

COMcheck Software Version 4.1.5.3
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: Sweetgreen
 Location: Southlake, Texas
 Climate Zone: 3a
 Project Type: New Construction

Construction Site:
 1111 East Southlake Blvd.
 #430
 Southlake, TX 76092

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
1	HVAC System 1 (Single Zone) Heating: 1 each - Duct Furnace, Gas, Capacity = 120 kBtu/h Proposed Efficiency = 80.00% Eo, Required Efficiency: 80.00% Eo Cooling: 1 each - Single Package DX Unit, Capacity = 70 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 11.20 EER, Required Efficiency: 11.00 EER + 12.6 IEER Fan System: Unspecified
2	Water Heater 1: Gas Instantaneous Water Heater, Capacity: 0 gallons, Input Rating: 199 kBtu/h w/ Circulation Pump No minimum efficiency requirement applies

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 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable code requirements listed in the Inspection Checklist.

Kevin Cline - Principal
 Name - Title *Kevin Cline* Signature 2022-03-31 Date

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COMcheck Software Version 4.1.5.3
Inspection Checklist

Energy Code: 2018 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 [PR2] ¹	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 [PR3] ¹	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 [PR9] ¹	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:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. Future connection to controls.	<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:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
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Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] ¹	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.
C404.5, C404.5.1, C404.5.2 [PL6] ¹	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.
C404.6.1, C404.6.2 [PL3] ¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<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] ¹	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.
C404.6.3 [PL7] ¹	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] ¹	Demand recirculation water systems 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.
C404.7 [PL8] ¹	Demand recirculation water systems 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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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] ¹	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	Requirement will be met.
C403.8.1 [ME65] ¹	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. See the Mechanical Systems list for values.
C403.8.3 [ME117] ¹	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.
C403.12.1 [ME71] ¹	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	<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] ¹	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.5.5 [ME113] ¹	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	<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 [ME59] ¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.7.1 [ME59] ¹	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	Exception: Systems with design outdoor air of less than 1200 cfm.
C403.7.2 [ME115] ¹	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.
C403.7.6 [ME141] ¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C403.7.4 [ME57] ¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

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Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116] ¹	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	Requirement will be met.
C403.11.1 [ME60] ¹	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2, 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.
C403.5, C403.5.1 [ME62] ¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3 [ME124] ¹	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3 [ME125] ¹	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.5.3 [ME126] ¹	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.4.1 [ME63] ¹	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 48°F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60°F and cooling setpoint >= 80°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C403.3.3 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	<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 [ME53] ¹	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] ¹	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.

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sweetgreen

3101 W. EXPOSITION BLVD.
 LOS ANGELES, CALIFORNIA 90018

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ARCHITECT OF RECORD:

HARLAN R. FAUST
 ARCHITECT

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 OMAHA, NE 68137-2805
 402.895.0878
 402.895.9561 FAX
 www.haarhitects.com

STAMP:

CONSTRUCTION
ISSUE SET

06/30/2022

Kevin Cline 6/15/22

PROJECT INFORMATION:
SOUTHLAKE
 PROJECT INFORMATION:
1111 EAST SOUTHLAKE BLVD.
#430
SOUTHLAKE TX 76092

DRAWN BY: XX
 CHECKED BY: XX
 PROJECT MANAGER: XX
 SG DESIGN MANAGER: XX
 SG CONSTR. MANAGER: XX
 PROJECT NO: 071721
 TEMPLATE VERSION: 210604.03

REVISIONS
 1. DATE DESCRIPTION
 03-31-22 REVISION #1
 2. 04-29-22 TPA OLO REVISION
 3. 06-15-22 HVAC RFI 1
 4. 06-23-22 PLAN REVISIONS

RECEIVED BY D4 CONSTRUCTION
 DATE: 07/05/2022

ENERGY
COMPLIANCE FORMS

M020

JFTE
James F. Turner
Engineers, L.P.
 Consulting Engineers
 8340 Meadow Rd., Suite 160
 Dallas, Texas 75231
 TEL: 214-750-2900 Job #: 1120
 TX REGISTRATION # 33249

DRAWN/DESIGN CAD/BJK OC/APPD WKC/WKC



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ARCHITECT OF RECORD:

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STAMP:

CONSTRUCTION
ISSUE SET

06/30/2022

6/15/22

PROJECT INFORMATION:
SOUTHLAKE
PROJECT INFORMATION:
**1111 EAST SOUTHLAKE BLVD.
#430
SOUTHLAKE TX 76092**

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PROJECT MANAGER: XX
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1 03-31-22 REVISION #1
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4 06-23-22 PLAN REVISIONS

