



PROFICIENT
ENGINEERING
3150 Holcomb Bridge Road
Norcross, Georgia 30071
404.330.9798
PROJECT # 124587

Schroeder Architects
ARCHITECTURE
UNIVERSITY DESIGN
211 Perimeter Center Parkway, NE
Dunwoody, GA 30328
404.973.2626
SKY2021

DUCTED MINI SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT						OUTDOOR UNIT				COMBINED CAPACITIES	
MARK	SERVES	TYPE	MODEL/SERIES	NOMINAL TONS	CFM	MARK	MIN. SEER	MIN. HSPF	MODEL/SERIES	COOLING TOTAL (MBH)	HEATING @ 47°F (MBH)
MFCU-1	7BREW	HORIZONTAL DUCTED, HEAT PUMP	PEFY-P48NMAU	4.00	1300.00	MHP-1	16.5	11.0	FUMY-HP48NKMU1	48.0	48.0

NOTES (APPLY TO ALL):

A. BASIS OF DESIGN: TRANE/MITSUBISHI. EQUAL PRODUCTS: DAIKIN, LENNOX, SAMSUNG, LG, SANYO, CARRIER, JCI/YORK.

B. SINGLE POWER CONNECTION AT OUTDOOR UNIT. DISCONNECT SWITCHES PROVIDED AT THE INDOOR AND OUTDOOR UNITS BY ELECTRICAL SUBCONTRACTOR. REFER TO THE ELECTRICAL DOCUMENTS.

C. R-410A REFRIGERANT.

D. FACTORY CONDENSATE PUMP OR CONDENSATE LIFT MECHANISM.

E. WALL MOUNTED WIRED REMOTE CONTROLLER.

F. INVERTER DRIVEN COMPRESSOR.

G. MOUNT OUTDOOR UNIT ON ROOF.

H. REFRIGERANT LINE SET TOTAL EQUIVALENT LENGTH SHALL NOT EXCEED 100 FEET. SHOULD AN ALTERNATE MANUFACTURER BE USED, CONTRACTOR SHALL COMPLY WITH ALTERNATE MANUFACTURER LINE SET LIMITATIONS.

I. UNITS SHALL BE DOE 2023 COMPLIANT.

AIR CURTAIN SCHEDULE

MARK	MANUFACTURER	MODEL	FAN HP	CFM	VELOCITY (FFM)	V/FH/MZ	MCA	MCCP	WEIGHT (LBS)	REMARKS		
										1	2	3
AC-1	STRONGWAY	49947 - 36"	0.5	816	3600	120 / 1 / 60	2.8	20	34	X	X	

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS.

B. DESIGN IS BASED ON PRODUCTS BY STRONGWAY.

REMARKS (APPLY AS SCHEDULED):

1. PROVIDE WITH REMOTE CONTROL.

2. PROVIDE WITH FACTORY WALL BRACKET.

FAN SCHEDULE

MARK	DUTY	TYPE	CFM	E.S.F. (IN WG)	MOTOR (W / hp)	DRIVE	MAX. NOISE (SONES)	CONTROL BY	BASIS OF DESIGN MODEL	REMARKS		
										1	2	3
EF-A	EXHAUST	CEILING CABINET	70	0.5	100	DIRECT	2.0	SWITCHED WITH LIGHTS	GREENHECK SP	X	X	X

NOTES (APPLY TO ALL):

A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS.

B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, PENN BARRY.

