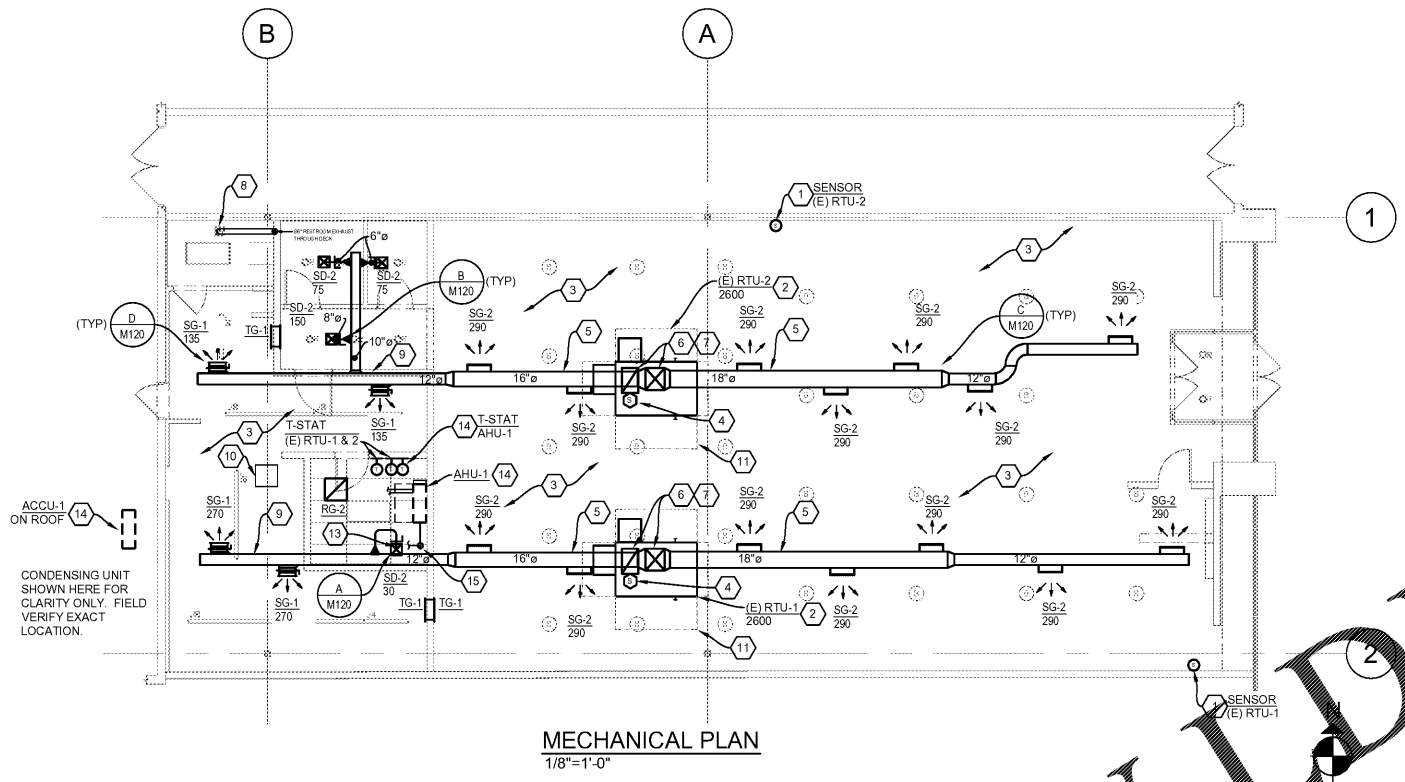


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**MECHANICAL PLAN**  
 1/8"=1'-0"

