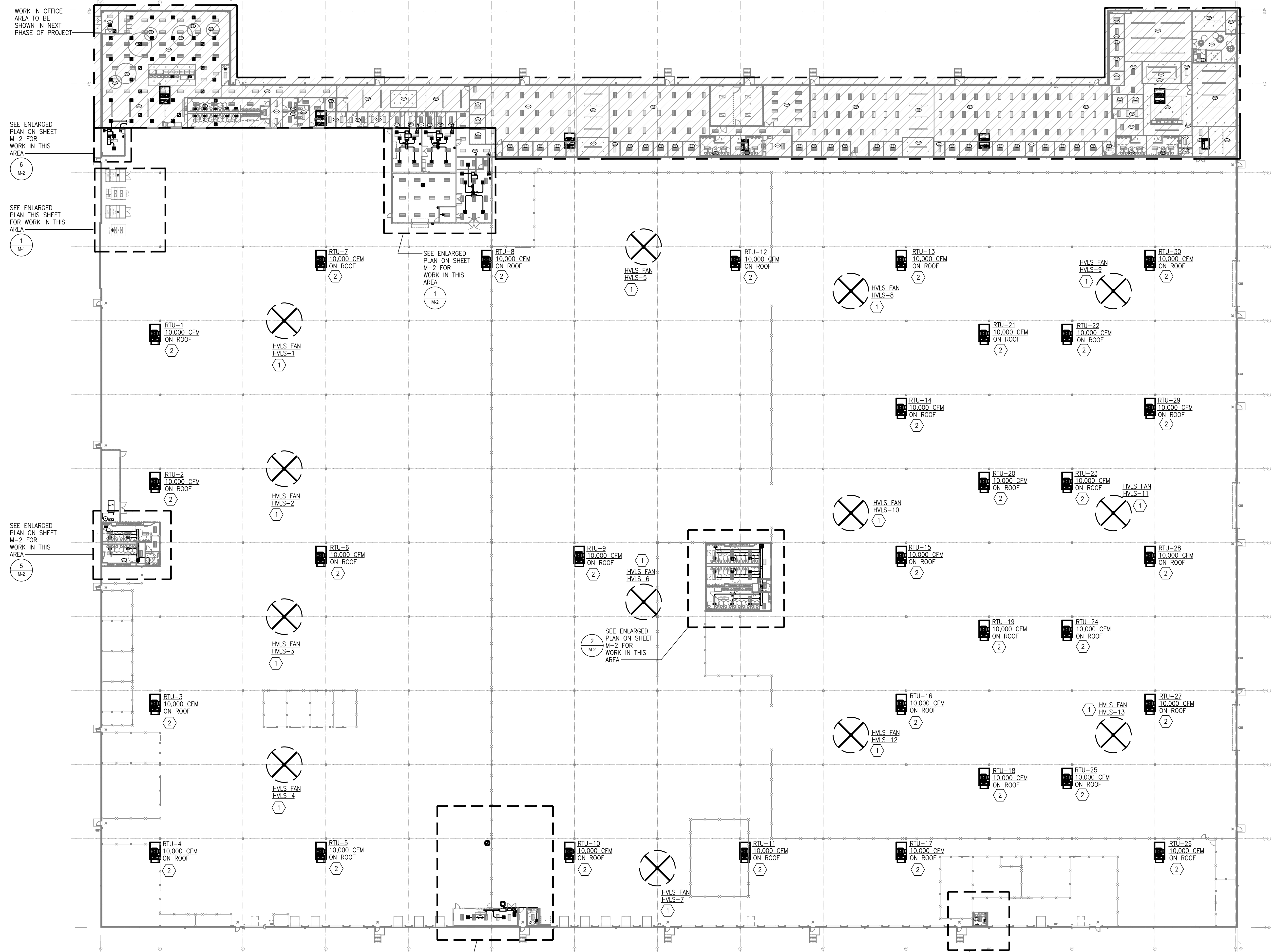
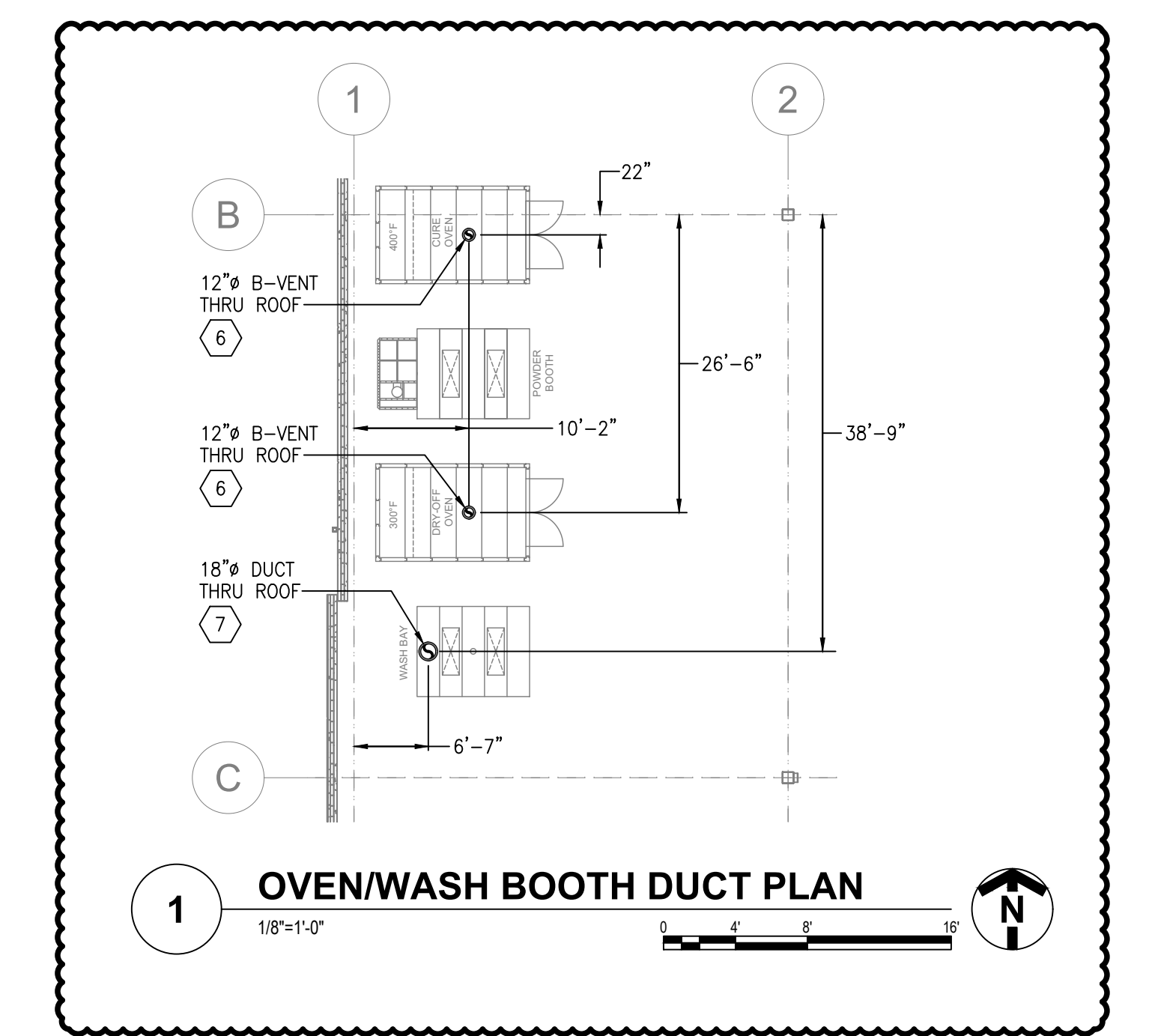


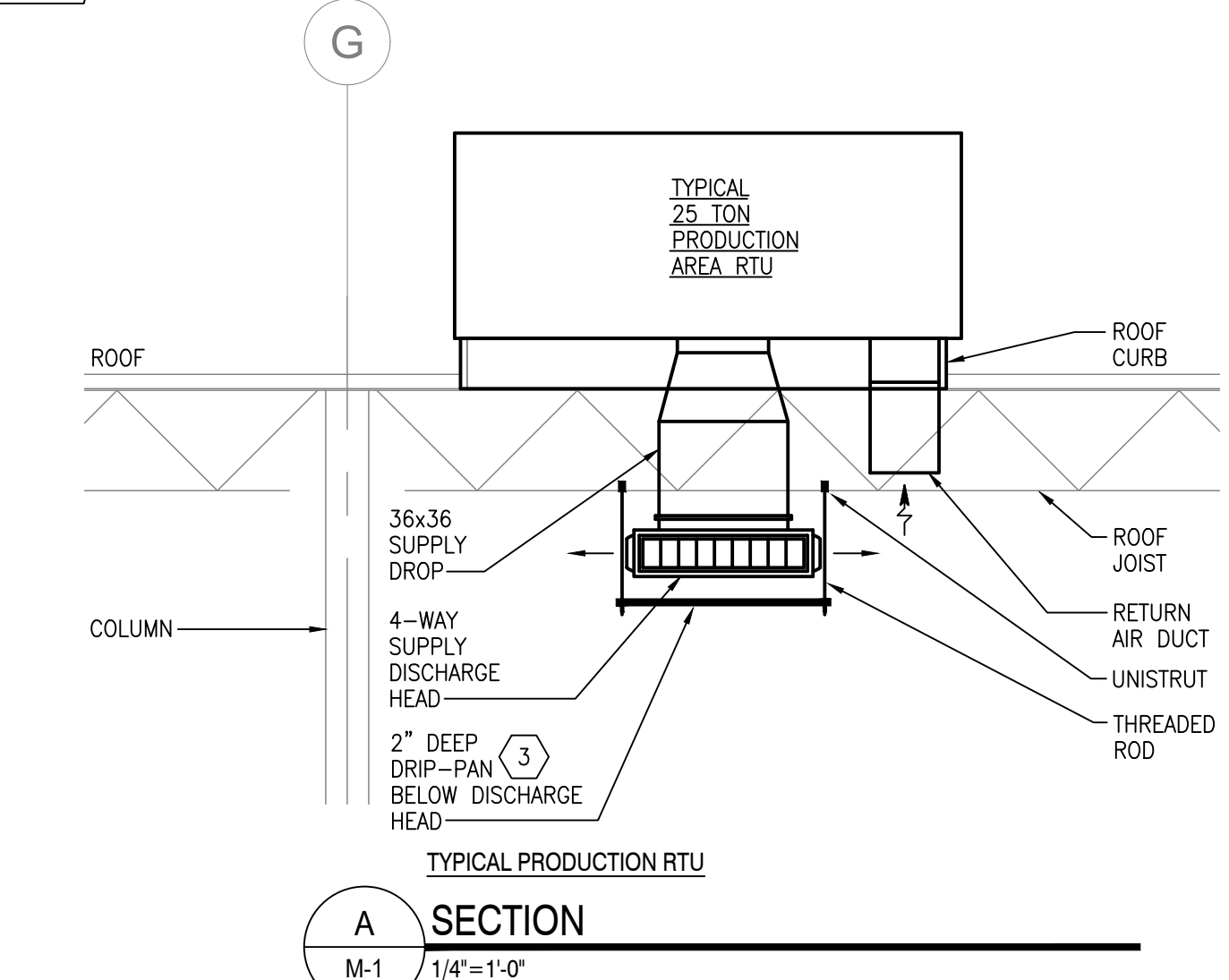
- KEYNOTES**
- HVLS FAN DESIGN, FINAL LOCATION AND INSTALLATION TO BE PERFORMED BY HVLS FAN VENDOR. FANS SHOWN ON THIS PLAN FOR REFERENCE ONLY.
 - SEE DETAILS THIS SHEET FOR INSTALLATION AND DUCT TERMINATION, THERMOSTAT AND ALL CONTROLS TO BE PROVIDED BY SCHNEIDER ELECTRIC.
 - PROVIDE DRIP PAN BELOW DISCHARGE HEAD TO CAPTURE ANY CONDENSATE DRIPPING. MOUNT 4" BELOW DISCHARGE HEAD.
 - SEE STRUCTURAL DRAWINGS FOR ROOF FRAMING.
 - SEE DETAIL THIS SHEET FOR SECTION VIEW OF INSTALLATION OF UNIT AND DUCTWORK.
 - TERMINATE ON ROOF WITH B-VENT CAP MIN. 36" ABOVE ROOF LEVEL. PENETRATE ROOF WITH ROOF CURB. FLASH TO ROOF AS REQUIRED.
 - TERMINATE WITH GOOSENECK AND BIRDSCREEN ON ROOF. TERMINATE MIN. 36" ABOVE ROOF LEVEL. PENETRATE ROOF WITH ROOF CURB. FLASH TO ROOF AS REQUIRED.



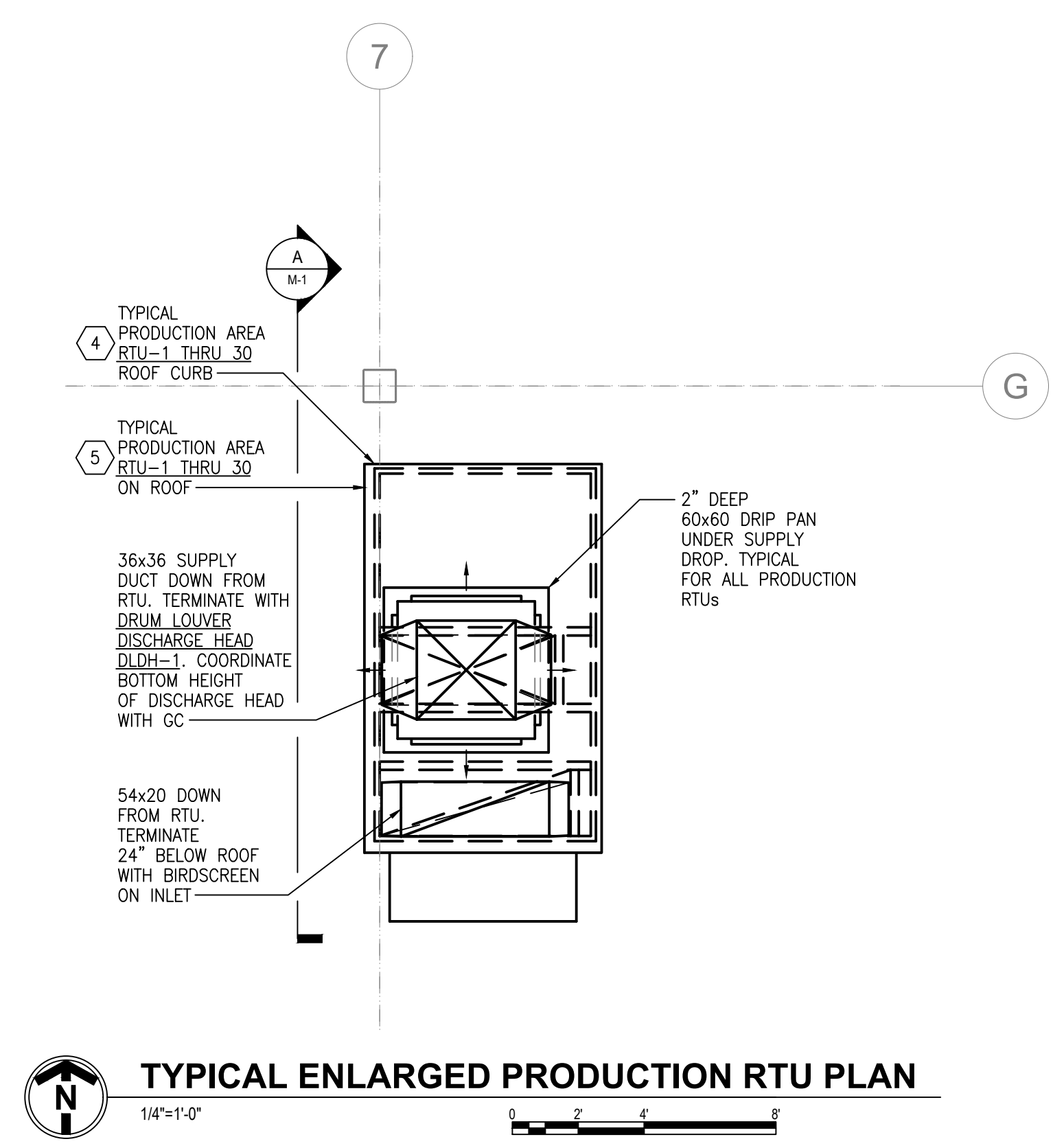
OVERALL HVAC FLOOR PLAN
1/32"=1'-0"



OVEREN/WASH BOOTH DUCT PLAN
1/8"=1'-0"



SECTION A
M-1 1/4"=1'-0"



TYPICAL ENLARGED PRODUCTION RTU PLAN
1/4"=1'-0"

| | | | |
|---------|----------------|-----|-------------------------|
| DATE | ISSUE/REVISION | BY | ISSUED FOR PERMIT |
| 3-21-25 | CKB | CKB | REVISED HVLS FAN LAYOUT |
| 4-21-25 | CKB | CKB | ADDED VENTS THRU ROOF |
| 7-11-25 | CKB | CKB | |

3-21-25

ESTD 1951
PERFECTION GROUP

OVERALL HVAC FLOOR PLAN
HVAC RENOVATIONS FOR:
ENERGIZE TI SCHNEIDER ELECTRIC
8210 SEWARD ROAD
FAIRFIELD, OHIO 45011

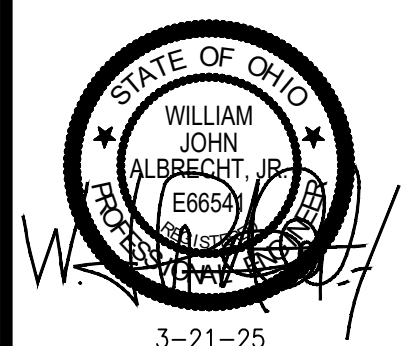
JOB NO.: 25025
SCALE: AS NOTED
DATE: 3-20-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-1
REVISION NO.: 2

GENERAL NOTES

A ALL HVAC EQUIPMENT (RTUS, FANS, SPLIT SYSTEM, ETC.) TO BE CONNECTED TO BUILDING AUTOMATION SYSTEM. SCHNEIDER ELECTRIC TO PROVIDE AND INSTALL ALL CONTROLS AND CONTROL DEVICES AND DISTRIBUTION.

KEYNOTES

- 1 ENSURE BOX IS INSTALLED TO ALLOW FOR CODE REQUIRED ELECTRICAL CLEARANCE IN FRONT OF CONTROL AND ELECTRIC HEATER PANELS. SCHNEIDER ELECTRIC TO PROVIDE ALL CONTROLS AND THERMOSTAT.
- 2 PROVIDE PLENUM BOX ON TOP OF RETURN GRILLE FOR DUCT CONNECTION. GRILLE IS UTILIZED AS FPB CEILING RETURN INTAKE.
- 3 PROVIDE PLENUM BOX ON TOP OF RETURN GRILLE FOR DUCT CONNECTION.
- 4 INSTALL ON ROOF CURB. PROVIDE GRAVITY DAMPER IN FAN INLET AT ROOF. FAN INLET TO BE OPEN TO CURB, NO DUCTWORK ON FAN. PROVIDE BIRDSCREEN AT ROOF DECK OPENING. FAN TO RUN AT MINIMUM AIRFLOW UNLESS SPACE TEMPERATURE IS SENSED ABOVE 80°F BY THERMOSTAT. PROVIDE HAND/OFF/AUTO SWITCH IN CONTROL ROOM TO ALLOW LAB USERS TO SHUT-OFF FAN AS NEEDED. SCHNEIDER ELECTRIC TO PROVIDE THERMOSTAT, HOA SWITCH AND ALL ASSOCIATED CONTROLS.
- 5 PROVIDE TRANSFER GRILLE ON BOTH SIDES OF WALL AT 7'-0" AFF TO BOTTOM OF GRILLE.
- 6 THERMOSTAT PROVIDED BY SCHNEIDER ELECTRIC. COORDINATE FINAL LOCATION WITH LAB USERS.
- 7 HOA SWITCH PROVIDED BY SCHNEIDER ELECTRIC. COORDINATE FINAL LOCATION WITH LAB USERS.
- 8 INSTALL ON ROOF CURB. PROVIDE GRAVITY DAMPER IN FAN INLET AT ROOF. ROUTE 20x20 DUCT DOWN TO ELEVATION SHOWN. FAN TO RUN CONTINUOUSLY. CONTROLS TO BE PROVIDED BY SCHNEIDER ELECTRIC.
- 9 PROVIDE PLENUM BOX ON TOP OF EXHAUST GRILLE FOR DUCT CONNECTION.
- 10 AIR COMPRESSOR, STORAGE TANK AND AIR FILTER/DRYER TO BE RELOCATED BY SCHNEIDER ELECTRIC. EQUIPMENT SHOWN FOR REFERENCE ONLY. COMPRESSED AIR DISTRIBUTION PIPING TO BE SHOWN AND INSTALLED IN NEXT PHASE OF PROJECT.
- 11 MOUNT HEATER RECESSED INTO WALL PER MANUFACTURER'S INSTRUCTIONS.
- 12 HEAT PUMP CONDENSING UNIT HP-1 MOUNTED ON ROOF RAILS ON ROOF. ROUTE LINESET DOWN TO FC-1 AS REQUIRED.
- 13 MOUNT UNIT AT 14'-0"± AFF. SEE DETAIL ON SHEET M-3 FOR INSTALLATION. PROVIDE SECONDARY DRIP PAN UNDER UNIT.
- 14 COORDINATE FINAL ROUTING TO WALL BOX WITH PLUMBING CONTRACTOR.
- 15 ROUTE UP TO THRU ROOF VIA ROOF CURB. TERMINATE 36" ABOVE ROOF LEVEL WITH GOOSENECK AND BIRDSCREEN.
- 16 MOUNT IN CEILING. FAN TO BE INTERLOCKED WITH LIGHTSWITCH.
- 17 ROUTE CONDENSATE DRAIN ALONG OUTSIDE WALL AND OVER RESTROOM TO WALL BOX. SHOWN IN THIS LOCATION FOR CLARITY.
- 18 FAN TO RUN CONTINUOUSLY. INSTALL ON ROOF CURB. PROVIDE GRAVITY DAMPER IN FAN INLET AT ROOF. FAN INLET TO BE OPEN TO CURB, NO DUCTWORK ON FAN. PROVIDE BIRDSCREEN AT ROOF DECK OPENING.
- 19 DAMPERS TO BE INTERLOCKED WITH EF-6, WHEN EF-6 IS ENERGIZED, DAMPERS TO OPEN 100% REGARDLESS OF AIRFLOW. WHEN FAN IS DE-ENERGIZED, DAMPERS TO CLOSE TO ISOLATE ETL LAB FROM ANY POTENTIAL AIR MOVEMENT INTO LAB DUE TO TEST REQUIREMENTS.

