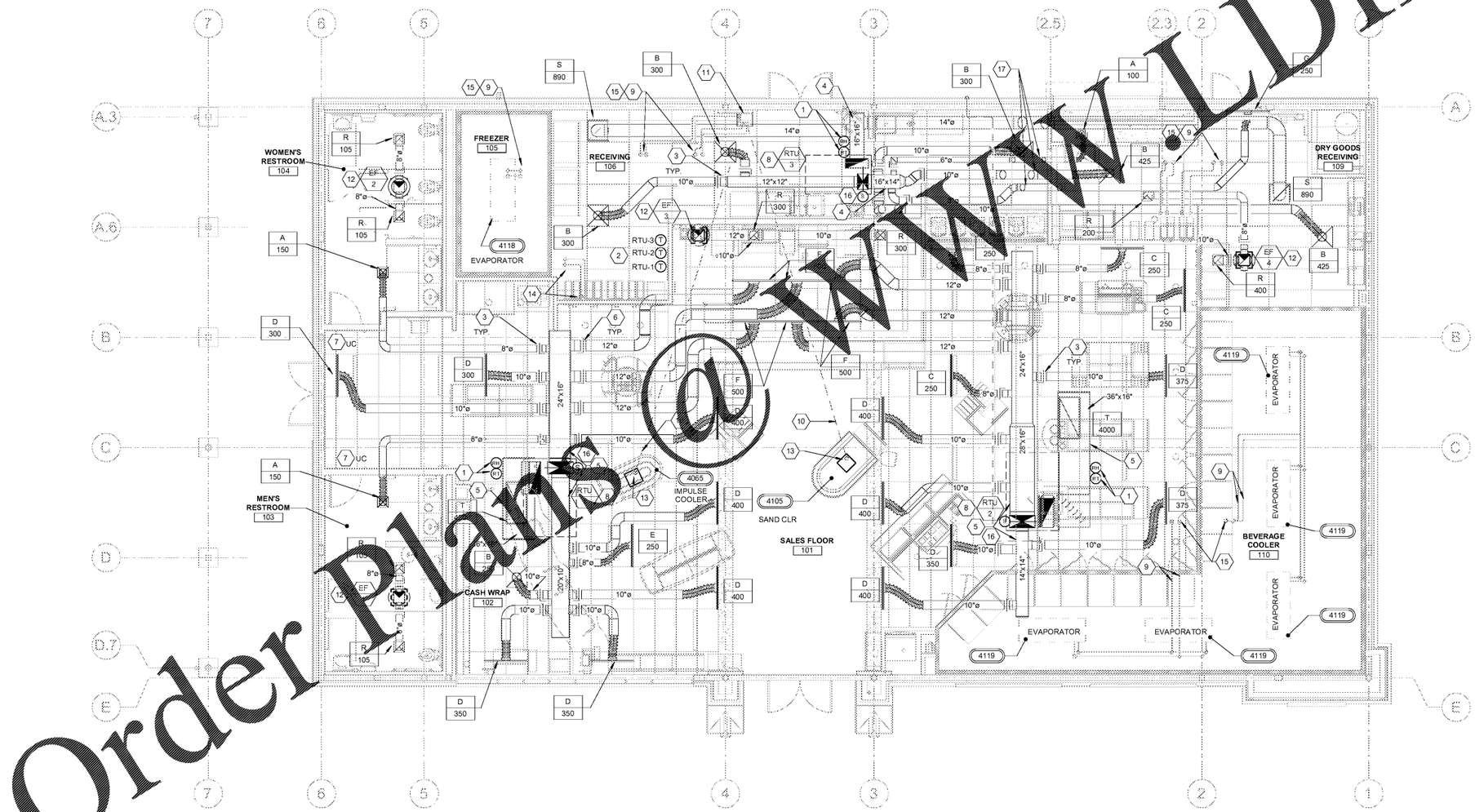

1 MECHANICAL PLAN
3/16" = 1'-0"

GENERAL NOTES

1. RUN REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS. SUCTION PIPING SHALL BE INSULATED WITH 1/2" THICK MANVILLE AEROTUBE 11 PIPE INSULATION SLID OVER TUBING WITHOUT CUTTING. ALL JOINTS AND SEAMS SHALL BE SEALED WITH ADHESIVE.
2. FLEXIBLE DUCTWORK NOT TO EXCEED 5'-0". WHEN LONGER RUNS OCCUR, USE MINIMUM #26 GA HARD ROUND DUCTWORK TO MAINTAIN REQUIRED LENGTH.
3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL EQUIPMENT, DUCTWORK, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL CONDITIONS. CUTTING OR OTHERWISE WORKING ANY STRUCTURAL MEMBERS SHALL NOT BE PERFORMED WITHOUT WRITTEN PERMISSION FROM THE OWNER AND ARCHITECT.
4. CONTRACTOR TO PROVIDE SCREEN HOUSINGS ON ALL HVAC AND REFRIGERATION EQUIPMENT LOCATED OUTSIDE.
5. GENERAL CONTRACTOR TO PROVIDE PIPE STAND TO HOLD REFRIGERANT LINES UP ON ROOF.
6. EXHAUST VENTS SHALL MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ANY OUTSIDE AIR INTAKE.
7. COORDINATE EXACT LOCATION OF ALL ROOF PENETRATIONS WITH THE ARCHITECTURAL DRAWINGS.
8. CONTRACTOR SHALL PERFORM AN AIR BALANCE OF THE HVAC SYSTEMS TO THE AIR QUANTITIES SHOWN ON THE PLAN AND EQUIPMENT SCHEDULE. SUBMIT AIR BALANCE REPORT TO ENGINEER AND OWNER FOR APPROVAL.
9. CONTRACTOR SHALL INSTALL 1/2" HARDWARE CLOTH ACROSS ALL RETURN AIR AND SUPPLY AIR DUCTWORK TO PREVENT DEBRIS GETTING INTO THE AIR DISTRIBUTION SYSTEM DURING CONSTRUCTION.
10. INSTALL 1" ACOUSTICAL DUCT LINER IN FIRST 10' OF SUPPLY AND RETURN AIR DUCT FROM ROOFTOP UNIT.

