



COMcheck Software Version 4.1.5.3
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: Sweetgreen Fort Worth
Location: Fort Worth, Texas
Climate Zone: 3a
Project Type: New Construction

Construction Site: 1605 S. University Drive
Fort Worth, TX 76107
Owner/Agent:
Designer/Contractor: JFTE
8340 Meadow Road, #160
Dallas, TX 75231
214.750.2900

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Reduced Lighting Power, 1.0 credit

Mechanical Systems List

Quantity System Type & Description
2 HVAC System 1 (Single Zone):
Heating: 1 each - Duct Furnace, Gas, Capacity = 120 kBtu/h
Proposed Efficiency = 80.00% Ee, Required Efficiency: 80.00 % Ee
Cooling: 1 each - Single Package DX Unit, Capacity = 86 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.80 EER, Required Efficiency: 11.00 EER + 12.6 IEER
Fan System: None
1 Water Heater 1:
Gas Storage Water Heater, Capacity: 65 gallons, Input Rating: 125 kBtu/h
Proposed Efficiency: 96.00 % Et, Required Efficiency: 80.00 % Et

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jacob Koruthu - EIT
Name - Title Signature Date 02/15/22

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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.5, C404.5.1, C404.5.2 [PL6]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.3 [PL7]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.6.3 [PL7]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.7 [PL8]	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C404.7 [PL8]	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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COMcheck Software Version 4.1.5.3
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [FR2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C103.2 [FR3]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C406 [FR9]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.12 [ME65]	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met. <i>See the Mechanical Systems list for values.</i>
C403.2.12 [ME117]	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation <= 15% of maximum total efficiency of the fan.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.13 [ME17]	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.3 [ME55]	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	<i>See the Mechanical Systems list for values.</i>
C403.2.6 [ME59]	Demand control ventilation provided for spaces >500 ft ² and >25 people/1000 ft ² occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.6 [ME115]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.7 [ME57]	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.8 [ME116]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.2.9 [ME60]	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.9 [ME10]	Ducts and plenums sealed based on static pressure and location.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.9.1.3 [ME11]	Ductwork operating >3 in. water column requires air leakage testing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5, C403.2.4.6 [FO9]	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.4.4.6 [ME110]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. <i>See the Mechanical Systems list for values.</i>
C404.2.1 [ME111]	Gas-fired water-heating equipment installed in new buildings, where a singular piece of water-heating equipment >= 1,000 kBtu/h serves the entire building, thermal efficiency >= 90 Et. Where multiple pieces of water-heating equipment serve the building with combined rating >= 1,000 kBtu/h, the combined input-capacity weighted-average thermal efficiency >= 90 Et. Exclude input-rating of equipment in individual dwelling units and equipment <= 100 kBtu/h.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.2.1 [ME53]	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME123]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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CONSTRUCTION
ISSUE SET
5/23/22

2/16/22

PROJECT INFORMATION:
FORT WORTH (WEST BEND)

PROJECT INFORMATION:
1605 S. UNIVERSITY DRIVE
FORT WORTH, TX 76107

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CHECKED BY: XX
PROJECT MANAGER: XX
SG DESIGN MANAGER: XX
SG CONSTR. MANAGER: XX
PROJECT NO: XXXXXX
TEMPLATE VERSION: 210604.03

REVISIONS
REV. DATE DESCRIPTION

RECEIVED BY D4 CONSTRUCTION
DATE: 05/23/2022

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JOB # 1119
TX REGISTRATION # 13342

DRAWN/DESIGN CAD/BJK OC/APPX/WKC

M020

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.3, C408.2.5.3 [F18] ¹	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.2 [F127] ¹	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1 [F147] ¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.2 [F138] ¹	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.1.3 [F120] ¹	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2 [F139] ¹	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.2.4.2.1 [F140] ¹	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.3 [F111] ¹	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.4 [F125] ¹	All piping insulated in accordance with section details and Table C403.2.10.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.1 [F128] ¹	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.1 [F131] ¹	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.3.2 [F110] ¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.4 [F129] ¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.1 [F17] ¹	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.3 [F143] ¹	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5.4 [F130] ¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Harlan R. Faust 2/16/22

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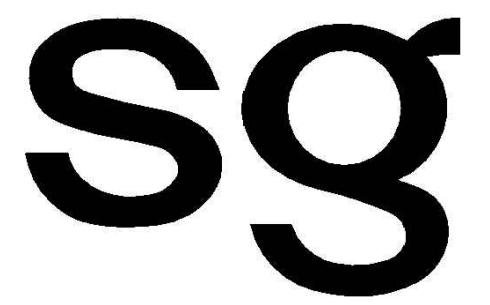
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**ENERGY
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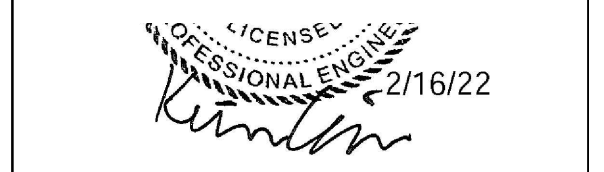
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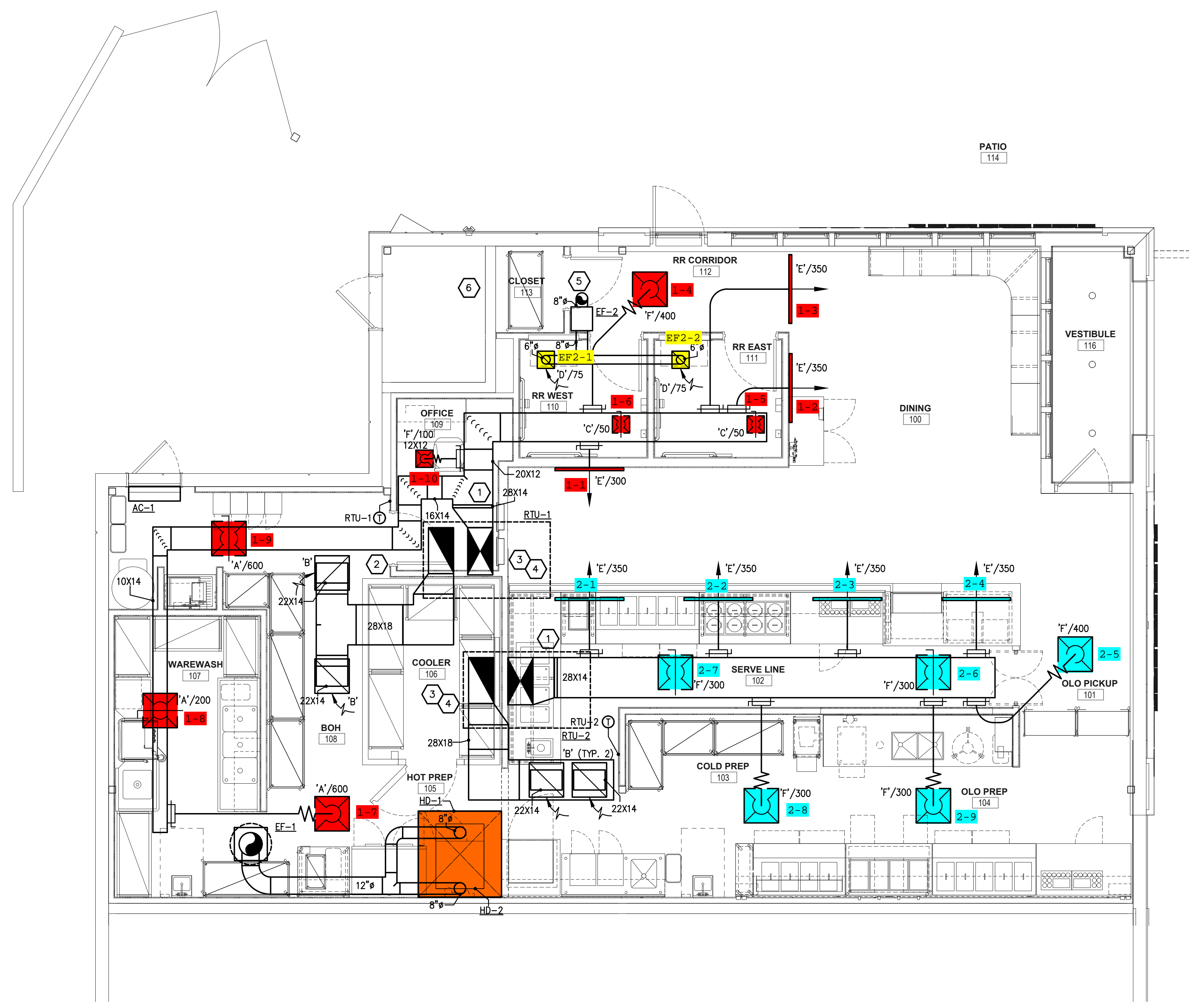
MECHANICAL PLAN