RECEIVED BY D4 CONSTRUCTION
DATE: 07/05/2022

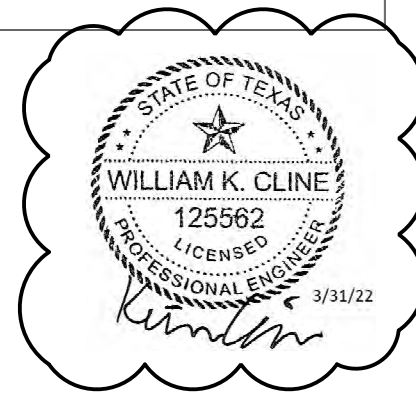
**ENERGY
COMPLIANCE FORMS**

M021

Additional Comments/Assumptions:

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26] ¹	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.7 [EL27] ¹	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.8.2.1 [EL28] ¹	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 [EL29] ¹	Total voltage drop across the combination of feeders and branch circuits <= 3%.	<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	Final Inspection	Complies?	Comments/Assumptions
C403.3.3 [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.
C403.4.1.2 [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 65°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 C403.11.3.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C404.6.1 [F12] ¹	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.1.1 [F157] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

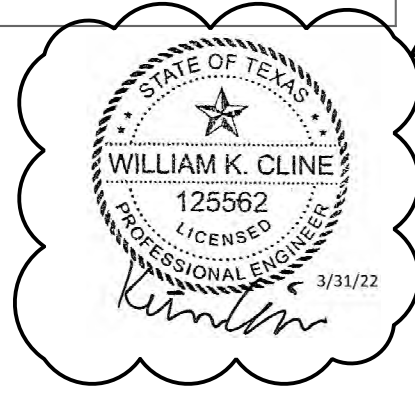


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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.1 [F128] ¹	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> 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.
C408.2.3.3 [F132] ¹	Economizers have 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.
C408.2.4 [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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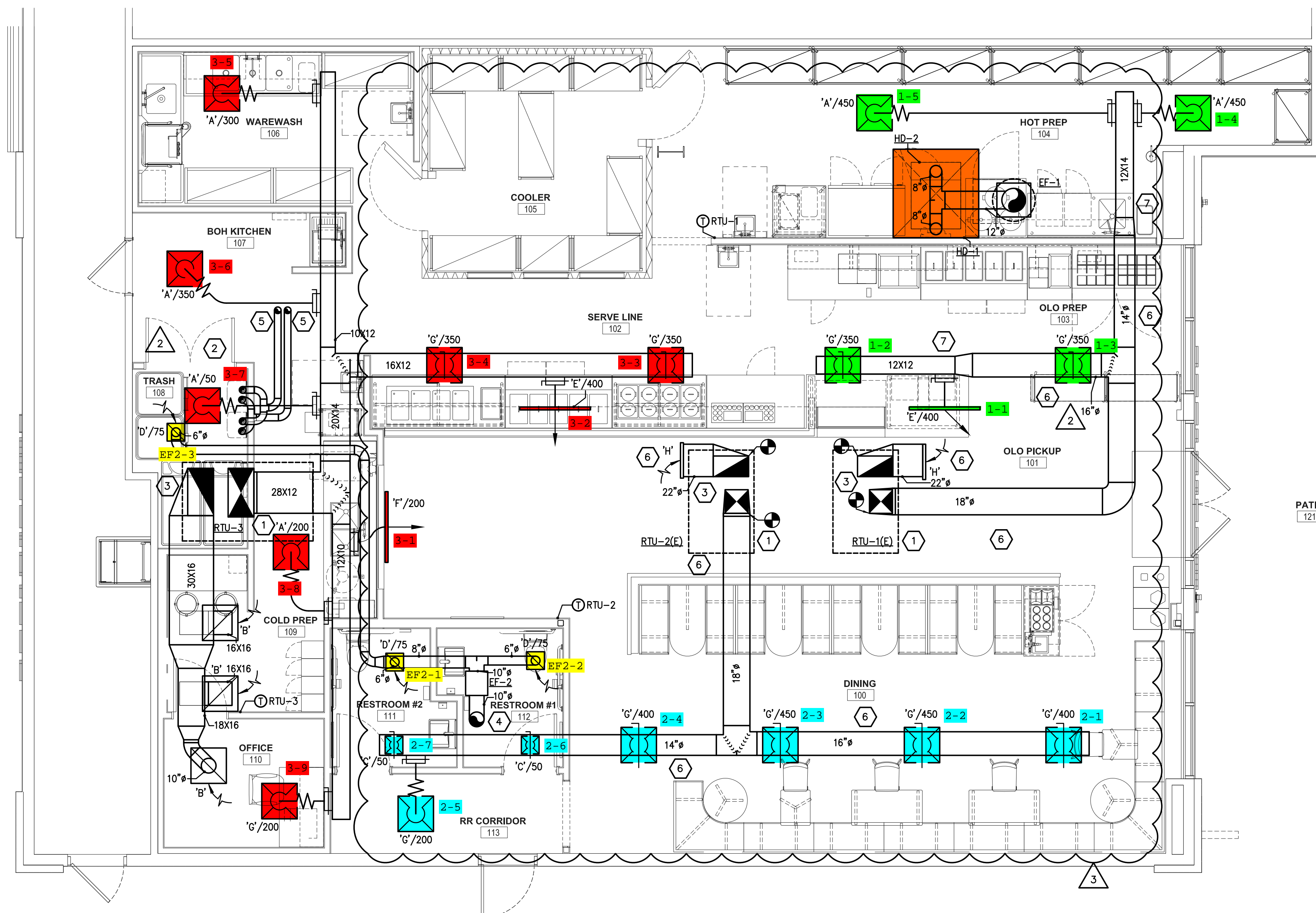
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Dallas, Texas 75231
TEL: 214-750-2900 Job #: 1120
TX REGISTRATION # 33249