SHEET KEYNOTES

1	REMOTE TEMPERATURE/HUMIDITY SENSOR MOUNTED IN RETURN DUCT. CONNECT TO PROGRAMMABLE THERMOSTAT/HUMIDISTAT LOCATED IN BACK OF HOUSE AREA.
2	THERMOSTAT/HUMIDISTAT FOR RTU-1 & RTU-2 TO BE SET AT 68°F FOR HEATING, 72°F FOR COOLING AND 50% FOR HUMIDITY. THERMOSTAT/HUMIDISTAT FOR RTU-3 TO BE SET AT 67°F FOR HEATING, 73°F FOR COOLING AND 50% FOR HUMIDITY. THERMOSTATS/HUMIDISTATS SHALL BE INSTALLED VERTICALLY ON WALL BEHIND DOOR AT 48" A.F.F. LOCATE DUCT-DETECTOR SMOKE TEST SWITCHES ABOVE THERMOSTATS/HUMIDISTATS.
3	SPIN-IN FITTING AND EXTRACTOR SCOOP, TYPICAL.
4	ROUTE DUCTWORK BELOW JOIST.
5	ROUTE DUCTWORK BETWEEN JOIST.
6	ROUTE BRANCH DUCTS THROUGH ROOF JOIST.
7	UNDERCUT DOOR 3/4" FOR AIR TRANSFER.
8	PACKAGED HVAC UNIT TO BE INSTALLED ON ROOF CURB POSITIONED OVER BUILDING STEEL. COORDINATE INSTALL WITH ARCH/STRUCT DWG. SEE DETAIL 2 AND 6 ON SHEET M430. AND DETAIL 6 ON SHEET S432.
9	INSTALL REFRIGERANT PIPING FROM REMOTE CONDENSER ON ROOF TO INDOOR EQUIPMENT/EVAPORATOR AND CONNECT FOR OPERATION. PROVIDE 1/2" THICK PIPING INSULATION ON SUCTION PIPING. COORDINATE INSTALLATION REQUIREMENTS WITH EQUIPMENT VENDOR.
10	ROUTE REFRIGERANT LINES UNDER SLAB IN 6" PVC. REFER TO PLUMBING SHEETS FOR PVC LOCATION.
11	REFRIGERANT PIPING UP FROM BELOW FLOOR IN PIT AND INTO CEILING SPACE TO EQUIPMENT ON ROOF. SEE PIT DETAIL 10 ON SHEET S430.
12	EXHAUST DUCT UP THROUGH ROOF TO EXHAUST FAN. SEE DETAIL 1 ON SHEET M430.
13	REFRIGERANT PIPING UP FROM BELOW FLOOR IN PIT AND INTO IMPULSE COOLER/SANDWICH COOLER EQUIPMENT. PROVIDE 3/8" LIQUID LINE SOLENOID IN BASE OF IMPULSE COOLER/SANDWICH COOLER EQUIPMENT PIPED BEFORE THERMAL EXPANSION VALVE. SEE PIT DETAIL10 ON SHEET S430.
14	VENDER TO PROVIDE CHILLED WATER PIPING FROM YOGURT MACHINES #4025 TO REMOTE CHILLER #4046 ON ROOF. PIPING TO GO THROUGH ATR HUB. SEE DETAIL 3 ON SHEET A201.
15	REFRIGERANT PIPING UP THROUGH ROOF IN ATR HUB. SEE DETAIL 3 ON SHEET A201.
16	SMOKE DETECTOR PROVIDED BY ROOFTOP UNIT MANUFACTURER TO SHUTDOWN UNIT UPON SENSING SMOKE AND SEND OUT A REMOTE ALARM SIGNAL.
17	TRANSITION DUCT ABOVE CEILING SPACE. DUCT SHALL BE ROUTE THROUGH ROOF JOIST.

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1638 US HWY 41
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RACETRAC PROJECT NUMBER
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PLAN MODIFICATION NOTICE

SPB NO.	DATE

STANDARD PLAN BULLETINS (SPB) MODIFY THE PROTOTYPE SERIES SET NOTED ABOVE. THE LISTED SPB REPRESENTS THE LATEST MODIFICATION INCORPORATED TO THIS PROTOTYPE SERIES SET AT ORIGINAL RELEASE. THE ISSUE/REVISION RECORD COLUMN ABOVE LISTS ANY REVISIONS OR SPB INCORPORATED IN THIS SET AFTER THE ORIGINAL RELEASE. CONTACT RACETRAC ENGINEERING AND CONSTRUCTION FOR ANY SUBSEQUENT BULLETINS NOT INCORPORATED HEREIN.

PROFESSIONAL SEAL
GEORGIA REGISTERED No. 25541 PROFESSIONAL ENGINEER JUSTIN B. TRACY
08/22/18

PROJECT NUMBER
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SHEET TITLE
MECHANICAL PLAN

SHEET NUMBER
M120
ISSUED FOR PERMIT