





sweetgreen

3101 W. EXPOSITION BLVD.  
LOS ANGELES, CALIFORNIA 90018

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ENGINEER OF RECORD:



EVERJ ENGINEERING, INC.  
1509 BUCK TRAIL LANE  
WORTHINGTON, OH 43085  
614-348-8054  
www.everjengineering.com

STAMP:



10/18/2024

PROJECT INFORMATION:  
**ROCHESTER HILLS**  
PROJECT INFORMATION:  
**260 NORTH ADAMS ROAD  
ROCHESTER, MI 48309**

DRAWN BY: JAE  
CHECKED BY: MK  
PROJECT MANAGER: JAE  
SG DESIGN MANAGER: LK  
SG CONSTR. MANAGER: JB  
PROJECT NO: 210012  
TEMPLATE VERSION: 12/21/2021

REVISIONS  
REV. DATE DESCRIPTION  
1 07/14/2022 LL COMMENTS  
3 01/09/2023 OWNER CHANGES  
4 Date 4 OWNER CHANGES

HVAC PLAN

M-100  
ENTIRE SHEET

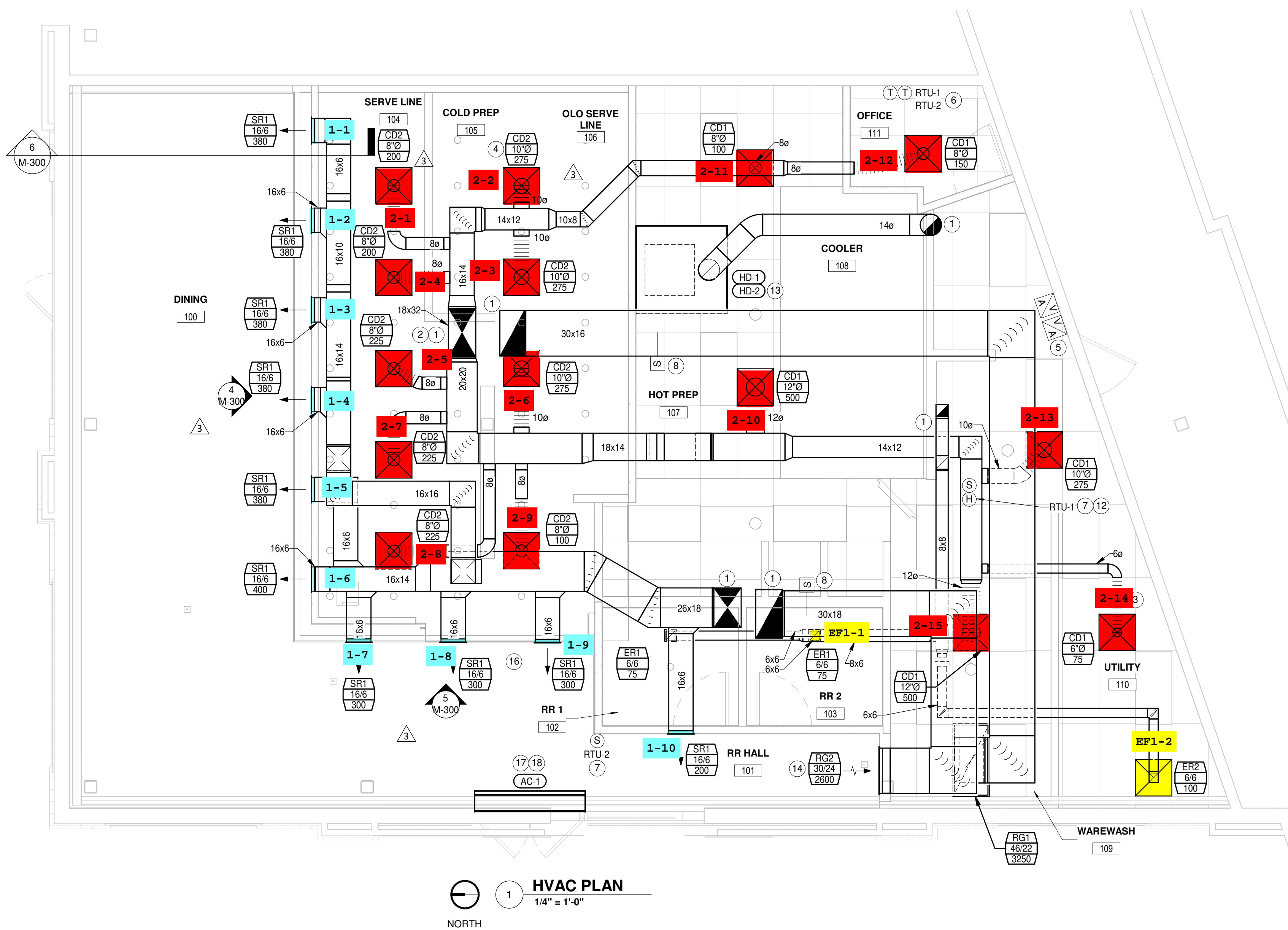
### CODED NOTES

- DUCTWORK TO/FROM HVAC EQUIPMENT ON ROOF. REFER TO SHEET M-101 FOR CONTINUATION.
- PROVIDE TEE WITH TURNING VANES AT BOTTOM OF RTU-1 SUPPLY-AIR DROP. TRANSITION TO DUCT SIZES AS INDICATED ON THE PLANS.
- PROVIDE SUPPLY DIFFUSER CONNECTION PER DETAIL 1/SHEET M-300. TYPICAL.
- REFER TO THE ARCHITECTURAL RCP FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
- PROVIDE HONEYWELL TH8321R1001 THERMOSTATS WITH LOCKABLE COVERS (HONEYWELL CG511A1000 OR EQUAL) FOR THE MECHANICAL EQUIPMENT AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THE AREA AND EXTEND WIRING TO REMOTE TEMPERATURE SENSOR AND UNITS. LABEL EACH THERMOSTAT ACCORDINGLY. COORDINATE THERMOSTAT LOCATION WITH WALL-MOUNTED EQUIPMENT SO THAT THE THERMOSTATS ARE NOT BLOCKED BY SHELVING, COAT RACKS OR DOORS.
- INSTALL THE TEMPERATURE SENSOR FOR THE HVAC EQUIPMENT NOTED AT THIS LOCATION AT 5'-0" AFF. COORDINATION LOCATION WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED.
- THE GENERAL CONTRACTOR SHALL PROVIDE A DUCT-MOUNTED SMOKE DETECTOR IN THE RETURN AIR STREAM. UPON DETECTION OF SMOKE, THE SUPPLY AIR FAN SHALL DE-ENERGIZE. THIS WORK SHALL BE COMPLETED BY THE LANDLORD'S REQUIRED FIRE ALARM CONTRACTOR (NATIONAL TIME & SIGNAL) AT THE GENERAL CONTRACTOR'S EXPENSE. COORDINATE ALL REQUIREMENTS WITH THE LANDLORD AND ALARM PROVIDER.
- NOT USED.
- NOT USED.
- NOT USED.
- INSTALL THE REMOTE HUMIDISTAT FOR THE HVAC EQUIPMENT NOTED AT THIS LOCATION IMMEDIATELY ABOVE THE TEMPERATURE SENSOR. COORDINATION LOCATION WITH EQUIPMENT AND WALL-MOUNTED FIXTURES AS REQUIRED SUCH THAT THE SENSOR IS NOT BLOCKED. ADJUST THE SENSOR FOR A DEADBAND TO ENERGIZE HOT GAS REHEAT WHEN THE HUMIDITY EXCEEDS 60% RELATIVE HUMIDITY AND TO DE-ENERGIZE WHEN THE HUMIDITY DROPS BELOW 50%.
- INSTALL THE TYPE II HOOD, HD-2 IN LOCATION SHOWN. SUPPORT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, THE BUILDING CODE, ALL NFPA REQUIREMENTS AND THE LOCAL AUTHORITY HAVING JURISDICTIONS REQUIREMENTS.
- INSTALL WITH GRILLE BLADES TOWARD CEILING TO PREVENT LINE OF SIGHT INTO THE DUCTWORK.
- NOT USED.
- PAINT ALL DUCTWORK VISIBLE THROUGH THE GRILLES IN THE DINING AREA BLACK. TYPICAL.
- INSTALL THE EQUIPMENT IN THE LOCATION SHOWN, PER THE STRUCTURAL DETAILS, AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ADJUST THE DOOR SWITCH SO THAT THE AIR CURTAIN'S FAN REMAINS ENERGIZED FOR TWO SECONDS AFTER THE DOOR IS SHUT.



### LANDLORD NOTES:

- THE GENERAL CONTRACTOR SHALL USE THE LANDLORD'S APPROVED ROOFING CONTRACTOR FOR ALL ROOF MODIFICATIONS AT THE GENERAL CONTRACTOR'S EXPENSE.
- THE GENERAL CONTRACTOR SHALL FOLLOW THE VILLAGE'S ROOF MODIFICATION GUIDELINES.
- THE GENERAL CONTRACTOR SHALL PROVIDE WALKWAY PADS AROUND ALL RTU'S IF NONE ARE EXISTING.
- THE GENERAL CONTRACTOR SHALL LABEL ALL MECHANICAL EQUIPMENT WITH 2" BLACK STENCILED LETTERS.



1 HVAC PLAN  
1/4" = 1'-0"  
NORTH

### SYMBOLS & ABBREVIATIONS

#### HVAC SYMBOLS

	MITERED CORNER WITH TURNING VANES		SUPPLY REGISTER
	DUCTWORK INTERNAL FREE DIMENSIONS (WIDTHxHEIGHT)		RETURN REGISTER
	RECTANGULAR TO ROUND DUCT TRANSITION		FLEXIBLE DUCT
	DUCT-MOUNTED SMOKE DETECTOR		THERMOSTAT
	MOTOR-OPERATED DAMPER		REMOTE TEMPERATURE SENSOR
	MANUAL VOLUME DAMPER		PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	GREASE DUCT CLEANOUT		CONNECT TO EXISTING
	MITERED CORNER WITHOUT TURNING VANES		EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-200 FOR EQUIPMENT INFORMATION
	CEILING DIFFUSER		AUDIOVISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
	CEILING-MOUNTED RETURN OR EXHAUST REGISTER		TAG NECK SIZE AIRFLOW (CFM)

#### HVAC ABBREVIATIONS

(E)	EXISTING
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BLOWER COIL
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
EF	EXHAUST FAN
ER	EXHAUST REGISTER
EXT'G	EXISTING
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
OBD	BLADE DAMPER
PL	PLENUM
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SD	SLOT DIFFUSER
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
WSHP	WATER SOURCE HEAT PUMP

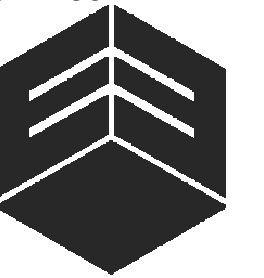


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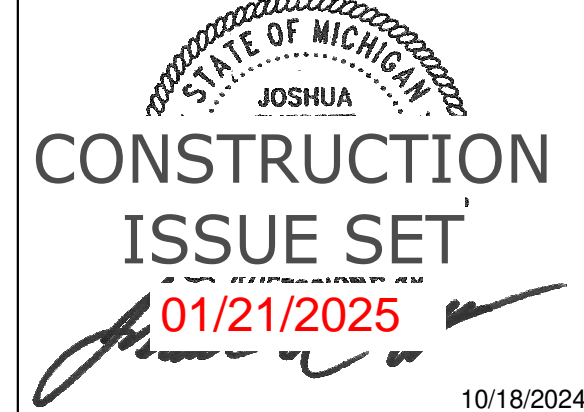
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CHECKED BY: Checker  
PROJECT MANAGER: JAE  
SG DESIGN MANAGER: LK  
SG CONSTR. MANAGER: JB  
PROJECT NO: 210012  
TEMPLATE VERSION: 12/21/2021

