MECHANICAL NOTES

A. GENERAL
2. PVF & VALVE INFORMATION WILL BE SHOWN ON THE BIDDERS SECTIONS.
4. VARIOUS INSTRUMENTS AND RECORDS SHEETS SHALL BE ACCOMPANYING REPORTS FOR BUILDING MANAGEMENT.

B. EQUIPMENT

1. All equipment shall be labeled with equipment model number, type, manufacturer and size.
2. All equipment shall be installed in accordance with the manufacturer's instructions.
3. All equipment shall be connected to the proper service accessible for future maintenance.
4. All equipment shall be connected to the proper service accessible for future maintenance.
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C. ELECTRICAL

1. All electrical equipment shall be purchased and installed in accordance with the manufacturer's instructions.
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1) PROVIDE AUTOMATIC AIR VENTS AT ALL HIGH POINTS
2) PROVIDE 1.5" INSULATION FOR PIPING UP TO 1.5". PROVIDE 2" INSULATION FOR PIPES 2" AND UP.
3) PROVIDE AUTOFLOW LIMITING VALVES FOR EACH PIECE OF EQUIPMENT INCLUDING FIN TUBE RADIATORS.
4) PROVIDE 2-WAY VALVES FOR ALL HOT WATER CABINET UNIT HEATERS AND HOT WATER COILS.
5) PROVIDE MANUAL BALANCING VALVE ON EACH BRANCH SET TO VALUE SHOWN ON THIS PLAN.
HVAC NOTES:

1. ALL DUCT SPLITS AND TAKE-OFFS SHALL BE PROVIDED WITH VOLUME DAMPERS. PROVIDE CABLE-OPERATED VOLUME DAMPERS FOR ALL DAMPERS ABOVE INACCESSIBLE CEILINGS. VOLUME DAMPERS IN BRANCH DUCTS SHALL BE LOCATED AS FAR AS POSSIBLE FROM AIR OUTLET OR INLET IN ORDER TO REDUCE NOISE AND TURBULENCE AT AIR OUTLETS.

2. KEEP ALL DUCTWORK TIGHT TO UNDERSIDE OF TYPICAL BEAMS EXCEPT AS NECESSARY. CROSS DUCTWORK BETWEEN BEAMS WHEREVER POSSIBLE, AND AVOID CROSSING DUCTWORK ABOVE RECESSED LIGHT FIXTURES TO PROVIDE MAXIMUM CLEARANCES. RUN DUCTWORK THROUGH EXISTING BEAM CUTS WHERE POSSIBLE TO ACHIEVE MAXIMUM CEILING CLEARANCE. KEEP DUCTWORK AS HIGH AS POSSIBLE TO MAXIMIZE CEILING HEIGHTS.

3. PROVIDE 1" ACOUSTICAL LINING FOR THE FIRST 15' UPSTREAM & DOWNSTREAM OF AC UNITS & 10' UPSTREAM & DOWNSTREAM OF FANS. ALL DUCTWORK ABOVE CONFERENCE ROOMS, HUDDLE ROOMS, AND CORNER OFFICES SHALL HAVE 1" ACOUSTICAL LINING. ALL EXPOSED DUCTWORK SHALL HAVE 1" ACOUSTICAL LINING. ALL TRANSFER DUCTWORK SHALL HAVE 1" ACOUSTICAL LINING.

4. CONNECT ALL OUTSIDE AIR DUCTWORK DIRECTLY TO AIR HANDLER RETURN PLENUM. PROVIDE 1" INSULATION FOR ALL OUTSIDE AIR DUCTWORK AND PLENUMS.

5. GC TO PROVIDE ACCESS DOORS AS REQUIRED FOR ALL EQUIPMENT REQUIRING ACCESS ABOVE INACCESSIBLE CEILINGS, INCLUDING BUT NOT LIMITED TO: FANS, AC UNITS AND DAMPERS. FINAL LOCATION TO BE FIELD COORDINATED AND APPROVED BY THE BUILDING ENGINEER AND ARCHITECT.

6. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION OF DUCTWORK.

7. THERMOSTAT LOCATION SHALL BE COORDINATED WITH SWITCH LOCATIONS. FINAL THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECT.

8. REMOVE SHOP STICKERS FROM EXPOSED DUCTWORK. FINISH ON DUCTWORK SHALL BE DETERMINED BY THE ARCHITECT.

9. REFER TO BRANCH DUCT SCHEDULE ON M-100.00 FOR ALL DUCTWORK NOT SIZED ON PLAN.
MECHANICAL PLAN

NOTE:
1. ALL ITEMS SHOWN ON THIS SHEET SHALL BE PROVIDED WITH SOLID COPPER PIPE, PIPE SIZE APPROXIMATING THE SIZE SHOWN ON SHEET. USE PIPE FITTINGS COINCIDENT WITH applied. PIPE SIZE SHOWN ON SHEET IS APPROXIMATE. NON-CONSUMABLE MATERIALS SUCH AS SUGAR, SALT, OR SODA SHALL BE PROVIDED. CHECK WITH MANUFACTURER FOR SUGGESTIONS ON PIPE SIZE.
2. DEPTH OF LEADWORK TO BE TO MINIMUM OF 1/4". BREADED LEADWORK SHALL BE CHECKED WITH MANUFACTURER FOR ACCEPTABLE DEPTHS. IMPACT REDUCTION BETWEEN WALLS SHALL BE PROGRESSIVE TO MEET MAXIMUM AS PER APPROPRIATE CODES. ACCURACY OF DRAWING WITH REGARD TO WALL MOUNTING IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL MANUFACTURER'S SPECIFICATIONS SHALL BE IN ACCORDANCE WITH APPROPRIATE CODES.

