAN 70% (ADJ.).
LOW RETURN AIR HUMIDITY: IF THE ZONE AIR HUMIDITY IS LESS THAN 35% (ADJ.).

RETURN AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE. ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45 °F (ADJ.).

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.
ALARMS SHALL BE PROVIDED AS FOLLOWS:
HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

A1 AHU SEQUENCE OF OPERATIONS

THE EXHAUST FAN SHALL RUN PER SEQUENCE BELOW

FAN OPERATION:
1. FAN SHALL START WHEN THE TOGGLE SWITCH IS IN THE ON POSITION, AND RUN CONTINUOUSLY.
2. FAN SHALL STOP WHEN THE TOGGLE SWITCH IS IN THE OFF POSITION, AFTER A TIME DELAY OF 10 MINUTES (ADJ.).

A2 EXHAUST FAN SEQUENCE OF OPERATIONS

| NO. | DATE | DSGN |
|---|---|---|
| 0 | 09/18/2024 | JWG |

100% ISSUED FOR CONSTRUCTION - EXPANSION

| REVISION | CHK | APVD | BY | APVD |
|---|---|---|---|---|
| | RPA | JWG | JJG | SJG |

Jacobs
1999 Bryan Street Suite 3500 Dallas, TX 75201
214.638.0145 Fax: 214.638.0447
Entity: Jacobs Engineering Group Inc.
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STATE OF ARKANSAS
STEVE J. GOODELL
ENGINEER
No. 9593
REGISTERED PROFESSIONAL
09/18/2024
SEAL

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MECHANICAL SCHEDULES

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