REVISIONS  
REV. 4 DATE 4 DESCRIPTION OWNER CHANGES

HVAC ROOF PLAN

M-101  
NEW SHEET

### CODED NOTES

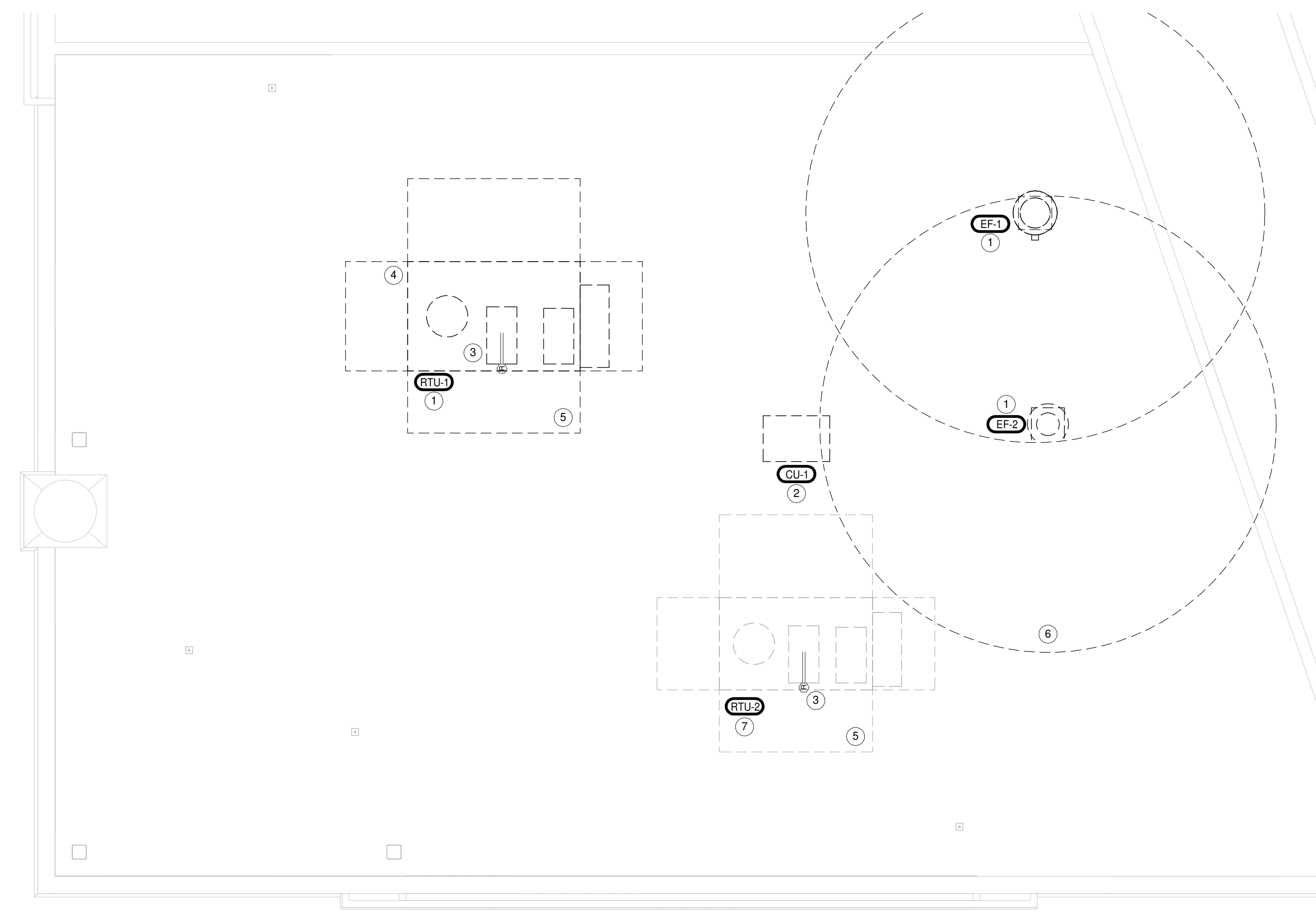
- 1 INSTALL EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTION AND PER THE STRUCTURAL DETAILS.
- 2 COORDINATE MOUNTING LOCATION FOR WALK-IN COOLER CONDENSING UNIT, CU-1 ON THE ROOF WITH THE KITCHEN EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. ENSURE ALL CLEARANCE REQUIREMENTS FOR THE UNIT ARE MAINTAINED THROUGH CONSTRUCTION. PROVIDE ROOF RAILS AND INSTALL THE UNIT ON THE ROOF PER THE STRUCTURAL DRAWINGS AND AS REQUIRED BY THE KITCHEN EQUIPMENT SUPPLIER. KITCHEN EQUIPMENT SUPPLIER SHALL PROVIDE LINESET, SPECIALTIES AND MAKE ALL FINAL CONNECTIONS BETWEEN THE CONDENSING UNIT AND EVAPORATOR COIL. COORDINATE WITH THE EQUIPMENT SUPPLIER TO PROVIDE PENETRATIONS AS NECESSARY.
- 3 THE GENERAL CONTRACTOR SHALL FURNISH A REME HALO AIR PURIFICATION SYSTEM AND REQUIRED TRANSFORMER, PURCHASED THROUGH SWEETGREEN'S VENDOR (NATIONAL TAB, CONTACT WILL TURNBOUGH [855-882-6822; EXT 4.2] [WILL@NATIONALTAB.COM]) AND INSTALL SYSTEM IN THE SUPPLY AIR DUCTWORK AND PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ADJUST AS REQUIRED FOR THE SUPPLY AIRFLOW.
- 4 PROVIDE ROOF SCREENING FOR THE ROOFTOP UNIT, SECURED TO THE UNIT TO MATCH THE EXISTING. FIELD-VERIFY EXISTING MAKE/MODEL AND ALL OTHER REQUIREMENTS PRIOR TO BID. REFER TO THE ARCHITECTURAL SHEETS FOR SCREENING LOCATION REQUIREMENTS.
- 5 MAINTAIN MANUFACTURER'S RECOMMENDED CLEARANCE ZONES. NO DUCTWORK, PIPING, CONDUIT OR OTHER SYSTEMS SHALL BE PERMITTED IN THIS AREA. COORDINATE WITH SITE CONDITIONS AND WORK OF OTHER TRADES AS REQUIRED. TYPICAL.
- 6 MAINTAIN A MINIMUM OF 10' CLEARANCE FROM THE DISCHARGE OF THE EXHAUST FAN AND ALL VENTILATION AIR INTAKES.
- 7 EXISTING PACKAGED ROOFTOP UNIT TO REMAIN. THE GENERAL CONTRACTOR SHALL CLEAN EXTERIOR CABINET, INTERIOR PLENUMS, CHEMICALLY CLEAN COILS, STRAIGHTEN BENT CONDENSER FINS, PROVIDE ADDITIONAL REFRIGERANT CHARGE AS REQUIRED AND VERIFY GAS HEAT FUNCTION. REPAIR/REPLACE FAN BELTS, BALANCE FANS AS NECESSARY, GREASE BEARINGS AND VERIFY MOTOR FUNCTION/ROTATION DIRECTION. REPLACE EXISTING FILTERS AT START OF CONSTRUCTION, IMMEDIATELY PRIOR TO AIR BALANCE AND ONCE AGAIN PRIOR TO TURNOVER. VERIFY UNIT CONTROLS ARE COMPATIBLE WITH THE PROPOSED CONTROLS. REPAIR/REPLACE ALL DEFECTIVE PARTS AS REQUIRED TO RETURN UNIT TO WORKING ORDER.