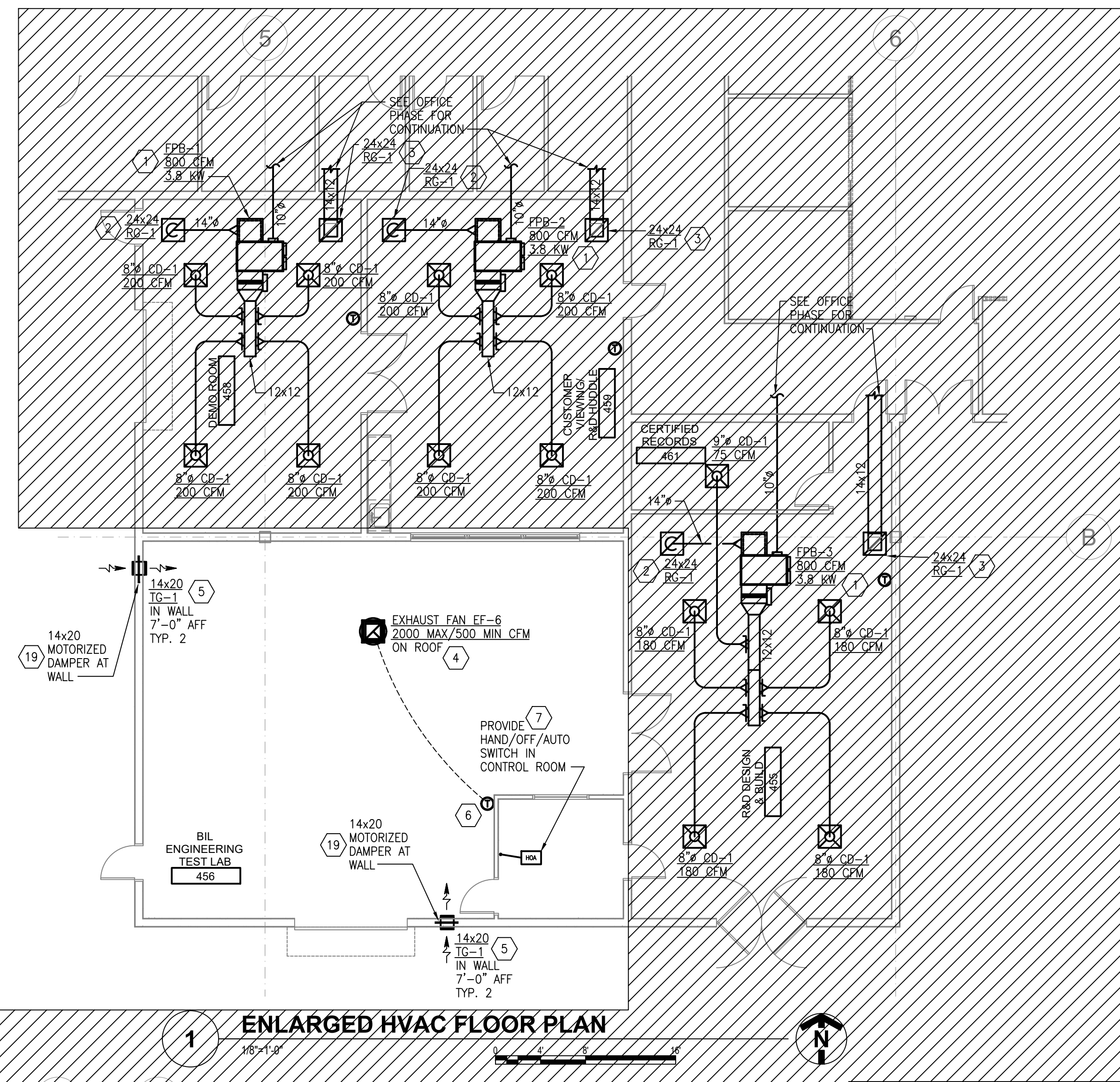


NOTE: CONDITIONS IN THIS PLAN NOT TO BE USED TO CONSTITUTE A CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND REQUIREMENTS OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

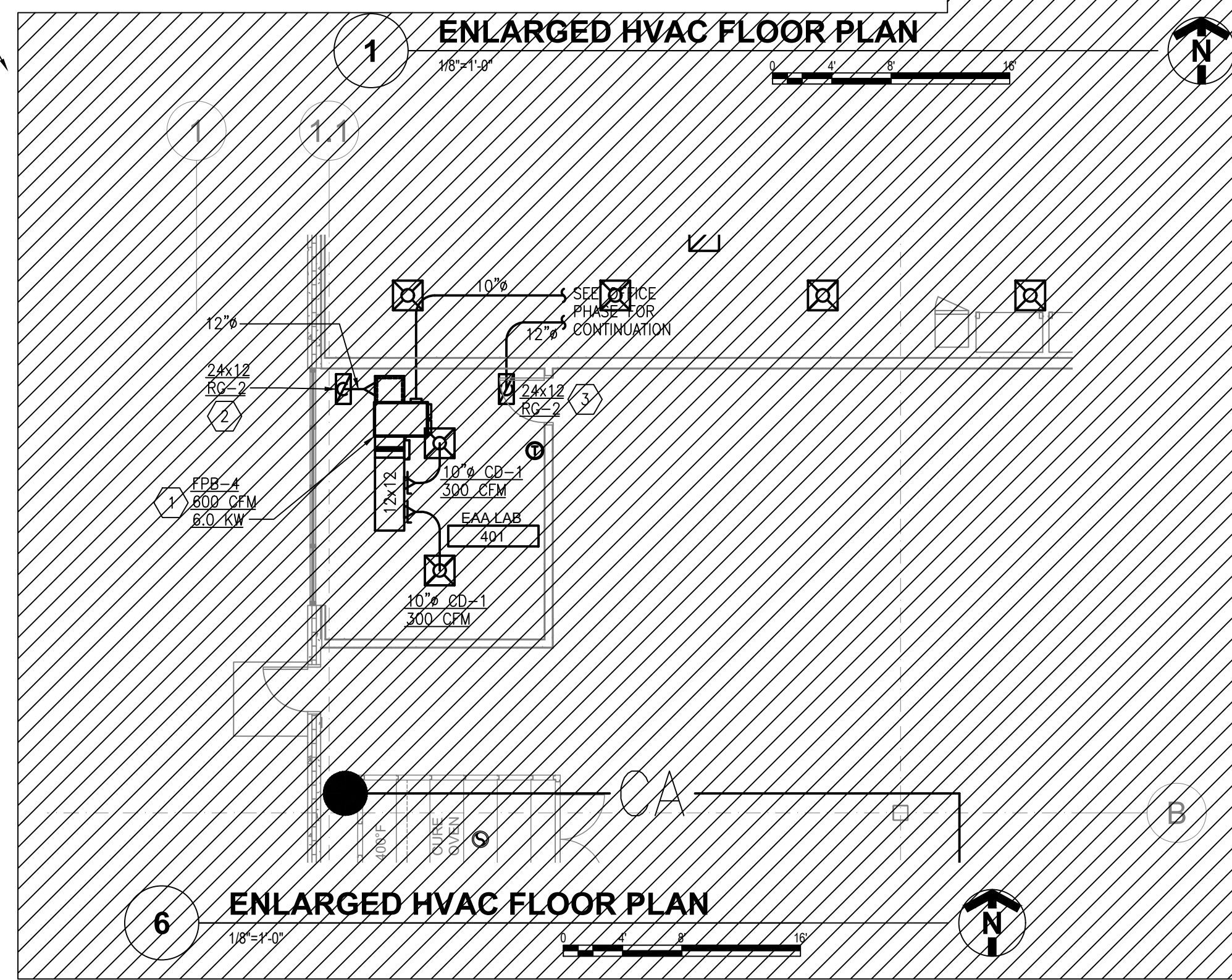
ESTD 1951
PERFECTION GROUP

ENLARGED HVAC FLOOR PLANS
 HVAC RENOVATIONS FOR:
 FL1B - ENERGIZE TI SCHNEIDER ELECTRIC
 8210 SEWARD ROAD
 FAIRFIELD, OHIO 45011

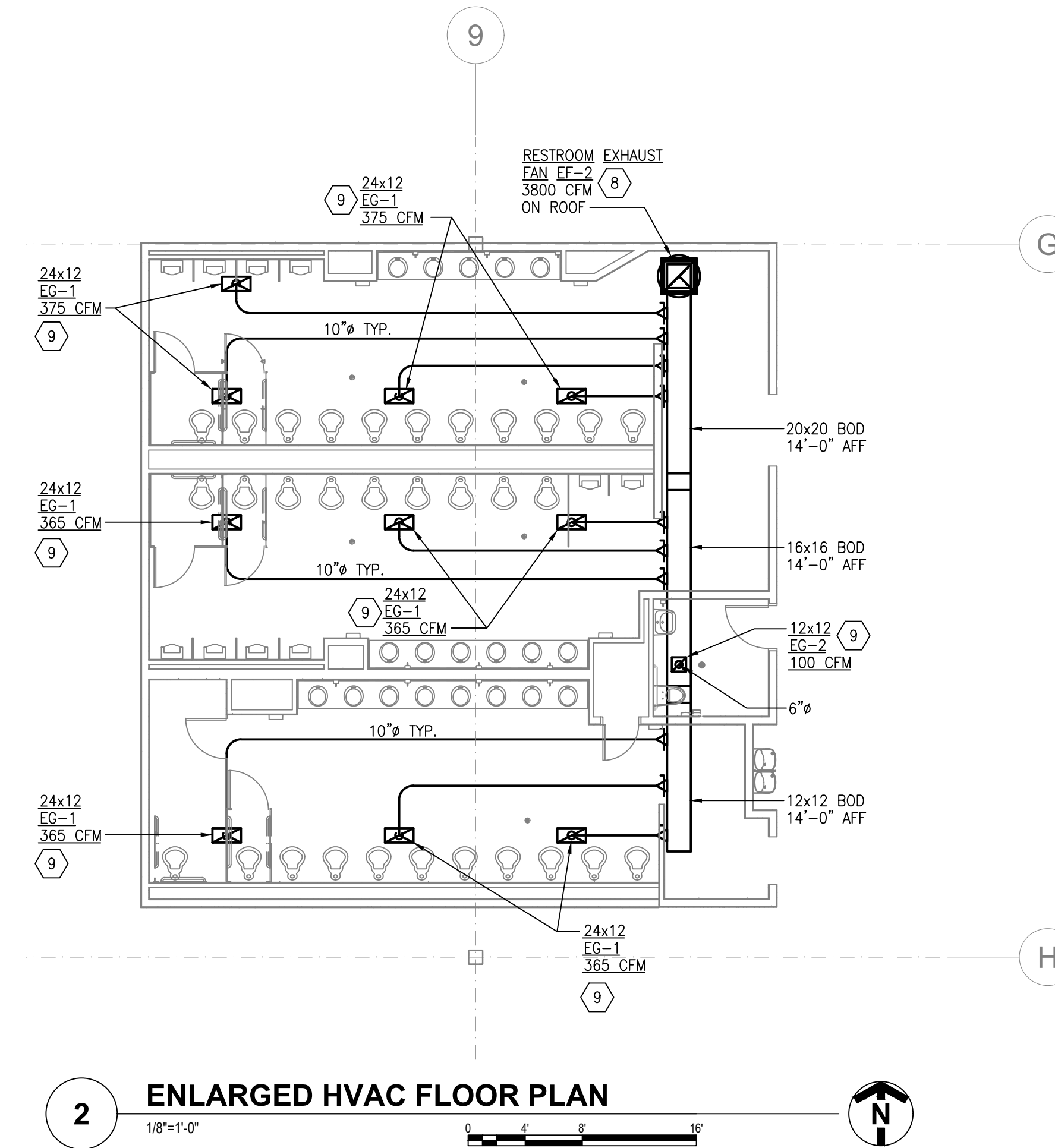
JOB NO.: 25025
 SCALE: AS NOTED
 DATE: 3-20-25
 DRAWN BY: CKB
 APPROVED BY: CSL
M-2
 REVISION NO.: 0



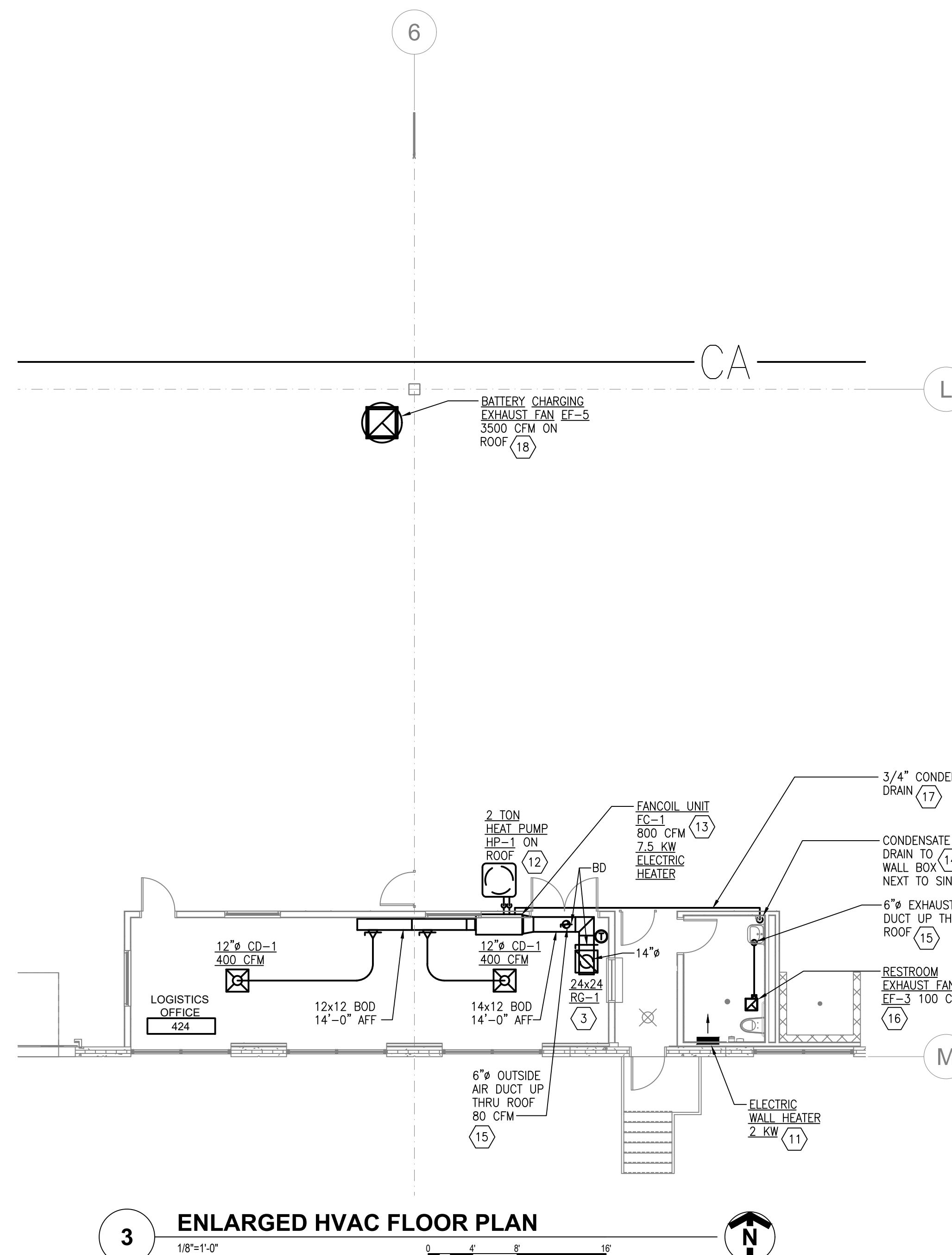
1 ENLARGED HVAC FLOOR PLAN
1/8"=1'-0"



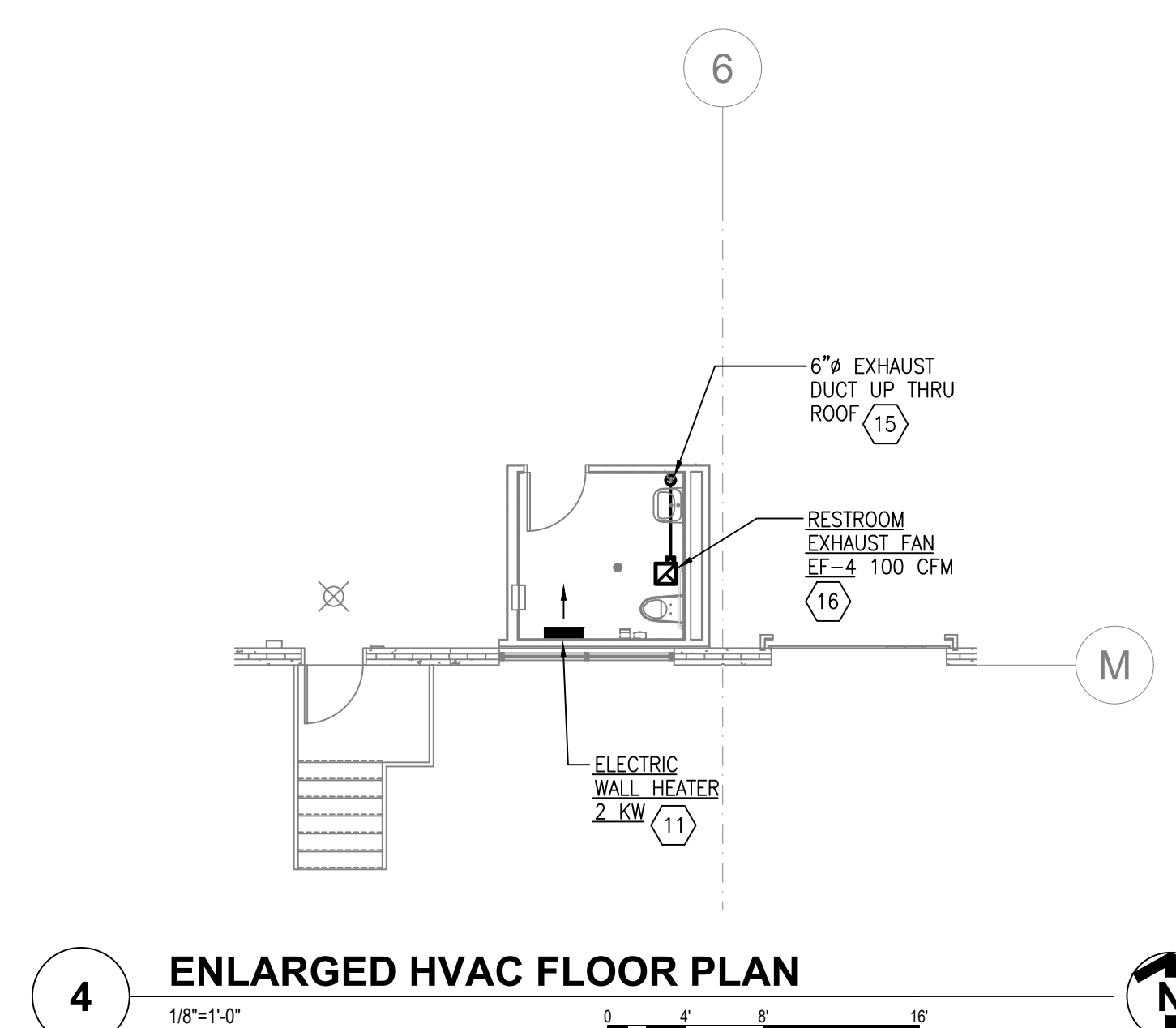
6 ENLARGED HVAC FLOOR PLAN
1/8"=1'-0"



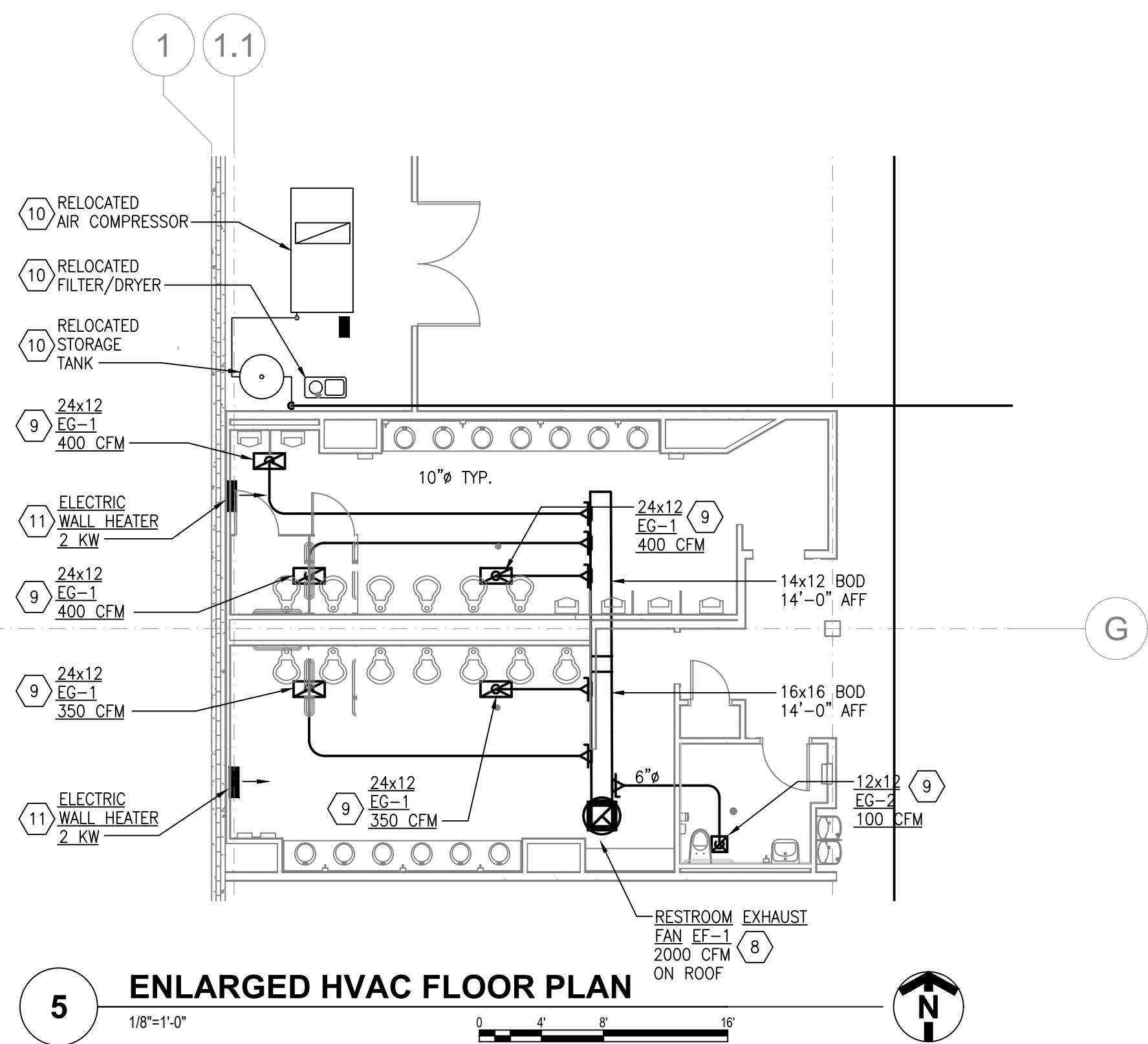
2 ENLARGED HVAC FLOOR PLAN
1/8"=1'-0"