DRAWN/DESIGN CAD/BJK OC/APPD WKC/WKC



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

MECHANICAL NOTES BY SYMBOL "○"

- 1 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.
- 2 UNDERCUT DOOR BY 1/2".
- 3 LOCATE DUCT SMOKE DETECTOR IN THE RETURN AIR DUCT DROP.
- 4 ROUTE 10" EXHAUST DUCT UP TO ROOF WITH ROOF CAP AND BIRD SCREEN. MAINTAIN AT LEAST 10' BETWEEN EXHAUST OUTLET AND OUTSIDE AIR INTAKES.
- 5 PROVIDE COMMON VENT SYSTEM FROM WATER HEATER INTAKE AND EXHAUST. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PER DETAIL 1/SHEET P-400. EXHAUST TERMINATION SHALL NOT BE WITHIN 10'-0" OF ALL MECHANICAL INTAKES AND OPERABLE OPENINGS INTO BUILDINGS. COORDINATE WITH SITE CONDITIONS AND WORK OF OTHER TRADES PRIOR TO ROUGH-IN.
- 6 EXPOSED DUCTWORK SHALL BE SPIRAL DOUBLE WALLED DUCTWORK.
- 7 TRANSITION TO RECTANGULAR DUCTWORK AFTER PENETRATING WALL.

GENERAL MECHANICAL NOTES:

1. 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.
2. 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.
3. GC SHALL ENSURE THAT ALL LIGHTS, SPRINKLER HEADS, DIFFUSERS AND OTHER CEILING DEVICES ARE CENTERED IN CEILING TILES AND IN BETWEEN LIGHT FIXTURES.
4. ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
5. ALL DUCTWORK TO BE EXTERNALLY INSULATED PER SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE PLANS.
6. PROVIDE INSULATION BLANKETS AT ALL DIFFUSERS.
7. ALL EXPOSED DUCTWORK SHALL BE SUPPORTED BY ALL-THREAD ROD, SHALL BE INTERNALLY LINED AND SHALL BE PAINTED PER OWNER REQUIREMENTS.
8. 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.
9. UNIT LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. COORDINATE EXACT LOCATION WITH STRUCTURE PRIOR TO ROUGH-IN.
10. 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.
11. ALL BRANCH DUCTS ARE TO BE THE SAME SIZE AS DIFFUSER NECK UNLESS OTHERWISE NOTED. SEE DIFFUSERS RUNOUT SIZING CHART.
12. MAINTAIN ALL OUTSIDE AIR INTAKE OPENINGS MINIMUM 10'-0" FROM ALL MECHANICAL VENTS, PLUMBING VENTS, AND EXHAUST FANS.
13. PROVIDE BALANCING DAMPERS AT ALL SUPPLY AIR RUNOUTS.
14. ALL DUCTWORK SHALL BE CONSTRUCTED, SEALED AND SUPPORTED PER LATEST SMACNA AND ASHRAE RECOMMENDATIONS.
15. PROVIDE ALL MECHANICAL EQUIPMENT WITH NEW LAMINATED IDENTIFICATION TAGS. LABEL TAGS AS SHOWN ON PLAN INCLUDING AREA SERVED.
16. ALL GAS FIRED EQUIPMENT TO BE U.L. LISTED AND A.S.A. APPROVED.
17. ALL EQUIPMENT SHALL BE ANCHORED TO THE BUILDING STRUCTURE.
18. 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.
19. REFER TO PLUMBING PLANS FOR CONDENSATE ROUTING.
20. EXCEPT AS REQUIRED BY IMC SECTIONS 602.2.1.1 THROUGH 602.2.1.6, MATERIALS WITHIN FLEX SECTIONS 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.
21. PROVIDE SLEEVES AND FLASHINGS REQUIRED FOR PIPING AND DUCTWORK PENETRATIONS. PROVIDE ESCUTCHEON PLATES FOR ALL PIPING PENETRATING FINISHED WALLS AND CEILINGS.
22. FIELD VERIFICATION OF EXISTING CONDITIONS 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.
23. PROVIDE FIRE AND/OR SMOKE DAMPERS IN ALL DUCT PENETRATIONS OF RATED WALLS WHETHER OR NOT SHOWN ON PLANS.
24. COORDINATE WITH ELECTRICAL TO PROVIDE POWER FOR ALL SMOKE DAMPERS WHETHER OR NOT SHOWN ON PLANS.
25. 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.
26. 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.
27. 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.