### SYMBOLS & ABBREVIATIONS

HVAC SYMBOLS			
	MITERED CORNER WITH TURNING VANES		SUPPLY REGISTER
	DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT)		RETURN REGISTER
	RECTANGULAR TO ROUND DUCT TRANSITION		FLEXIBLE DUCT
	DUCT-MOUNTED SMOKE DETECTOR		THERMOSTAT
	MOTOR-OPERATED DAMPER		REMOTE TEMPERATURE SENSOR
	MANUAL VOLUME DAMPER		CONNECT TO EXISTING
	GREASE DUCT CLEANOUT		EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M-200 FOR EQUIPMENT INFORMATION
	MITERED CORNER WITHOUT TURNING VANES		AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
	CEILING DIFFUSER		TAG NECK SIZE AIRFLOW [CFM]
	CEILING-MOUNTED RETURN OR EXHAUST REGISTER		

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HES	TENANT'S HVAC EQUIPMENT SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
OBD	BLADE DAMPER
PL	PLENUM
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SD	SLOT DIFFUSER
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
WSHP	WATER SOURCE HEAT PUMP



1 HVAC ROOF PLAN  
1/4" = 1'-0"

10/18/2024 2:24:21 PM



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DRAWN BY: JAE
CHECKED BY: MK
PROJECT MANAGER: JAE

REVISIONS
REV. DATE DESCRIPTION
3 01/09/2023 OWNER CHANGES

HVAC SCHEDULES

M-200

CAPTIVEAIRE - HVAC SYSTEM INFORMATION
CONTACT THE CAPTIVEAIRE NATIONAL ACCOUNT TEAM FOR HVAC SYSTEM INFORMATION AT:
MARK PROFET (301)825-5476

TRANE NATIONAL ACCOUNT - HVAC SYSTEM INFORMATION
CONTACT THE TRANE NATIONAL ACCOUNT TEAM FOR HVAC SYSTEM INFORMATION AT:
EMAIL: SOCALNA@TRANE.COM
PHONE: (714)983-0505

MATERIAL SCHEDULE
CATEGORY APPLICATION ALLOWABLE MATERIAL
DUCT CONCEALED, SUPPLY RECTANGULAR OR ROUND AS SHOWN, INSULATED.

AIR BALANCE SCHEDULE
TAG SUPPLY AIRFLOW (CFM) RETURN AIRFLOW (CFM) OUTSIDE AIRFLOW (CFM)

EXHAUST SCHEDULE
[PER THE 2015 MICHIGAN MECHANICAL CODE, TABLE 403.3.1.1]
CATEGORY AREA (SF) NUMBER OF FIXTURES AIR RATE

VENTILATION SCHEDULE
[PER THE 2015 MICHIGAN MECHANICAL CODE, TABLE 403.3.1.1]
CATEGORY OCCUPANT DENSITY (# / 1000 SF) AREA (SF) OCCUPANCY BY AREA (PEOPLE)

GRILLS, REGISTERS, AND DIFFUSERS SCHEDULE
TAG Description FACE SIZE MATERIAL FINISH MOUNTING SUPPLIER INSTALLER MANUFACTURER MODEL

RECIRCULATING HOOD SCHEDULE
TAG DESCRIPTION MAX COOKING TEMP. EXHAUST PLENUM AIRFLOW (CFM)

FAN SCHEDULE
TAG EXHAUST AIRFLOW (CFM) E.S.P. (IN. W.C.) DRIVE TYPE MOTOR POWER (HP)

TYPE II HOOD SCHEDULE
TAG DESCRIPTION HOOD CONSTRUCTION MAXIMUM COOKING TEMPERATURE (DEG. F)

HEATED AIR CURTAIN SCHEDULE
TAG DESCRIPTION OPENING WIDTH AIRFLOW MAX VELOCITY (FPM) AVERAGE VELOCITY (FPM)

CONDENSING UNIT SCHEDULE
TAG DESCRIPTION NUMBER OF COMPRESSORS REFRIGERANT TYPE WEIGHT (LB)