3 ENLARGED HVAC FLOOR PLAN
1/8"=1'-0"



4 ENLARGED HVAC FLOOR PLAN
1/8"=1'-0"



5 ENLARGED HVAC FLOOR PLAN
1/8"=1'-0"

THESE PLANS ARE NO LONGER VALID. SEE SHEETS M-6 AND M-7 FOR UPDATED WORK IN THESE AREA

| ROOFTOP UNIT SCHEDULE - HEAT PUMP/ELECTRIC HEAT | | | | | | | | | | | | | | | | | |
|---|--------------|--------------------|-----------------|------------------|-----------------------|-------------|------|-------------|----------------|---------------------|---------------|--------------|------------|------------|-----|-------------|-----------------|
| TAG | MANUFACTURER | MODEL | AREA SERVED | SUPPLY AIR (CFM) | VENTILATION AIR (CFM) | ESP (IN WG) | TONS | COOLING | | HEATING OUTPUT (KW) | SUPPLY FAN HP | ENTERING AIR | | ELECTRICAL | | ACCESSORIES | |
| | | | | | | | | TOTAL (MBH) | SENSIBLE (MBH) | | | DB (DEG F) | WB (DEG F) | VOLT/PHASE | MCA | | MOCP |
| RTU-1 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-2 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-3 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-4 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-5 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-6 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-7 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-8 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-9 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-10 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-11 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-12 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-13 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-14 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-15 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-16 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-17 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-18 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-19 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-20 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-21 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-22 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-23 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-24 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-25 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-26 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-27 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-28 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-29 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |
| RTU-30 | CARRIER | 50FEQM28A2A6-3W0A0 | PRODUCTION AREA | 10000 | 1000 | 1 | 25 | 295 | 227.45 | 68.9 | 7.5 | 80 | 67 | 460/3/60 | 150 | 175 | 1,2,3,4,5,6,7,8 |

1. ECO-BLUE ECM FAN
2. SYSTEM/VU BACNET CONTROLLER
3. ULTRA LOW LEAK ECONOMIZER
4. 14" TALL ROOF CURB
5. ZS OPRO SPACE TEMP SENSOR

6. 69 KW ELECTRIC HEATER
7. SINGLE POINT WIRING KIT
8. HEAT PUMP

| ELECTRIC HEATER SCHEDULE | | | | | | | | | | | | |
|--------------------------|--------------|----------|-------------|--------------|---------------|-------------------|-----|------------|------|-----|------|-------------|
| TAG | MANUFACTURER | MODEL | AREA SERVED | MTG HT (AFF) | SHIP WT (LBS) | HEAT OUTPUT (MBH) | KW | ELECTRICAL | | | | ACCESSORIES |
| | | | | | | | | VOLT/PHASE | AMPS | MCA | MOCP | |
| EWH-1 | QMARK | CWH3180F | RESTROOM | 12 | 25 | 6.1 | 1.8 | 120/1/60 | 15 | | | 1 |
| EWH-2 | QMARK | CWH3180F | RESTROOM | 12 | 25 | 6.1 | 1.8 | 120/1/60 | 15 | | | 1 |
| EWH-3 | QMARK | CWH3180F | RESTROOM | 12 | 25 | 6.1 | 1.8 | 120/1/60 | 15 | | | 1 |
| EWH-4 | QMARK | CWH3180F | RESTROOM | 12 | 25 | 6.1 | 1.8 | 120/1/60 | 15 | | | 1 |

1. FULLY RECESSED MOUNTING ENCLOSURE (STANDARD), INTEGRAL TSTAT, DISCONNECT INCLUDED

| AIR DEVICE SCHEDULE | | | | | | | | | | |
|---------------------|--------------|--------------|----------|----------------|-----------------|---------------|-----------------|----------|--------|----------------|
| TAG | DESIGN BASIS | | TYPE | NECK SIZE (IN) | FRAME SIZE (IN) | PATTERN | NUMBER OF SLOTS | MATERIAL | FINISH | REMARKS /NOTES |
| | MFR | MODEL NUMBER | | | | | | | | |
| CD1 | PRICE | SCD | SUPPLY | REF PLAN | 24X24 | 4-WAY | N/A | STEEL | WHITE | 1 |
| RG1 | PRICE | 80 | RETURN | 22X22 | 24X24 | EGGRATE | N/A | STEEL | WHITE | 1,2 |
| RG2 | PRICE | 80 | RETURN | 22X10 | 24X12 | EGGRATE | N/A | STEEL | WHITE | 1,2 |
| EG1 | PRICE | 80 | EXHAUST | 22X10 | 24X12 | EGGRATE | N/A | STEEL | WHITE | 1,2 |
| EG2 | PRICE | 80 | EXHAUST | 10X10 | 12X12 | EGGRATE | N/A | STEEL | WHITE | 1,2 |
| TG-1 | PRICE | 530 | TRANSFER | 12X18 | 14X20 | LOUVER 45 DEG | N/A | STEEL | WHITE | 3 |
| TG-2 | PRICE | 530 | TRANSFER | 12X12 | 14X14 | LOUVER 45 DEG | N/A | STEEL | WHITE | 3 |

1. LAY-IN
2. PROVIDE PLENUM BOX FOR DUCT CONNECTION
3. WALL MOUNT

| SPLIT SYSTEM HEAT PUMP SCHEDULE | | | | | | | | | | | | | | |
|---------------------------------|--------------|-------------|-----------------|----------|-------------|---------------|----------------|------------|-----------------|------|------------|-----|------|-------------|
| INDOOR UNIT | | | | | | | | | | | | | | |
| TAG | MANUFACTURER | MODEL | MATING UNIT TAG | LOCATION | AREA SERVED | AIRFLOW (CFM) | EXT SP (IN WG) | VENT (CFM) | ACCY. HEAT (KW) | TONS | ELECTRICAL | | | ACCESSORIES |
| | | | | | | | | | | | VOLT/PHASE | FLA | MOCP | |
| FC-1 | CARRIER | FJSANX82400 | HP-1 | CEILING | OFFICE | 800 | 0.5 | 80 | 7.5 | 2 | 208/1/60 | 2.9 | | |

| OUTDOOR UNIT | | | | | | | | | | | | | | | |
|--------------|--------------|--------------|-----------------|----------|---------------------|----------------|------|------------------------|----------------|-----|-------------------|--------------|------|------|-------------|
| TAG | MANUFACTURER | MODEL | MATING UNIT TAG | LOCATION | COOLING TOTAL (MBH) | SENSIBLE (MBH) | SEER | HEATING AT 17° F (MBH) | AT 17° F (MBH) | COP | UNIT WEIGHT (lbs) | ELECTRICAL | | | ACCESSORIES |
| | | | | | | | | | | | | VOLT/PHASE | FLA | MOCP | |
| HP-1 | CARRIER | 27SCA524A003 | FC-1 | ROOF | 23.66 | 17.88 | 15.2 | | | 2.5 | 195 | 208/230-1-60 | 13.5 | 20 | 1,2,3,4,5 |

1. BACnet INTERFACE
2. PROGRAMMABLE THERMOSTAT
3. 50 LINESET
4. 7.5 KW ACCESSORY HEATER
5. HEAT PUMP STAND

| EXHAUST FAN SCHEDULE | | | | | | | | | | | | | | | | |
|----------------------|--------------|------------|------------------|----------|-----------|-----------------------|---------------|---------------------|-------|-----------------|------------|--------------|------------|-----|-------|-------------|
| TAG | MANUFACTURER | MODEL | AREA SERVED | LOCATION | FAN TYPE | BACKDRAFT DAMPER TYPE | AIRFLOW (CFM) | EXTERNAL SP (IN WG) | SONES | FAN MOTOR (RPM) | DRIVE TYPE | WEIGHT (LBS) | ELECTRICAL | | | ACCESSORIES |
| | | | | | | | | | | | | | VOLT/PHASE | HP | WATTS | |
| EF-1 | GREENHECK | G-140-VG | RESTROOM | ROOF | DOWNBLAST | GRAVITY | 2000 | 0.375 | 11.6 | 1238 | DD | 92 | 120/1/60 | 3/4 | | 1,2,3,4,5,6 |
| EF-2 | GREENHECK | G-200-VG | RESTROOM | ROOF | DOWNBLAST | GRAVITY | 3800 | 0.375 | 11.6 | 8220 | DD | 175 | 120/1/60 | 1 | | 1,2,3,4,5,6 |
| EF-3 | GREENHECK | SP-LP0511 | RESTROOM | CEILING | CEILING | GRAVITY | 100 | 0.4 | 3 | 939 | | 8 | 120/1/60 | | 21 | 7,8 |
| EF-4 | GREENHECK | SP-LP0511 | RESTROOM | CEILING | CEILING | GRAVITY | 100 | 0.4 | 3 | 939 | | 8 | 120/1/60 | | 21 | 7,8 |
| EF-5 | GREENHECK | cube-220-5 | BATTERY CHARGING | ROOF | UP BLAST | GRAVITY | 3500 | 0.25 | 8.2 | 536 | DD | 200 | 120/1/60 | 1/2 | | 1,2,3,4,5,6 |
| EF-6 | GREENHECK | G-140-VG | ENG. TEST LAB | ROOF | DOWNBLAST | GRAVITY | 2000 | 0.375 | 11.6 | 1238 | DD | 92 | 120/1/60 | 3/4 | | 1,2,3,4,5,6 |

1. 14" INSULATED ROOF CURB
2. VARIGREEN MOTOR
3. BACKDRAFT DAMPER TRAY
4. NEMA 1 SWITCH
5. SS BIRDSCREEN

6. SPEED CONTROLLER - COMPATIBLE WITH BAS CONTROL SYSTEM
7. FAN TO RUN CONTINUOUSLY
8. FAN TO BE INTERLOCKED WITH LIGHTSWITCH

| VENTILATION AIR SCHEDULE | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------|---------|--------------------------|------------------------------|-----------------------|------------------|-----------------------|------------------|------------------|----------------|-------|---------------------|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.1 OCCUPANT DENSITY | | TABLE 6.2.1 Ra | | TABLE 6.2.1 Ra | | TABLE 6.2.1 Ra | | Vbz OUTSIDE AIR CFM | Ybz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| | | | | Pz POPULATION | Rp PEOPLE OUTSIDE AIR | AREA OUTSIDE AIR | AREA OUTSIDE AIR CALC | AREA OUTSIDE AIR | AREA OUTSIDE AIR | | | | | | | | | |
| 456 | ENG TEST LAB | 1,400 | OFFICE SPACE | 5 | 7 | 5 | 0.06 | 84 | 119 | 119 | 2000 | 6% | 10% | 200 | | | | |
| TOTALS | | 1,400 | | 5 | 7 | 5 | | 84 | 119 | 119 | 2,000 | | | 200 | | | | |

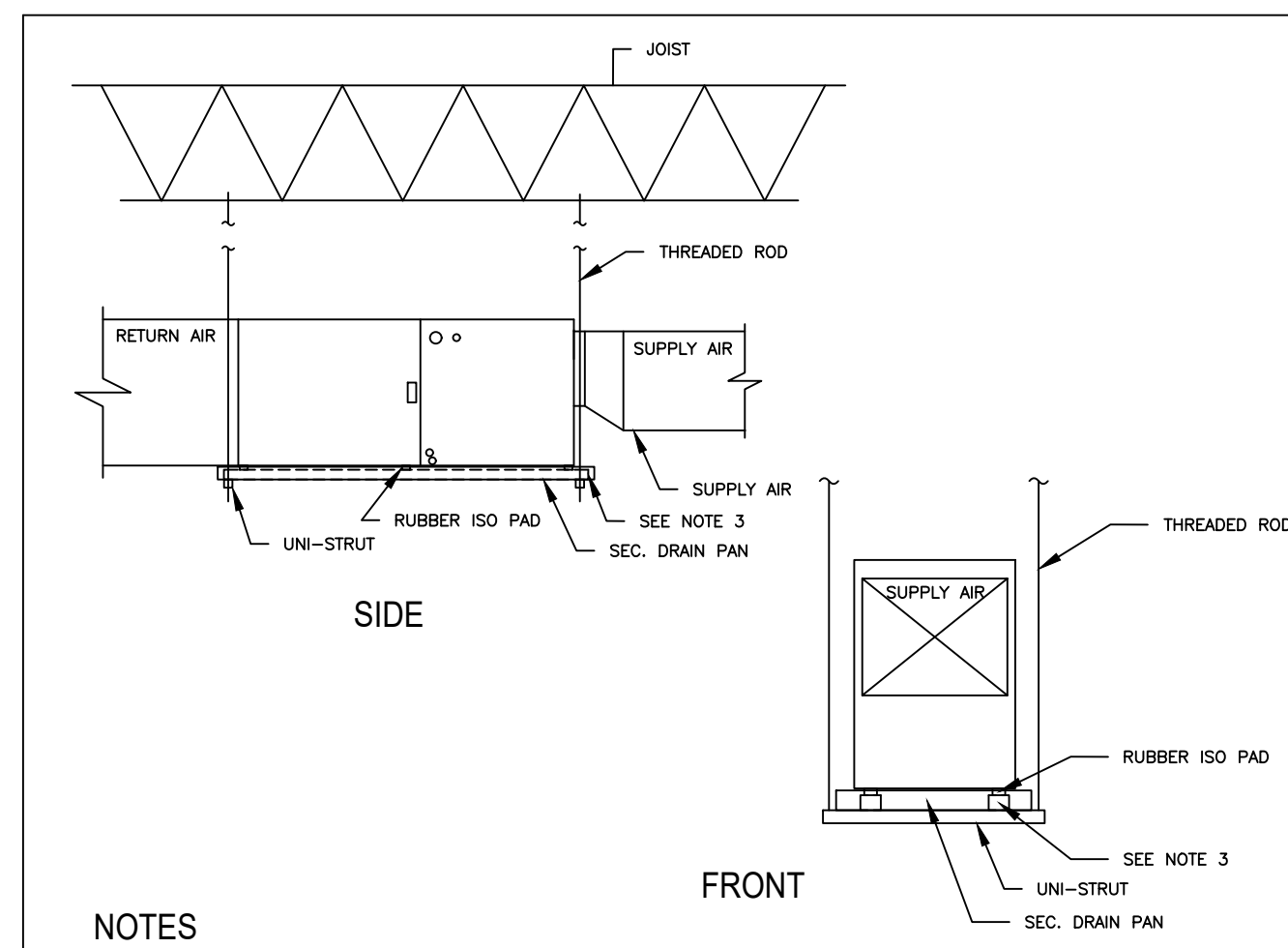
OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3

Vbz = BREATHING ZONE OUTDOOR AIR FLOW
 Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1)
 Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1)
 Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1)
 Az = ZONE FLOOR AREA

Vbz = ZONE OUTDOOR AIR FLOW
 Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED)
 Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2)
 Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN)
 Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN)

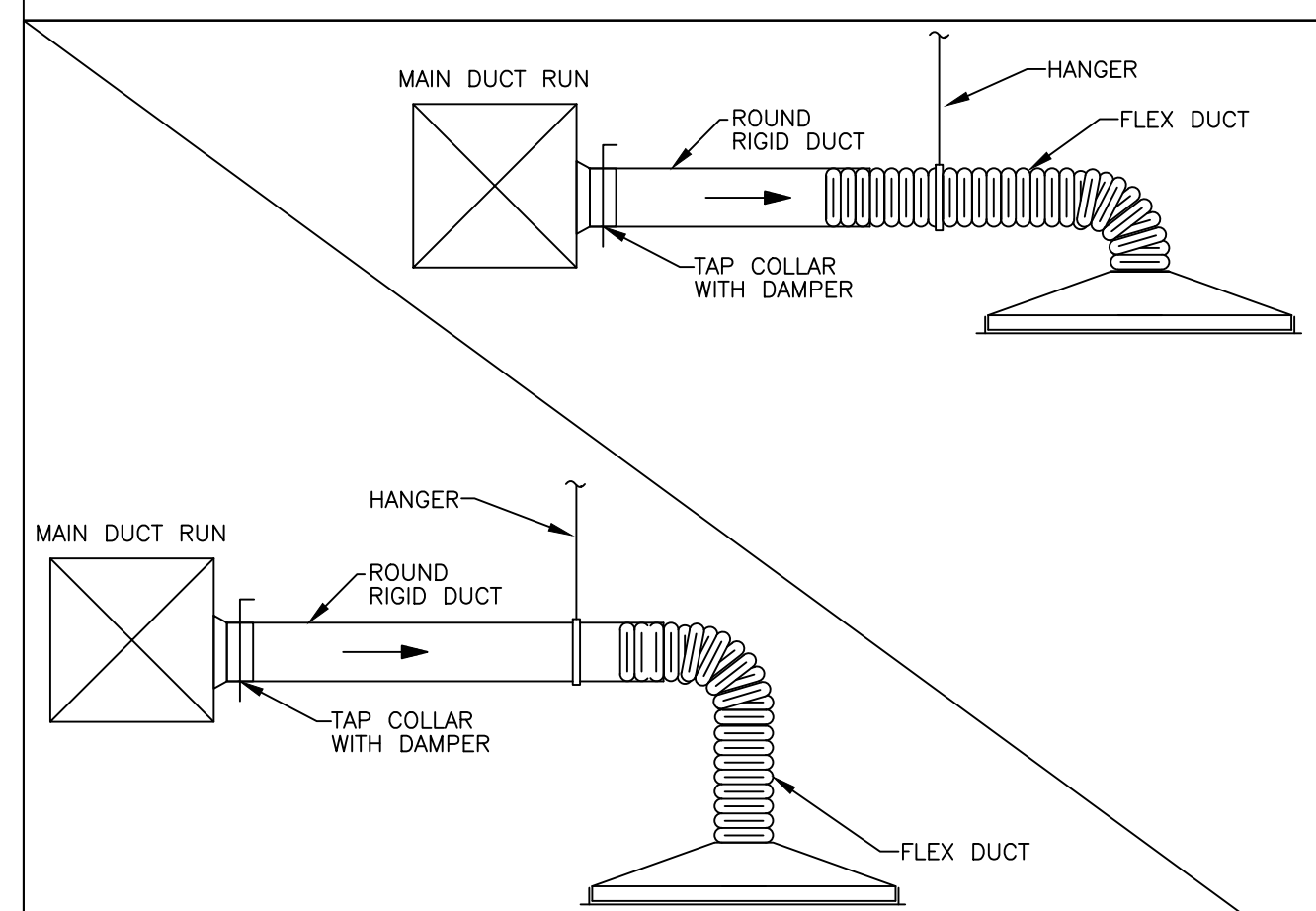
** TRANSFER AIR IS PERMITTED TO PROVIDE MAKE-UP AIR TO KITCHENS, BATHS, TOILET ROOMS, ELEVATORS, AND SMOKING LOUNGES. THE AMOUNT OF TRANSFER AIR AND EXHAUST AIR SHALL BE SUFFICIENT TO PROVIDE FLOW RATES AS SPECIFIED IN TABLE 403.3. DOORS SHALL BE UNDERCUT 1", OR DOOR GRILLES OF SUFFICIENT SIZE SHALL BE PROVIDED BY GENERAL CONTRACTOR.

| FAN POWERED VAV BOX SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--------------|-------|--------------|-------------|-----------|-----------------|----------------------|----------------------|-------------------|------------------|-------------------|----------------------|----------|----------------|-------------|-----|------|------|----------|---------|-------------|------|------------|------|-------|--------|---------|----------|----------|
| Tag | Manufacturer | Model | Control Type | Heater Type | Unit Size | Outlet Size | FAN SECTION | | | | | | | HEATER SECTION | | | | | | | | | | | | | | | |
| | | | | | | | Primary Max AF (cfm) | Primary Min AF (cfm) | Clg Fan Max (cfm) | Inlet SP (in wg) | Outlet SP (in wg) | Min Inlet SP (in wg) | Fan Volt | Motor Type | Rated Watts | FLA | MOCP | IMCA | Rated NC | Dist NC | Hg AF (cfm) | KW | IMBH (mbh) | Volt | Phase | Stages | Hr Amps | EAT (°F) | LAT (°F) |
| FPB-1 | NAILOR | D35SE | D | | 308 | 10 1/4 X 10 1/2 | 800 | 200 | 800 | 0.5 | 0.25 | 0.06 | 277 | ECM | 410 | 3.3 | 15 | 9.9 | 30 | 25 | 800 | 3.82 | 13 | 480 | 3 | 1 | 4.59 | 70 | 85 |
| FPB-2 | NAILOR | D35SE | D | | 308 | 10 1/4 X 10 1/2 | 800 | 200 | 800 | 0.5 | 0.25 | 0.06 | 277 | ECM | 410 | 3.3 | 15 | 9.9 | 30 | 25 | 800 | 3.82 | 13 | 480 | 3 | 1 | 4.59 | 70 | 85 |
| FPB-3 | NAILOR | D35SE | D | | 308 | 10 1/4 X 10 1/2 | 800 | 200 | 800 | 0.5 | 0.25 | 0.06 | 277 | ECM | 410 | 3.3 | 15 | 9.9 | 30 | 25 | 800 | 3.82 | 13 | 480 | 3 | 1 | 4.59 | 70 | 85 |
| FPB-4 | NAILOR | D35SE | D | | 308 | 10 1/4 X 10 1/2 | 800 | 150 | 600 | 0.5 | 0.25 | 0.03 | 277 | ECM | 410 | 3.3 | 15 | 13.2 | 28 | 21 | 600 | 6.06 | 20.6 | 480 | 3 | 1 | 7.28 | 70 | 101.7 |



- NOTES
- SUPPORT DUCT WORK AS REQUIRED.
 - REFERENCE PLAN DRAWINGS FOR DUCT WORK SIZING, ROUTING, AND OTHER REQUIREMENTS.
 - SPAN (2) 1-5/8" STRUT INSIDE OF DRAIN PAN ACROSS STRUT HANGER. USE A MIN. OF 2 RUBBER ISO PAD'S ON EACH SUPPORT. CONDENSATE WATER SENSOR INSTALLED ON THE PAN AND WIRED TO SHUT DOWN UNIT.