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M100

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE ARRANGED IN A NEAT, WELL ORGANIZED MANNER. ALL WORK SHALL BE PARALLEL AND PERPENDICULAR TO THE PRIMARY LINES OF THE BUILDING. LOCATE ALL OPERATING AND CONTROL EQUIPMENT PROPERLY TO PROVIDE CODE AND/OR MANUFACTURERS CLEARANCES.
- ALL WORK SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE PORTIONS OF ALL NATIONAL, STATE, AND LOCAL CODES AND STANDARDS. WHERE THE CONTRACT DOCUMENTS ARE IN EXCESS OF CODE REQUIREMENTS, THE CONTRACT DOCUMENTS SHALL GOVERN. IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE CODES, THE LATTER SHALL GOVERN.
- GC SHALL ENSURE THAT ALL LIGHTS, SPRINKLER HEADS, DIFFUSERS AND OTHER CEILING DEVICES ARE CENTERED IN CEILING TILES AND IN BETWEEN LIGHT FIXTURES.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- ALL DUCTWORK TO BE EXTERNALLY INSULATED PER SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE PLANS.
- PROVIDE INSULATION BLANKETS AT ALL DIFFUSERS.
- ALL EXPOSED DUCTWORK SHALL BE SUPPORTED BY ALL-THREAD ROD, SHALL BE INTERNALLY LINED AND SHALL BE PAINTED PER OWNER REQUIREMENTS.
- FURNISH AND INSTALL ALL ITEMS, INCLUDING EVERY ARTICLE, DEVICE OR ACCESSORY REASONABLY NECESSARY TO FACILITATE EACH SYSTEMS' FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT SPECIFIED. ELEMENTS OF THE WORK SHALL INCLUDE, BUT ARE NOT LIMITED TO MATERIALS, LABOR, SUPERVISION, SUPPLIES, EQUIPMENT, TRANSPORTATION, HOISTING/RIGGING, STORAGE, UTILITIES AND ALL REQUIRED PERMITS AND LICENSES.
- UNIT LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. COORDINATE EXACT LOCATION WITH STRUCTURAL PRIOR TO ROUGH-IN.
- CONTRACTOR SHALL COORDINATE ALL DUCTWORK SIZES AND ROUTING WITH STRUCTURE AND OTHER DISCIPLINES PRIOR TO PURCHASING, CONSTRUCTING, OR INSTALLING ANY DUCTWORK. CONTRACTOR SHALL PROVIDE DUCTWORK SHOP DRAWINGS TO ENGINEER / ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION. UNLESS SHOP DRAWINGS ARE SUBMITTED, CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COST FOR ANY NECESSARY REWORK.
- ALL BRANCH DUCTS ARE TO BE THE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE NOTED. SEE DIFFUSERS RUNOUT SIZING CHART.
- MAINTAIN ALL OUTSIDE AIR INTAKE OPENINGS MINIMUM 10'-0" FROM ALL MECHANICAL VENTS, PLUMBING VENTS, AND EXHAUST FANS.
- PROVIDE BALANCING DAMPERS AT ALL SUPPLY AIR RUNOUTS.
- ALL DUCTWORK SHALL BE CONSTRUCTED, SEALED AND SUPPORTED PER LATEST SMACNA AND ASHRAE RECOMMENDATIONS.
- PROVIDE ALL MECHANICAL EQUIPMENT WITH NEW LAMINATED IDENTIFICATION TAGS. LABEL TAGS AS SHOWN ON PLAN INCLUDING AREA SERVED.
- ALL GAS FIRED EQUIPMENT TO BE U.L. LISTED AND A.S.A. APPROVED.
- ALL EQUIPMENT SHALL BE ANCHORED TO THE BUILDING STRUCTURE.
- FLEX DUCT ALLOWED ONLY IN SUPPLY DUCTWORK IN AREAS WITH ACCESSIBLE CEILINGS AND ONLY IN THE LAST 6 FEET OF RUNOUTS. NO FLEX DUCTWORK ALLOWED IN RETURN AIR DUCTWORK.
- REFER TO PLUMBING PLANS FOR CONDENSATE ROUTING.
- EXCEPT AS REQUIRED BY IMC SECTIONS 602.2.1.1 THROUGH 602.2.1.6, MATERIALS WITHIN PLUMBING SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM-E-84 OR UL-723.
- PROVIDE SLEEVES AND FLASHINGS REQUIRED FOR PIPING AND DUCTWORK PENETRATIONS. PROVIDE ESCUTCHEON PLATES FOR ALL PIPING PENETRATING FINISHED WALLS AND CEILINGS.
- FIELD VERIFICATION OF EXISTING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND PRIOR TO SUBMISSION OF BID. THE CONTRACTOR SHALL TAKE NOTE THAT THE DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE THE APPROXIMATE LOCATIONS OF THE MECHANICAL AND PLUMBING SYSTEMS. LOCATE ALL ITEMS BY ON-THE-JOB MEASUREMENTS. COOPERATE WITH OTHER TRADES TO ENSURE PROPER FIT AND ACCESS TO ALL ITEMS.
- PROVIDE FIRE AND/OR SMOKE DAMPERS IN ALL DUCT PENETRATIONS OF RATED WALLS WHETHER OR NOT SHOWN ON PLANS.
- COORDINATE WITH ELECTRICAL TO PROVIDE POWER FOR ALL SMOKE DAMPERS WHETHER OR NOT SHOWN ON PLANS.
- CONSIDERATION SHALL NOT BE GRANTED FOR MISUNDERSTANDING OF THE SCOPE OR AMOUNT OF WORK TO BE PERFORMED. TENDER OF A PROPOSAL CONVEYS FULL CONTRACTOR AGREEMENT OF THE ITEMS AND CONDITIONS SPECIFIED AND/OR INDICATED, SCHEDULED, OR IMPLIED ON THE CONTRACT DOCUMENTS, AND/OR REQUIRED BY THE NATURE OF THIS WORK.
- THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL COORDINATE THE INSTALLATION OF DUCTWORK, PIPING, CONDUIT, CABLE, ETC., INSTALLATION WITH LIGHTING FIXTURES, SPECIAL CEILING CONSTRUCTION, AIR DISTRIBUTION EQUIPMENT AND THE STRUCTURE. PROVIDE ADDITIONAL RISES AND OFFSETS AS REQUIRED. IF, AFTER INSTALLED, NEW DUCTWORK, PIPING CONDUIT, OR CABLE IS FOUND TO BE IN CONFLICT WITH THE ARCHITECTURE, STRUCTURE, OR OTHER TRADE WORK, OR WHICH IS EITHER EXISTING OR SHOWN ON THE CONTRACT DOCUMENT, THE DUCTWORK, CONDUIT, OR CABLE SHALL BE RELOCATED WITHOUT ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL PROTECT THE WORK, EQUIPMENT, AND MATERIALS FROM DAMAGE BY HIS WORK OR HIS PERSONNEL, AND SHALL CORRECT ALL DAMAGE THIS CAUSED WITHOUT ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK, MATERIALS, AND EQUIPMENT UNTIL FINAL ACCEPTANCE BY THE OWNER. PROTECT ALL WORK AGAINST THEFT, INJURY, OR DAMAGE AND CAREFULLY STORE MATERIAL AND EQUIPMENT RECEIVED ON SITE WHICH IS NOT IMMEDIATELY INSTALLED. THE CONTRACTOR SHALL CLOSE OPEN ENDS OF WORK WITH TEMPORARY COVERS OR PLUGS DURING CONSTRUCTION TO PREVENT THE ENTRY OF DUST, DIRT, AND OBSTRUCTING MATERIAL. THE CONTRACTOR SHALL PROTECT ALL EQUIPMENT AND MATERIALS FROM DAMAGE DUE TO WATER, SPRAY-ON FIREPROOFING, CONSTRUCTION DEBRIS, ETC. IN A MANNER ACCEPTABLE TO THE ENGINEER AND/OR OWNER.