ROOFTOP UNIT SCHEDULE
TAG DESCRIPTION COOLING CAPACITY (TONS) AIRFLOW COOLING HEATING ELECTRICAL



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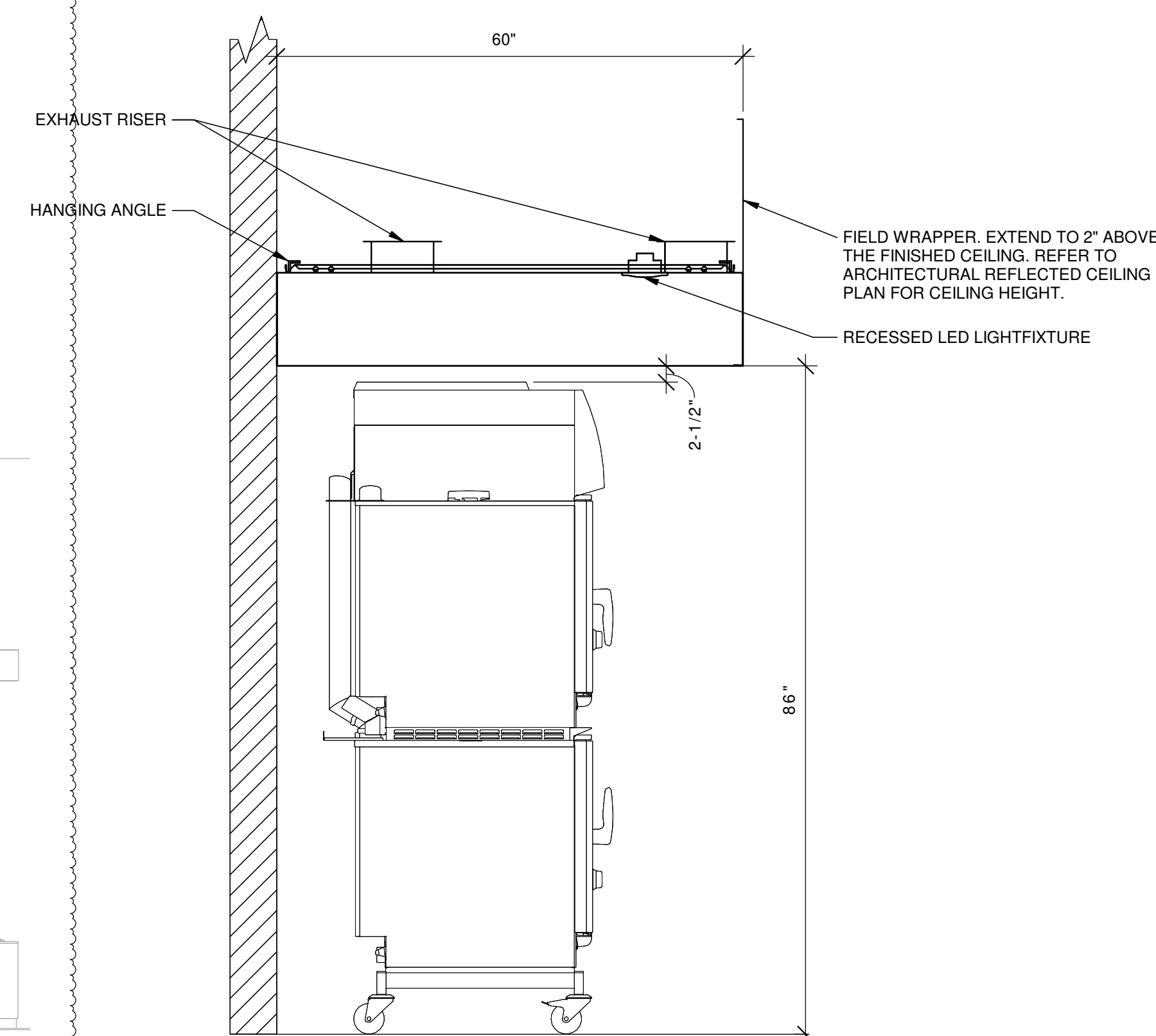
REVISIONS  
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HVAC DETAILS