**GENERAL HVAC NOTES**

- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF EXISTING HVAC EQUIPMENT, DUCTWORK, DIFFUSERS, GRILLES, CONTROLS, ETC. AS REQUIRED TO FACILITATE NEW INSTALLATIONS.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL TRADES, LANDLORD REQUIREMENTS, CEILING HEIGHTS AND EXISTING STRUCTURAL CONDITIONS PRIOR TO FABRICATION OF ANY DUCTWORK OR ORDERING OF ANY EQUIPMENT.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- FURNISH ALL LABOR, MATERIALS, TOOLS, INCIDENTALS AND DETAILS NECESSARY TO PROVIDE A COMPLETE HEATING, VENTILATING, AIR CONDITIONING SYSTEM. INCLUDE ANY LABOR AND MATERIAL NOT SPECIFICALLY MENTIONED, BUT NECESSARY TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ALL WORK SHALL BE INSTALLED IN A PROFESSIONAL MANNER AND SHALL MEET ALL THE REQUIREMENTS OF THE STATE BUILDING CODE, CITY BUILDING CODE, SAFETY AND HEALTH CODES, NFPA CODES AND ALL OTHER APPLICABLE CODES AND REQUIREMENTS. ALL COSTS FOR SAID REQUIREMENTS SHALL BE INCLUDED IN THIS CONTRACTORS BID PRICE.
- THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS AND PERFORM ALL TESTS CALLED FOR OR REQUIRED AS A PART OF HIS WORK. FURNISH APPROVED CERTIFICATE OF FINAL INSPECTION, AND TURN OVER TO OWNER AT COMPLETION OF PROJECT.
- MECHANICAL PLANS ARE DIAGRAMMATIC, NOT SHOWING EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASUREMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, HVAC, FIRE PROTECTION, STRUCTURAL, ELECTRICAL AND OTHER BUILDING DRAWINGS.
- MECHANICAL CONTRACTOR TO PROVIDE TENANT WITH AS-BUILT DRAWINGS. ALL EQUIPMENT SHOP DRAWINGS, INFORMATION ON THERMOSTATS, CONTROL WIRING DIAGRAMS AND OTHER PERTINENT INFORMATION AT COMPLETION OF PROJECT.
- CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS AND INCLUDE IN BID ALL COSTS TO MAKE FIELD COORDINATION AND ADJUSTMENT TO DUCTWORK FOR FIT INTO EXISTING STRUCTURE. CONTRACTOR SHALL VERIFY AND FIELD COORDINATE FINAL LOCATION OF MECHANICAL EQUIPMENT.
- NEW DUCTS USED TO CONVEY THE CONDITIONED AIR SUPPLY AND VENTILATION AIR ARE TO BE MADE OF CONTINUOUS SHEET METAL.
- DUCT LININGS (THERMAL AND ACOUSTICAL), VIBRATION ISOLATING CONNECTORS, FLEXIBLE DUCT CONNECTORS, AND DUCTWORK TO BE APPROVED BY CODE AND LANDLORD.
- ALL BRANCH TAKE-OFFS SHALL BE PROVIDED WITH MANUAL BRANCHED DAMPERS.