MECHANICAL PLAN
1/4" = 1'-0"
TRUE PLAN NORTH

DEMO AND REMOVE ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AND ASSOCIATED AIR DEVICES NOT NOTED ON PLANS TO REMAIN. DEMO ALL EXHAUST FANS AND CAP CURBS.

MECHANICAL NOTES BY SYMBOL "○"

- SWEETGREEN SHALL FURNISH AND CONTRACTOR SHALL INSTALL A REME HALO AIR PURIFICATION SYSTEM IN SUPPLY DUCT. ADJUST AS REQUIRED FOR THE SUPPLY AIRFLOW. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- UNDERCUT DOOR BY 1/2".
- LOCATE NEW RTU ON EXISTING RTU CURB. PROVIDE WITH NEW CURB ADAPTER AS REQUIRED.
- LOCATE DUCT SMOKE DETECTOR IN THE RETURN AIR DUCT DROP.
- ROUTE 8" EXHAUST DUCT UP TO ROOF WITH ROOF CAP AND BIRD SCREEN. MAINTAIN AT LEAST 10' BETWEEN EXHAUST OUTLET AND OUTSIDE AIR INTAKE.
- EXISTING UNIT HEATER IN RISER ROOM TO REMAIN. CONTRACTOR TO CONFIRM WORKING CONDITION OF UNIT HEATER. PROVIDE ALL REQUIRED MAINTENANCE FOR PROPER FUNCTIONING OF UNIT. CLEAN COILS, REPLACE BELTS AND FILTERS, AND LUBRICATE MOVING PARTS ETC.

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EXHAUST FAN SCHEDULE

MARK	EF-1	EF-2	
TYPE	UPBLAST	INLINE	
CFM	950	150	
EXTERNAL STATIC PRESSURE	0.7	0.7	
ELECTRICAL DATA	HORSEPOWER	.5	.125
	VOLTS/PHASE	115/1	115/1
	STARTER (SEE ELEC.)	-	-
RPM	1310	1685	
MANUFACTURER	CAPTIVEAIRE	CAPTIVEAIRE	
MODEL No.	DU50HFA	SIF9DD	
LOCATION	ROOF	CEILING	

- NOTES:**
- EF-1 AND EF-2 TO RUN ON TIMECLOCK.
 - PROVIDE DISCONNECT SWITCH.

HOOD SCHEDULE

TAG	MANUFACTURER & MODEL #	AREA SERVED	CFM	WATTS	VOLTS/PHASE/HZ	WEIGHT	REMARKS
HD-1	CAPTIVEAIRE 6012 VHB	COMBI-OVEN	950	-	-	192 LBS	1,2
HD-2	RATIONAL ULTRAVENT PLUS61/101E	COMBI-OVEN	-	450W	120/1/60	216 LBS	2,3

- NOTES:**
- HD-1 TO BE MOUNTED ABOVE HD-2 AND COMBI-OVEN. SEE M301.
 - HOOD PROVIDED BY KITCHEN EQUIPMENT SUPPLIER. SHOWN HERE FOR COORDINATION PURPOSES ONLY.
 - VENTLESS HOOD MEETING UL 710B REQUIREMENTS ATTACHED TO TOP OF COMBI-OVEN.

AIR DEVICE SCHEDULE

MARK	SERVICE	TYPE	SIZE		ACCESSORIES	MFR.	MODEL	NOTES
			NECK	FACE				
A	SUPPLY	CEILING	SEE DETAIL	24X24	-	TITUS	PAS-AA	1,2,3,4,5,6
B	RETURN	CEILING	SEE PLANS	24X24	-	TITUS	8F	1,2,3,4,6
C	SUPPLY	CEILING	SEE DETAIL	12X12	OBD	TITUS	OMNI-AA	1,2,3,4,6
D	EXHAUST	CEILING	SEE PLANS	12X12	OBD	TITUS	PAR-AA	1,2,3,4,6
E	SUPPLY	SLOT	SEE PLANS	4" LENGTH 2 SLOT 1.5" SLOT W.	-	TITUS	TBD-10	1,2,3,4,6
F	SUPPLY	CEILING	SEE DETAIL	24X24 U.N.O.	-	TITUS	TMSA	1,2,3,4,6

- NOTES:**
- ALL GRILLES IN TOILET ROOM AND KITCHEN AREAS TO BE ALUMINUM. ALL OTHERS STEEL UNLESS NOTED OTHERWISE.
 - ALL AIR DEVICES COLOR TO BE SELECTED BY ARCHITECT.
 - TRIM TO BE PREFINISHED OR PAINTED TO MATCH ADJACENT EXTERIOR AND INTERIOR WALL FINISH.
 - CONTRACTOR IS RESPONSIBLE TO PROVIDE THE AIR DEVICE FRAME AND MOUNTING SYSTEM TO MATCH THE ARCHITECT CEILING TYPES. SEE ARCHITECTURAL DRAWINGS FOR COORDINATION.
 - DISCHARGE PATTERN SHOULD BE ADJUSTED TO VERTICAL.
 - ENSURE ALL BALANCING DAMPERS ARE ACCESSIBLE. PLACE DAMPER ABOVE CEILING GRID WHERE POSSIBLE, AND PROVIDE ACCESS PANEL FOR DAMPERS LOCATED ABOVE GYP. CEILINGS.

AIR CURTAIN SCHEDULE

TAG	MANUFACTURER & MODEL #	LENGTH (IN)	AIRFLOW	FAN QUANTITY	MOTOR HP	WEIGHT (LBS)	VOLTS	PH	NOTES
AC-1	BERNER MAX1036A	36"	1036 CFM	1	1/5	38	120	1	1-2

- NOTES:**
- INTERLOCK WITH DOOR SWITCH.
 - MOUNT UNIT PER MANUFACTURERS RECOMMENDATIONS.

RTU SCHEDULE

MARK	RTU-1	RTU-2	
NEW/EXISTING	NEW	NEW	
NEW/EXISTING	TOTAL CFM	3000	3000
	OUTSIDE AIR CFM	600	600
	EXTERNAL STATIC PRESSURE (IN W.C.) APPROX.	.61	.61
	MOTOR OPERATING POWER (BHP)	1.02	1.02
COOLING DATA	TOTAL CAPACITY (MBH) (APPROX. @ 80/67)	86.47	86.47
	SENSIBLE (MBH) (APPROX. @ 80/67)	65.31	65.31
	AMBIENT TEMPERATURE °F	105	105
HEATING DATA (MBTU)	INPUT	120	120
	OUTPUT	96	96
ELECTRICAL DATA	VOLTS	208	208
	PHASE	3	3
	COMPRESSOR RLA	15.9	15.9
	OUTDOOR FAN MOTOR FLA	1.5	1.5
	MCA	42	42
	MOCP (FUSE ONLY)	50	50
MANUFACTURER & MODEL No.	TRANE YHC092F3RLA	TRANE YHC092F3RLA	
LOCATION	ROOF	ROOF	
UNIT WEIGHT	1291	1291	
EER	12.6	12.6	
NOTES	1-6	1-6	

- NOTES:**
- LOCATE NEW RTU ON EXISTING RTU CURB. PROVIDE WITH NEW CURB ADAPTER AS REQUIRED.
 - PROVIDE WITH HONEYWELL VISIONPRO WI-FI 7 DAY PROGRAMMABLE THERMOSTAT.
 - PROVIDE HAIL GUARDS ON ALL RTU'S.
 - PROVIDE ENTHALPY CONTROLLED ECONOMIZERS ON ALL RTU'S.
 - PROVIDE 2" COTTON MEDIA FILTER APPROX. 20% EFFICIENCY.
 - PROVIDE RTU'S WITH CONDENSATE OVERFLOW KILL SWITCHES.

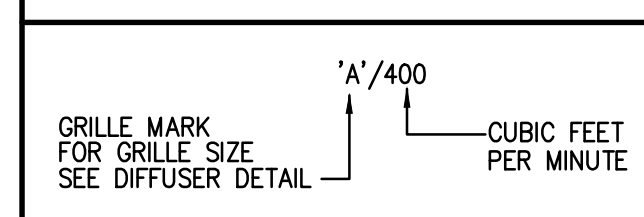
AIR BALANCE SCHEDULE

EQUIPMENT MARK	VENTILATION AIR (CFM)	MAKEUP AIR (CFM)	EXHAUST AIR (CFM)	TOTAL (CFM)
RTU-1	+600	-	-	+600
RTU-2	+600	-	-	+600
EF-1	-	-	-950	-950
EF-2	-	-	-150	-150
TOTAL	+1200	-	-1100	+100

VENTILATION CALC.