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06/30/2022
Kimlin

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SOUTHLAKE

PROJECT INFORMATION:
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CHECKED BY: XX
PROJECT MANAGER: XX
SG DESIGN MANAGER: XX
SG CONSTR. MANAGER: XX
PROJECT NO: 071721
TEMPLATE VERSION: 210604.03

REV.	DATE	DESCRIPTION
1	03-31-22	REVISION #1
2	04-29-22	TPA OLO REVISION
3	06-15-22	HVAC RFI 1
4	06-23-22	PLAN REVISIONS

RECEIVED BY D4 CONSTRUCTION
DATE: 07/05/2022

MECHANICAL PLAN

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TX REGISTRATION # 33329

M100

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DRAWN/DESIGN CAD/BJK OC/APP WKC/WKC

EXHAUST FAN SCHEDULE

MARK	EF-1	EF-2	
TYPE	UPBLAST	INLINE	
CFM	950	225	
EXTERNAL STATIC PRESSURE	0.7	0.7	
ELECTRICAL DATA	HORSEPOWER	.5	.167
	VOLTS/PHASE	115/1	115/1
	STARTER (SEE ELEC.)	-	-
RPM	1310	1758	
MANUFACTURER	CAPTIVEAIRE	CAPTIVEAIRE	
MODEL No.	DU50HFA	SIF9DD	
LOCATION	ROOF	CEILING	

NOTES:

- EF-1 TO BE CONTROLLED BY HOOD SWITCH. 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 U.N.O.	-	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	SLOT	SEE PLANS	4" LENGTH 2 SLOT 1" SLOT W.	-	TITUS	TBD-10	1,2,3,4,6
G	SUPPLY	CEILING	SEE DETAIL	24X24	-	TITUS	TMSA	1,2,3,4,6
H	RETURN	SIDEWALL	SEE PLANS	24X20	-	TITUS	35OFL	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.

RTU SCHEDULE

MARK	RTU-1	RTU-2	RTU-3		
NEW/EXISTING	EXISTING	EXISTING	NEW		
NEW/EXISTING	TOTAL CFM	2000	2000	2400	
	OUTSIDE AIR CFM	400	400	350	
	EXTERNAL STATIC PRESSURE (IN W.C.) APPROX.	1	1	1	
	HORSEPOWER	1.0	1.0	1.0	
	TOTAL CAPACITY (MBH) (APPROX. @ 80/67)	57.6	57.6	70.2	
COOLING DATA	SENSIBLE (MBH) (APPROX. @ 80/67)	46.0	46.0	51.8	
	AMBIENT TEMPERATURE °F	105	105	105	
	HEATING DATA (MBTU)	INPUT	80	80	120
		OUTPUT	64	64	96
	ELECTRICAL DATA	VOLTS	208	208	208
PHASE		3	3	3	
COMPRESSOR RLA		15.9	15.9	22.4	
COMPRESSOR LRA		110	110	149	
OUTDOOR FAN MOTOR FLA		2.5	2.5	3.5	
MCA	27.4	27.4	36.5		
MOCP (FUSE ONLY)	40	40	50		
MANUFACTURER & MODEL No.	TRANE YSC060E3RMA	TRANE YSC060E3RMA	TRANE YSC072E3RMA		
LOCATION	ROOF	ROOF	ROOF		
UNIT WEIGHT	613	613	710		
FEET/SEER	11.0/13.0	11.0/13.0	11.2/13.0		
NOTES	1-4	1-4	4-10		

NOTES:

- PROVIDE ALL REQUIRED MAINTENANCE FOR PROPER FUNCTIONING OF UNIT. CLEAN COILS, REPLACE BELTS AND FILTERS, AND LUBRICATE MOVING PARTS ETC.
- REBALANCE OUTSIDE AIR DAMPER TO ALLOW FOR AMOUNT OF OUTSIDE AIR IN SCHEDULE.
- CONFIRM SMOKE DETECTOR IN RETURN DUCT. PROVIDE NEW IF NOT EXISTING.
- PROVIDE WITH HONEYWELL VISIONPRO WI-FI 7 DAY PROGRAMMABLE THERMOSTAT.
- PROVIDE WITH NEW CURB 14" CURB.
- 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.
- PROVIDE NEW SMOKE DETECTOR IN RETURN DUCT.