FOR FINTUBE RADIATOR WITH CONTINUOUS COVER

CHECKED BY

FINTUBE RADIATOR WITH CONTINUOUS COVER

PROVIDE CLOSET W/ AT LEAST 30" DOOR
MD TO BE ON TIME CLOCK. BALANCE FOR 285 CFM DRAIN PAN WITH LEAK DETECTOR, ON 24" STAND. 4 SQ/ FT DOOR LOUVER, SPK DETECTOR, PROVIDE CLOSET W/ AT LEAST 30" DOOR, CONTINUOUS COVER (TYP).

AHCU-1-4

AHU-C-2, PROVIDE 30X30 ACCESS DOOR DIRECTLY BELOW FAN TX-2, PROVIDE 30X30 ACCESS IN BASEMENT FROM SECOND FLOOR ABOVE.

PROVIDE FD AT FIRST FLOOR 20X12, PROVIDE 32X10 TRANSFER GRILLE TO PROVIDE 32X10 TRANSFER GRILLE FOR DUCTWORK (100) 16X6 GRILLE (200)

DETAILED SUBMISSION:

1. PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION OF DUCTWORK.
2. CONTRACTOR TO PROVIDE FIRE DAMPERS IN ALL DUCTWORK CROSSING THROUGH FIRE-RATED PARTITIONS AS SHOWN REFERENCE TO TOP REGISTER SCHEDULE ON M-100.00 FOR MANUFACTURER, MODEL AND SIZES.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION OF DUCTWORK.
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1. All equipment located in basement including, but not limited to air handling units, boilers, and water heaters to be placed on 24" platforms. Refer to architectural drawings for housekeeping pad requirements.

2. Coordinate all pipe runs with new ductwork and other equipment. Offset piping vertically in the field as needed to avoid conflicts.

3. Provide 1/2" insulation for all condensate piping. Provide condensate pump if proper pitch cannot be established.

4. Boilers to be valved per details on drawing M-201.

5. Refer to mechanical hydronic riser diagram/sheet M-300 for all pipe sizes not shown on plans.

6. Contractor to coordinate water heater and boiler flue routing and materials with manufacturer's requirements. Verify exact routing with existing conditions in field.

NOTES:

KEY NOTES:

BOILER (B-1, 2) AND WATER HEATER (WH-1, 2) TO SHARE EXISTING COMMON COMBUSTION AIR INTAKE LOUVER PREVIOUSLY INSTALLED IN BASEMENT. CONTRACTOR TO ENSURE UNITS ARE PROVIDED WITH ALL REQUIRED ACCESSORIES FOR SHARING COMMON COMBUSTION AIR SYSTEMS. EXHAUST FLUES TO BE ROUTED TO THE ROOF AS SHOWN ON PLANS. COORDINATE WITH MANUFACTURERS REQUIREMENTS FOR REQUIRED FLUES MATERIAL.
ATTIC ACCESS HATCH REFER TO ARCH DWGS FOR EXACT DIMENSIONS

MUA-2
MUA-1
UH-A-1
AHU-3-4
AHU-3-2
AHU-3-3
AHU-3-1
OAF-A-1

4" B-1,2 FLUE DN, INNO FLUE POLYPROPYLENE (TYP. FOR 2)
6" WH-1,2 FLUE DN (TYP. FOR 2)

FLUES TO DISCHARGE ABOVE ROOF. (TYP. 4)

CONTRACTOR TO OFFSET FLUE PIPING AND ROUTE TO ROOF ABOVE

NOTES:
1. COORDINATE ALL PIPE RUNS WITH NEW DUCTWORK AND OTHER EQUIPMENT. OFFSET PIPING VERTICALLY IN THE FIELD AS NEEDED TO AVOID CONFLICTS.
2. PROVIDE 1/2" INSULATION FOR ALL CONDENSATE PIPING. PROVIDE CONDENSATE PUMP IF PROPER PITCH CANNOT BE ESTABLISHED.
3. ALL NEW AHUs & MUAs IN THE ATTIC TO BE FLOOR-MOUNTED AND PROVIDED WITH VIBRATION ISOLATION. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR STRUCTURAL REVIEW PRIOR TO NEW UNIT PLACEMENT.

PROVIDE AHU-3-2 WITH CONDENSATE PUMP AND DRAIN PAN WITH LEAK DETECTOR.
PROVIDE AHU-3-3 WITH CONDENSATE PUMP AND DRAIN PAN WITH LEAK DETECTOR.
PROVIDE AHU-3-4 WITH CONDENSATE PUMP AND DRAIN PAN WITH LEAK DETECTOR.
PROVIDE AHU-3-1 WITH CONDENSATE PUMP AND DRAIN PAN WITH LEAK DETECTOR.

1" CPD
1" CPD
1-1/4" CPD
1-1/4" CPD
1-1/4" CPD

TO DISCHARGE TO ROOF OUTSIDE. CONTRACTOR TO FIELD VERIFY EXACT PIPE ROUTING.
When temperature in pump house goes below 40°F, thermostat to give signal to start unit heaters to maintain temperature of 40°F. (Typ. 2)

When temperature in pump house goes above 80°F, thermostat to give signal to open both MD's and start supply fans. (Typ. 2)