OCCUPANCY TYPE	AREA (SF)	OCCUPANT COUNT	CFM/PERSON	CFM/SF	TOTAL VENTILATION
OFFICE	61	1	5	.06	9 CFM
CORRIDOR	174	0	-	.06	11 CFM
DINING/SERVE LINE	604	18	7.5	.18	244 CFM
TOTAL REQUIRED					264 CFM
TOTAL SUPPLIED					1200 CFM

DIFFUSER LEGEND



CEILING DIFFUSER RUNOUT SIZING

RUNOUT / NECK SIZE	CFM RANGE
6"ø	0 - 100 CFM
8"ø	101 - 240 CFM
10"ø	241 - 400 CFM
12"ø	401 - 600 CFM
14"ø	601 - 800 CFM

MECHANICAL SYMBOL LEGEND

SINGLE LINE SYMBOL	DESCRIPTION	DOUBLE LINE SYMBOL	SINGLE LINE SYMBOL	DESCRIPTION	DOUBLE LINE SYMBOL
	2'x2' SUPPLY AIR DIFFUSER 45° WITH FLEX CONN.			45° ELBOW	
	2'x2' SUPPLY AIR DIFFUSER 90° WITH FLEX CONN.			90° STRAIGHT ELBOW	
	2'x2' SUPPLY AIR DIFFUSER WITH OUT FLEX CONN.			90° CONICAL TEE OR SPIN IN TAP	
	ROUND NECK CLG. DIFFUSER 4-WAY DIRECTIONAL THROW			45° BRANCH	
	1'x1' SUPPLY AIR DIFFUSER 45°			SPLIT BRANCH TAKE-OFF WITH SQUARE ELBOW & SPLITTER DAMPER	
	1'x1' SUPPLY AIR DIFFUSER 90°			SPLIT BRANCH TAKE-OFF WITH RADIUS ELBOW & SPLITTER DAMPER	
	ROUND SUPPLY AIR DIFFUSER			SPLIT BRANCH TAKE-OFF WITH RADIUS HEEL & SPLITTER DAMPER	
	EXISTING 1'x1' CEILING OR EXHAUST RETURN AIR GRILLE OR REGISTER			BRANCH TAKE-OFF WITH AIR EXTRACTOR	
	1'x1' CEILING RETURN AIR OR EXHAUST GRILLE OR REGISTER			TEE WITH SPLITTER	
	EXISTING 2'x2' CEILING OR EXHAUST RETURN AIR GRILLE OR REGISTER			LINED DUCTWORK	
	2'x2' CEILING RETURN AIR OR EXHAUST GRILLE OR REGISTER			SIDEWALL SUPPLY GRILLE ON REGISTER WITH AIR EXTRACTOR	
	EXISTING 2'x4' CEILING OR EXHAUST RETURN AIR GRILLE OR REGISTER			TURNING VANE RECTANGULAR DUCT	
	2'x4' CEILING RETURN AIR OR EXHAUST GRILLE OR REGISTER			ROUND FLEXIBLE DUCT	
	EXISTING 1'x2' CEILING OR EXHAUST RETURN AIR GRILLE OR REGISTER			FLUE OR ROUND EXHAUST DUCT	
	DOOR GRILLE			TAP	
	SUPPLY DUCT RISER			DAMPER	
	RETURN, EXHAUST OR OUTSIDE AIR DUCT RISER			RETURN AIR OR TRANSFER AIR ARROW	
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE ARROW SLOPES DN.)			FLOW ARROW	
	RECTANGULAR RADIUS ELBOW			EXISTING TO NEW CONNECTION	
	45° CONICAL TEE			FIRE AND SMOKE DAMPER	
	CONCENTRIC TRANSITION			SMOKE DAMPER	
	SQUARE TO ROUND DUCT TRANSITION			FIRE DAMPER	
	90° ELBOW DOWN (RECTANGULAR DUCT)			CARBON MONOXIDE SENSOR	
	90° ELBOW UP (RECTANGULAR DUCT)			SMOKE DETECTOR	
	90° ELBOW DOWN (ROUND)			SENSOR	
	90° ELBOW UP (ROUND)			THERMOSTAT	
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE ARROW SLOPES DN.)			HUMIDSTAT	
	ROUND RADIUS ELBOW			ROOF MOUNTED EXHAUST FAN WITH EXHAUST DUCT	
				BREAK	

ALL SYMBOLS ON THIS LIST ARE NOT NECESSARILY USED ON THIS JOB



sweetgreen

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5/23/22

2/16/22
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CHECKED BY: XX
PROJECT MANAGER: XX
SG DESIGN MANAGER: XX
SG CONSTR. MANAGER: XX
PROJECT NO: XXXXXX
TEMPLATE VERSION: 210604.03