**MECHANICAL CODED NOTES**

- MECHANICAL CONTRACTOR SHALL PROVIDE NEW ECOBEE THERMOSTATS WHERE INDICATED ON THE PLAN. PROVIDE NEW REMOTE SENSOR, WHEN INDICATED ON THE PLANS. THERMOSTAT AND SENSORS SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION WITH TENANT. THE ENTIRE CONTROL SYSTEM SHALL BE PROVIDED COMPLETE IN RESPECT BY THE MECHANICAL CONTRACTOR. REFER TO THERMOSTAT NOTE, THIS SHEET FOR ADDITIONAL INFORMATION.
- (E) RTU-1 & 2 - EXISTING ROOFTOP UNIT HEATING REPAIR/REPLACE HVAC UNIT TO REMAIN. FIELD VERIFY EXACT LOCATION. BEFORE STARTING WORK, CONTRACTOR TO CLEAN AND ADJUST UNIT. VERIFY COMPRESSOR CONDITION, VERIFY BELTS, VERIFY ALL CONTROLS ARE FUNCTIONAL AND MAKE SURE ALL EQUIPMENT IS IN PROPER OPERATING CONDITION. REPLACE ANY DEFECTIVE PARTS OR EQUIPMENT. GREASE AND/OR REPLACE IF REQUIRED. FAN BEARINGS, CHECK SHAFT FOR SCORING AND CHECK MOTORS FOR PROPER AMPERAGE DRAW. CLEAN AND REPLACE CONDENSATE DRAIN LINE AS REQUIRED. EXISTING DUCT SMOKE DETECTOR TO BE REUSED. REBALANCE FAN TO CFM SHOWN ON PLANS. FURNISH UNITS WITH THREE SETS OF STANDARD FILTERS. CONTRACTOR TO REPLACE FILTERS JUST PRIOR TO AIR BALANCE AND CHECK AIR AFTER FINAL STORE CLEANING IS COMPLETE. REFER TO ROOFTOP UNIT SCHEDULE ON SHEET M120.
- MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT, PIPING AND DUCTWORK, NOT BEING USED OR SHOWN TO REMAIN, IS FULLY REMOVED AND NOT ABANDONED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- EXISTING SMOKE DETECTOR IN AIR DUCT TO REMAIN. CONTRACTOR TO WIRE TO NEW ROOFTOP UNIT. ENSURE PROPER WORKING ORDER. REPLACE AS REQUIRED.
- NEW DUCTS IN SALES TO BE SPIRAL ROUND WITH NO INSULATION.
- EXISTING SUPPLY AND RETURN DROPS FOR RTU ARE EXISTING TO REMAIN. CLEAN, INSPECT, AND REPAIR AS REQUIRED. REMOVE ALL EXISTING BRANCH DUCTWORK AND DIFFUSERS NOT BEING REUSED. FIELD VERIFY EXACT SIZE AND LOCATION PRIOR TO BID. DIMENSIONS SHOWN ON PLANS ARE MINIMUM CLEAR INSIDE DIMENSIONS. REPORT ANY DISCREPANCIES TO THE PROJECT MANAGER PRIOR TO CONSTRUCTION.
- PROVIDE NEW DUCT CONNECTION TO EXISTING DUCTS AS SHOW ON PLANS. ENSURE MEETING SMACNA STANDARDS FOR SHEET METAL AND SEALING, CLASS 'C'.
- E.F.E. EXISTING EXHAUST FAN AND EXHAUST DUCT TO REMAIN IN EXISTING LOCATIONS. FIELD VERIFY EXACT LOCATION PRIOR TO BID. CLEAN, INSPECT, AND REPAIR EXHAUST FAN TO LIKE NEW CONDITION. INSPECT DUCTWORK FOR LEAKAGE AND REPAIR AS REQUIRED. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING EXHAUST DUCT.
- NEW DUCTS IN STOCK ROOM TO BE SPIRAL ROUND WITH NO INSULATION.

- EXISTING CEILING MOUNTED UNIT HEATER TO BE REMOVED.
- DASHED LINE AROUND UNIT IS TO BE THE CLEARANCE REQUIRED FOR UNIT ACCESS.
- NEW TRANSFER GRILLE. PAINT GRILLE TO MATCH PARTITION ON SALES FLOOR SIDE ONLY.
- FLEXIBLE INSULATED DUCTS SHALL BE MAXIMUM 5'-0" LONG AND SHALL MEET INSTALLATION AND MATERIAL REQUIREMENTS OF LOCAL CODES.
- AHU-1/ACCU-1: MECHANICAL CONTRACTOR TO FURNISH AND INSTALL A MINI DUCTLESS SPLIT SYSTEM AIR HANDLING UNIT WITH MATCHING AIR COOLED CONDENSING UNIT SERVING MANAGERS OFFICE. SEE SCHEDULE FOR FURTHER INFORMATION. AHU SHALL BE WALL MOUNTED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. CONDENSING UNIT SHALL BE MOUNTED ON FULL LENGTH EQUIPMENT SUPPORTS EQUAL TO "PATE". COORDINATE UNIT LOCATION WITH THE LANDLORD AND MAKE ADJUSTMENTS AS REQUIRED AT NO ADDITIONAL CHARGE TO THE TENANT. FURNISH AND INSTALL FACTORY WIRED THERMOSTAT. LOCATE THERMOSTAT AS SHOWN MOUNTED AT 48" A.F.F. COORDINATE EXACT LOCATION WITH TENANT.
- MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL CONDENSATE DRAIN FROM UNIT AS SHOWN ON PLANS. MINIMUM DRAIN SIZE TO BE 1" OR AS SPECIFIED ON PLANS. CONDENSATE DRAIN TO BE TRAPPED WITH A MINIMUM 6" TRAP DEPTH. DRAIN SHALL BE EXTENDED AT A SLOPE OF 1/8" PER 1'. ROUTE CONDENSATE TO MOP SINK. FURNISH AND INSTALL LITTLE GIANT MODEL #VCL-24ULS, 25 GPM @ 22 FT. HEAD, 1/18HP, 120V, 1 PH CONDENSATE PUMP. INTERIOR PIPING SHALL BE COPPER WITH WROUGHT FITTINGS & SOLDER JOINTS.
- MECHANICAL CONTRACTOR SHALL EXTEND REFRIGERANT LINES FROM AIR COOLED CONDENSING UNIT TO THE AIR HANDLING UNITS DX COIL AND MAKE FINAL CONNECTIONS. REFRIGERANT LINES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE INSULATION, VALVES, OIL TRAPS, DRYERS, SIGHT GLASSES AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. ROOF PENETRATIONS TO BE COORDINATED WITH THE LANDLORD AND ALL ROOF WORK TO BE DONE BY THE LANDLORD'S ROOFING CONTRACTOR AT THE GENERAL CONTRACTOR'S EXPENSE UNLESS NOTED OTHERWISE. DISTANCE BETWEEN AHU AND ACCU NOT TO EXCEED MANUFACTURER'S RECOMMENDED LINE SET LENGTH. REFRIGERANT LINES SHALL BE INSULATED WITH 1 INCH THICK RUBATEX OR ARMSTRONG REFRIGERANT PIPE INSULATION IN ACCORDANCE WITH INDUSTRY STANDARDS.