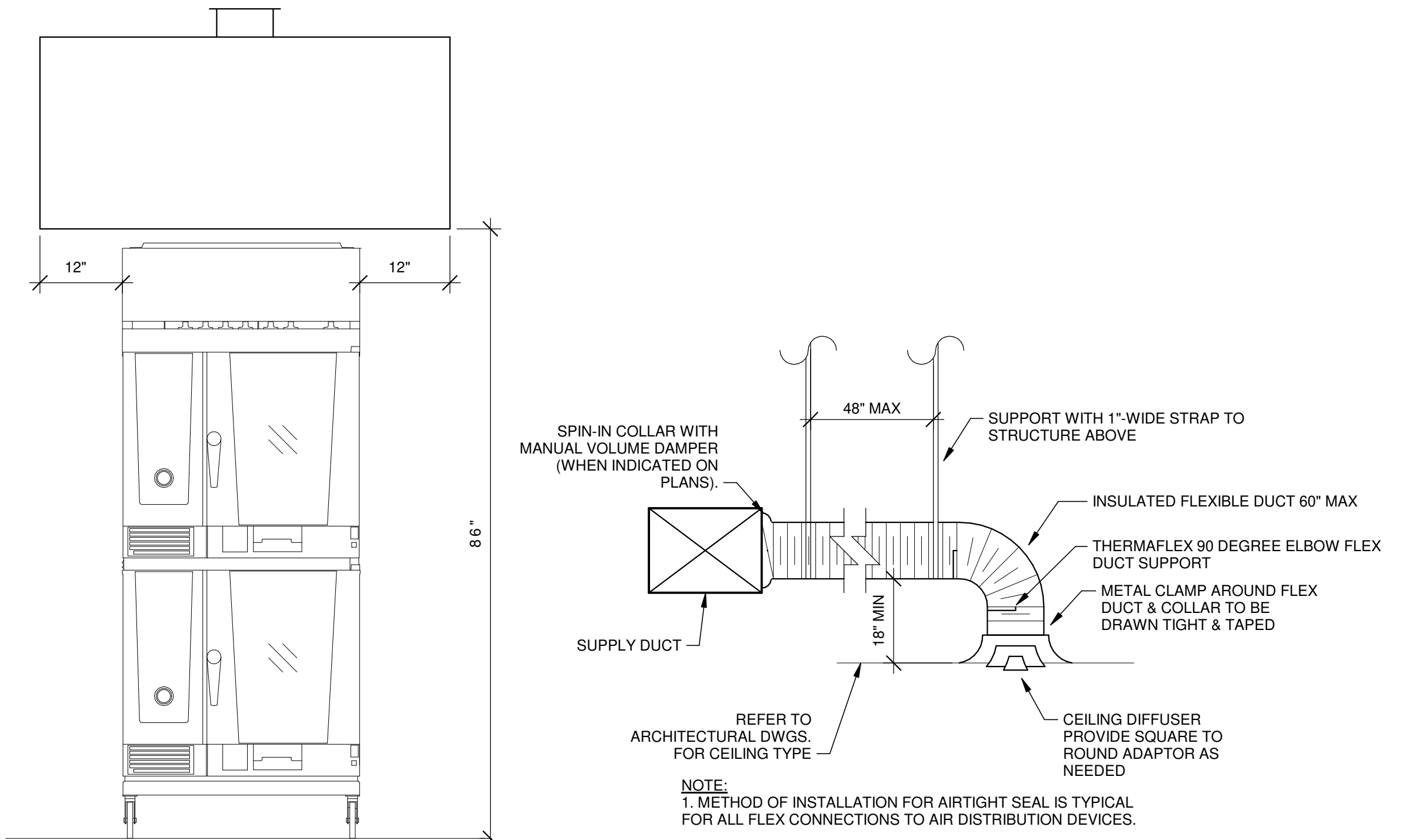
M-300

SEQUENCE OF OPERATIONS RTU-1	SEQUENCE OF OPERATIONS RTU-2	SEQUENCE OF OPERATIONS EF-1 & EF-2
<p><b>OCCUPIED MODE:</b> <i>FAN OPERATION/OUTSIDE AIR DAMPER:</i> WHEN SCHEDULED BY THE THERMOSTAT TO BE IN OCCUPIED MODE, THE ROOFTOP UNIT FANS ARE TO START AND RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPERS SHALL MODULATE TO THE MINIMUM POSITION. <i>HEATING:</i> ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 70 DEGREES (ADJUSTABLE) THE FIRST STAGE OF HEATING SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT. UPON A CONTINUED FALL IN SPACE TEMPERATURE, THE SECOND STAGE SHALL BE ENERGIZED (WHERE APPLICABLE) TO MAINTAIN THE SETPOINT. <i>COOLING:</i> ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 72 DEGREES (ADJUSTABLE), WHEN THE ENTHALPY OF THE OUTSIDE AIR IS FAVORABLE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN UP TO 100% TO PROVIDE COOLING FOR THE SPACE. WHEN THE ENTHALPY OF THE OUTSIDE AIR IS NOT FAVORABLE, OR THERE IS A SUDDEN DEMAND FOR SPACE COOLING, THE OUTSIDE AIR DAMPER SHALL MODULATE TO THE MINIMUM POSITION AND THE COOLING SHALL BE ENERGIZED AS REQUIRED TO MAINTAIN THE SETPOINT. <i>DEHUMIDIFICATION:</i> UPON A SIGNAL FROM THE HUMIDISTAT THAT DEHUMIDIFICATION IS REQUIRED, THE COOLING COIL SHALL BE ENERGIZED TO SATISFACTORILY DEHUMIDIFY THE AIR AND THE HOT GAS REHEAT COIL SHALL BE ENGAGED AS REQUIRED TO MAINTAIN THE SPACE SETPOINT.</p> <p><b>UNOCCUPIED MODE:</b> <i>FAN OPERATION/OUTSIDE AIR DAMPER:</i> WHEN SCHEDULED BY THE THERMOSTAT TO BE IN UNOCCUPIED MODE, THE ROOFTOP UNIT FANS ARE TO BE OFF AND THE OUTSIDE AIR DAMPERS SHALL REMAIN CLOSED. <i>HEATING:</i> ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 55 DEGREES (ADJUSTABLE) THE ROOFTOP UNIT FAN SHALL START AND THE FIRST STAGE OF HEATING SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT. UPON A CONTINUED FALL IN SPACE TEMPERATURE, THE SECOND STAGE SHALL BE ENERGIZED (WHERE APPLICABLE) TO MAINTAIN THE SETPOINT. <i>COOLING:</i> ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 85 DEGREES (ADJUSTABLE) THE ROOFTOP UNIT