REVISIONS
REV. DATE DESCRIPTION

RECEIVED BY D4 CONSTRUCTION
DATE: 05/23/2022

MECHANICAL
SCHEDULES

M200

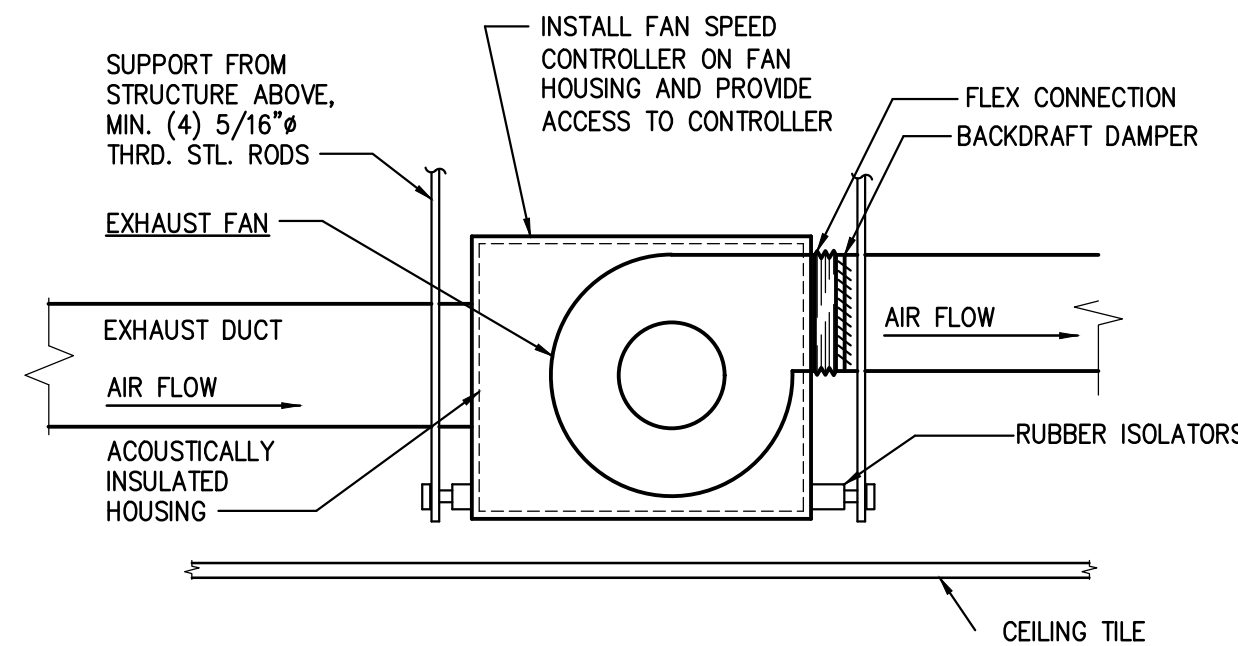
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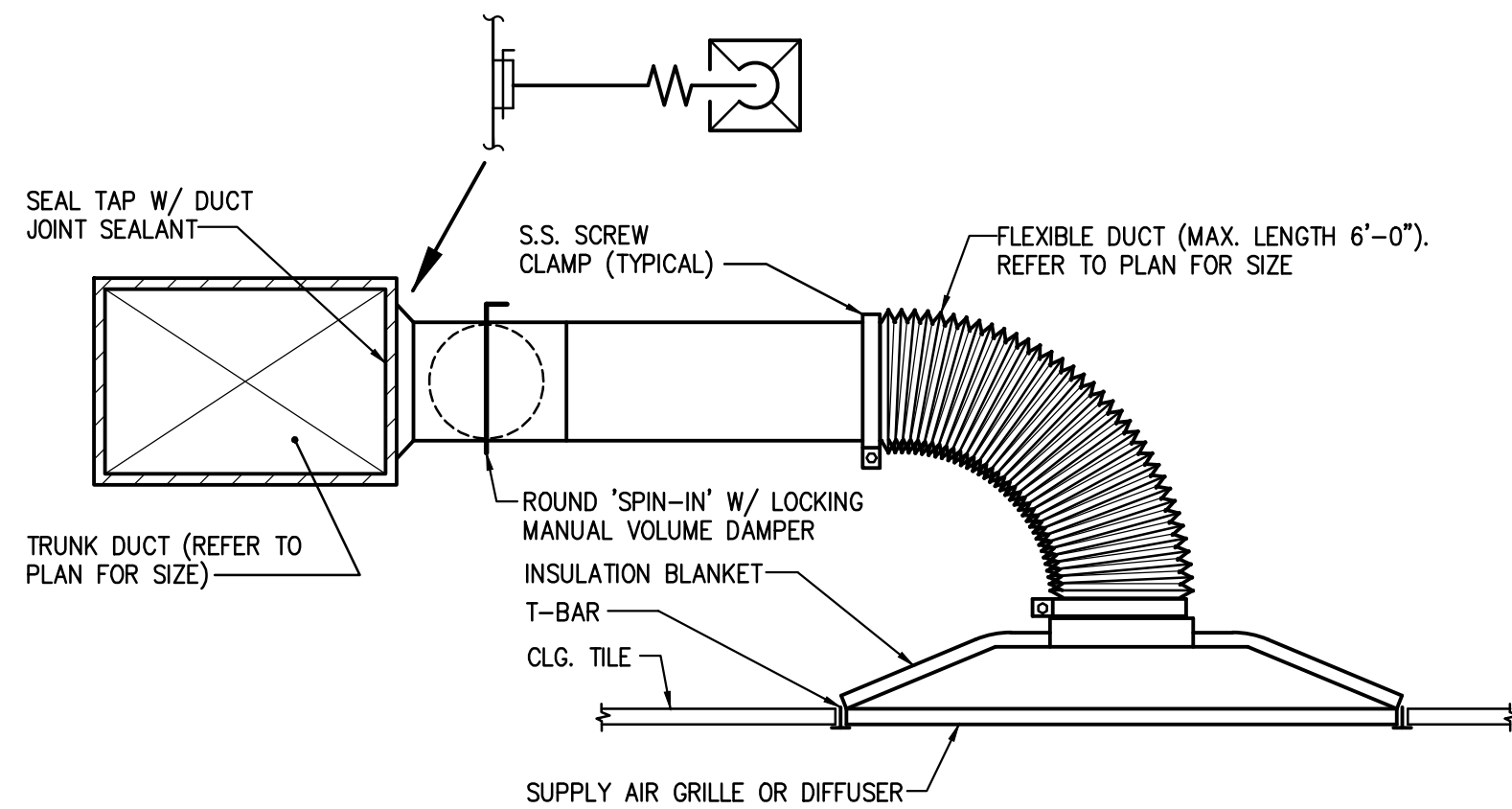
SECTION 15000 – MECHANICAL SPECIFICATIONS GENERAL