(A) HORIZONTAL HOOKUP WITH SEC. DRAIN PAN
NOT TO SCALE



- NOTES
-

| RTU-1 THRU 30 | | | | | | | | | | | | | | | |
|---|-------------------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 0 | PRODUCTION/SECURE POWER | 396,000 | WAREHOUSES | 0 | 0 | 0 | 0.06 | 23760 | 23760 | 23760 | 300000 | 8% | 10% | 30000 | |
| TOTALS | | 396,000 | | | 0 | | | | 23,760 | 23,760 | 300,000 | | | 30,000 | |
| OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3 $Vbz = (Rp * Pz) + (Ra * Az)$ Vbz = BREATHING ZONE OUTDOOR AIR FLOW Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1) Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1) Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1) Az = ZONE FLOOR AREA $Voz = Vbz / Ez$ Voz = ZONE OUTDOOR AIR FLOW Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED) Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2) Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN) Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN) | | | | | | | | | | | | | | | |

| FC-1/HP-1 | | | | | | | | | | | | | | | |
|---|------------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 424 | LOGISTICS OFFICE | 500 | OFFICE SPACE | 5 | 3 | 5 | 0.06 | 30 | 45 | 45 | 800 | 6% | 10% | 80 | |
| TOTALS | | 500 | | | 3 | | | | 45 | 45 | 800 | | | 80 | |
| OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3 $Vbz = (Rp * Pz) + (Ra * Az)$ Vbz = BREATHING ZONE OUTDOOR AIR FLOW Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1) Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1) Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1) Az = ZONE FLOOR AREA $Voz = Vbz / Ez$ Voz = ZONE OUTDOOR AIR FLOW Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED) Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2) Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN) Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN) | | | | | | | | | | | | | | | |

| VENTILATION AIR SCHEDULE | | | | | | | | | | | | | | | |
|---|-----------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 401 | EAA LAB | 280 | OFFICE SPACE | 5 | 2 | 5 | 0.06 | 16.8 | 27 | 27 | 400 | 7% | 10% | 40 | |
| TOTALS | | 280 | | | 2 | | | | 27 | 27 | 400 | | | 40 | |
| OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3 $Vbz = (Rp * Pz) + (Ra * Az)$ Vbz = BREATHING ZONE OUTDOOR AIR FLOW Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1) Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1) Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1) Az = ZONE FLOOR AREA $Voz = Vbz / Ez$ Voz = ZONE OUTDOOR AIR FLOW Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED) Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2) Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN) Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN) | | | | | | | | | | | | | | | |

| FPB-2 | | | | | | | | | | | | | | | |
|---|-------------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 459 | CUSTOMER VIEWING | 875 | OFFICE SPACE | 5 | 5 | 5 | 0.06 | 32.5 | 78 | 78 | 725 | 11% | 20% | 145 | |
| 461 | CERTIFIED RECORDS | 100 | STORAGE ROOMS | 0 | 0 | 0 | 0.12 | 12 | 12 | 15 | 75 | 20% | 20% | 15 | |
| TOTALS | | 975 | | | 5 | | | | 90 | 93 | 800 | | | 160 | |
| OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3 $Vbz = (Rp * Pz) + (Ra * Az)$ Vbz = BREATHING ZONE OUTDOOR AIR FLOW Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1) Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1) Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1) Az = ZONE FLOOR AREA $Voz = Vbz / Ez$ Voz = ZONE OUTDOOR AIR FLOW Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED) Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2) Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN) Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN) | | | | | | | | | | | | | | | |

| FPB-3 | | | | | | | | | | | | | | | |
|---|------------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 459 | CUSTOMER VIEWING | 670 | OFFICE SPACE | 5 | 4 | 5 | 0.06 | 40.2 | 60 | 61 | 800 | 8% | 20% | 160 | |
| TOTALS | | 670 | | | 4 | | | | 60 | 61 | 800 | | | 160 | |
| OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3 $Vbz = (Rp * Pz) + (Ra * Az)$ Vbz = BREATHING ZONE OUTDOOR AIR FLOW Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1) Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1) Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1) Az = ZONE FLOOR AREA $Voz = Vbz / Ez$ Voz = ZONE OUTDOOR AIR FLOW Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED) Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2) Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN) Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN) | | | | | | | | | | | | | | | |

| FPB-4 | | | | | | | | | | | | | | | |
|---|-----------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 458 | DEMO ROOM | 570 | OFFICE SPACE | 5 | 3 | 5 | 0.06 | 34.2 | 49 | 50 | 800 | 6% | 20% | 160 | |
| TOTALS | | 570 | | | 3 | | | | 49 | 50 | 800 | | | 160 | |
| OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3 $Vbz = (Rp * Pz) + (Ra * Az)$ Vbz = BREATHING ZONE OUTDOOR AIR FLOW Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1) Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1) Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1) Az = ZONE FLOOR AREA $Voz = Vbz / Ez$ Voz = ZONE OUTDOOR AIR FLOW Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED) Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2) Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN) Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN) | | | | | | | | | | | | | | | |

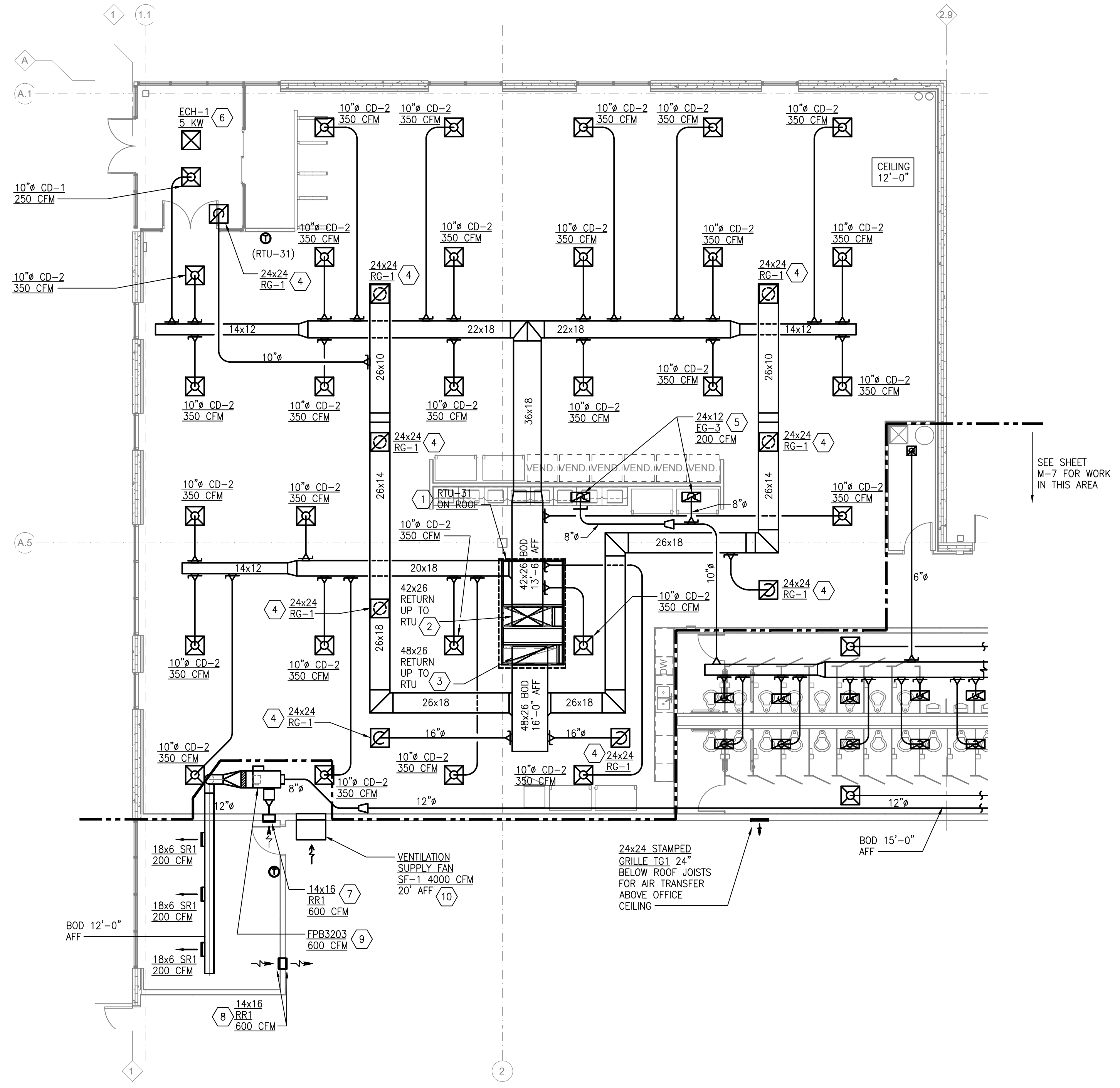
DATE: 3-21-25
 BY: CKB
 ISSUE/REVISION: ISSUED FOR PERMIT

STATE OF OHIO
 WILLIAM JOHN ALBRECHT, JR.
 REGISTERED PROFESSIONAL ENGINEER

ESTD 1951
 PERFECTION GROUP

VENTILATION SCHEDULES
 HVAC RENOVATIONS FOR:
 FL1B - ENERGIZE TI SCHNEIDER ELECTRIC
 8210 SEWARD ROAD
 FAIRFIELD, OHIO 45011

JOB NO.: 25025
 SCALE: AS NOTED
 DATE: 3-20-25
 DRAWN BY: CKB
 APPROVED BY: CSL
 DRAWING NUMBER:
M-4
 REVISION NO.: 0

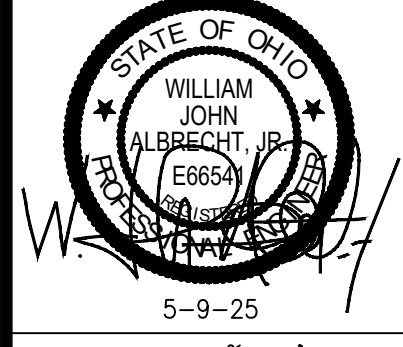


RTU-31 HVAC FLOOR PLAN
1/8"=1'-0"

KEYNOTES

- 1 RTU INSTALLED ON 14" ROOF CURB.
- 2 VERTICAL SUPPLY DROP FROM RTU TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZE SHOWN IS OUTSIDE DIMENSIONS. ALL HORIZONTAL SUPPLY DUCTWORK AFTER ELBOW AT BOTTOM OF VERTICAL DROP TO BE EXTERNALLY INSULATED.
- 3 VERTICAL RETURN DROP FROM RTU TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZE SHOWN IS OUTSIDE DIMENSIONS. ALL HORIZONTAL RETURN DUCTWORK AFTER ELBOW AT BOTTOM OF VERTICAL DROP TO BE UN-INSULATED.
- 4 PROVIDE 8" DEEP PLENUM BOX ON TOP OF GRILLE FOR CONNECTION OF BRANCH DUCT.
- 5 EXHAUST GRILLE OVER MICROWAVES. COORDINATE INSTALLATION WITH OTHER TRADES. PROVIDE 8" DEEP PLENUM BOX ON TOP OF GRILLE FOR CONNECTION OF BRANCH DUCT.
- 6 INSTALL HEATER FLUSH IN CEILING.
- 7 INSTALL GRILLE DIRECTLY OFF SIDE OF FAN POWERED BOX IN EAA LAB WALL.
- 8 PROVIDE GRILLE ON BOTH SIDES OF WALL. MOUNT 10'-0" AFF.
- 9 CONTROLS AND THERMOSTAT INSTALLATION TO BE PERFORMED BY SCHNEIDER ELECTRIC CONTROLS GROUP. ENSURE BOX IS INSTALLED ALLOWING CODE REQUIRED CLEARANCE IN FRONT OF ANY ELECTRIC ACCESS POINT.
- 10 FAN TO RUN CONTINUOUSLY.

| DATE | ISSUE/REVISION |
|---------|----------------|
| 5-9-25 | CKB |
| 8-11-25 | CKB |
| 8-25-25 | CKB |

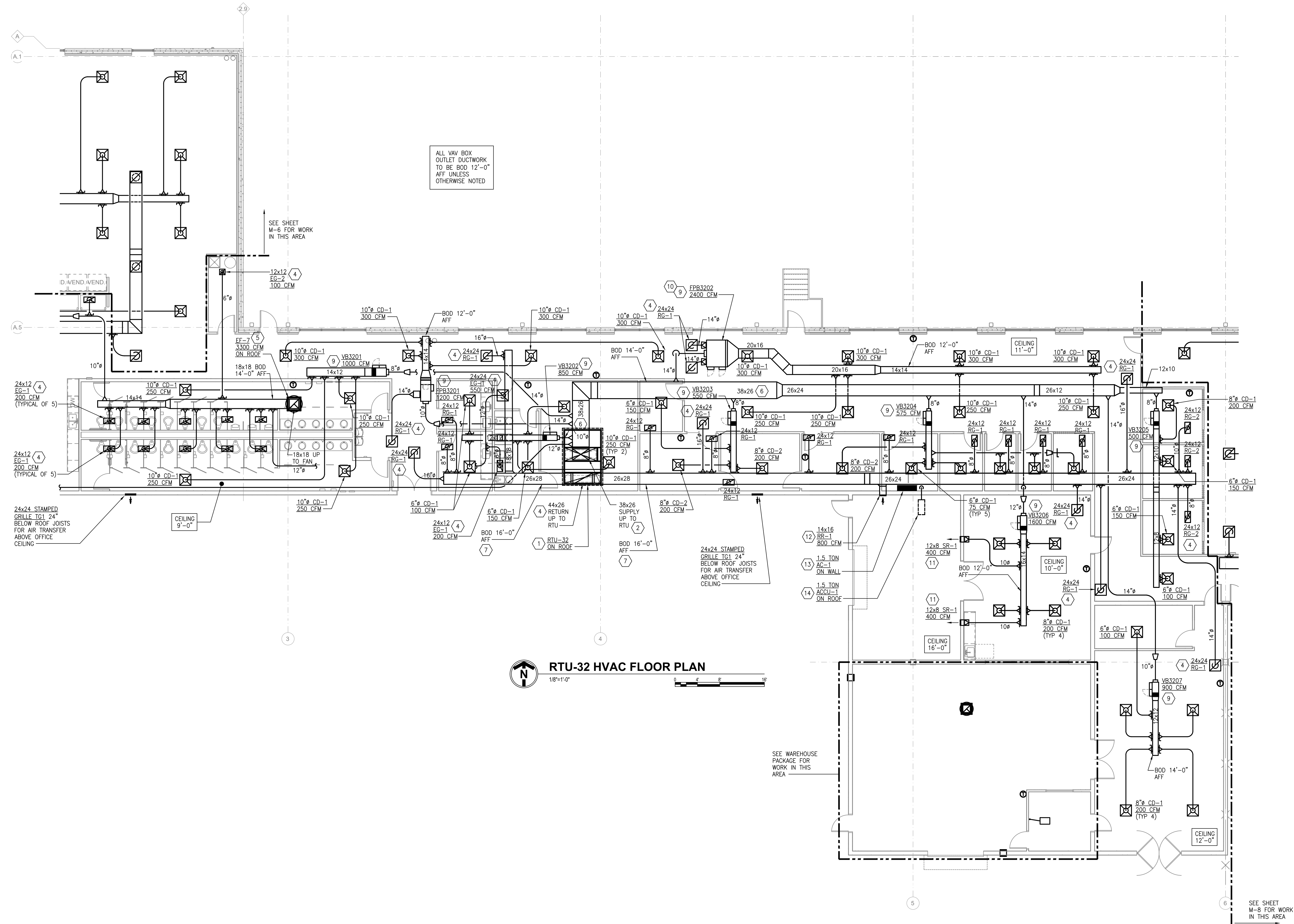


NOTICE: CONSULTING ENGINEER HAS REVIEWED THIS DRAWING FOR CONFORMANCE WITH THE PROFESSIONAL ENGINEERING ACT AND RULES OF THE BOARD OF ENGINEERING EXAMINERS, STATE OF OHIO. THIS REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE DRAWING AND DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY OF ANY KIND. THE CONSULTING ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY HIMSELF OR HERSELF OR BY HIS OR HER EMPLOYEES OR AGENTS. THIS REVIEW DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY OF ANY KIND. THE CONSULTING ENGINEER'S LIABILITY IS LIMITED TO THE PROFESSIONAL SERVICES PROVIDED BY HIMSELF OR HERSELF OR BY HIS OR HER EMPLOYEES OR AGENTS.



RTU-31 HVAC FLOOR PLAN
HVAC RENOVATIONS FOR:
FL1B - ENERGIZE TI SCHNEIDER ELECTRIC
8210 SEWARD ROAD
FAIRFIELD, OHIO 45011

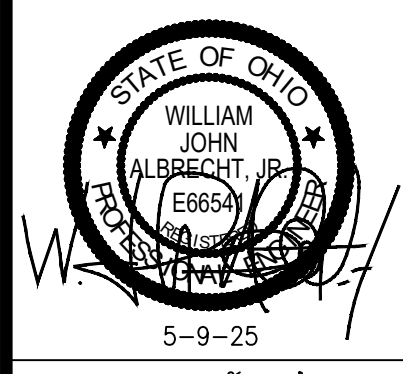
JOB NO.: 25025
SCALE: AS NOTED
DATE: 4-25-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-6
REVISION NO.: 2



RTU-32 HVAC FLOOR PLAN
1/8"=1'-0"

- KEYNOTES**
- RTU INSTALLED ON 14" ROOF CURB.
 - VERTICAL SUPPLY DROP FROM RTU TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZE SHOWN IS OUTSIDE DIMENSIONS. ALL HORIZONTAL SUPPLY DUCTWORK AFTER ELBOW AT BOTTOM OF VERTICAL DROP TO BE EXTERNALLY INSULATED.
 - VERTICAL RETURN DROP FROM RTU TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZE SHOWN IS OUTSIDE DIMENSIONS. ALL HORIZONTAL RETURN DUCTWORK AFTER ELBOW AT BOTTOM OF VERTICAL DROP TO BE UN-INSULATED.
 - PROVIDE 8" DEEP PLENUM BOX ON TOP OF GRILLE FOR CONNECTION OF BRANCH DUCT.
 - EXHAUST FAN INSTALLED ON 14" ROOF CURB. PROVIDE GRAVITY DAMPER TRAY AT FAN INLET. FAN TO BE CONNECTED TO AND SCHEDULED THRU BAS BY SCHNEIDER ELECTRIC CONTROLS GROUP.
 - SUPPLY DUCTWORK TO BE EXTERNALLY INSULATED.
 - RETURN DUCTWORK TO BE UN-INSULATED.
 - COORDINATE DUCT HEIGHT CROSSING RETURN MAIN TO ALLOW FOR CEILING HEIGHT OF SPACE.
 - CONTROLS AND THERMOSTAT INSTALLATION TO BE PERFORMED BY SCHNEIDER ELECTRIC CONTROLS GROUP. ENSURE BOX IS INSTALLED ALLOWING CODE REQUIRED CLEARANCE IN FRONT OF ANY ELECTRIC ACCESS POINT.
 - COORDINATE INSTALLATION OF LARGE FAN POWERED BOX WITH OTHER TRADES.
 - MOUNT ON WALL 12'-0" AFF.
 - MOUNT ON WALL 6" BELOW CEILING.
 - MOUNT ON WALL 8'-0" AFF. ROUTE CONDENSATE TO OUTDOORS THRU EXTERIOR WALL. TERMINATE ON SPLASH BLOCK.
 - MOUNT ON ROOF WITH ROOF RAILS. ROUTE LINESET AND POWER CABLE TO AC-1 AS REQUIRED.

| DATE | BY | ISSUE/REVISION |
|---------|-----|-----------------------------------|
| 5-8-25 | CKB | ISSUED FOR PERMIT |
| 7-1-25 | CKB | GENERAL AIR DISTRIBUTION REVISION |
| 8-11-25 | CKB | FINAL FOR CONSTRUCTION |
| 8-25-25 | CKB | UPDATED VAV BOX INLET SIZES |



MODEL: THIS DRAWING IS TO BE USED IN CONNECTION WITH THE PERMITS AND REGULATIONS OF THE STATE OF OHIO. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND REGULATIONS.