FAN SHALL START. WHEN THE ENTHALPY OF THE OUTSIDE AIR IS FAVORABLE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN UP TO 100% TO PROVIDE COOLING FOR THE SPACE. WHEN THE ENTHALPY OF THE OUTSIDE AIR IS NOT FAVORABLE, OR THERE IS A SUDDEN DEMAND FOR SPACE COOLING, THE OUTSIDE AIR DAMPER SHALL REMAIN IN THE CLOSED POSITION AND THE COOLING SHALL BE ENERGIZED AS REQUIRED TO MAINTAIN THE SETPOINT. <i>DEHUMIDIFICATION:</i> UPON A SIGNAL FROM THE HUMIDISTAT THAT DEHUMIDIFICATION IS REQUIRED THE ROOFTOP UNIT FAN SHALL START. THE COOLING COIL SHALL BE ENERGIZED TO SATISFACTORILY DEHUMIDIFY THE AIR AND THE HOT GAS REHEAT COIL SHALL BE ENGAGED AS REQUIRED TO MAINTAIN THE SPACE SETPOINT.</p> <p><b>EMERGENCY MODE:</b> <i>FAN OPERATION/OUTSIDE AIR DAMPER:</i> UPON A SIGNAL FROM THE FIRE ALARM SYSTEM, THE FAN SHALL STOP AND THE OUTSIDE AIR DAMPER SHALL CLOSE.</p>	<p>AT START OF WORK: FIELD-VERIFY EXISTING ECONOMIZER/DAMPER CONTROL SYSTEM. REQUIRED SYSTEM SHALL BE COMPARATIVE ENTHALPY ECONOMIZING. IF EXISTING INSTALLED SYSTEM VARIES, CONTACT SWEETGREEN'S TRANE NATIONAL ACCOUNT REPRESENTATIVE AND FURNISH/FIELD-INSTALL ECONOMIZER TO FUNCTION AS NOTED IN THIS SEQUENCE.</p> <p><b>OCCUPIED MODE:</b> <i>FAN OPERATION/OUTSIDE AIR DAMPER:</i> WHEN SCHEDULED BY THE THERMOSTAT TO BE IN OCCUPIED MODE, THE ROOFTOP UNIT FANS ARE TO START AND RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPERS SHALL MODULATE TO THE MINIMUM POSITION. <i>HEATING:</i> ON A FALL IN SPACE TEMPERATURE BELOW THE SETPOINT OF 70 DEGREES (ADJUSTABLE) THE FIRST STAGE OF HEATING SHALL BE ENERGIZED TO MAINTAIN THE SETPOINT. UPON A CONTINUED FALL IN SPACE TEMPERATURE, THE SECOND STAGE SHALL BE ENERGIZED (WHERE APPLICABLE) TO MAINTAIN THE SETPOINT. <i>COOLING:</i> ON A RISE IN SPACE TEMPERATURE ABOVE THE SETPOINT OF 72 DEGREES (ADJUSTABLE), WHEN THE ENTHALPY OF THE OUTSIDE AIR IS FAVORABLE, THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN UP TO 100% TO PROVIDE COOLING FOR THE SPACE. 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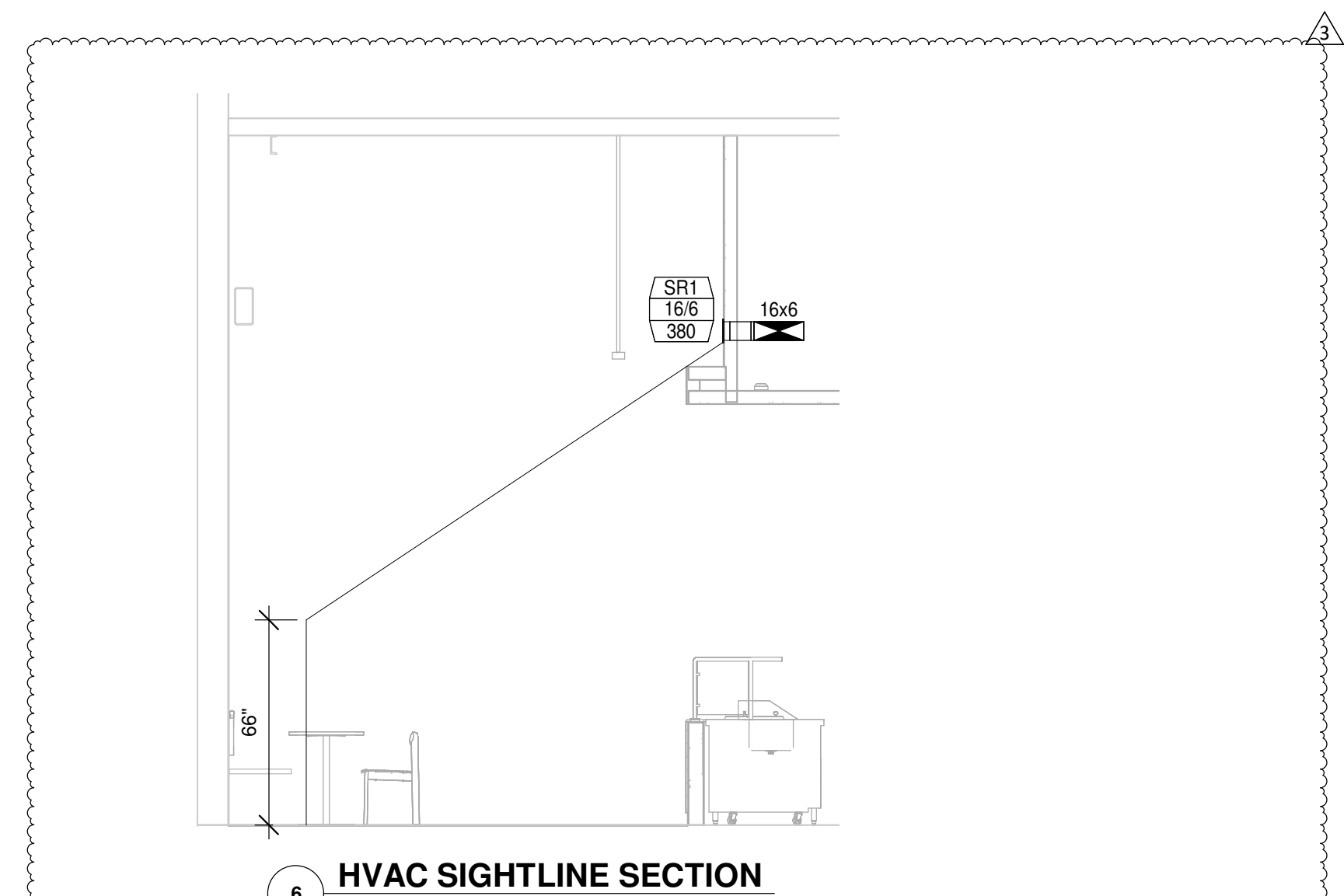
3 SEQUENCE OF OPERATIONS  
N.T.S.