1. GENERAL CONDITIONS:
a. CONFORM TO APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, AND THE GENERAL REQUIREMENTS.
b. DEFINITIONS: FURNISH MEANS TO SUPPLY AND DELIVER TO PROJECT SITE, READY FOR INSTALLATION. INSTALL MEANS TO PLACE IN POSITION AND MAKE CONNECTIONS FOR SERVICE OR USE. PROVIDE MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR INTENDED USE.
2. SCOPE OF WORK:
a. PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, TOOLS, ERECTION, HOISTING, AND INCIDENTALS REQUIRED TO PROVIDE HEATING, VENTILATION, GREASE EXHAUST, AND AIR CONDITIONING SYSTEMS.
b. PROVIDE EQUIPMENT INDICATED ON THE DRAWINGS, AND AS REQUIRED FOR A COMPLETE FUNCTIONING SYSTEM.
3. RULES AND REGULATIONS:
a. ALL WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE GOVERNING CITY. PURCHASE ALL PERMITS ASSOCIATE WITH THE WORK. OBTAIN ALL INSPECTIONS REQUIRED BY CODE.
b. WHERE THE STANDARDS OF THE DRAWINGS AND SPECIFICATIONS FOR MATERIALS AND/OR WORKMANSHIP ARE HIGHER THAN THE REQUIREMENTS CITED ABOVE, THE DRAWINGS AND SPECIFICATIONS SHALL TAKE PRECEDENCE.
4. WARRANTY:
a. PROVIDE LABOR AND MATERIALS TO REPAIR OR REPLACE DEFECTIVE PARTS AND MATERIALS AS REQUIRED FOR ONE YEAR AFTER OWNER ACCEPTANCE OF THE COMPLETED PROJECT. PROVIDE A SEPARATE LINE ITEM DEDUCT AMOUNT ON THE PROPOSAL FORM TO DELETE WARRANTY SERVICE, AT THE OWNER'S OPTION.
5. COORDINATION:
a. COORDINATE WITH THE WORK OF OTHER SECTIONS, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND WITH THE CONSTRAINTS OF THE EXISTING CONDITIONS OF THE PROJECT SITE.
b. CONTRACTOR SHALL EXECUTE WORK SO THAT PROGRESS WILL HARMONIZE WITH THAT OF THE OTHER TRADES, AND SO THAT ALL WORK MAY PROCEED AS EXPEDITIOUSLY AS POSSIBLE.
c. TO THE FULLEST EXTENT POSSIBLE, THE WORK UNDER THIS CONTRACT HAS BEEN INDICATED ON THE DRAWINGS IN SUCH POSITIONS AS TO SUIT AND ACCOMMODATE THE WORK OF OTHER TRADES, BUT THE WORK AS INDICATED IS LARGELY DIAGRAMMATIC AND THE FINAL POSITIONS OF ALL EQUIPMENT AND MATERIALS CANNOT BE INDICATED. THEREFORE, THE CONTRACTOR IS DIRECTLY RESPONSIBLE FOR THE CORRECT PLACEMENT OF WORK AND THE PROPER LOCATION AND CONNECTION OF WORK IN RELATION TO WORK OF OTHER TRADES.
6. LOCATION AND SPACE REQUIREMENTS
a. VERIFY SPACES, DIMENSIONS, LOCATIONS, AND CONDITIONS REQUIRED FOR INSTALLATION OF ALL HVAC AND RELATED WORK.
b. OBTAIN NECESSARY ROUGH-IN DATA AND DIMENSIONS OF FIXTURES, EQUIPMENT, AND RELATED EQUIPMENT. OWNER FURNISHED EQUIPMENT, AND EQUIPMENT FURNISHED UNDER OTHER SECTIONS.
c. NO EXPOSED DUCTS WILL BE PERMITTED TO SHOW ON INTERIOR OF BUILDING IN FINISHED ROOMS, WHERE THIS WOULD OCCUR, EXPOSED PORTION SHALL BE FURRED AND PLASTERED, OR CASED WHEN NOT ADJACENT TO THE WALL.
d. MAINTAIN SUFFICIENT CLEARANCE AND ACCESSIBILITY. INTERFERENCES BETWEEN WORK OF VARIOUS TRADES WILL BE RESOLVED BY THE ARCHITECT AND OWNER IN CONSULTATION WITH THE ENGINEER. RELOCATE OR OFFSET WORK AS REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES. MAINTAIN CEILING HEIGHTS AND AVOID EXCESSIVE FURRING REQUIREMENTS.
e. IF NOT PRECISELY LOCATED ON DRAWINGS, OBTAIN LOCATION OF FIXTURES, EQUIPMENT, AND APPLIANCES, FROM ARCHITECT AND FOOD SERVICE EQUIPMENT SUPPLIER. NO DEVIATIONS WILL BE ALLOWED.
7. MEASUREMENTS:
a. ALL DIMENSIONS OF WORK OF OTHER TRADES WHICH REQUIRE VERIFICATION SHALL BE VERIFIED FROM SHOP DRAWINGS OF SUCH WORK OR FROM ACTUAL MEASUREMENTS AT BUILDING, WHICHEVER IS THE MOST ACCURATE AND PRACTICAL IN THE JUDGMENT OF THE CONTRACTOR, WHO SHALL BE RESPONSIBLE FOR THE ACCURACY OF SUCH MEASUREMENTS.
PRODUCTS
1. GENERAL MATERIALS:
a. ALL MATERIALS SHALL CONFORM TO APPLICABLE ASHRAE AND SMACNA STANDARDS
b. BRANDS OF MATERIALS MENTIONED ARE USED AS A STANDARD AND REQUESTS FOR SUBSTITUTIONS WILL BE CONSIDERED WHEN SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE SUPPLEMENTARY GENERAL CONDITIONS.
c. APPROVED EQUAL REFERS TO MATERIALS WHICH, IN THE OPINION OF THE ENGINEER, ARE SIMILAR AND EQUAL IN ALL RESPECTS TO MATERIAL OR METHOD INDICATED ON DRAWINGS OR AS SPECIFIED. ENGINEER IS NOT REQUIRED TO PROVE THAT A SUBSTITUTE MATERIAL IS NOT EQUAL TO SPECIFIED MATERIAL. CONTRACTOR SHALL SUBMIT IN WRITING TO ENGINEER EVIDENCE SUPPORTING HIS CONTENTION THAT SUBSTITUTED MATERIAL IS EQUAL TO MATERIAL SHOWN ON DRAWINGS OR SPECIFIED. ENGINEER RESERVES RIGHT TO REJECT MATERIALS AND WORKMANSHIP, EITHER BEFORE OR AFTER INSTALLATION, THAT ARE NOT SHOWN ON DRAWINGS OR SPECIFICATIONS, OR SUBSTITUTIONS THAT HAVE NOT BEEN APPROVED BY ENGINEER IN WRITING.
2. DUCTWORK:
a. DUCT DIMENSIONS: UNLESS OTHERWISE NOTED, DUCT DIMENSIONS ON THE DRAWINGS ARE INSIDE CLEAR DIMENSIONS.
b. SHEET METAL DUCTWORK: PROVIDE SHEET METAL DUCTWORK FABRICATED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS, FOR 1" W.G. PRESSURE CLASS, SEAL CLASS "A". SHEET METAL SHALL BE GALVANIZED SHEET STEEL OF LOCK FORMING QUALITY, ASTM-A525. ALL ANGLE IRON USED FOR SUPPORT SHALL BE GALVANIZED. CONNECTIONS TO WALLS OR FLOOR SHALL BE AIR TIGHT WITH ANGLE IRON AND CAULKING. SEAL ALL DUCT SEAMS, TRANSVERSE, AND LONGITUDINAL. AIR TIGHT. PROVIDE TURNING VANES AT ALL 90-DEGREE ELBOWS.
c. ROUND SHEET METAL DUCT: PROVIDE SPIRAL SEAM (ALL SIZES) OR SNAP LOCK (DUCT SIZES UP TO 10") GALVANIZED STEEL COMPLYING WITH SMACNA STANDARDS. SPIRAL SEAM DUCTWORK SHALL HAVE SMACNA SEAM TYPE RL-1.
d. FLEXIBLE DUCT: PROVIDE FACTORY ASSEMBLED CLASS 1 AIR DUCT (UL 181) WITH 1" THICK 1 PCF FIBERGLASS INSULATION AND REINFORCED OUTER PROTECTIVE COVER/VAPOR BARRIER. FLEXIBLE DUCT SHALL MEET NFPA 90A WITH FLAME SPREAD UNDER 25, SMOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR MINIMUM 2" W.G. PRESSURE AND 0 TO 250-DEGREE F TEMPERATURE. USE TWIST-LOCK CONICAL TAP COLLARS AT CONNECTIONS INTO SHEET METAL DUCTWORK. MAXIMUM EXTENDED LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 6 FEET.
e. EXPOSED DUCTWORK: EXPOSED DUCTWORK SHALL BE CLEANED OF DEBRIS AND OIL, THEN WIPED DOWN WITH VINEGAR OR OTHER SURFACE PREPARING CHEMICAL TO PREPARE DUCT FOR PAINT.
f. DUCT SEALANT: PROVIDE POLYMERIC RUBBER TYPE SEALANT FOR USE ON BOTH INTERIOR LOCATED DUCTWORK AND DUCTWORK EXPOSED TO OUTDOOR CONDITIONS. SEALER SHALL HAVE HIGH BONDING STRENGTH FOR SURE, FIRST TIME SEALING OF JOINTS IN LOW, MEDIUM, AND HIGH PRESSURE DUCT SYSTEMS.
g. DUCT TURNING VANES: PROVIDE FABRICATED TURNING VANES AND VANE RUNNERS, CONSTRUCTED IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". PROVIDE TURNING VANES CONSTRUCTED OF CURVED BLADES, SUPPORTED WITH BARS PERPENDICULAR TO BLADES, AND SET INTO SIDE STRIPS SUITABLE FOR MOUNTING IN DUCTWORK. FOLLOW SMACNA GUIDELINES FOR