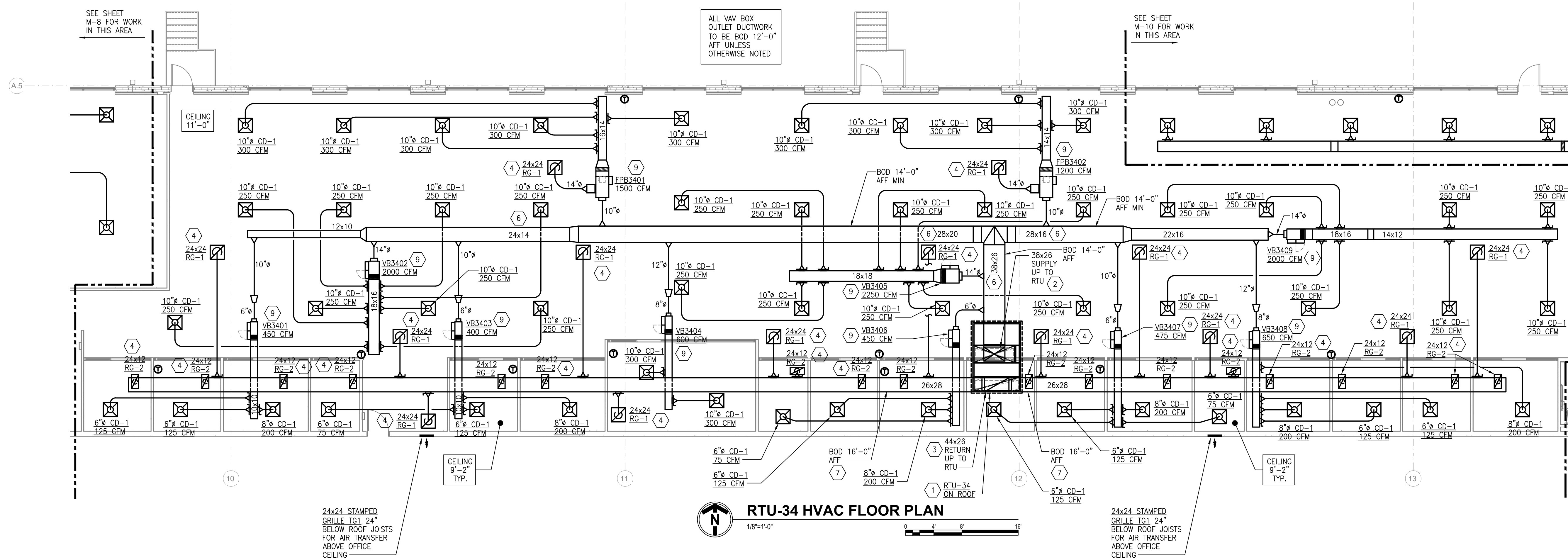


RTU-32 HVAC FLOOR PLAN
HVAC RENOVATIONS FOR:
FL1B - ENERGIZE TI SCHNEIDER ELECTRIC
8210 SEWARD ROAD
FAIRFIELD, OHIO 45011

JOB NO.: 25025
SCALE: AS NOTED
DATE: 4-25-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-7
REVISION NO.: 3

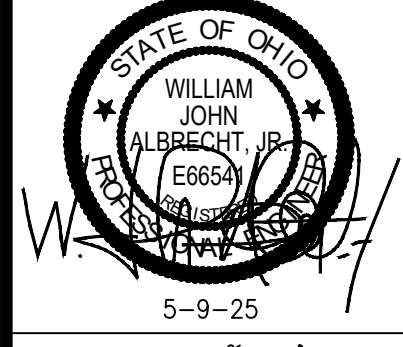
KEYNOTES

- 1 RTU INSTALLED ON 14" ROOF CURB.
- 2 VERTICAL SUPPLY DROP FROM RTU TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZE SHOWN IS OUTSIDE DIMENSIONS. ALL HORIZONTAL SUPPLY DUCTWORK AFTER ELBOW AT BOTTOM OF VERTICAL DROP TO BE EXTERNALLY INSULATED.
- 3 VERTICAL RETURN DROP FROM RTU TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZE SHOWN IS OUTSIDE DIMENSIONS. ALL HORIZONTAL RETURN DUCTWORK AFTER ELBOW AT BOTTOM OF VERTICAL DROP TO BE EXTERNALLY INSULATED.
- 4 PROVIDE 8" DEEP PLENUM BOX ON TOP OF GRILLE FOR CONNECTION OF BRANCH DUCT.
- 5 NOT USED.
- 6 SUPPLY DUCTWORK TO BE EXTERNALLY INSULATED.
- 7 RETURN DUCTWORK TO BE UN-INSULATED.
- 8 COORDINATE DUCT HEIGHT CROSSING RETURN MAIN TO ALLOW FOR CEILING HEIGHT OF SPACE.
- 9 CONTROLS AND THERMOSTAT INSTALLATION TO BE PERFORMED BY SCHNEIDER ELECTRIC CONTROLS GROUP. ENSURE BOX IS INSTALLED ALLOWING CODE REQUIRED CLEARANCE IN FRONT OF ANY ELECTRIC ACCESS POINT.



RTU-34 HVAC FLOOR PLAN
1/8"=1'-0"

| DATE | ISSUE/REVISION |
|---------|---------------------------------|
| 5-9-25 | CKB ISSUED FOR PERMIT |
| 8-11-25 | CKB FINAL FOR CONSTRUCTION |
| 8-25-25 | CKB UPDATED VAV BOX INLET SIZES |



NOTICE: CONSULTING ENGINEER HAS REVIEWED THIS DRAWING FOR CONFORMANCE WITH THE PROFESSIONAL ENGINEERING ACT AND RULES OF THE BOARD OF ENGINEERS OF THE STATE OF OHIO. THIS REVIEW IS LIMITED TO THE TECHNICAL ASPECTS OF THE DRAWING AND DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY OF ANY KIND. THE CONSULTING ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THIS DRAWING THAT MAY BE CAUSED BY INCOMPLETE OR INACCURATE INFORMATION PROVIDED BY THE CLIENT OR OTHER SOURCES.

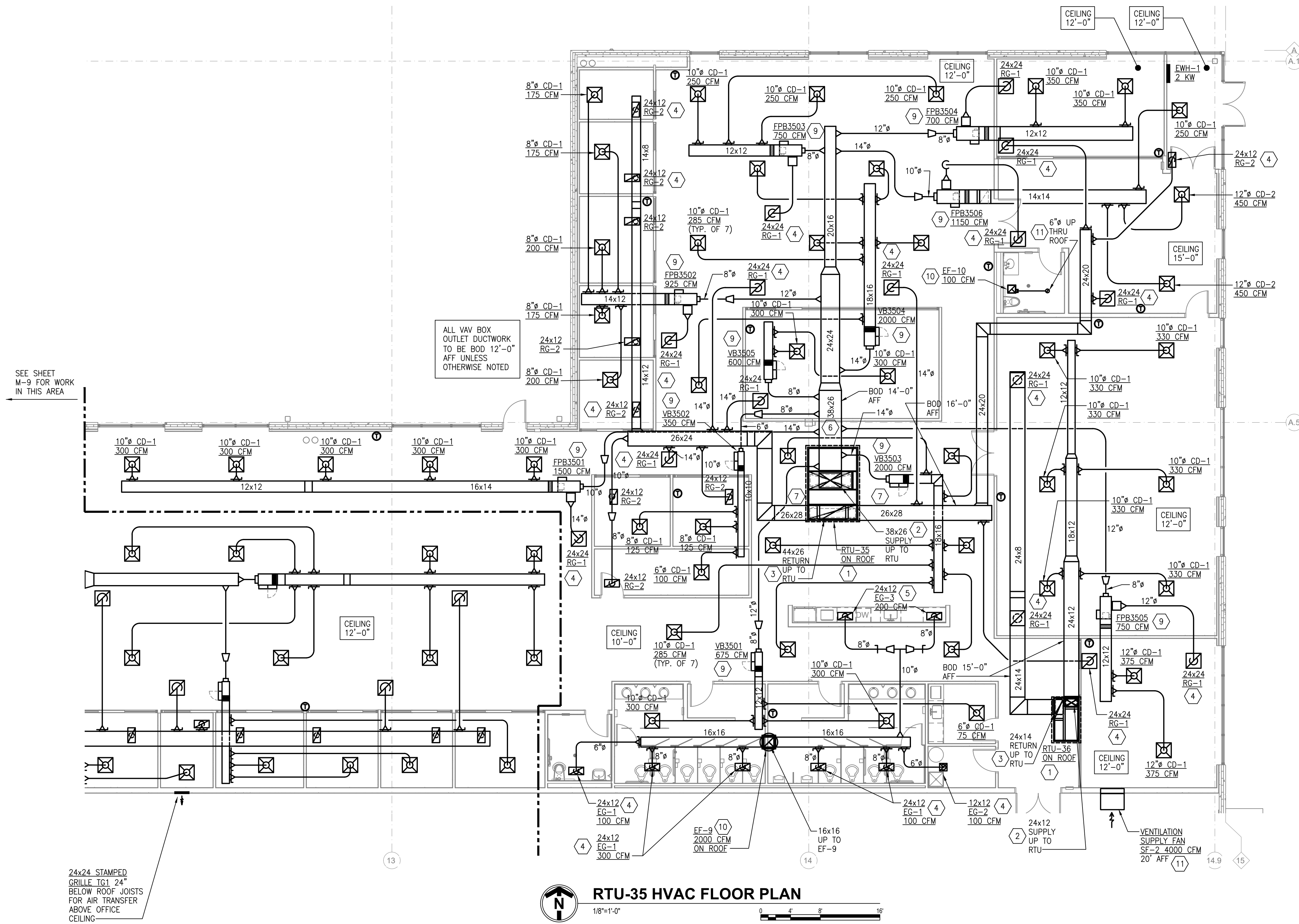


RTU-34 HVAC FLOOR PLAN
HVAC RENOVATIONS FOR:
FL1B - ENERGIZE TI SCHNEIDER ELECTRIC
8210 SEWARD ROAD
FAIRFIELD, OHIO 45011

JOB NO.: 25025
SCALE: AS NOTED
DATE: 4-25-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-9
REVISION NO.: 2

KEYNOTES

- 1 RTU INSTALLED ON 14" ROOF CURB.
- 2 VERTICAL SUPPLY DROP FROM RTU TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZE SHOWN IS OUTSIDE DIMENSIONS. ALL HORIZONTAL SUPPLY DUCTWORK AFTER ELBOW AT BOTTOM OF VERTICAL DROP TO BE EXTERNALLY INSULATED.
- 3 VERTICAL RETURN DROP FROM RTU TO BE INTERNALLY LINED WITH 1" INSULATION. DUCT SIZE SHOWN IS OUTSIDE DIMENSIONS. ALL HORIZONTAL RETURN DUCTWORK AFTER ELBOW AT BOTTOM OF VERTICAL DROP TO BE EXTERNALLY INSULATED.
- 4 PROVIDE 8" DEEP PLENUM BOX ON TOP OF GRILLE FOR CONNECTION OF BRANCH DUCT.
- 5 EXHAUST GRILLE OVER MICROWAVES. COORDINATE INSTALLATION WITH OTHER TRADES. PROVIDE 8" DEEP PLENUM BOX ON TOP OF GRILLE FOR CONNECTION OF BRANCH DUCT.
- 6 SUPPLY DUCTWORK TO BE EXTERNALLY INSULATED.
- 7 RETURN DUCTWORK TO BE UN-INSULATED.
- 8 COORDINATE DUCT HEIGHT CROSSING RETURN MAIN TO ALLOW FOR CEILING HEIGHT OF SPACE.
- 9 CONTROLS AND THERMOSTAT INSTALLATION TO BE PERFORMED BY SCHNEIDER ELECTRIC CONTROLS GROUP. ENSURE BOX IS INSTALLED ALLOWING CODE REQUIRED CLEARANCE IN FRONT OF ANY ELECTRIC ACCESS POINT.
- 10 EXHAUST FAN INSTALLED ON 14" ROOF CURB. PROVIDE GRAVITY DAMPER TRAY AT FAN INLET. FAN TO BE CONNECTED TO AND SCHEDULED THRU BAS BY SCHNEIDER ELECTRIC CONTROLS GROUP.
- 11 FAN TO RUN CONTINUOUSLY.



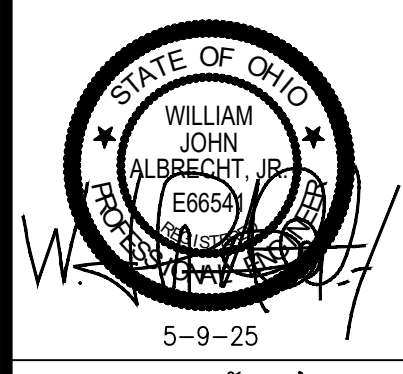
ALL VAV BOX
OUTLET DUCTWORK
TO BE BOD 12'-0"
AFF UNLESS
OTHERWISE NOTED

SEE SHEET
M-9 FOR WORK
IN THIS AREA

24x24 STAMPED
GRILLE TO 24"
BELOW ROOF JOISTS
FOR AIR TRANSFER
ABOVE OFFICE
CEILING

RTU-35 HVAC FLOOR PLAN
1/8"=1'-0"

| DATE | ISSUE/REVISION |
|---------|---------------------------------|
| 5-9-25 | CKB ISSUED FOR PERMIT |
| 7-1-25 | CKB REVISED RTU-35/ADDED RTU-36 |
| 8-11-25 | CKB FINAL FOR CONSTRUCTION |
| 8-25-25 | CKB UPDATED VAV BOX INLET SIZES |



MODEL: CONSULTING ENGINEER
I HAVE REVIEWED THIS DRAWING AND
IT IS IN ACCORDANCE WITH THE
REQUIREMENTS OF THE BOARD OF
EXAMINERS OF PROFESSIONAL ENGINEERS
OF THE STATE OF OHIO. I AM NOT PROVIDING
ANY GUARANTEE OR WARRANTY FOR THE
USE OF THIS DRAWING FOR ANY OTHER
PROJECT OR PURPOSE WITHOUT MY
WRITTEN PERMISSION.



RTU-35 HVAC FLOOR PLAN
HVAC RENOVATIONS FOR:
FL1B - ENERGIZE TI SCHNEIDER ELECTRIC
8210 SEWARD ROAD
FAIRFIELD, OHIO 45011

JOB NO.: 25025
SCALE: AS NOTED
DATE: 4-25-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-10
REVISION NO.: 3

| ELECTRIC HEATER SCHEDULE | | | | | | | | | | | | |
|--------------------------|--------------|----------|-------------|--------------|---------------|-------------------|-----------|------------|------|-----|------|-------------|
| TAG | MANUFACTURER | MODEL | AREA SERVED | MTG HT (AFF) | SHIP WT (LBS) | HEAT OUTPUT (MBH) | KW | ELECTRICAL | | | | ACCESSORIES |
| | | | | | | | | VOLT/PHASE | AMPS | MCA | MOCP | |
| ECH-1 | BERKO | FFCH57RE | VESTIBULE | CEILING | 37 | 17.1 | 5/3,8/2.5 | 277/1 | 18.1 | | | 1,2 |
| EUH-1 | BERKO | FRA1812F | VESTIBULE | 12" | 25 | 6.1 | | 120/1 | 15 | | | 1 |

- FULLY RECESSED MOUNTING ENCLOSURE (STANDARD), INTEGRAL TSTAT, DISCONNECT INCLUDED
- RECESSED CEILING MOUNT

| ELECTRIC UNIT HEATER SCHEDULE | | | | | | | | | | | | | |
|-------------------------------|--------------|----------|-------------|----------------|--------------|---------------|-------------------|----|------------|------|-----|------|-------------|
| TAG | MANUFACTURER | MODEL | AREA SERVED | AIR FLOW (CFM) | MTG HT (AFF) | SHIP WT (LBS) | HEAT OUTPUT (MBH) | KW | ELECTRICAL | | | | ACCESSORIES |
| | | | | | | | | | VOLT/PHASE | AMPS | MCA | MOCP | |
| UH-1 | BERKO | HUHAAS27 | ELEC ROOM | 350 | 8' | 27 | 17 | 5 | 277/1 | | | 1 | |
| UH-2 | BERKO | HUHAAS27 | PUMP ROOM | 350 | 8' | 27 | 17 | 5 | 277/1 | | | 1 | |

- VERTICAL MOUNTING BRACKET
- THERMOSTAT

| VARIABLE AIR VOLUME BOX SCHEDULE | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--------------|-----------------|-------|---------|---------|-----------------|--------------|-------------|----------------|--------------|------|------------|-----|------|---------------------------|--------------------------|----------------|-----------------|-------------|
| BOX # | MANUFACTURER | FOOTPRINT (LxW) | MODEL | AIRFLOW | | HEATING AIRFLOW | CONTROL TYPE | REHEAT TYPE | REHEAT (IN WG) | REHEAT (MBH) | KW | ELECTRICAL | | | ENTERING AIR TEMP (DEG F) | LEAVING AIR TEMP (DEG F) | INLET (INCHES) | OUTLET (INCHES) | ACCESSORIES |
| | | | | MAXIMUM | MINIMUM | | | | | | | VOLT/PHASE | MCA | MOCP | | | | | |
| VB-32-01 | NAILOR | 31x12 | D30RE | 1000 | 1000 | 1000 | DDC | ELEC | 0.10 | 27.1 | 8.0 | 480/3 | 55 | 80 | 10 | 14x12.5 | 12.3 | | |
| VB-32-02 | NAILOR | 31x12 | D30RE | 850 | 275 | 850 | DDC | ELEC | 0.10 | 17.6 | 5.2 | 480/3 | 55 | 80 | 10 | 14x12.5 | 12.3 | | |
| VB-32-03 | NAILOR | 31x12 | D30RE | 550 | 175 | 400 | DDC | ELEC | 0.10 | 10.9 | 3.2 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| VB-32-04 | NAILOR | 31x12 | D30RE | 575 | 175 | 400 | DDC | ELEC | 0.10 | 10.9 | 3.2 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| VB-32-05 | NAILOR | 31x12 | D30RE | 900 | 175 | 375 | DDC | ELEC | 0.10 | 10.2 | 3.0 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| VB-32-06 | NAILOR | 31x14 | D30RE | 1600 | 600 | 1200 | DDC | ELEC | 0.10 | 32.6 | 9.5 | 480/3 | 55 | 80 | 12 | 18x12.5 | 12.3 | | |
| VB-32-07 | NAILOR | 31x12 | D30RE | 900 | 300 | 675 | DDC | ELEC | 0.10 | 18.3 | 5.4 | 480/3 | 55 | 80 | 10 | 14x12.5 | 12.3 | | |
| TOTAL | | | | 5975 | 2700 | 4700 | | | TOTAL | 127.5 | 37.4 | | | | | | | | |
| VB-33-01 | NAILOR | 31x14 | D30RE | 1700 | 600 | 1275 | DDC | ELEC | 0.10 | 34.6 | 10.1 | 480/3 | 55 | 80 | 12 | 18x12.5 | 12.3 | | |
| VB-33-02 | NAILOR | 31x12 | D30RE | 725 | 225 | 525 | DDC | ELEC | 0.10 | 14.2 | 4.2 | 480/3 | 55 | 80 | 10 | 14x12.5 | 12.3 | | |
| VB-33-03 | NAILOR | 31x14 | D30RE | 600 | 200 | 450 | DDC | ELEC | 0.10 | 12.2 | 3.6 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| VB-33-04 | NAILOR | 31x12 | D30RE | 1200 | 400 | 900 | DDC | ELEC | 0.10 | 24.4 | 7.2 | 480/3 | 55 | 80 | 12 | 18x12.5 | 12.3 | | |
| VB-33-05 | NAILOR | 31x12 | D30RE | 900 | 300 | 675 | DDC | ELEC | 0.10 | 18.3 | 5.4 | 480/3 | 55 | 80 | 10 | 14x12.5 | 12.3 | | |
| VB-33-06 | NAILOR | 31x14 | D30RE | 1200 | 300 | 900 | DDC | ELEC | 0.10 | 24.4 | 7.2 | 480/3 | 55 | 80 | 12 | 18x12.5 | 12.3 | | |
| VB-33-07 | NAILOR | 31x12 | D30RE | 600 | 800 | 600 | DDC | ELEC | 0.10 | 16.3 | 4.8 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| VB-33-08 | NAILOR | 31x10 | D30RE | 300 | 100 | 225 | DDC | ELEC | 0.10 | 6.1 | 1.8 | 480/3 | 55 | 80 | 6 | 10x10 | 12.3 | | |
| TOTAL | | | | 7225 | 2725 | 5550 | | | TOTAL | 150.5 | 44.1 | | | | | | | | |
| VB-34-01 | NAILOR | 31x10 | D30RE | 450 | 150 | 350 | DDC | ELEC | 0.10 | 9.5 | 2.8 | 480/3 | 55 | 80 | 6 | 10x10 | 12.3 | | |
| VB-34-02 | NAILOR | 31x18 | D30RE | 2000 | 700 | 1500 | DDC | ELEC | 0.10 | 40.7 | 11.9 | 480/3 | 55 | 80 | 14 | 24x12.5 | 12.3 | | |
| VB-34-03 | NAILOR | 31x10 | D30RE | 400 | 125 | 250 | DDC | ELEC | 0.10 | 6.8 | 2.0 | 480/3 | 55 | 80 | 6 | 10x10 | 12.3 | | |
| VB-34-04 | NAILOR | 31x12 | D30RE | 600 | 200 | 450 | DDC | ELEC | 0.10 | 12.2 | 3.6 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| VB-34-05 | NAILOR | 31x12 | D30RE | 2250 | 750 | 1675 | DDC | ELEC | 0.10 | 45.4 | 13.3 | 480/3 | 55 | 80 | 14 | 24x12.5 | 12.3 | | |
| VB-34-06 | NAILOR | 31x10 | D30RE | 450 | 150 | 350 | DDC | ELEC | 0.10 | 9.5 | 2.8 | 480/3 | 55 | 80 | 6 | 10x10 | 12.3 | | |
| VB-34-07 | NAILOR | 31x10 | D30RE | 475 | 125 | 350 | DDC | ELEC | 0.10 | 9.5 | 2.8 | 480/3 | 55 | 80 | 6 | 10x10 | 12.3 | | |
| VB-34-08 | NAILOR | 31x12 | D30RE | 650 | 225 | 475 | DDC | ELEC | 0.10 | 12.9 | 3.8 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| VB-34-09 | NAILOR | 31x18 | D30RE | 2000 | 700 | 1500 | DDC | ELEC | 0.10 | 40.7 | 11.9 | 480/3 | 55 | 80 | 14 | 24x12.5 | 12.3 | | |
| TOTAL | | | | 9275 | 3125 | 6900 | | | TOTAL | 187.2 | 54.9 | | | | | | | | |
| VB-35-01 | NAILOR | 31x12 | D30RE | 675 | 675 | 675 | DDC | ELEC | 0.10 | 18.3 | 5.4 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| VB-35-02 | NAILOR | 31x10 | D30RE | 350 | 125 | 250 | DDC | ELEC | 0.10 | 6.8 | 2.0 | 480/3 | 55 | 80 | 6 | 10x10 | 12.3 | | |
| VB-35-03 | NAILOR | 31x18 | D30RE | 2000 | 700 | 1500 | DDC | ELEC | 0.10 | 40.7 | 11.9 | 480/3 | 55 | 80 | 14 | 24x12.5 | 12.3 | | |
| VB-35-04 | NAILOR | 31x18 | D30RE | 2000 | 700 | 1500 | DDC | ELEC | 0.10 | 40.7 | 11.9 | 480/3 | 55 | 80 | 14 | 24x12.5 | 12.3 | | |
| VB-35-05 | NAILOR | 31x12 | D30RE | 600 | 600 | 600 | DDC | ELEC | 0.10 | 18.3 | 5.4 | 480/3 | 55 | 80 | 8 | 12x12.5 | 12.3 | | |
| TOTAL | | | | 5625 | 2800 | 4075 | | | TOTAL | 110.5 | 32.4 | | | | | | | | |