AIR BALANCE SCHEDULE

EQUIPMENT MARK	VENTILATION AIR (CFM)	MAKEUP AIR (CFM)	EXHAUST AIR (CFM)	TOTAL (CFM)
RTU-1	+400	-	-	+400
RTU-2	+400	-	-	+400
RTU-3	+350	-	-	+350
EF-1	-	-	-950	-950
EF-2	-	-	-150	-150
TOTAL	+1150	-	-1100	50

VENTILATION CALC.

OCCUPANCY TYPE	AREA (SF)	OCCUPANT COUNT	CFM/PERSON	CFM/SF	TOTAL VENTILATION
OFFICE	66	1	5	.06	9 CFM
CORRIDOR	59	-	-	.06	4 CFM
DINING/SERVE LINE	1356	41	7.5	.18	552 CFM
TOTAL REQUIRED					565 CFM
TOTAL SUPPLIED					1150 CFM

DIFFUSER LEGEND

GRILLE MARK FOR GRILLE SIZE SEE DIFFUSER DETAIL	A' / 400	CUBIC FEET PER MINUTE
---	----------	-----------------------

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	
	1'x2' CEILING RETURN AIR OR EXHAUST GRILLE OR REGISTER			TAP	
	DOOR GRILLE			DAMPER	
	SUPPLY DUCT RISER			RETURN AIR OR TRANSFER AIR ARROW	
	RETURN, EXHAUST OR OUTSIDE AIR DUCT RISER			FLOW ARROW	
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE) ARROW SLOPES DN.)			EXISTING TO NEW CONNECTION	
	RECTANGULAR RADIUS ELBOW			FIRE AND SMOKE DAMPER	
	45° CONICAL TEE			SMOKE DAMPER	
	CONCENTRIC TRANSITION			FIRE DAMPER	
	SQUARE TO ROUND DUCT TRANSITION			CARBON MONOXIDE SENSOR	
	90° ELBOW DOWN (RECTANGULAR DUCT)			SMOKE DETECTOR	
	90° ELBOW UP (RECTANGULAR DUCT)			SENSOR	
	90° ELBOW DOWN (ROUND)			THERMOSTAT	
	90° ELBOW UP (ROUND)			HUMIDSTAT	
	OFFSET TO CHANGE ELEVATION (AT 30° WHEN POSSIBLE) ARROW SLOPES DN.)			ROOF MOUNTED EXHAUST FAN WITH EXHAUST DUCT	
	ROUND RADIUS ELBOW			BREAK	

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



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6/15/22
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PROJECT NO: 071721
TEMPLATE VERSION: 210604.03

REVISIONS
REV. DATE DESCRIPTION
1 03-31-22 REVISION #1
2 04-29-22 TPA OLO REVISION
3 06-15-22 HVAC RFI 1
4 06-23-22 PLAN REVISIONS

