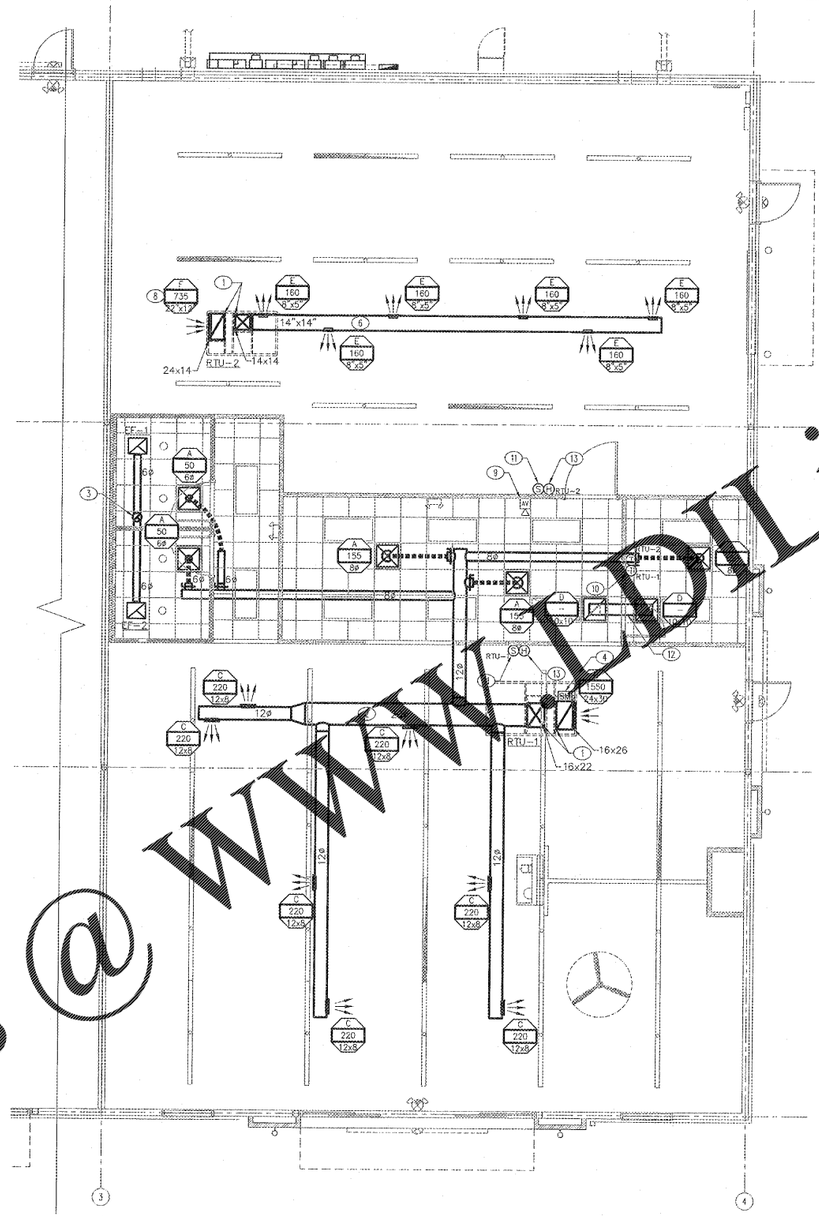

1 M121 **MECHANICAL CEILING PLAN**
SCALE: 3/16" = 1'-0"

MECHANICAL LEGEND

- SUPPLY DIFFUSER (DIFFUSER SHOWN IS A THREE-WAY WITH ONE SIDE BLOCKED)
- RETURN AIR GRILLE
- EXHAUST GRILLE
- TURNING VANES
- EXHAUST RISER
- MOTORIZED DAMPER
- BRANCH DUCT, TWIST-LOK, & ELBOW (ROUND) WITH VOLUME DAMPER
- BRANCH DUCT, TAKE-OFF, (RECT.) WITH VOLUME DAMPER
- FIRE EXTINGUISHER
- THERMOSTAT
- SUPPLY AIR DUCT DOWN/UP
- RIGID DUCTWORK
- DUCT TRANSITION
- TAP IN BRANCH DUCT WITH VOLUME DAMPER FOR ROUND DUCT
- DETAIL NUMBER / SHEET NUMBER
- M.C. MECHANICAL CONTRACTOR
- G.C. GENERAL CONTRACTOR
- P.C. PLUMBING CONTRACTOR
- E.C. ELECTRICAL CONTRACTOR
- R.C. REFRIGERANT CONTRACTOR
- DIFFUSER SYMBOL SEE SHEET M1 FOR SCHED.
- AIRFLOW (CFM)
- BRANCH DUCT DIAMETER

GENERAL NOTES

1. IF ANY DISCREPANCIES ARE FOUND ON THE PLANS, THE CONTRACTOR SHALL BID AND INSTALL MORE CONSERVATIVE SPECIFICATION AND CALL ENGINEER FOR CLARIFICATION.
2. UNLESS NOTED OTHERWISE, ALL ITEMS ARE TO BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.