- PRESSURE INDEPENDENT CONTROLLER
- SCR CONTROL
- 3-WIRE POWER

| FAN POWERED VARIABLE AIR VOLUME BOX SCHEDULE | | | | | | | | | | | | | | | | | | | | |
|--|--------------|-----------------|-----------------|-------|---------|-----------------|---------|--------------|-------------|--------|-------------|--------------|------|------------|------|------|---------------------------|--------------------------|----------------|-------------|
| BOX # | MANUFACTURER | UNIT SIZE (LxW) | FOOTPRINT (LxW) | MODEL | FAN CFM | PRIMARY AIR CFM | | CONTROL TYPE | REHEAT TYPE | FAN HP | ESP (IN WG) | REHEAT (MBH) | KW | ELECTRICAL | | | ENTERING AIR TEMP (DEG F) | LEAVING AIR TEMP (DEG F) | INLET (INCHES) | ACCESSORIES |
| | | | | | | MAXIMUM | MINIMUM | | | | | | | VOLT/PHASE | MCA | MOCP | | | | |
| FPB-32-01 | NAILOR | 310 | 36x18 | D35SE | 1200 | 200 | 400 | DDC | ELEC | 1/2 | 0.25 | 39.1 | 11.5 | 480/3 | 22 | 65 | 95 | 10 | 12.3 | |
| FPB-32-02 | NAILOR | 714 | 41x52 | D35SE | 2400 | 2400 | 800 | DDC | ELEC | 2 3/4 | 0.25 | 78.1 | 22.9 | 480/3 | 48.7 | 65 | 95 | 14 | 12.3 | |
| FPB-32-03 | NAILOR | 208 | 36x18 | D35SE | 600 | 600 | 200 | DDC | ELEC | 1/3 | 0.25 | 19.5 | 5.7 | 480/3 | 11.6 | 65 | 95 | 8 | 12.3 | |
| TOTAL | | | | | 3600 | 3600 | 1200 | | | | | 117.2 | 34.4 | | | | | | | |
| FPB-33-01 | NAILOR | 410 | 41x26 | D35SE | 1500 | 1500 | 500 | DDC | ELEC | 1/2 | 0.25 | 48.8 | 14.3 | 480/3 | 26.3 | 65 | 95 | 10 | 12.3 | |
| FPB-33-02 | NAILOR | 410 | 41x26 | D35SE | 1500 | 1500 | 500 | DDC | ELEC | 1/2 | 0.25 | 48.8 | 14.3 | 480/3 | 26.3 | 65 | 95 | 10 | 12.3 | |
| FPB-33-03 | NAILOR | 310 | 36x18 | D35SE | 1200 | 1200 | 400 | DDC | ELEC | 1/2 | 0.25 | 39.1 | 11.5 | 480/3 | 22 | 65 | 95 | 10 | 12.3 | |
| TOTAL | | | | | 4200 | 4200 | 1400 | | | | | 136.7 | 40.1 | | | | | | | |
| FPB-34-01 | NAILOR | 410 | 41x26 | D35SE | 1500 | 1500 | 500 | DDC | ELEC | 1/2 | 0.25 | 48.8 | 14.3 | 480/3 | 26.3 | 65 | 95 | 10 | 12.3 | |
| FPB-34-02 | NAILOR | 310 | 36x18 | D35SE | 1200 | 1200 | 400 | DDC | ELEC | 1/2 | 0.25 | 39.1 | 11.5 | 480/3 | 22 | 65 | 95 | 10 | 12.3 | |
| TOTAL | | | | | 2700 | 2700 | 900 | | | | | 87.9 | 25.8 | | | | | | | |
| FPB-35-01 | NAILOR | 410 | 41x26 | D35SE | 1500 | 1500 | 500 | DDC | ELEC | 1/2 | 0.25 | 48.8 | 14.3 | 480/3 | 26.3 | 65 | 95 | 10 | 12.3 | |
| FPB-35-02 | NAILOR | 308 | 36x18 | D35SE | 925 | 925 | 300 | DDC | ELEC | 1/3 | 0.25 | 30.1 | 8.8 | 480/3 | 15.9 | 65 | 95 | 8 | 12.3 | |
| FPB-35-03 | NAILOR | 208 | 36x18 | D35SE | 750 | 750 | 250 | DDC | ELEC | 1/3 | 0.25 | 24.4 | 7.2 | 480/3 | 13.8 | 65 | 95 | 8 | 12.3 | |
| FPB-35-04 | NAILOR | 208 | 36x18 | D35SE | 700 | 700 | 225 | DDC | ELEC | 1/3 | 0.25 | 22.8 | 6.7 | 480/3 | 13.1 | 65 | 95 | 8 | 12.3 | |
| FPB-35-05 | NAILOR | 208 | 36x18 | D35SE | 750 | 750 | 250 | DDC | ELEC | 1/6 | 0.25 | 24.6 | 7.2 | 480/3 | 14.1 | 65 | 95 | 8 | 12.3 | |
| FPB-35-06 | NAILOR | 310 | 36x18 | D35SE | 1150 | 1150 | 400 | DDC | ELEC | 1/4 | 0.25 | 37.4 | 11.0 | 480/3 | 13.8 | 65 | 95 | 10 | 12.3 | |
| TOTAL | | | | | 5775 | 5775 | 1925 | | | | | 188.2 | 55.2 | | | | | | | |

- PRESSURE INDEPENDENT CONTROLLER
- SCR CONTROL
- INLET SOUND ATTENUATOR
- SINGLE POINT CONNECTION, 4-WIRE POWER

| FAN SCHEDULE | | | | | | | | | | | | | | | | | |
|--------------|--------------|------------|----------------|----------|-----------|-----------------------|---------------|---------------------|-------|-----------------|------------|--------------|------------|-----|---------|--------------|-------------|
| TAG | MANUFACTURER | MODEL | AREA SERVED | LOCATION | FAN TYPE | BACKDRAFT DAMPER TYPE | AIRFLOW (CFM) | EXTERNAL SP (IN WG) | SONES | FAN MOTOR (RPM) | DRIVE TYPE | WEIGHT (LBS) | ELECTRICAL | | | | ACCESSORIES |
| | | | | | | | | | | | | | VOLT/PHASE | HP | WATTS | MCA | |
| EF-7 | GREENHECK | G-180-VG | RESTROOM | ROOF | DOWNBLAST | GRAVITY | 3000 | 0.5 | 11 | 932 | DD | 76 | 115/1/60 | 1.0 | 14 | 30 | 1.2,3,4,5,6 |
| EF-8 | GREENHECK | G-130-VG | RESTROOM | ROOF | DOWNBLAST | GRAVITY | 1200 | 0.375 | 8.1 | 1068 | DD | 76 | 115/1/60 | 1/4 | 4 | 15 | 1.2,3,4,5,6 |
| EF-9 | GREENHECK | G-140-VG | RESTROOM | ROOF | DOWNBLAST | GRAVITY | 2000 | 0.5 | 12 | 1289 | DD | 92 | 115/1/60 | 3/4 | 11 | 20 | 1.2,3,4,5,6 |
| EF-10 | GREENHECK | SP-LP0810W | RESTROOM | CEILING | CEILING | GRAVITY | 100 | 0.4 | 3 | 939 | DD | 8 | 120/3/60 | | | | 7 |
| SF-1 | GREENHECK | BAER-24 | OFFICE CEILING | WALL | PROPELLER | GRAVITY | 4000 | 0.2 | 22 | 964 | BD | 250 | 460/3/60 | 3/4 | 1.6 FLA | 8.9,10,11,12 | |
| SF-2 | GREENHECK | BAER-24 | OFFICE CEILING | WALL | PROPELLER | | | | | | | | | | | | |

| VENTILATION AIR SCHEDULE | | | | | | | | | | | | | | | | |
|--------------------------|-----------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | TABLE 6.2.2.2 Ez AIR DISTRIBUTION EFFICIENCY | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 0 | | | | | | | | | | | | | | | | |
| 101 | CAFÉ | 5.840 | BREAK ROOM | 25 | 200 | 5 | 0.06 | 350.4 | 1350 | 0.8 | 1659 | 9750 | 17% | 20% | 1550 | |
| 100 | VESTIBULE | 178 | MAIN ENTRY LOBBIES | 10 | 2 | 5 | 0.06 | 10.68 | 21 | 0.8 | 26 | 250 | 10% | 20% | 50 | |
| TOTALS | | 6,018 | | | 202 | | | | 1,371 | | 1,714 | 10,000 | | | 2,000 | |

OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3

Vbz = BREATHING ZONE OUTDOOR AIR FLOW
 Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1)
 Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1)
 Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1)
 Az = ZONE FLOOR AREA

Voz = ZONE OUTDOOR AIR FLOW
 Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED)
 Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2)
 Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN)
 Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN)

** TRANSFER AIR IS PERMITTED TO PROVIDE MAKE-UP AIR TO KITCHENS, BATHS, TOILET ROOMS, ELEVATORS, AND SMOKING LOUNGES. THE AMOUNT OF TRANSFER AIR AND EXHAUST AIR SHALL BE SUFFICIENT TO PROVIDE FLOW RATES AS SPECIFIED IN TABLE 403.3. DOORS SHALL BE UNDERCUT 1" OR DOOR GRILLES OF SUFFICIENT SIZE SHALL BE PROVIDED BY GENERAL CONTRACTOR.

| VENTILATION AIR SCHEDULE | | | | | | | | | | | | | | | | |
|--------------------------|-------------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | TABLE 6.2.2.2 Ez AIR DISTRIBUTION EFFICIENCY | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 0 | OPEN OFFICE | 2,625 | OFFICE SPACE | 5 | 14 | 5 | 0.06 | 157.5 | 228 | 0.8 | 285 | 3600 | 8% | 19% | 679 | |
| 107 | FIRST AID | 105 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6.3 | 11 | 0.8 | 15 | 100 | 15% | 19% | 19 | |
| 108 | WELLNESS | 85 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.1 | 10 | 0.8 | 13 | 100 | 13% | 19% | 19 | |
| 109 | MULTIFAITH | 240 | OFFICE SPACE | 5 | 2 | 5 | 0.06 | 14.4 | 24 | 0.8 | 31 | 250 | 12% | 19% | 47 | |
| 109A | ABLUTION | 115 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6.9 | 12 | 0.8 | 15 | 150 | 10% | 19% | 26 | |
| 110 | BADGE PRINT | 75 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.5 | 10 | 0.8 | 12 | 125 | 10% | 19% | 24 | |
| 111 | HR OFFICE | 147 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 8.82 | 14 | 0.8 | 18 | 150 | 12% | 19% | 28 | |
| 112 | HR HUDDLE | 146 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 8.76 | 29 | 0.8 | 36 | 200 | 18% | 19% | 38 | |
| 113 | HR OFFICE | 145 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 8.7 | 14 | 0.8 | 18 | 150 | 10% | 19% | 28 | |
| 114 | ID/MDF | 105 | STORAGE ROOMS | 0 | 0 | 0 | 0.12 | 12.6 | 13 | 0.8 | 16 | 150 | 11% | 19% | 28 | |
| 115 | IT STORAGE | 78 | STORAGE ROOMS | 0 | 0 | 0 | 0.12 | 9.36 | 9 | 0.8 | 12 | 75 | 16% | 19% | 14 | |
| 116 | STORAGE | 59 | STORAGE ROOMS | 0 | 0 | 0 | 0.12 | 7.08 | 7 | 0.8 | 9 | 75 | 12% | 19% | 14 | |
| 117 | STORAGE | 59 | STORAGE ROOMS | 0 | 0 | 0 | 0.12 | 7.08 | 7 | 0.8 | 9 | 75 | 12% | 19% | 14 | |
| 118 | PHONE | 74 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.44 | 9 | 0.8 | 12 | 75 | 16% | 19% | 14 | |
| 119 | PHONE | 74 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.44 | 9 | 0.8 | 12 | 75 | 16% | 19% | 14 | |
| 123 | HUDDLE | 104 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 6.24 | 26 | 0.8 | 33 | 175 | 19% | 19% | 33 | |
| 124 | OFFICE | 105 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6.3 | 11 | 0.8 | 15 | 150 | 10% | 19% | 28 | |
| 125 | OFFICE | 105 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6.3 | 11 | 0.8 | 15 | 150 | 10% | 19% | 28 | |
| 458 | DEMO ROOM | 575 | OFFICE SPACE | 5 | 3 | 5 | 0.06 | 34.5 | 50 | 0.8 | 62 | 800 | 8% | 19% | 151 | |
| 459 | CUSTOMER VIEWING | 679 | OFFICE SPACE | 5 | 4 | 5 | 0.06 | 40.74 | 61 | 0.8 | 76 | 800 | 10% | 19% | 151 | |
| 455 | R&D DESIGN | 876 | OFFICE SPACE | 5 | 5 | 5 | 0.06 | 52.56 | 78 | 0.8 | 97 | 800 | 12% | 19% | 151 | |
| 461 | CERTIFIED RECORDS | 860 | STORAGE ROOMS | 0 | 0 | 0 | 0.12 | 14.4 | 14 | 0.8 | 18 | 100 | 18% | 19% | 19 | |
| TOTALS | | 6,696 | | | 46 | | | | 657 | | 829 | 8,325 | | | 1,570 | |

OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3

Vbz = BREATHING ZONE OUTDOOR AIR FLOW
 Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1)
 Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1)
 Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1)
 Az = ZONE FLOOR AREA

Voz = ZONE OUTDOOR AIR FLOW
 Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED)
 Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2)
 Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN)
 Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN)

** TRANSFER AIR IS PERMITTED TO PROVIDE MAKE-UP AIR TO KITCHENS, BATHS, TOILET ROOMS, ELEVATORS, AND SMOKING LOUNGES. THE AMOUNT OF TRANSFER AIR AND EXHAUST AIR SHALL BE SUFFICIENT TO PROVIDE FLOW RATES AS SPECIFIED IN TABLE 403.3. DOORS SHALL BE UNDERCUT 1" OR DOOR GRILLES OF SUFFICIENT SIZE SHALL BE PROVIDED BY GENERAL CONTRACTOR.

| VENTILATION AIR SCHEDULE | | | | | | | | | | | | | | | | |
|--------------------------|------------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | TABLE 6.2.2.2 Ez AIR DISTRIBUTION EFFICIENCY | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 0 | OPEN OFFICE | 6,053 | OFFICE SPACE | 5 | 31 | 5 | 0.06 | 363.18 | 518 | 0.8 | 648 | 7100 | 9% | 19% | 1349 | |
| 126 | OFFICE | 100 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6 | 11 | 0.8 | 14 | 150 | 9% | 19% | 29 | |
| 127 | OFFICE | 100 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6 | 11 | 0.8 | 14 | 150 | 9% | 19% | 29 | |
| 128 | OFFICE | 100 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6 | 11 | 0.8 | 14 | 150 | 9% | 19% | 29 | |
| 129 | HUDDLE | 123 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 7.38 | 27 | 0.8 | 35 | 200 | 18% | 19% | 38 | |
| 130 | PHONE | 75 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.5 | 10 | 0.8 | 12 | 75 | 16% | 19% | 14 | |
| 131 | CONFERENCE | 267 | CONFERENCE/MEETING | 50 | 14 | 5 | 0.06 | 16.02 | 86 | 0.8 | 108 | 600 | 18% | 19% | 114 | |
| 132 | PHONE | 75 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.5 | 10 | 0.8 | 12 | 75 | 16% | 19% | 14 | |
| 133 | HUDDLE | 120 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 7.2 | 27 | 0.8 | 34 | 250 | 14% | 19% | 48 | |
| 134 | OFFICE | 100 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6 | 11 | 0.8 | 14 | 125 | 11% | 19% | 24 | |
| 135 | OFFICE | 100 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6 | 11 | 0.8 | 14 | 125 | 11% | 19% | 24 | |
| 136 | OFFICE | 115 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 6.9 | 12 | 0.8 | 15 | 125 | 12% | 19% | 24 | |
| 137 | STORAGE | 250 | STORAGE ROOMS | 0 | 0 | 0 | 0.12 | 30 | 30 | 0.8 | 38 | 200 | 19% | 19% | 38 | |
| 140 | COFFEE | 269 | COFFEE STATIONS | 20 | 4 | 5 | 0.06 | 16.14 | 36 | 0.8 | 46 | 300 | 15% | 19% | 57 | |
| 145 | FACTORY TRAINING | 860 | CONFERENCE/MEETING | 50 | 24 | 5 | 0.06 | 51.6 | 172 | 0.8 | 215 | 1200 | 18% | 19% | 228 | |
| TOTALS | | 8,707 | | | 89 | | | | 982 | | 1,233 | 10,825 | | | 2,057 | |

OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3

Vbz = BREATHING ZONE OUTDOOR AIR FLOW
 Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1)
 Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1)
 Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1)
 Az = ZONE FLOOR AREA

Voz = ZONE OUTDOOR AIR FLOW
 Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED)
 Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2)
 Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN)
 Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN)

** TRANSFER AIR IS PERMITTED TO PROVIDE MAKE-UP AIR TO KITCHENS, BATHS, TOILET ROOMS, ELEVATORS, AND SMOKING LOUNGES. THE AMOUNT OF TRANSFER AIR AND EXHAUST AIR SHALL BE SUFFICIENT TO PROVIDE FLOW RATES AS SPECIFIED IN TABLE 403.3. DOORS SHALL BE UNDERCUT 1" OR DOOR GRILLES OF SUFFICIENT SIZE SHALL BE PROVIDED BY GENERAL CONTRACTOR.

DATE: 5-9-25
 DATE: 8-11-25
 DATE: 5-9-25

ISSUE/REVISION: CKB
 ISSUED FOR PERMIT
 FINAL FOR CONSTRUCTION

ISSUE/REVISION: CKB

STATE OF OHIO
 WILLIAM JOHNS
 ALBERT EBERSON
 5-9-25

NOTICE: CONSULT THE ORIGINAL WITH CONTRACTOR FOR ALL REVISIONS. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION AND THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

ESTD 1951
PERFECTION GROUP

VENTILATION SCHEDULES
 HVAC RENOVATIONS FOR:
 FL1B - ENERGIZE TI SCHNEIDER ELECTRIC
 8210 SEWARD ROAD
 FAIRFIELD, OHIO 45011

JOB NO.: 25025
 SCALE: AS NOTED
 DATE: 4-25-25
 DRAWN BY: CKB
 APPROVED BY: CSL
 DRAWING NUMBER:
M-13
 REVISION NO.: 1

| VENTILATION AIR SCHEDULE | | | | | | | | | | | | | | | | |
|--------------------------|-------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | TABLE 6.2.2.2 Ez AIR DISTRIBUTION EFFICIENCY | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 0 | OPEN OFFICE | 6,700 | OFFICE SPACE | 5 | 34 | 5 | 0.06 | 402 | 572 | 0.8 | 715 | 8950 | 8% | 18% | 1566 | |
| 141 | OFFICE | 97 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.82 | 11 | 0.8 | 14 | 125 | 11% | 18% | 22 | |
| 142 | OFFICE | 97 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.82 | 11 | 0.8 | 14 | 125 | 11% | 18% | 22 | |
| 143 | HUDDLE | 123 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 7.38 | 27 | 0.8 | 35 | 200 | 18% | 18% | 35 | |
| 144 | PHONE | 75 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.5 | 10 | 0.8 | 12 | 75 | 16% | 18% | 13 | |
| 146 | OFFICE | 97 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.82 | 11 | 0.8 | 14 | 125 | 11% | 18% | 22 | |
| 147 | HUDDLE | 123 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 7.38 | 27 | 0.8 | 35 | 200 | 18% | 18% | 35 | |
| 148 | CONFERENCE | 268 | CONFERENCE/MEETING | 50 | 12 | 5 | 0.06 | 16.08 | 76 | 0.8 | 96 | 600 | 16% | 18% | 105 | |
| 149 | PHONE | 75 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.5 | 10 | 0.8 | 12 | 75 | 16% | 18% | 13 | |
| 150 | OFFICE | 97 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.82 | 11 | 0.8 | 14 | 125 | 11% | 18% | 22 | |
| 153 | HUDDLE | 123 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 7.38 | 27 | 0.8 | 35 | 200 | 18% | 18% | 35 | |
| 154 | OFFICE | 97 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.82 | 11 | 0.8 | 14 | 125 | 11% | 18% | 22 | |
| 155 | OFFICE | 97 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.82 | 11 | 0.8 | 14 | 125 | 11% | 18% | 22 | |
| 156 | HUDDLE | 123 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 7.38 | 27 | 0.8 | 35 | 200 | 18% | 18% | 35 | |
| 157 | PHONE | 75 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.5 | 10 | 0.8 | 12 | 75 | 16% | 18% | 13 | |
| 158 | HUDDLE | 123 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 7.38 | 27 | 0.8 | 35 | 200 | 18% | 18% | 35 | |
| 159 | OFFICE | 97 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.82 | 11 | 0.8 | 14 | 125 | 11% | 18% | 22 | |
| 160 | OFFICE | 97 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.82 | 11 | 0.8 | 14 | 125 | 11% | 18% | 22 | |
| 161 | HUDDLE | 123 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 7.38 | 27 | 0.8 | 35 | 200 | 18% | 18% | 35 | |
| TOTALS | | 8,707 | | | 81 | | | | 927 | | 1,169 | 11,975 | | | 2,096 | |

OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3

Vbz = BREATHING ZONE OUTDOOR AIR FLOW
Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1)
Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1)
Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1)
Az = ZONE FLOOR AREA

Voz = ZONE OUTDOOR AIR FLOW
Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED)
Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2)
Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN)
Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN)

** TRANSFER AIR IS PERMITTED TO PROVIDE MAKE-UP AIR TO KITCHENS, BATHS, TOILET ROOMS, ELEVATORS, AND SMOKING LOUNGES. THE AMOUNT OF TRANSFER AIR AND EXHAUST AIR SHALL BE SUFFICIENT TO PROVIDE FLOW RATES AS SPECIFIED IN TABLE 403.3. DOORS SHALL BE UNDERCUT 1", OR DOOR GRILLES OF SUFFICIENT SIZE SHALL BE PROVIDED BY GENERAL CONTRACTOR.

| VENTILATION AIR SCHEDULE | | | | | | | | | | | | | | | | |
|--------------------------|-------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | TABLE 6.2.2.2 Ez AIR DISTRIBUTION EFFICIENCY | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 0 | OPEN OFFICE | 4,775 | OFFICE SPACE | 5 | 24 | 5 | 0.06 | 286.5 | 407 | 0.8 | 509 | 4750 | 11% | 20% | 950 | |
| 167 | CONFERENCE | 369 | CONFERENCE/MEETING | 50 | 12 | 5 | 0.06 | 22.14 | 82 | 0.8 | 103 | 750 | 14% | 20% | 150 | |
| 170 | RECEPTION | 517 | RECEPTION AREA | 30 | 16 | 5 | 0.06 | 31.02 | 111 | 0.8 | 139 | 1100 | 13% | 20% | 220 | |
| 171 | VESTIBULE | 115 | MAIN ENTRY LOBBIES | 10 | 2 | 5 | 0.06 | 6.9 | 17 | 0.8 | 22 | 250 | 9% | 20% | 50 | |
| 172 | CONFERENCE | 293 | CONFERENCE/MEETING | 50 | 12 | 5 | 0.06 | 17.58 | 78 | 0.8 | 97 | 700 | 14% | 20% | 140 | |
| 174 | CONFERENCE | 378 | CONFERENCE/MEETING | 50 | 12 | 5 | 0.06 | 22.68 | 83 | 0.8 | 104 | 800 | 17% | 20% | 120 | |
| 175 | STORAGE | 125 | STORAGE ROOMS | 0 | 0 | 0 | 0.12 | 15 | 15 | 0.8 | 19 | 100 | 19% | 20% | 20 | |
| 176 | OFFICE | 95 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.7 | 11 | 0.8 | 14 | 125 | 11% | 20% | 25 | |
| 177 | OFFICE | 95 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.7 | 11 | 0.8 | 14 | 125 | 11% | 20% | 25 | |
| 178 | HUDDLE | 90 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 5.4 | 25 | 0.8 | 32 | 200 | 16% | 20% | 40 | |
| 179 | OFFICE | 90 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.4 | 10 | 0.8 | 13 | 175 | 7% | 20% | 35 | |
| 180 | HUDDLE | 116 | CONFERENCE/MEETING | 50 | 4 | 5 | 0.06 | 6.96 | 27 | 0.8 | 34 | 200 | 17% | 20% | 40 | |
| 181 | OFFICE | 98 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 5.88 | 11 | 0.8 | 14 | 175 | 8% | 20% | 35 | |
| 182 | PHONE | 67 | OFFICE SPACE | 5 | 1 | 5 | 0.06 | 4.02 | 9 | 0.8 | 12 | 175 | 7% | 20% | 35 | |
| TOTALS | | 7,223 | | | 91 | | | | 896 | | 1,126 | 9,425 | | | 1,885 | |

OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3

Vbz = BREATHING ZONE OUTDOOR AIR FLOW
Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1)
Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1)
Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1)
Az = ZONE FLOOR AREA

Voz = ZONE OUTDOOR AIR FLOW
Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED)
Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2)
Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN)
Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN)

** TRANSFER AIR IS PERMITTED TO PROVIDE MAKE-UP AIR TO KITCHENS, BATHS, TOILET ROOMS, ELEVATORS, AND SMOKING LOUNGES. THE AMOUNT OF TRANSFER AIR AND EXHAUST AIR SHALL BE SUFFICIENT TO PROVIDE FLOW RATES AS SPECIFIED IN TABLE 403.3. DOORS SHALL BE UNDERCUT 1", OR DOOR GRILLES OF SUFFICIENT SIZE SHALL BE PROVIDED BY GENERAL CONTRACTOR.

| VENTILATION AIR SCHEDULE | | | | | | | | | | | | | | | | |
|--------------------------|---------------|---------|--------------------------|---|---------------|-------------------------------------|-----------------------------------|--|---------------------|--|--------------------------|------------|------------------------|----------------------|------------------------|-------|
| ROOM NUMBER | ROOM NAME | Az AREA | OCCUPANCY CLASSIFICATION | TABLE 6.2.2.1 OCCUPANT DENSITY PEOPLE/1000 SF | Pz POPULATION | TABLE 6.2.2.1 Rp PEOPLE OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR | TABLE 6.2.2.1 Ra AREA OUTSIDE AIR CALC | Vbz OUTSIDE AIR CFM | TABLE 6.2.2.2 Ez AIR DISTRIBUTION EFFICIENCY | Voz OUTSIDE AIR REQUIRED | DESIGN CFM | OUTSIDE AIR % REQUIRED | SYSTEM % OUTSIDE AIR | ACTUAL OUTSIDE AIR CFM | NOTES |
| 0 | TRAINING ROOM | 1,300 | CONFERENCE/MEETING | 50 | 40 | 5 | 0.06 | 78 | 278 | 0.8 | 348 | 2,000 | 17% | 20% | 400 | |
| TOTALS | | 1,300 | | | 40 | | | | 278 | | 348 | 2,000 | | | 400 | |


OUTSIDE VENTILATION AIR DESIGN PER ASHRAE STANDARD 62.1-2016 IN ACCORDANCE WITH OMC SECTION 403.3 AND IMC SECTION 403.3

Vbz = BREATHING ZONE OUTDOOR AIR FLOW
Rp = OUTDOOR AIR FLOW RATE PER PERSON (TABLE 6-1)
Pz = ZONE POPULATION - MAXIMUM OCCUPANCY (TABLE 6-1)
Ra = OUTDOOR AIR FLOW RATE PER UNIT AREA (TABLE 6-1)
Az = ZONE FLOOR AREA

Voz = ZONE OUTDOOR AIR FLOW
Vbz = BREATHING ZONE OUTDOOR AIR FLOW (CALCULATED)
Ez = ZONE AIR DISTRIBUTION EFFECTIVENESS (TABLE 6-2)
Ez = 0.80 (BASED ON CEILING SUPPLY, CEILING RETURN)
Ez = 1.0 (BASED ON CEILING SUPPLY, LOW RETURN)

** TRANSFER AIR IS PERMITTED TO PROVIDE MAKE-UP AIR TO KITCHENS, BATHS, TOILET ROOMS, ELEVATORS, AND SMOKING LOUNGES. THE AMOUNT OF TRANSFER AIR AND EXHAUST AIR SHALL BE SUFFICIENT TO PROVIDE FLOW RATES AS SPECIFIED IN TABLE 403.3. DOORS SHALL BE UNDERCUT 1", OR DOOR GRILLES OF SUFFICIENT SIZE SHALL BE PROVIDED BY GENERAL CONTRACTOR.

| | |
|------------------------|-----------------------------|
| DATE | ISSUE/REVISION |
| 5-9-25 | CKB |
| 7-1-25 | CKB |
| 8-11-25 | CKB |
| ISSUED FOR PERMIT | REVISED RTU-35/ADDED RTU-36 |
| FINAL FOR CONSTRUCTION | |



5-9-25

NOTE: CONSULT THE ORIGINAL CONTRACT DOCUMENTS FOR ALL NOTES, SPECIFICATIONS, AND SCHEDULES. THIS DRAWING IS TO BE USED IN CONJUNCTION WITH THE ORIGINAL CONTRACT DOCUMENTS. ANY CHANGES TO THIS DRAWING SHALL BE MADE BY A SEPARATE DRAWING OR BY A REVISION TO THIS DRAWING. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.

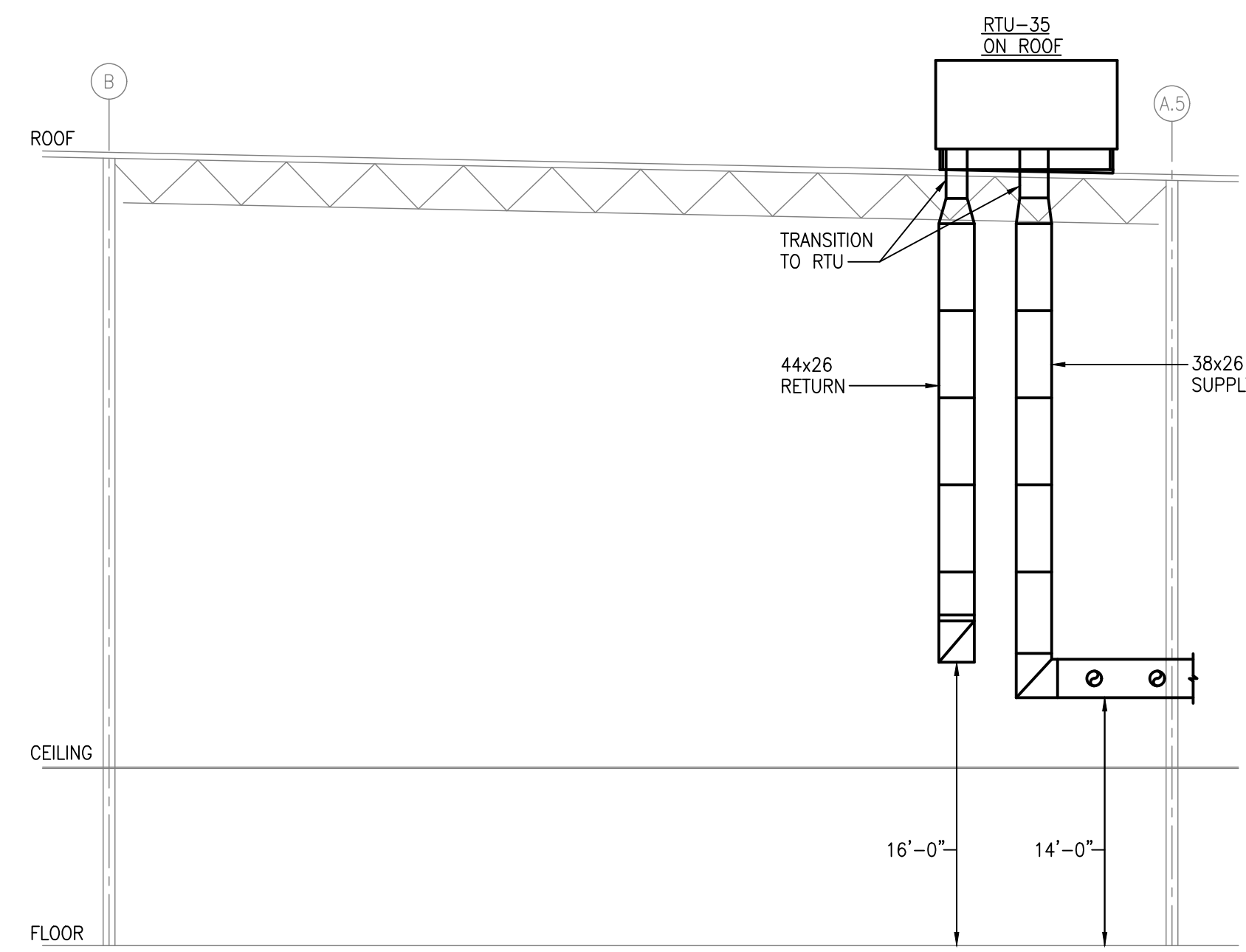
ESTD 1951

PERFECTION GROUP

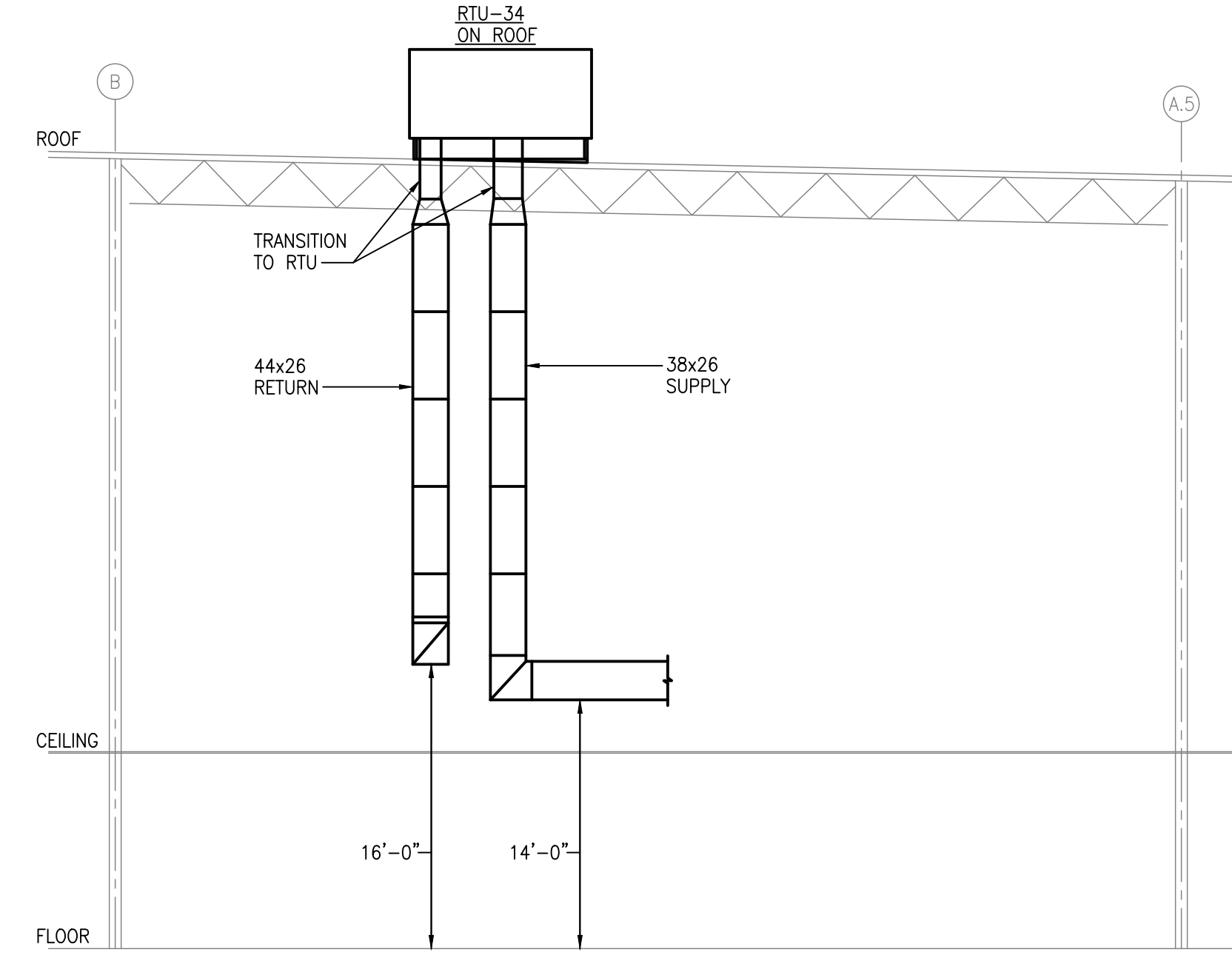
VENTILATION SCHEDULES

HVAC RENOVATIONS FOR:
ENERGIZE TI SCHNEIDER ELECTRIC
8210 SEWARD ROAD
FAIRFIELD, OHIO 45011

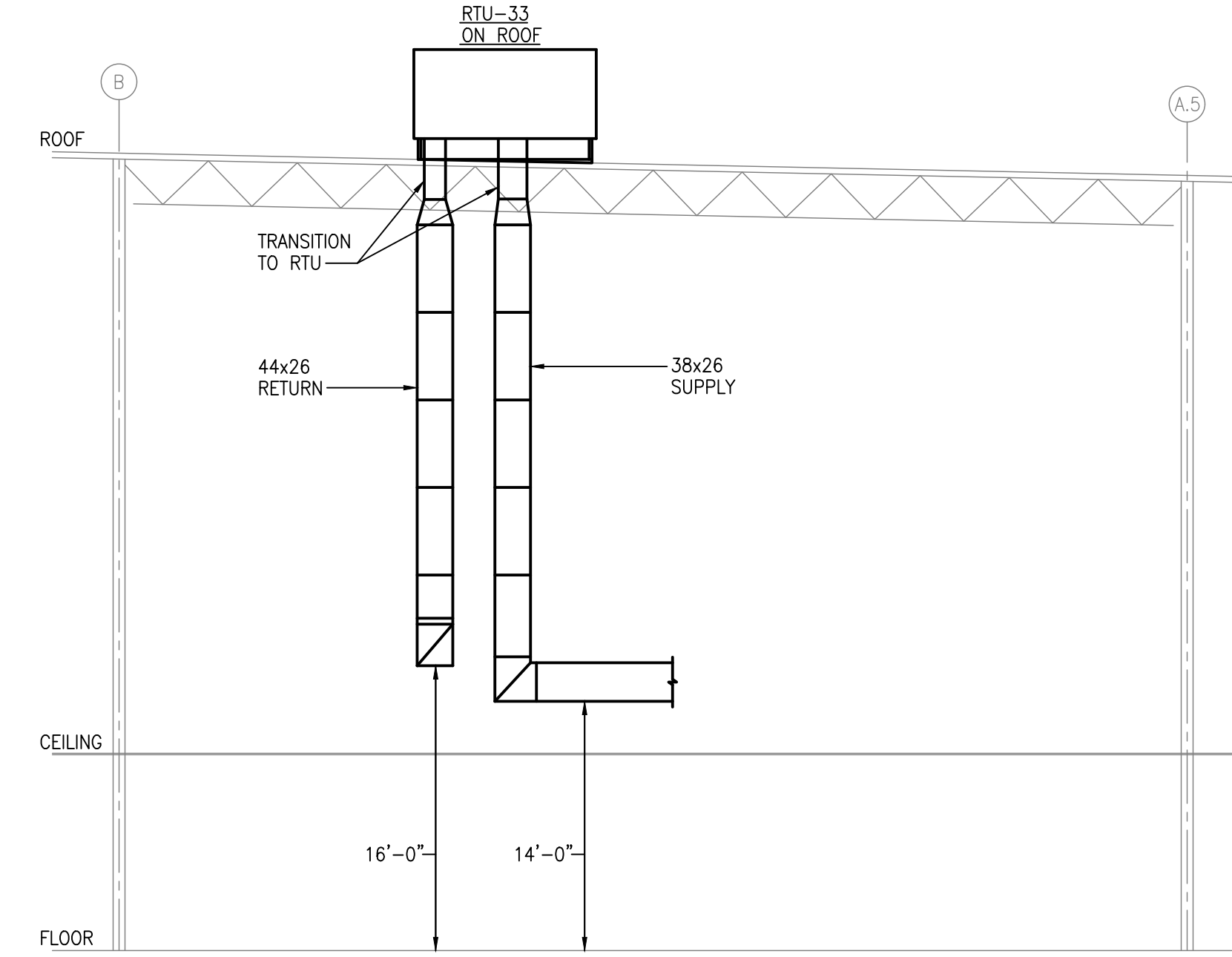
JOB NO.: 25025
SCALE: AS NOTED
DATE: 4-25-25
DRAWN BY: CKB
APPROVED BY: CSL
DRAWING NUMBER:
M-14
REVISION NO.: 2



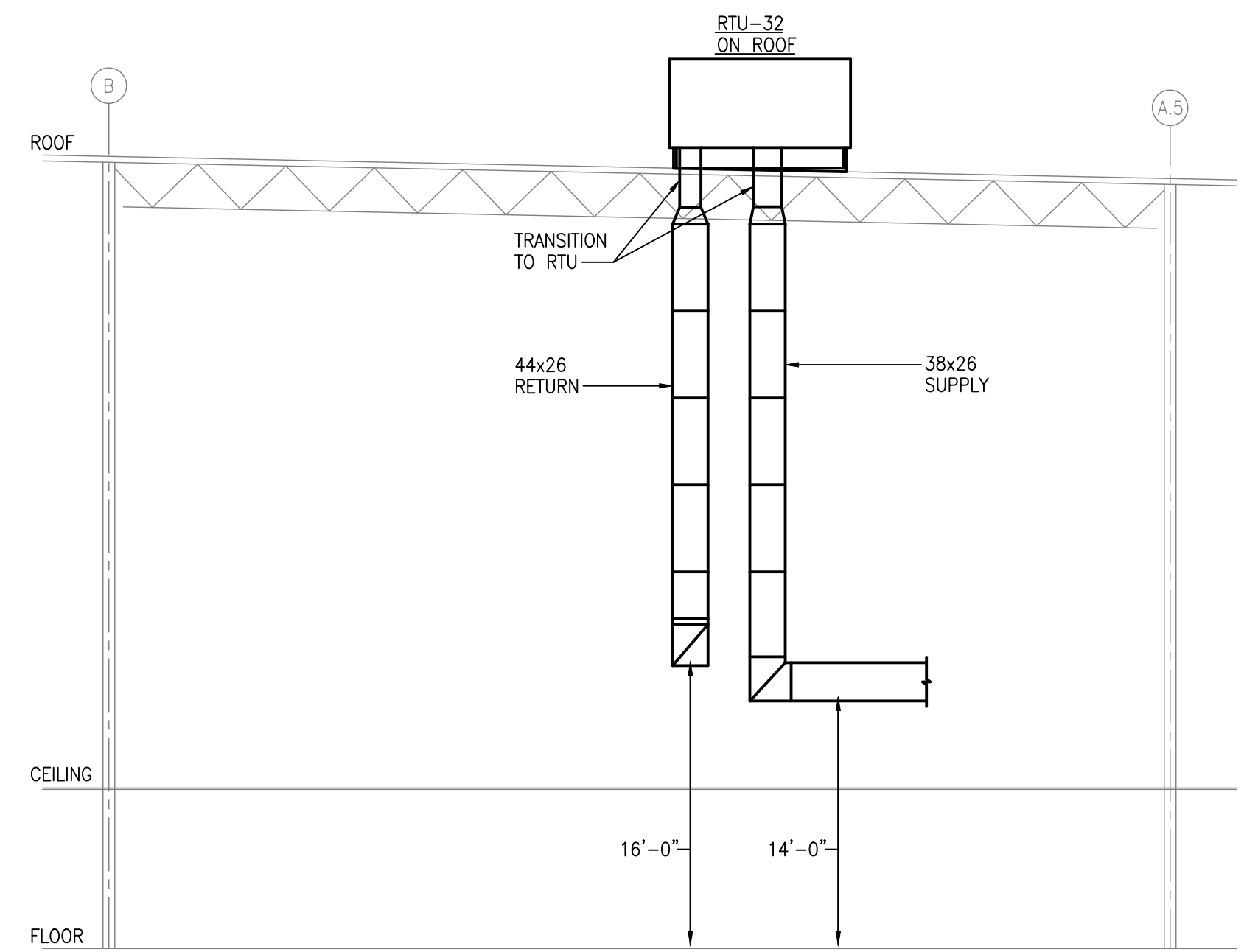
A RTU-35 ELEVATION
1/8"=1'-0"



