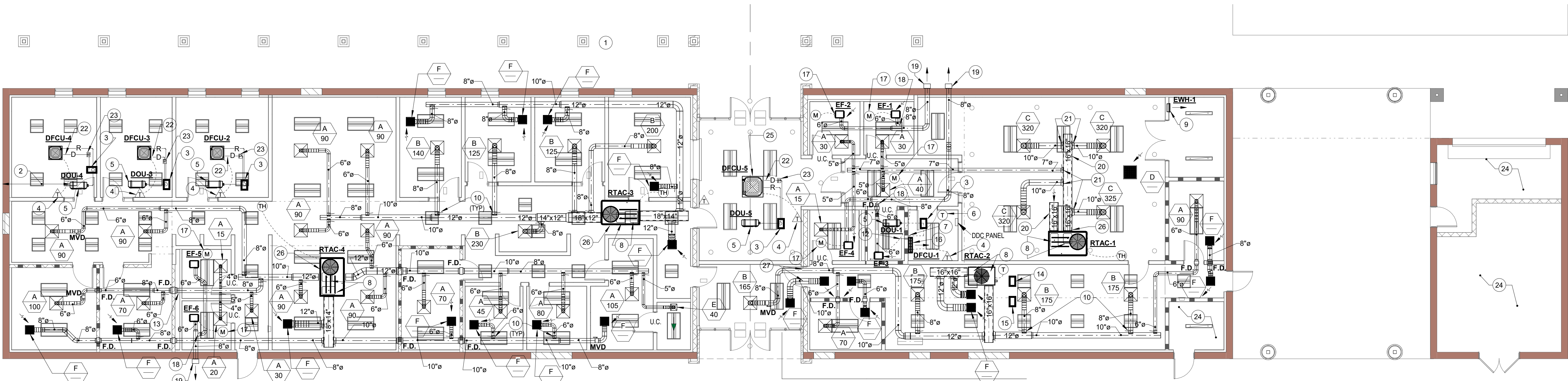


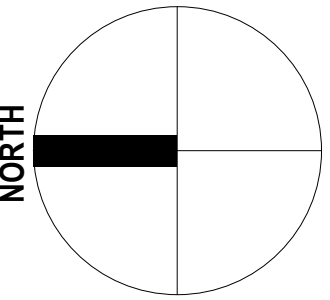


MECHANICAL NEW WORK FLOOR PLAN
1/8" = 1'-0"

GENERAL: CONTRACTOR IS CAUTIONED THAT SPACE ABOVE CEILING IS EXTREMELY LIMITED. APPROXIMATELY 17" CLEAR EXISTS BETWEEN THE BOTTOM OF BAR JOISTS AND TOP OF LIGHT FIXTURES IN AREAS WITH 9'-0" CEILINGS. (ALLOWING 1" MAXIMUM DUCT HEIGHT WITH 2" DUCT WRAP EACH SIDE). SUPPLY DUCT OCCUPIES MOST ALL SPACE BETWEEN THE BOTTOM OF STRUCTURE AND TOP OF LIGHTS. COORDINATE WITH PLUMBING AND ELECTRICAL TO ENSURE NO UTILITIES ARE ROUTED WHERE THE DUCT IS LOCATED. DUCT WILL NOT FIT IF UTILITIES ARE INSTALLED IN THE PLANE OF THE DUCT.

MECHANICAL NOTES: (THIS SHEET ONLY)