VERIFY ALL CONDITIONS IN THE FIELD.

**THERMOSTAT NOTE:**  
 CONTRACTOR TO PROVIDE:  
 1. THERMOSTATS  
 1.1 PROGRAMMABLE THERMOSTATS (ECOBEE EMS SI) AND REMOTE SENSOR (MONEYWELL HW C7189U)  
 1.2 THERMOSTATS AND SENSORS SHALL BE INSTALLED PER MANUFACTURERS PRINTED INSTRUCTIONS.  
 1.3 INSTALL AT 48" ABOVE FINISHED FLOOR.  
 1.4 WIRE FROM SENSORS TO THE THERMOSTATS.  
 2. PROGRAM TEMPERATURE SETTINGS AS FOLLOWS:  
 2.1 OCCUPIED SET-POINTS: COOL TO 73°F, HEAT TO 68°F (OCCUPIED HOURS FROM 1 HOUR PRIOR TO STORE OPENING TO 1 HOUR AFTER CLOSING)  
 2.2 UNOCCUPIED SET-POINTS: COOL TO 80°F, HEAT TO 60°F.  
 2.3 DEMAND CONTROL VENTILATION UNOCCUPIED  
 3. OUTSIDE AIR DAMPER SHALL BE IN CLOSED POSITION  
 3.1 THERMOSTAT SHALL CYCLE EITHER COOLING OR HEATING AND SUPPLY AIR FAN TO MAINTAIN SET POINT TEMPERATURE.  
 3.2 OCCUPIED  
 3.3 UNOCCUPIED  
 3.4 OUTSIDE AIR DAMPER TO MODULATE AS REQUIRED FOR DEMAND CONTROL VENTILATION  
 LABELS  
 3.1 LABEL EACH THERMOSTAT AND SENSOR IDENTIFYING THE HVAC UNIT IT SERVES USING BLACK ENGRAVED PHENOLIC LABELS WITH 3/16" LETTERS.  
 3.2 PROVIDE PLASTIC LAMINATED 8 1/2" X 11" COPY OF HVAC DUCTWORK PLAN SHOWING THERMOSTAT AND SENSORS LOCATIONS.  
 3.3 SECURE THE LAMINATED PLAN TO THE MANAGER'S OFFICE WALL ABOVE THE THERMOSTATS.  
 4. ORDERING  
 4.1 IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REACH OUT TO RACHEL COX (PHONE 317-222-7215, EMAIL: RACHEL.COX@JACKSONSYSTEMS.COM) AT JACKSON SYSTEMS A MINIMUM OF TWO WEEKS PRIOR TO THE INSTALLATION OF THE THERMOSTATS TO ARRANGE FOR PURCHASE AND SHIPPING.  
 4.2 GC TO REFERENCE REEBOK/ADIDAS TO SECURE AGREED UPON PRICING.  
 4.3 THERMOSTATS SHOULD BE INSTALLED PER THE MANUFACTURERS SPECIFICATIONS, AND TO THE ADIDAS-GROUP HEATING/COOLING STANDARDS.  
 4.4 IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO CALL KIRK BEAUDOIN (503-505-3028) WITH ADIDAS FACILITIES, AND PROVIDE THE SERIAL NUMBERS FOR ALL THERMOSTATS AT THE TIME OF INSTALLATION.