RECEIVED BY D4 CONSTRUCTION
DATE: 07/05/2022

MECHANICAL
SCHEDULES

M200

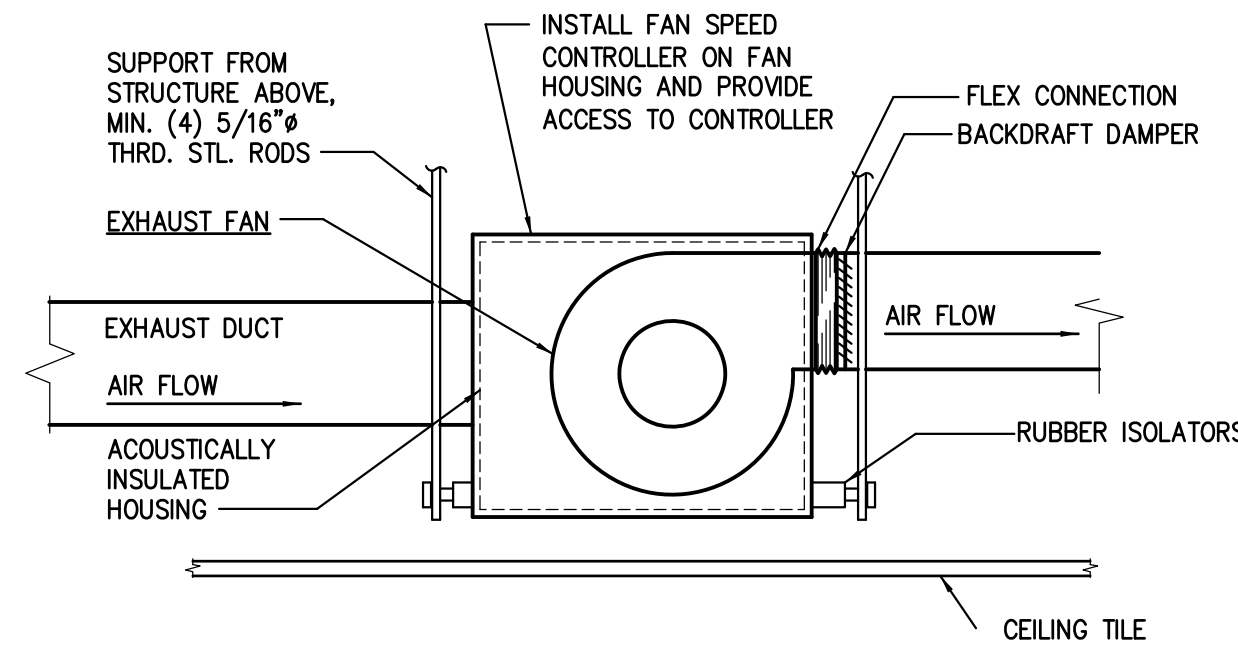
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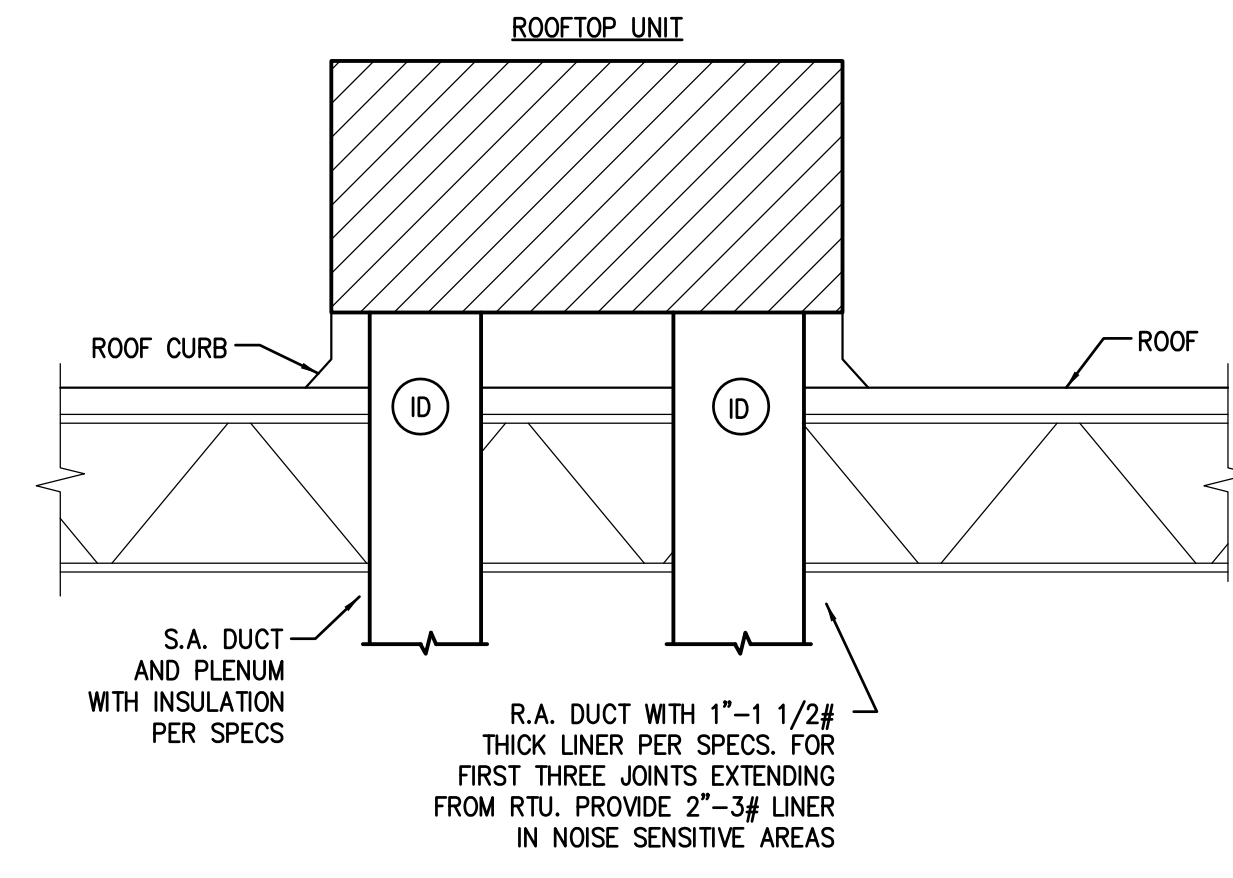
SECTION 15000 – MECHANICAL SPECIFICATIONS GENERAL