- GENERAL: PROVIDE SHEET METAL 90° ELBOW AT ALL CEILING GRILLES THAT ARE CONNECTED TO FLEX DUCT AS SHOWN IN CEILING GRILLE DUCT CONNECTION DETAIL.
- MAINTAIN MINIMUM 10'-0" FROM EDGE OF ROOF TO EQUIPMENT.
- PIPE BOX ASSEMBLY FOR REFRIGERANT PIPING, POWER CIRCUIT AND CONTROL CIRCUIT FOR DOU. SEE PIPE BOX ASSEMBLY DETAIL. COORDINATE EXACT PIPE BOX LOCATION WITH DOA TO MINIMIZE REFRIGERANT PIPING ABOVE ROOF AND NOT TO INTERFERE WITH DOU CLEARANCES.
- HARD WIRED LOW VOLTAGE THERMOSTAT CONTROLLER BY DFCU MANUFACTURER. MOUNT AT 4'-0" A.F.F.
- SEE DUCTLESS HP/COU SUPPORT RAIL DETAIL. SEE ALSO ELECTRICAL DISCONNECT SUPPORT RAIL DETAIL FOR EXTENDING RAIL 24" TO ACCOMMODATE ELECTRICAL DISCONNECT.
- DDC SPACE TEMPERATURE SENSOR FOR MONITORING INPUT AND ALARM FOR HIGH SPACE TEMPERATURE.
- REFRIGERANT PIPING RISES EXPOSED IN DATA ROOM AND PENETRATES CEILING AND IS ROUTED TO PIPE BOX ASSEMBLY.
- GENERAL: CAREFULLY COORDINATE DUCT DROPS/RTAC LOCATION WITH EXISTING BAR JOISTS/STRUCTURAL SUPPLY AND RETURN DUCTS SHALL DROP BETWEEN EXISTING JOISTS. FIELD VERIFY EXACT STRUCTURAL JOIST LOCATIONS.
- WALL HEATER LOCATION IS COORDINATED WITH PLUMBING TO NOT INTERFERE WITH WATER ENTRANCE RISER OR WATER HEATER.
- ALL BRANCH DUCT TAKEOFFS FROM ROUND DUCTS SHALL BE 90° SADDLE TAP TAKEOFF WITH DAMPER AND STAND OFF BRACKET. SEE 90° SADDLE TAP TAKEOFF FITTING DETAIL.
- GENERAL: ROUTE 1" TRAPPED PVC CONDENSATE DRAIN PIPE FROM RTAC TO NEAREST GUTTER. SEE CONDENSATE DRAIN TRAP DETAIL. SEE CONDENSATE PIPE SUPPORT ON ROOF DETAIL.
- ROUTE 1" INSULATED (ARMAFLEX) COPPER CONDENSATE DRAIN FROM DFCU CONNECTION THRU SLEEVED OPENING IN WALL THEN ROUTE PIPE HIGH AND ELBOW DOWN TO DISCHARGE INTO SERVICE SINK IN JANITOR'S CLOSET.
- COORDINATE DUCT ROUTING THRU PLUMBING CHASE WITH PLUMBING TO AVOID WATER PIPING AND VENT PIPING.
- PIPE BOX ASSEMBLY FOR POWER CIRCUIT AND CONTROL CIRCUIT FOR RTAC. SEE PIPE BOX ASSEMBLY DETAIL. COORDINATE EXACT PIPE BOX LOCATION WITH RTAC POWER ENTRY LOCATION AND NOT TO INTERFERE WITH RTAC ACCESS PANELS.
- EQUIPMENT SUPPORT RAIL FOR ELECTRICAL DISCONNECT. SEE ELECTRIC DISCONNECT SUPPORT RAIL DETAIL.
- MOUNT BOTTOM OF DFCU AT 6' 6" A.F.F. SEE WALL MOUNTED FCU DETAIL.
- FACTORY PROVIDED CONTRACTOR INSTALLED CEILING MOUNTED MOTION DETECTOR TO START EXHAUST FAN WHEN OCCUPANCY IS DETECTED. PROVIDE 5 MINUTE (ADJUSTABLE) TIME DELAY.
- PROVIDE 45° FITTING INTO EXHAUST DUCT TO PREVENT DISCHARGING EXHAUST AIR FROM ONE FAN INTO EXHAUST DUCT OF OTHER FAN IF OTHER FAN IS NOT OPERATING.