**HVAC EXISTING SYSTEM & PREVENTATIVE MAINTENANCE**

- CONTRACTOR TO PROVIDE (BUT NOT LIMITED TO) THE FOLLOWING:
- COMPLETE LUBRICATION OF ALL SHAFTS AND BEARINGS THAT HAVE LUBRICATION ZERKS.
  - REPLACEMENT OF ALL BELTS, HOSES, AND FABRIC/RUBBER COATED ITEMS THAT ARE SUBJECT TO WEAR.
  - REPLACEMENT OF ALL FILTERS PRIOR TO HVAC START-UP AND ONCE AGAIN PRIOR TO STORE TURNOVER.
  - CHECK AMPERAGE DRAW OF ALL INDOOR AND OUTDOOR MOTORS, AS WELL AS ALL COMPRESSORS.
  - TURN UNIT OFF AND TIGHTEN ALL ELECTRICAL CONNECTIONS, CONTACTS, ETC.
  - EXAMINE AND REPAIR ALL ELECTRICAL WIRING, CONTROLS, STARTERS, RELAYS, CAPACITORS AND ALL OTHER COMPONENTS THAT TEND TO DETERIORATE OVER TIME OR BECOME NON-OPERATIONAL. THIS INCLUDES SMOKE DETECTORS.
  - CHECK REFRIGERANT CHARGE (GAUGES OR RETURN/SUPPLY TEMPERATURE VARIANCE) ADD ADDITIONAL REFRIGERANT AS REQUIRED TO ENSURE OPTIMAL OPERATION.
  - CHECK POWER EXHAUST FAN AND RESTROOM FAN MOTORS.
  - ENSURE DRAIN PAN AND DRAIN LINES ARE CLEAN AND FREE OF BLOCKAGE.
  - GREASE ALL FITTINGS AND REPLACE ANY DEFECTIVE PARTS OR EQUIPMENT AS REQUIRED.
  - CLEAN ALL EVAPORATOR AND CONDENSER COILS AND STRAIGHTEN (COMBING) ALL LOUVERS AND FINS AS REQUIRED.
  - VERIFY ANY ADDITIONAL WORK AS REQUIRED BY THE LANDLORD PRIOR TO BID.
  - ALL FINDINGS AND VALUES TO BE NOTED AND PROVIDED TO THE TENANT'S CONSTRUCTION MANAGER AND/OR TENANT'S MAINTENANCE DIRECTOR AND INCLUDED IN FINAL BID AS REQUIRED.

**FIELD VERIFY ALL CONDITIONS**

DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

**SYMBOL LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER		ROOF MOUNTED EQUIPMENT AS NOTED
	RETURN AIR GRILLE OR DUCT		CEILING EXHAUST FAN
	DUCT MOUNTED DIFFUSER		T-DENOTES THERMOSTAT
	EXISTING TO BE DEMOLISHED		S-DENOTES SENSOR
	ROUND DUCT MOUNTED SUPPLY AIR DIFFUSER		TURNING VANES
	SUPPLY AIR DUCT RISE		DUCT TRANSITIONS
	SUPPLY AIR DUCT DROP		BRANCH DUCT WITH SPIN-IN FITTING AND VOLUME DAMPER
	HIGH SIDE WALL		F.D. - FIRE DAMPER
	LOW SIDE WALL		DUCT SMOKE DETECTOR
	EXISTING TO REMAIN		MECHANICAL CONTRACTOR
	HSW		ELECTRICAL CONTRACTOR
	LSW		
	E		