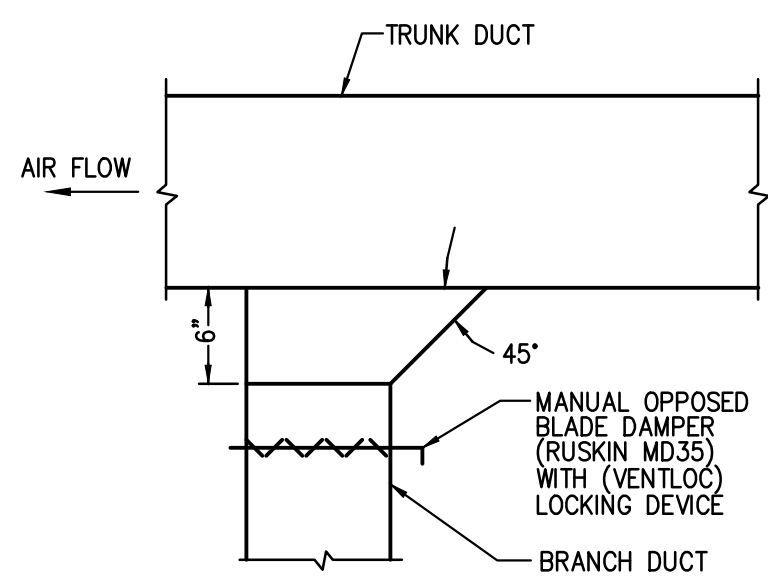
SPACING SUPPORT, AND CONSTRUCTION. ALL BLADES SHALL BE DOUBLE THICKNESS AIRFOIL TYPE.
3. DUCTWORK ACCESSORIES:
a. FLEXIBLE DUCT CONNECTORS: PROVIDE UL LABELED 30 OUNCE NEOPRENE COATED FIBERGLASS FABRIC DUCT CONNECTORS.
b. DUCT ACCESS DOORS: PROVIDE HINGED ACCESS DOORS IN DUCTWORK WHERE REQUIRED FOR ACCESS TO EQUIPMENT. PROVIDE INSULATED ACCESS DOORS FOR INSULATED DUCTWORK. CONSTRUCT OF SAME OR THICKER GAUGE SHEET METAL AS DUCT IN WHICH IT IS INSTALLED. PROVIDE FLUSH FRAMES FOR UNINSULATED DUCTS, AND EXTENDED FRAMES FOR EXTERNALLY INSULATED DUCTS. PROVIDE CONTINUOUS HINGE ON ONE SIDE, WITH ONE HANDLE-TYPE LATCH FOR ACCESS DOORS 12" HIGH AND SMALLER, AND TWO HANDLE-TYPE LATCHES FOR LARGER ACCESS DOORS.
c. ROUND VOLUME DAMPERS: PROVIDE MINIMUM 20 GAUGE GALVANIZED STEEL FRAME AND BLADES, MINIMUM 3/8" SQUARE STEEL AXLE, MOLDED SYNTHETIC BEARINGS, WITH LOCKING POSITION REGULATOR. REGULATOR SHALL BE POSITIONED WITH SHEET METAL BRACKET BEYOND DUCT COVERING. WHERE POSITIONING REGULATOR IS NOT ACCESSIBLE, PROVIDE COUPLING AND EXTENSION ROD WITH REGULATOR FOR CEILING OR WALL INSTALLATION, AS REQUIRED.
d. RECTANGULAR VOLUME DAMPERS: PROVIDE MINIMUM 16 GAUGE GALVANIZED STEEL CHANNEL FRAME, 16 GAUGE GALVANIZED STEEL BLADES, MINIMUM 1/2" HEXAGONAL AXLE, BOLDED SYNTHETIC BEARINGS, WITH 3/8" SQUARE PLATED STEEL CONTROL SHAFT. LINKAGES SHALL BE CONCEALED IN THE FRAME. OPERATING SHAFT SHALL EXTEND BEYOND FRAME AND DUCT TO A LOCKING QUARRANT WITH ADJUSTABLE LEVER. MAXIMUM BLADE WIDTH SHALL NOT EXCEED 6".
4. FIRE DAMPERS/SMOKE DAMPERS:
a. CURTAIN FIRE DAMPERS: PROVIDE CURTAIN TYPE FIRE DAMPERS, SUITABLE FOR VERTICAL OR HORIZONTAL INSTALLATION AS REQUIRED FOR THE LOCATION SHOWN. CURTAIN FIRE DAMPERS SHALL HAVE MINIMUM 24 GAUGE GALVANIZED STEEL BLADES, COMPLETELY OUT OF THE AIR STREAM. CURTAIN FIRE DAMPERS SHALL CONFORM TO UL STANDARD 555, WHICH INCLUDES TESTING TO CLOSE UNDER DYNAMIC AIRFLOW CONDITIONS, AND SHALL BE UL LABELED AS A DYNAMIC RATED FIRE DAMPER. DAMPERS SHALL BE 1-1/2 OR 3 HOUR RATED AS REQUIRED BY LOCATION, AND SHALL HAVE 212-DEGREE F FUSIBLE LINK.
b. CEILING FIRE DAMPERS: PROVIDE CEILING FIRE DAMPERS CONSTRUCTED AND TESTED IN ACCORDANCE WITH CURRENT EDITION OF UL STANDARD 555C. CEILING FIRE DAMPERS SHALL HAVE MINIMUM 20 GAUGE GALVANIZED STEEL BLADES, WITH UL CLASSIFIED INSULATION, AND MINIMUM 20 GAUGE GALVANIZED STEEL FRAMES. CEILING FIRE DAMPERS SHALL HAVE A 212-DEGREE F FUSIBLE LINK. PROVIDE DIFFUSER RADIATION SHIELDS CONSTRUCTED OF REFRACTORY CERAMIC FIBER AS APPLICABLE.
c. COMBINATION FIRE/SMOKE DAMPERS: PROVIDE COMBINATION FIRE/SMOKE DAMPERS CONSTRUCTED AND TESTED IN ACCORDANCE WITH CURRENT EDITION OF UL STANDARD 555S. COMBINATION FIRE/SMOKE DAMPERS SHALL HAVE GALVANIZED STEEL AIRFOIL BLADES WITH SILICONE RUBBER BLADE SEALS AND FLEXIBLE STAINLESS STEEL JAMB SEALS. FRAMES SHALL BE MINIMUM 16 GAUGE GALVANIZED STEEL. AXLES SHALL BE MINIMUM 1/2" PLATED STEEL. PROVIDE 212-DEGREE F FUSIBLE LINK. PROVIDE OPPOSED BLADE CONFIGURATION. LINKAGES SHALL BE CONCEALED IN THE FRAME. LEAKAGE RATING SHALL BE UL 555S CLASS I (4 CFM/SF AT 1.0" W.G.). PROVIDE FACTORY INSTALLED ACTUATOR, LOCATED OUT OF THE AIR STREAM. COMBINATION FIRE/SMOKE DAMPERS SHALL BE POWERED OPEN, SPRING CLOSED.
d. PROVIDE APPROVED FIRE DAMPERS AT ALL LOCATIONS INDICATED ON THE PLANS AND/OR REQUIRED BY BUILDING CODE.
e. FIRE DAMPERS AND FUSIBLE LINKS SHALL BE ACCESSIBLE THROUGH ACCESS DOORS OR PANELS IN DUCTS AND ACCESS PANELS IN THE BUILDING STRUCTURE OR CEILING.
f. FIRE DAMPERS FURNISHED AS AN INTEGRAL PART OF DIFFUSERS OR GRILLES SHALL BE ACCESSIBLE BY MEANS OF REMOVABLE GRILLE OR DIFFUSER FACE.
5. DUCT INSULATION:
a. BLANKET TYPE DUCT INSULATION: PROVIDE MINIMUM 1-1/2" THICK BLANKET TYPE FIBERGLASS INSULATION COMPLYING WITH ASTM C-553, TYPE II, WITH FACTORY APPLIED KRAFT BONDED TO ALUMINUM FOIL, REINFORCED WITH FIBERGLASS VAPOR BARRIER/JACKET. JACKET SHALL CONFORM TO ASTM C-1136, TYPE II.
b. CONCEALED CONDITIONED SUPPLY AND RETURN AIR DUCTS SHALL BE INSULATED WITH BLANKET TYPE INSULATION, INSTALLED IN ACCORDANCE WITH INSULATION MANUFACTURER'S INSTALLATION INSTRUCTIONS.
c. CONDITIONED SUPPLY AIR AND RETURN AIR DUCTS AND PLENUMS EXPOSED TO VIEW OR WHERE REQUIRED FOR ACOUSTICAL PURPOSES SHALL BE LINED WITH DUCT LINER. INSTALL DUCT LINER IN ACCORDANCE WITH LINER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. CONTROL SYSTEMS:
a. PROVIDE COMPLETE CONTROL SYSTEMS, INCLUDING ALL INSTRUMENTS, CONTROLS, THERMOSTATS, TEMPERATURE SENSORS, LOW VOLTAGE WIRING, TRANSFORMERS, AND ALL NECESSARY APPURTENANCES. LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT IN ACCORDANCE WITH ELECTRICAL SPECIFICATIONS.
EXECUTION
1. TESTING, ADJUSTING, AND BALANCING:
a. TEST, ADJUST, AND BALANCE ALL MECHANICAL SYSTEMS AND EQUIPMENT TO ENSURE PROPER BALANCE AND OPERATION. PERFORM TESTS IN ACCORDANCE WITH NEBB OR AABC AND ASHRAE STANDARDS. ELIMINATE NOISE AND VIBRATION, AND ENSURE PROPER FUNCTION OF CONTROLS. SUBMIT COMPLETED CERTIFIED TEST AND BALANCE REPORT TO OWNER'S REPRESENTATIVE. BALANCING CONTRACTOR SHALL BE AN INDEPENDENT NEBB OR AABC CERTIFIED TEST AND BALANCE CONTRACTOR. BALANCE ALL SYSTEMS TO WITHIN 5% OF AIR FLOWS INDICATED ON THE DRAWINGS, AND REPORT ALL DISCREPANCIES TO HVAC INSTALLER FOR CORRECTION. MARK FINAL BALANCE POSITIONS ON DAMPERS WITH PERMANENT MARKER. FINAL STORE BALANCE SHALL BE POSITIVE WITH RESPECT TO OUTDOORS.
2. VIBRATION AND NOISE
a. ELIMINATE VIBRATION AND NOISE FROM THE OPERATION OF FANS, MOTORS, AND EQUIPMENT TO THE EXTENT THAT THEY WILL NOT BE HEARD OUTSIDE OF THE ROOM IN WHICH INSTALLED. ADJUSTMENTS AND CHANGES TO PRODUCE SATISFACTORY QUIETNESS TO BE MADE WITHOUT EXPENSE TO OWNER.
3. OPERATING AND MAINTENANCE MANUALS
a. PROVIDE COMPLETE OPERATIONS AND MAINTENANCE MANUALS FOR ALL MECHANICAL EQUIPMENT INSTALLED ON PROJECT. INCLUDE INDEX OF EQUIPMENT, DIRECTORY INCLUDING SUPPLIER TELEPHONE NUMBERS, AND LIST OF RECOMMENDED SPARE PARTS. MANUALS SHALL BE FURNISHED IN "D-RING" BINDERS, CLEARLY LABELED "OPERATION AND MAINTENANCE MANUAL FOR CHECK CASHIERS". PROVIDE 2 COPIES OF EACH MANUAL. PROVIDE INSTRUCTIONS BY QUALIFIED TECHNICIAN TO OWNER'S REPRESENTATIVE.
4. CLEANING:
a. MACHINERY AND APPARATUS. THOROUGHLY CLEAN CEMENT AND PLASTER AND OTHER MATERIALS. REMOVE GREASE AND OIL SPOTS WITH CLEANING SOLVENT, CAREFULLY WIPE SURFACES CLEAN.
b. EXPOSED METAL WORK: CAREFULLY CLEAN WITH STEEL BRUSH, REMOVING ALL RUST AND SOILED SPOTS, AND PROVIDE TOUCH-UP PAINT AS REQUIRED.
c. FINAL CLEANING: REMOVE ALL SCRAPS AND INSTALLATION-RELATED DEBRIS FROM AREA. LEAVE ENTIRE INSTALLATION AREA IN A NEAT, CLEAN, AND READY-TO-USE CONDITION.