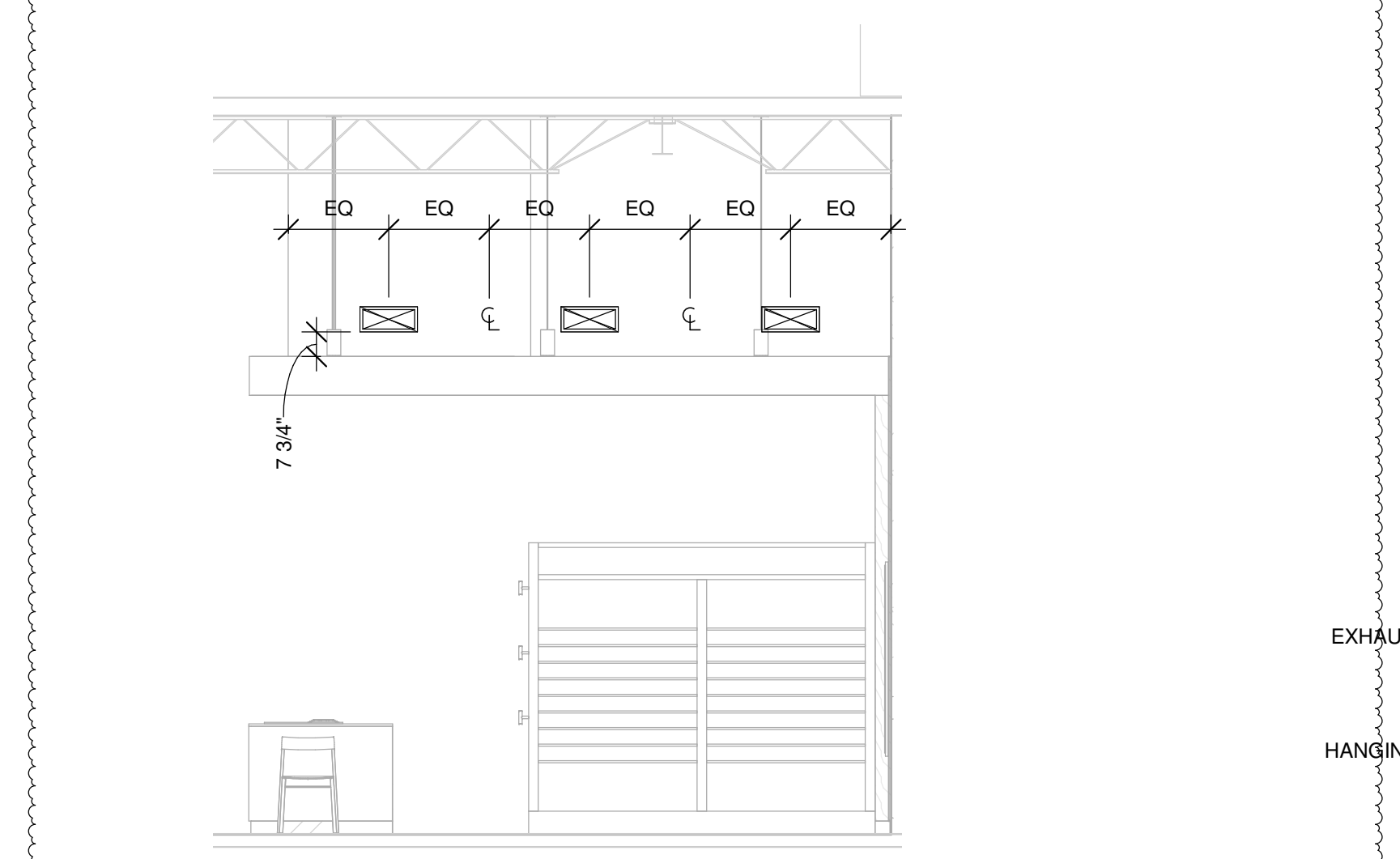
2 HOOD ELEVATIONS  
N.T.S.