- 8" Ø EXHAUST DUCT TERMINATES AT ALUMINUM HEAVY GAUGE WALL CAP WITH 8" Ø CONNECTION, INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER. GREENHECK MODEL WC-8. MOUNT WITH BOTTOM OF WALL CAP AT APPROXIMATELY 8' 8" A.F.F. PROVIDE ETCHING PRIMER AND 2 COATS OF PAINT TO MATCH WALL COLOR. IN ACCORDANCE WITH ARCH PAINTING SPEC SECTION. COORDINATE EXACT LOCATION WITH DOWNSPOUT. AND WITH EXISTING CONCRETE BEAM. BOTTOM OF BEAM APPROX 10' 0" A.F.F.
- LINED (1" LINER) SUPPLY AND RETURN DUCT DROP FROM RTAC, AND IMMEDIATELY ELBOW BETWEEN BAR JOISTS. IN THIS AREA WITH 10' 0" CEILINGS, ONLY APPROXIMATELY 5" EXISTS BETWEEN B.E. OF JOISTS AND TOP OF LIGHT FIXTURES. DUCTWORK WILL NOT FIT BELOW JOISTS. ADJUST ELEVATION OF SUPPLY DUCT SO BRANCH DUCTS CAN PASS BETWEEN WEBBING.
- INSULATED (2" DUCT WRAP) BRANCH DUCT CONNECT TO SUPPLY WITH BELLMOUTH, AND IS ROUTED THRU WEBBING OF BAR JOISTS. BRANCH DUCTS WILL NOT FIT BELOW JOISTS. OFFSET LOCATION OF BRANCH DUCTS AS NECESSARY TO PASS THRU CLEAR SPACE IN WEBBING. REMOVE WEBBING MEMBERS AS REQUIRED TO ALLOW BRANCH DUCTS TO PASS, AND PROVIDE VERTICAL BRACING IN AREA WHERE CROSS BRACING WAS REMOVED. IN ACCORDANCE WITH STRUCTURAL CONTRACT DOCUMENTS.
- ROUTE LINE SIZED DRAIN PIPING FROM INTEGRAL CONDENSATE PUMP IN DFCU TO RESERVOIR OF FIELD MOUNTED ABOVE CEILING CONDENSATE PUMP CONNECTION. PUMP DISCHARGE DRAIN PIPING (FLEXIBLE VINYL TUBING TO 1/2" INSULATED SOFT COPPER) SHALL THEN BE STRAPPED TO REFRIGERANT PIPING AND ROUTED THRU PIPE BOX AND DISCHARGE ON ROOF. ONCE TUBING PENETRATES PIPE BOX, IT SHALL BE TURNED DOWN TO DISCHARGE 4" ABOVE ROOF LEVEL. POWER PUMP FROM DFCU PER MANUFACTURER'S INSTALLATION WIRING DIAGRAM.
- FIELD MOUNTED ABOVE CEILING CONDENSATE PUMP, BLUE DIAMOND MODEL X87 ATTACH PUMP TO WALL OR SUPPORT FROM STRUCTURE ABOVE WITH UNISTRUT. SEE NOTE 22 FOR ADDITIONAL INFO.
- NO HVAC WORK IN THIS ROOM.
- SPACE FROM 10 FOOT CEILING TO BAR JOISTS IS VERY LIMITED. IF UNIT HEIGHT EXCEEDS SPACE, SHIFT LOCATION OF DFCU IN CEILING AS REQUIRED TO PREVENT TOP OF UNIT FROM BEING DIRECTLY UNDER BAR JOISTS.
- NOTE CONCERNING DUCT CONNECTIONS TO RTAC UNITS: DUCTWORK LAYOUT CONNECTING TO RTAC UNITS WAS BASED ON TRANS AS BASIS OF DESIGN. BASIS OF DESIGN WAS CHANGED IN RTAC SCHEDULE TO CARRIER IMMEDIATELY PRIOR TO COMPLETION OF DRAWINGS, BUT DUCTWORK WAS NOT CHANGED TO REFLECT CONNECTIONS ON CARRIER UNITS. CONTRACTOR SHALL OFFSET/ALTER DUCT AS REQUIRED AND/OR ROTATE UNIT AS REQUIRED TO ALLOW DUCT CONNECTION TO SUBMITTED AND APPROVED MANUFACTURER'S DUCT CONNECTIONS.
- COORDINATE WITH STRUCTURAL FOR DUCT PENETRATION THRU SHEAR WALL.



CLIENT		
HENRY COUNTY SCHOOLS		
DATE	PROJECT NUMBER	
06 / 18 / 2026	250306	
DRAWING HISTORY		
No.	Description	Date
CHECKED BY: JDR		
DRAWN BY: JDR		