CONSTRUCTION NOTES

1. TRANSITION SUPPLY AND RETURN AIR RISERS (1" INSULATED LINER) AS REQUIRED TO CONNECT TO ROOF CURB OPENINGS (FROM DUCT SIZES SHOWN ON PLAN). PROVIDE FLEXIBLE CONNECTION AND VIBRATION DAMPER AT CONNECTION TO UNIT. DUCTWORK TO BE PAINTED. SEE ARCHITECTURAL DRAWINGS.
2. EXPOSED DUCT SHALL BE DOUBLE WALL SPIRAL AND MOUNTED TIGHT TO STRUCTURE. M.C. SHALL COORDINATE DUCT ROUTING TO AVOID THE LIGHT FIXTURES. SPIRAL DUCTWORK TO BE PAINTED. SEE ARCHITECTURAL DRAWINGS.
3. 8"ø EXHAUST DUCT UP TO ROOF CAP. SEE SHEET M161.
4. SMOKE DETECTOR IN RETURN AIR DUCT OF RTU-1. M.C. SHALL INTERLOCK SMOKE DETECTOR TO SHUTDOWN RTU-1 UPON DETECTION OF SMOKE. ACCESS SHALL BE PROVIDED FOR INSPECTION AND MAINTENANCE. M.C. SHALL VERIFY CODE REQUIREMENTS FOR SMOKE DETECTOR IN THE APPLICABLE CONFIGURATION.
5. ELECTRICAL PANELS. NO DUCT OR HVAC EQUIPMENT SHALL BE LOCATED OVER ELECTRICAL PANELS.
6. 14"x14" INSULATED (1" INTERNALLY LINED) EXPOSED DUCT. ROUTE EXPOSED DUCT TIGHT TO STRUCTURE. PAINT EXPOSED DUCT TO MATCH DECK. SEE ARCHITECTURAL SHEETS.
7. M.C. SHALL MOUNT EF-3 AS HIGH AS POSSIBLE WITHIN STRUCTURE. PROVIDE WITH MOTORIZED DAMPER. INTERLOCK DAMPER WITH EF-3 TO OPEN WHEN FAN IS TURNED ON.
8. MOUNT BOTTOM OF RETURN GRILLE AT BOTTOM OF STRUCTURE.
9. PROVIDE AUDIBLE/VISUAL ALARM DEVICES IN APPROVED LOCATION TO SIGNAL DUCT DETECTOR ACTIVATION. MOUNT AT 6'-6" A.F.F. M.C. AND E.C. SHALL TEST AND VERIFY THE SMOKE DETECTION SYSTEM WORKS PROPERLY AND MEETS ALL LOCAL AND STATE CODE REQUIREMENTS.
10. M.C. SHALL LOCATE THERMOSTAT AT 48" AFF ON WALL. LABEL EACH THERMOSTAT FOR EASY IDENTIFICATION. M.C. SHALL PROVIDE ALL REQUIRED CONTROL WIRING, J-BOX, AND TERMINATIONS.
11. M.C. SHALL INSTALL TEMPERATURE SENSOR @ 60" AFF AS SHOWN OR AS DIRECTED BY OWNER REPRESENTATIVE. E.C. SHALL PROVIDE J-BOX AS REQUIRED. M.C. SHALL LABEL EACH TEMPERATURE SENSOR FOR EASY IDENTIFICATION WITH THE UNIT NUMBER SHOWN ON PLAN.
12. ROUTE 10"x10" TRANSFER DUCT BETWEEN TRANSFER GRILLES AND CONNECT TO TRANSFER GRILLES.
13. M.C. SHALL INSTALL HUMIDITY SENSOR @ 60" AFF AS SHOWN OR AS DIRECTED BY OWNER REPRESENTATIVE. E.C. SHALL PROVIDE J-BOX AS REQUIRED. M.C. SHALL LABEL EACH HUMIDITY SENSOR FOR EASY IDENTIFICATION WITH THE UNIT NUMBER SHOWN ON PLAN.

LMHT Project No. 19120.01

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DRAWING: MECHANICAL CEILING PLAN

Revisions

REVISION DATE

PROJECT DATE 6/24/2019
Drawn By RJB
Checked By MJM
Sheet No. M121

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