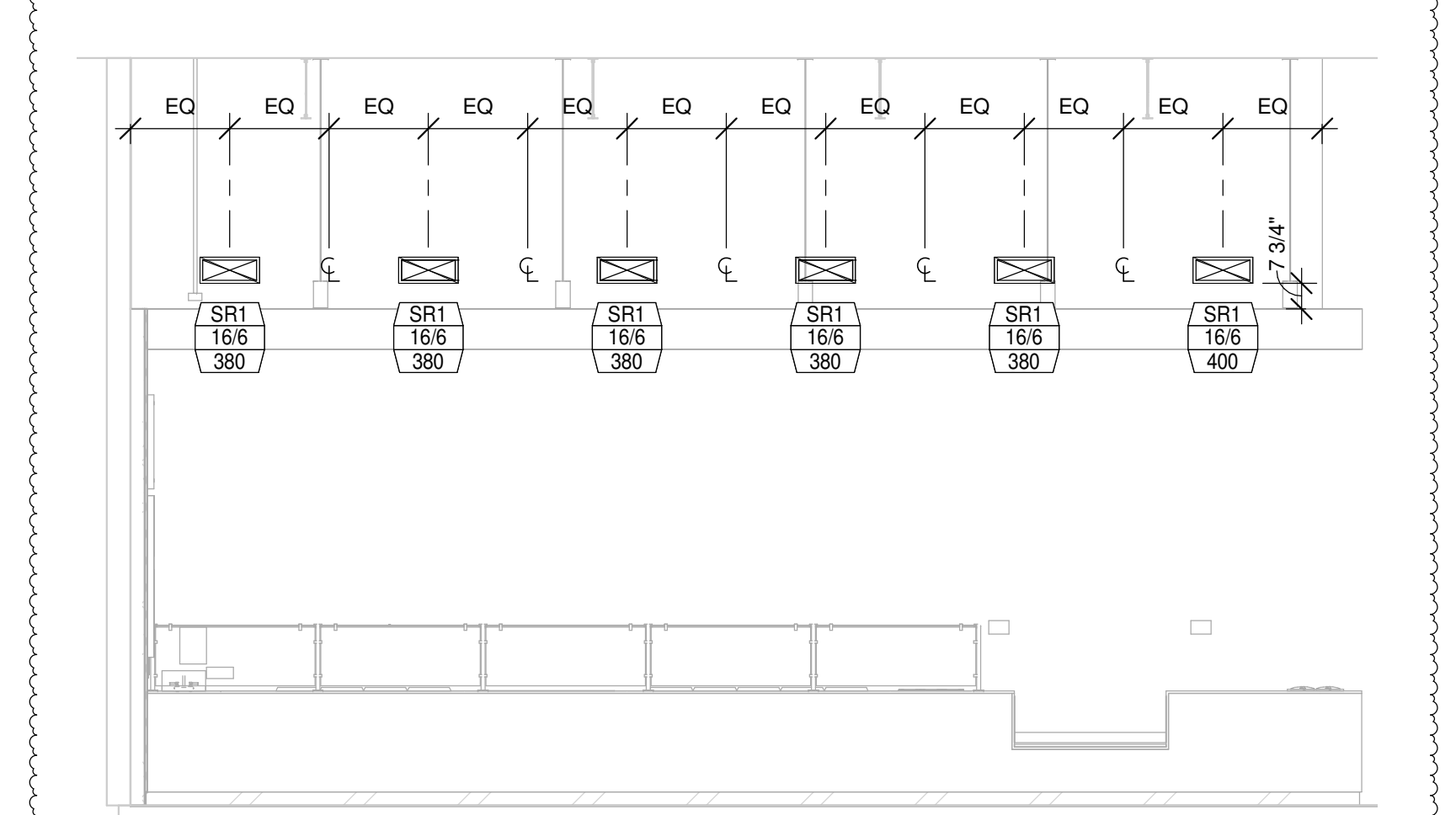
1 DIFFUSER CONNECTION  
N.T.S.



6 HVAC SIGHTLINE SECTION  
N.T.S.



5 OLO HVAC ELEVATION  
N.T.S.



4 SERVE LINE HVAC ELEVATION  
N.T.S.