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, TENANT FURNISHED 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 VNEGAR 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 QUADRANT 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 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 CEILINGS.
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 DUCT 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.
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4. CLEANING:
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b. EXPOSED METAL WORK: CAREFULLY CLEAN WITH STEEL BRUSH, REMOVING ALL RUST AND SOILED SPOTS, AND PROVIDE TOUCH-UP PAINT AS REQUIRED.
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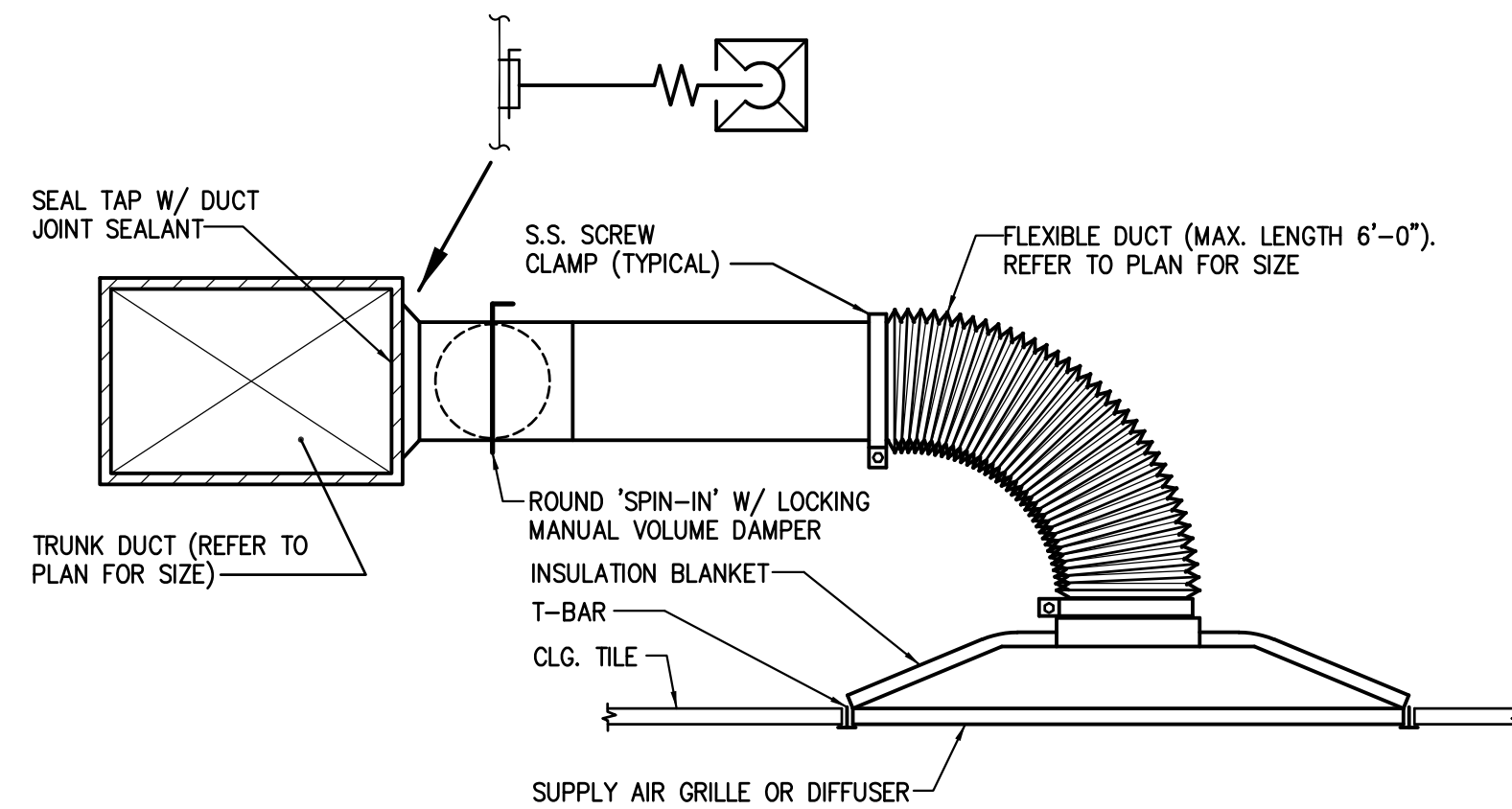
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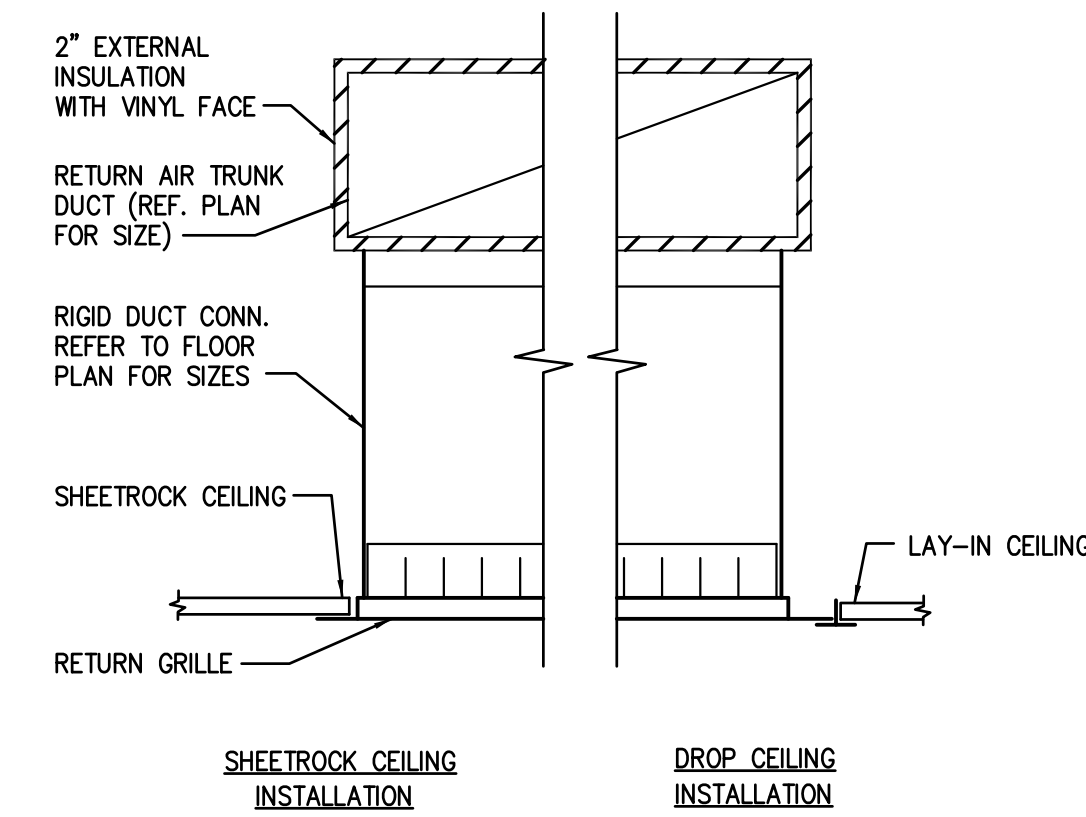
1. **INLINE EXHAUST FAN DETAIL**
NO SCALE