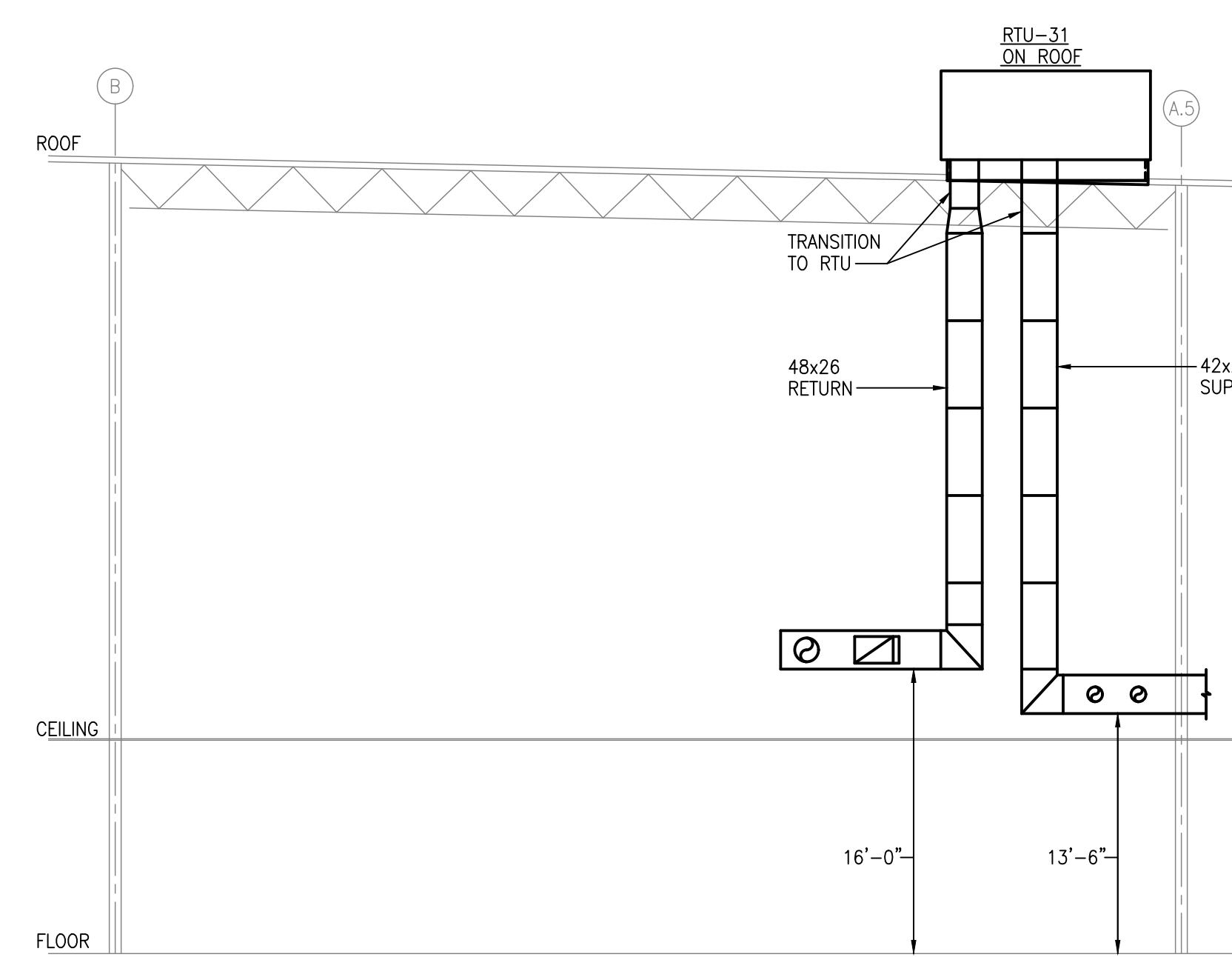
B RTU-34 ELEVATION
1/8"=1'-0"



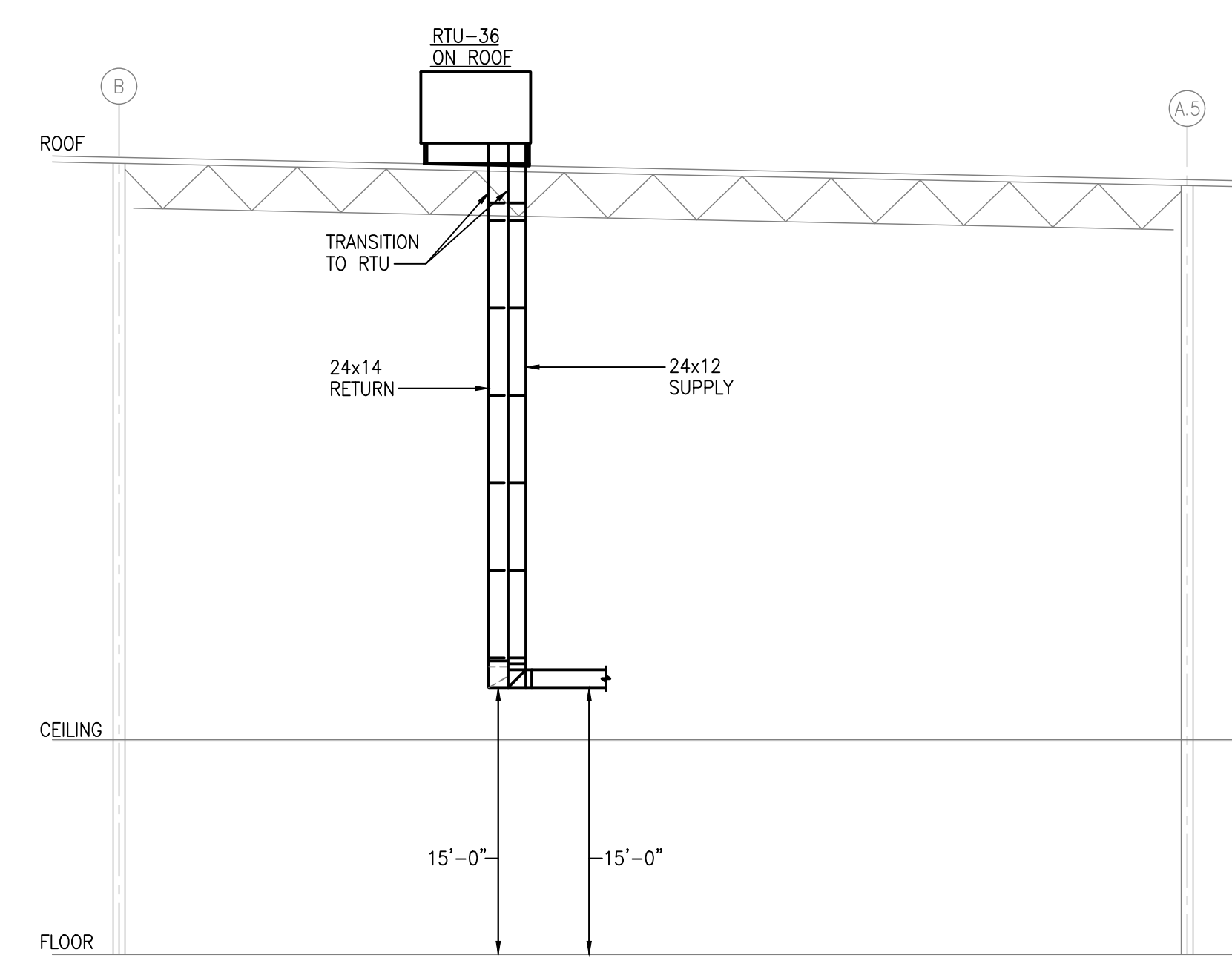
C RTU-33 ELEVATION
1/8"=1'-0"



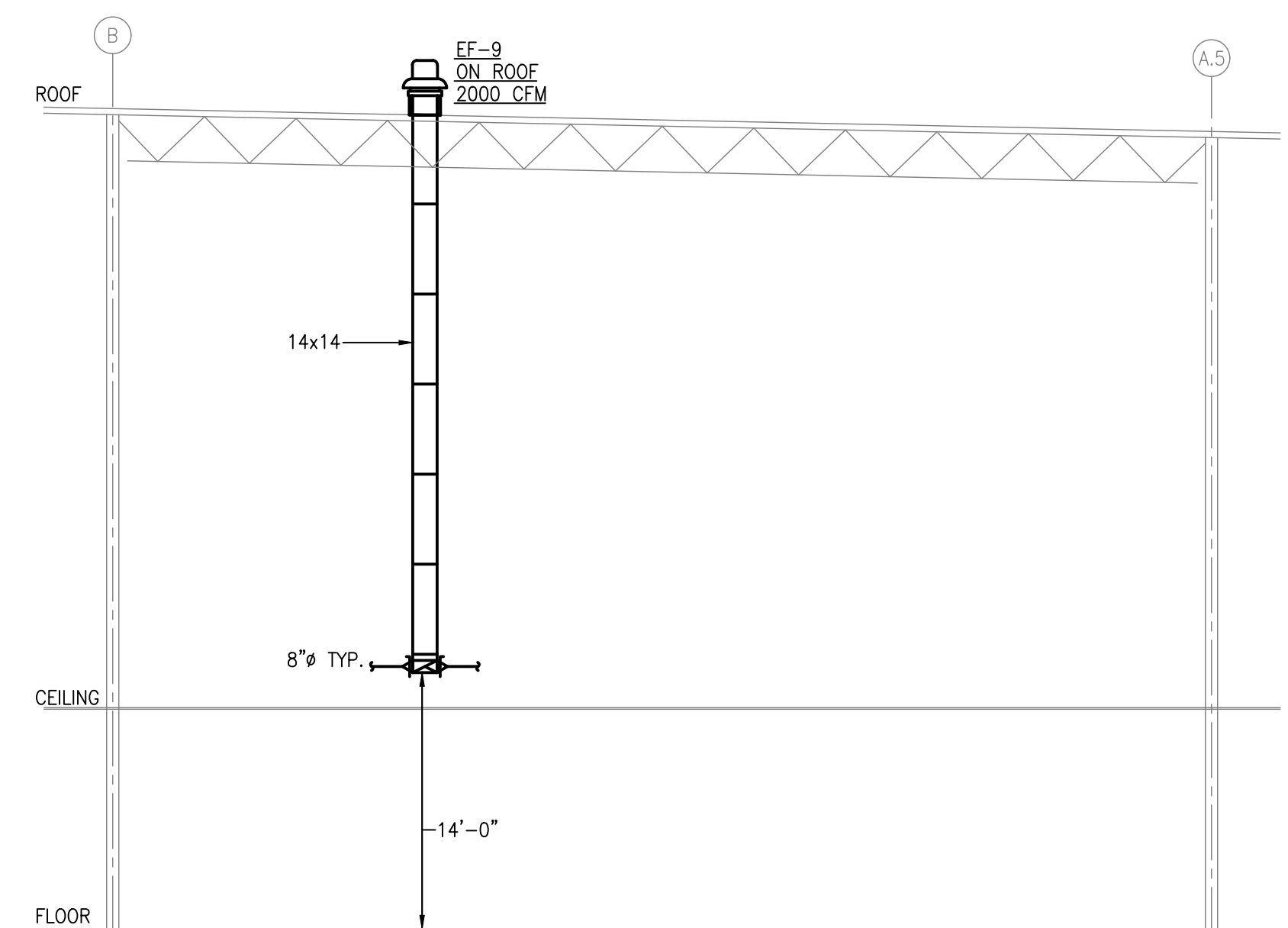
D RTU-32 ELEVATION
1/8"=1'-0"



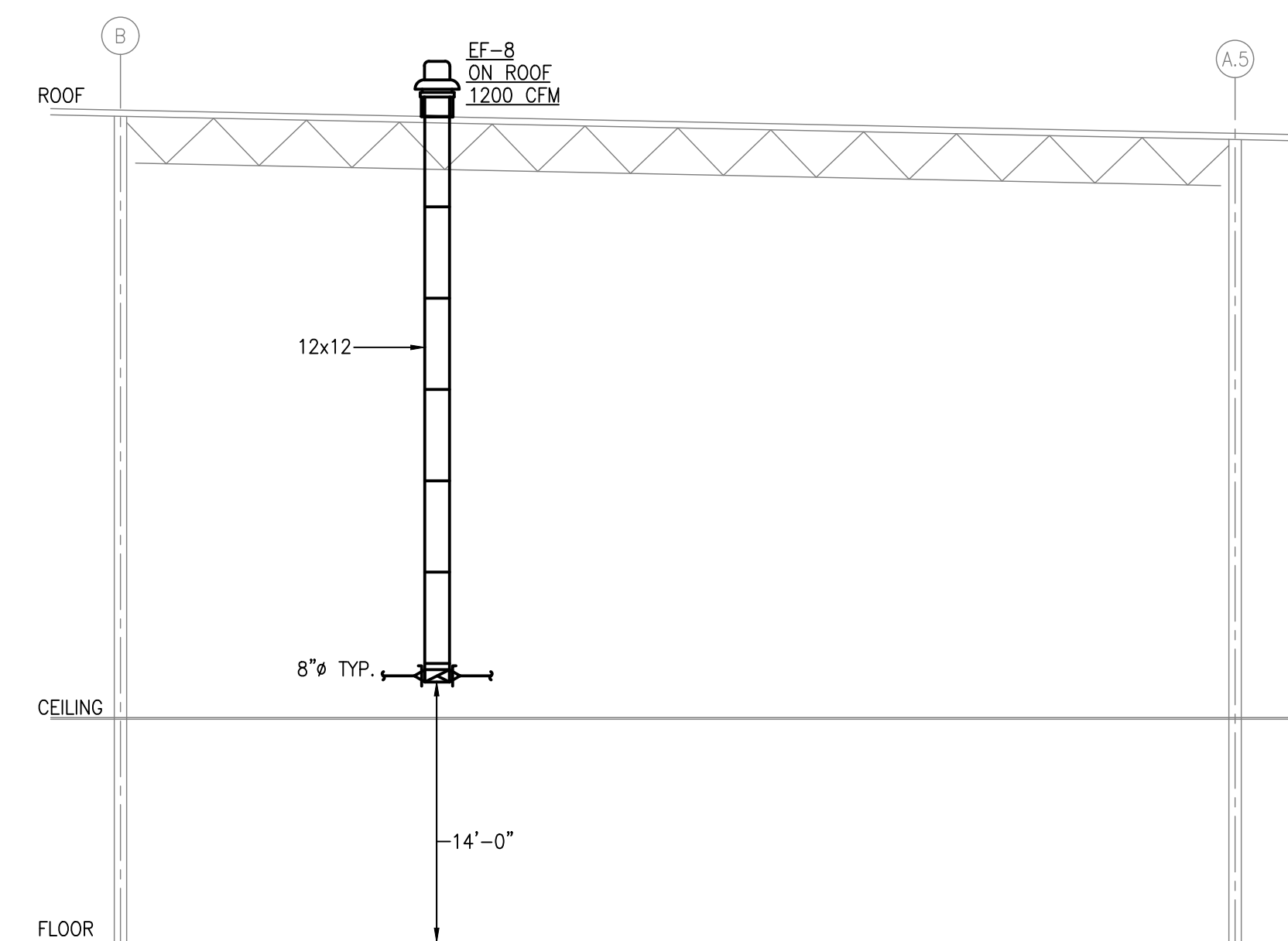
E RTU-31 ELEVATION
1/8"=1'-0"



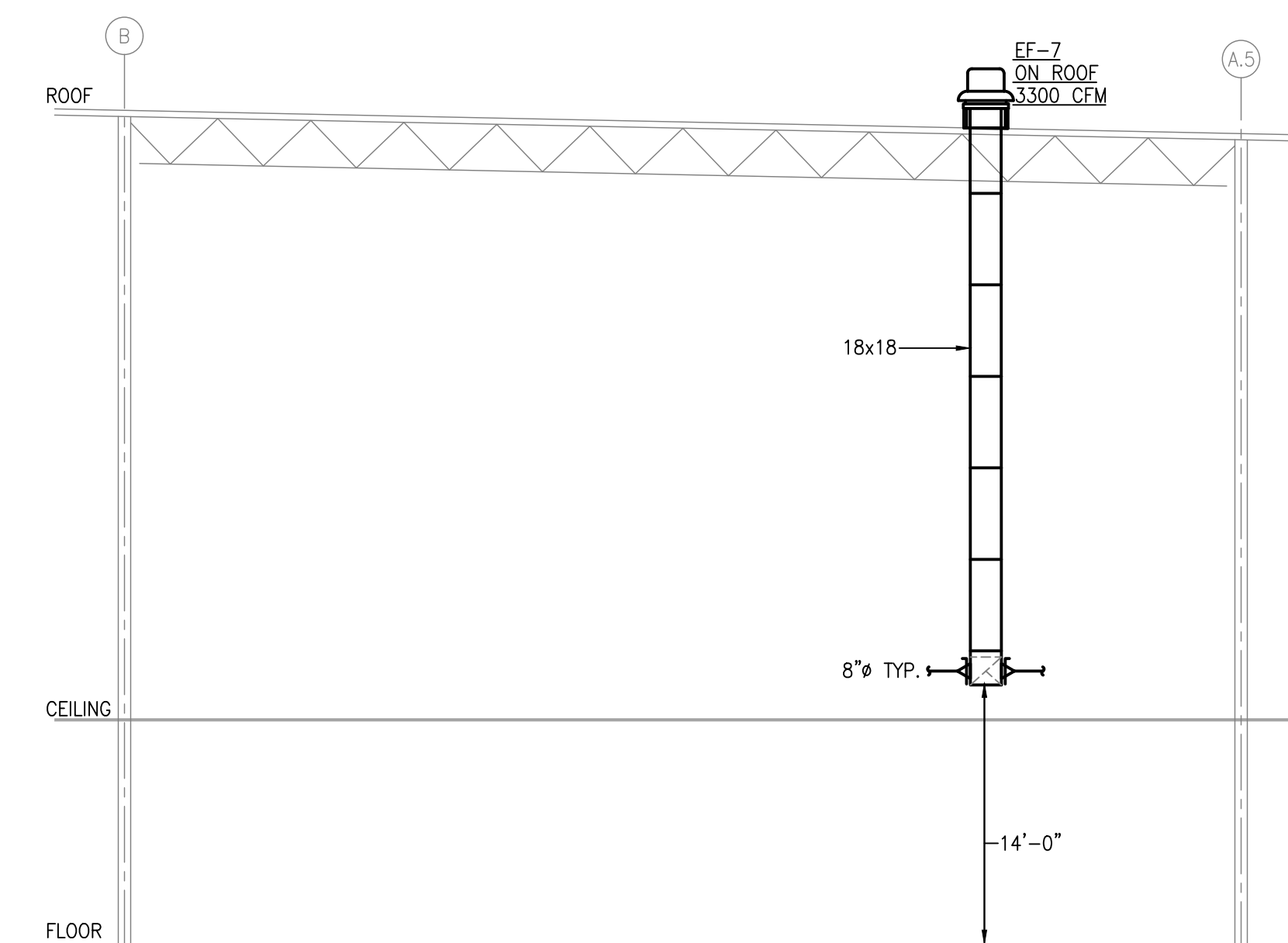
F RTU-36 ELEVATION
1/8"=1'-0"



G EF-9 ELEVATION
1/8"=1'-0"



H EF-8 ELEVATION
1/8"=1'-0"



I EF-7 ELEVATION
1/8"=1'-0"

| | |
|-------------------------|----------------|
| ISSUE/REVISION | ISSUE/REVISION |
| DATE | DATE |
| BY | BY |
| CKB | CKB |
| 8-4-25 | 8-4-25 |
| ISSUED FOR CONSTRUCTION | |

I hereby certify that I am a duly Licensed Professional Engineer in the State of Ohio, and that I am the author of the design and drawings herein, or that I am a duly Licensed Professional Engineer in the State of Ohio, and that I am the author of the design and drawings herein, or that I am a duly Licensed Professional Engineer in the State of Ohio, and that I am the author of the design and drawings herein.

ESTD 1951
PERFECTION GROUP

RTU ELEVATIONS
 HVAC RENOVATIONS FOR:
 FL1B - ENERGIZE TI SCHNEIDER ELECTRIC
 8210 SEWARD ROAD
 FAIRFIELD, OHIO 45011

JOB NO.: 25025
 SCALE: AS NOTED
 DATE: 8-4-25
 DRAWN BY: CKB
 APPROVED BY: CSL
 DRAWING NUMBER:
M-16
 REVISION NO.: 0