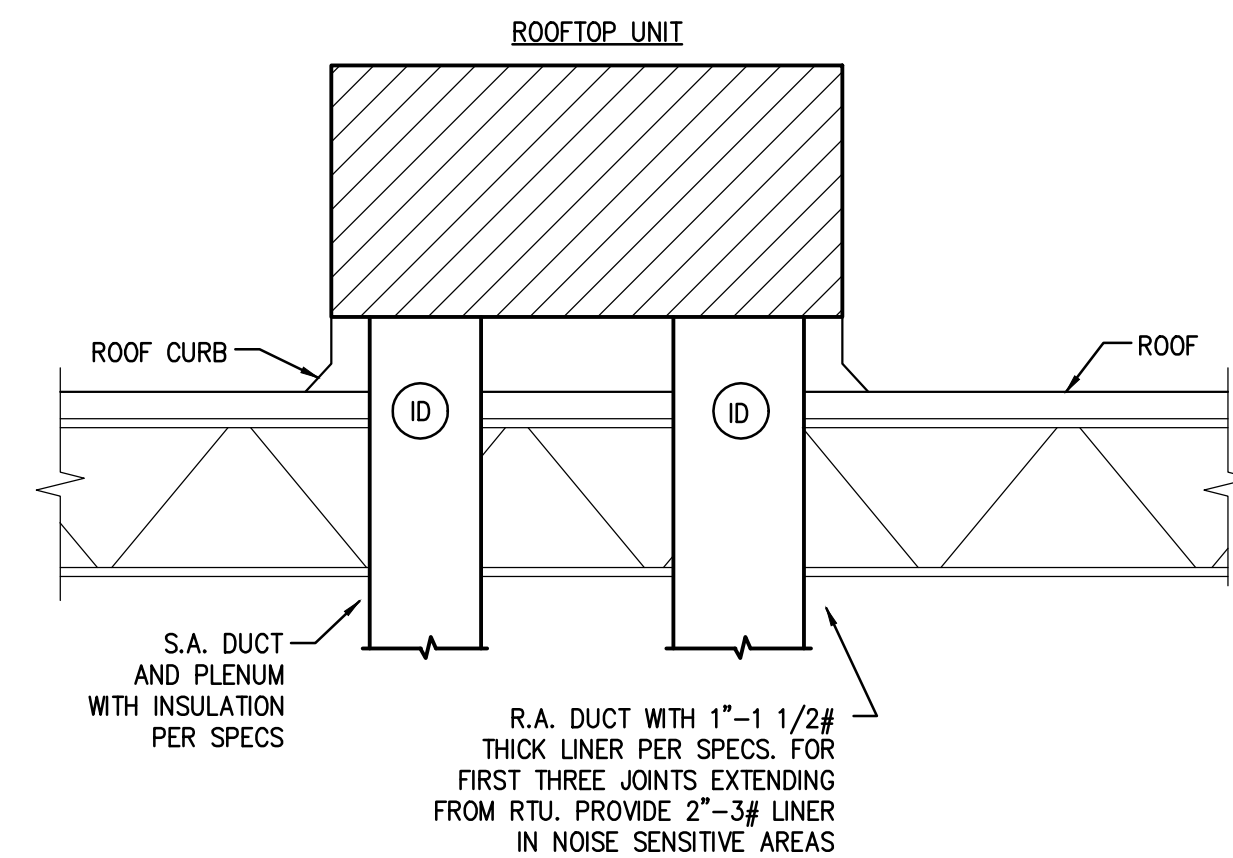
1 INLINE EXHAUST FAN DETAIL
SCALE: NONE



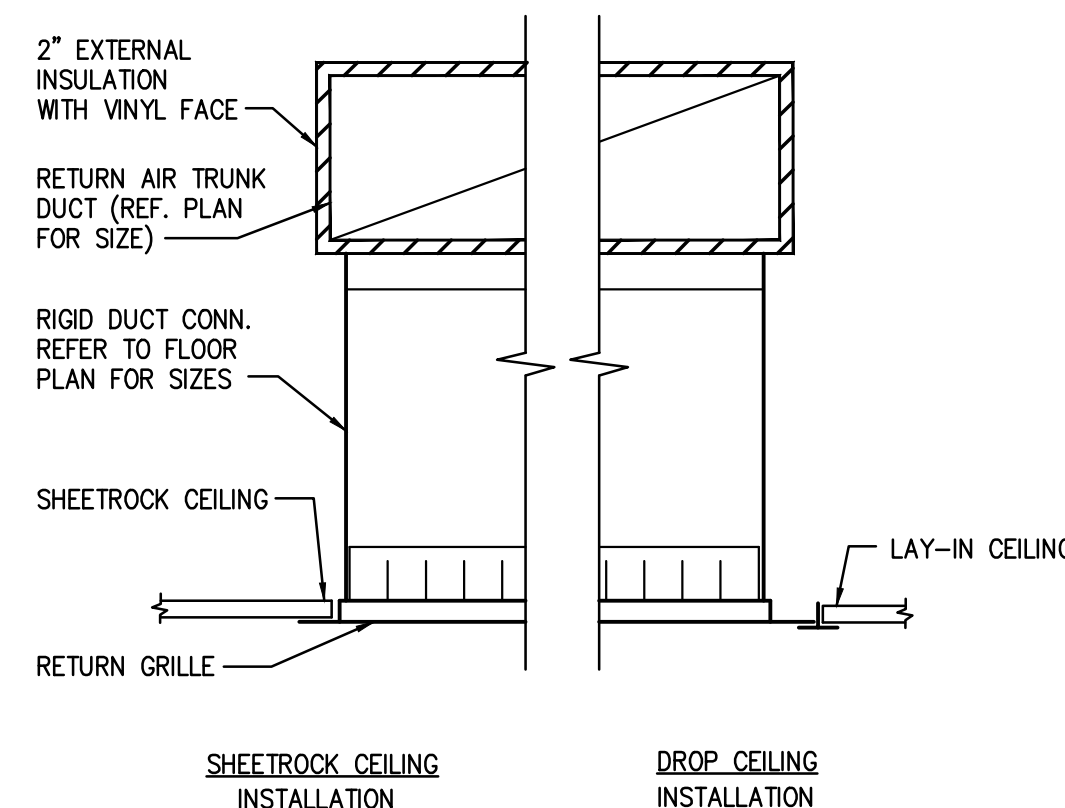
2 SPIN-IN & CLG. DIFFUSER DETAIL
SCALE: NONE



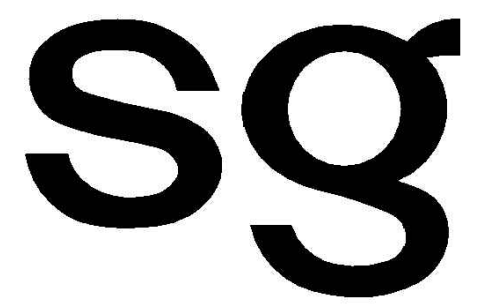
3 BRANCH TAKE OFF DETAIL
SCALE: NONE



4 ROOFTOP UNIT MOUNTING DETAIL
SCALE: NONE



5 RETURN AIR GRILLE DETAIL
SCALE: NONE



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5/23/22

2/16/22
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CHECKED BY: XX
PROJECT MANAGER: XX
SG DESIGN MANAGER: XX
SG CONSTR. MANAGER: XX
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TEMPLATE VERSION: 210604.03

REVISIONS
REV. DATE DESCRIPTION

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MECHANICAL DETAILS & SPECIFICATIONS

M300

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