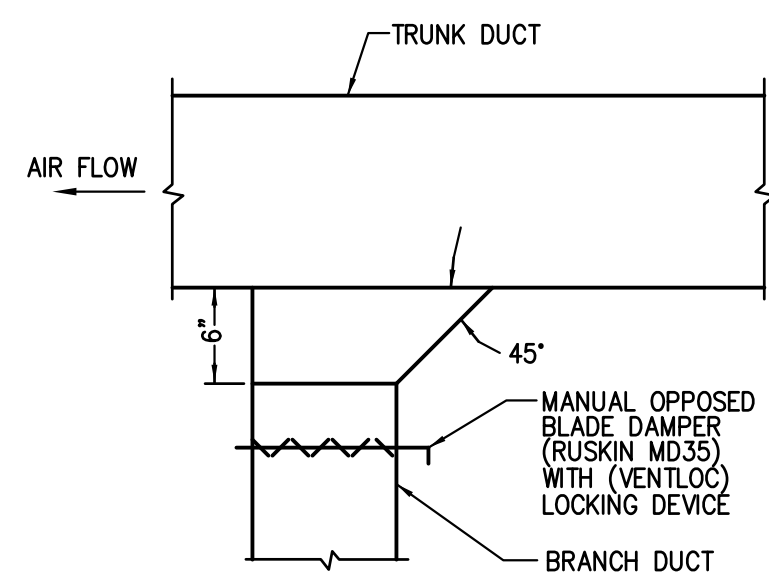
2. **ROOFTOP UNIT MOUNTING DETAIL**
NO SCALE



3. **SPIN-IN & CLG. DIFFUSER DETAIL**
NO SCALE



4. **RETURN AIR GRILLE DETAIL**
NO SCALE



5. **BRANCH TAKE OFF DETAIL**
NO SCALE



sweetgreen

3101 W. EXPOSITION BLVD.
LOS ANGELES, CALIFORNIA 90018

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ARCHITECT OF RECORD:

HARLAN R. FAUST
ARCHITECT

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CONSTRUCTION
ISSUE SET

06/30/2022

8/15/22
Kenton

PROJECT INFORMATION:
SOUTHLAKE

PROJECT INFORMATION:
**1111 EAST SOUTHLAKE BLVD.
#430
SOUTHLAKE TX 76092**

DRAWN BY: XX
CHECKED BY: XX
PROJECT MANAGER: XX
SG DESIGN MANAGER: XX
SG CONSTR. MANAGER: XX
PROJECT NO: 071721
TEMPLATE VERSION: 210604.03

REV.	DATE	DESCRIPTION
1	03-31-22	REVISION #1
2	04-29-22	TPA OLO REVISION
3	06-15-22	HVAC RFI 1
4	06-23-22	PLAN REVISIONS

RECEIVED BY D4 CONSTRUCTION
DATE: 07/05/2022

MECHANICAL
DETAILS &
SPECIFICATIONS

M300

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