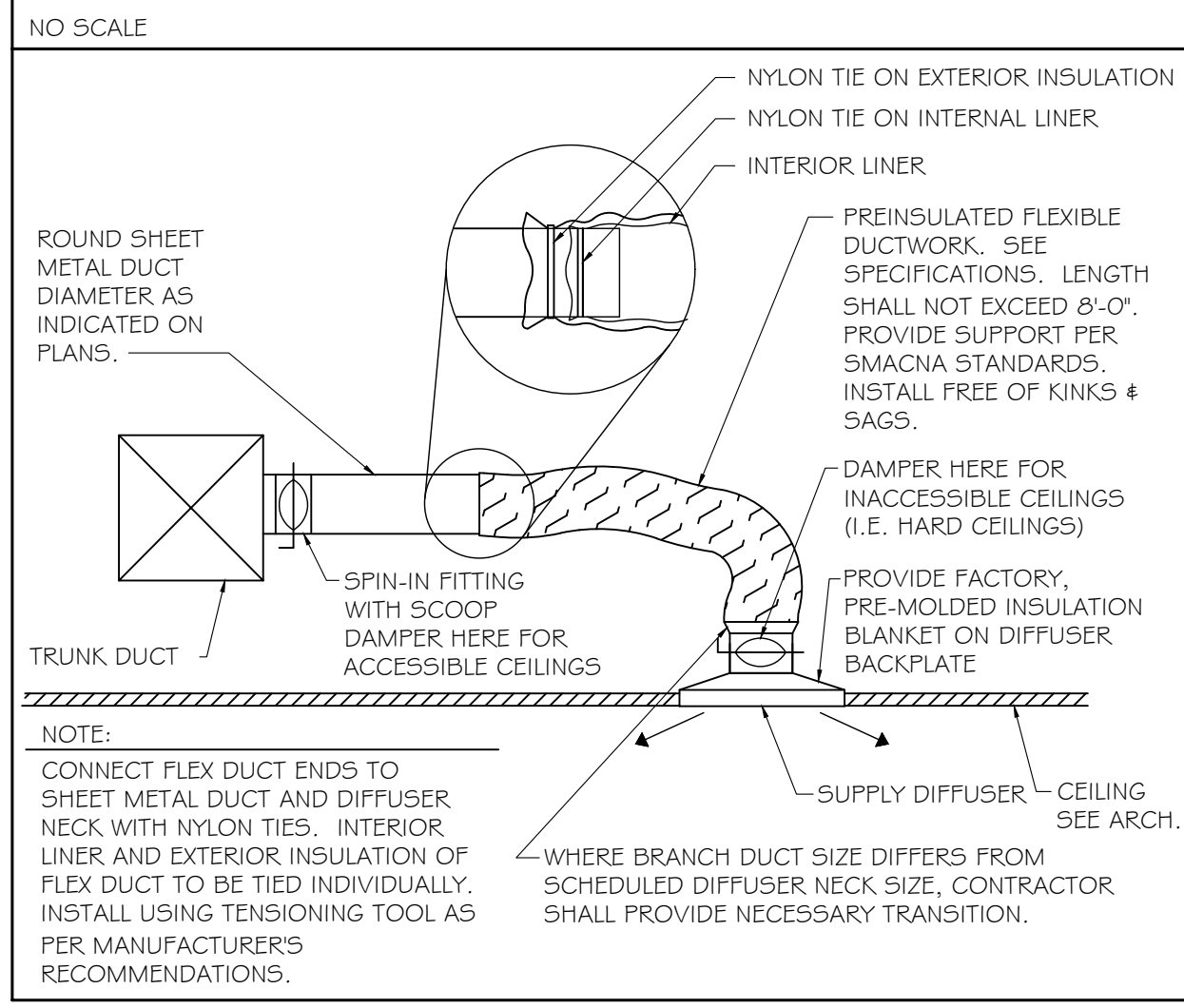
REMARKS (APPLY AS SCHEDULED):

1. INTEGRATED FAN SPEED CONTROLLER INSIDE FAN FOR BALANCING.

2. FACTORY DISCONNECT SWITCH/PLUG.

3. GRAVITY BACKDRAFT DAMPER.

DIFFUSER TAKE-OFF DETAIL



DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
RC2424	EGGCRATE GRILLE	24x24	24x24	25	TITUS 50F
SCPO6	SUPPLY CEILING PLAQUE DIFFUSER	24x24	6Ø	25	TITUS OMNI
SCPO8	SUPPLY CEILING PLAQUE DIFFUSER	24x24	8Ø	25	TITUS OMNI

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.

B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

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7 BREW DRIVE-THRU COFFEE
4045 FIVE FORKS - TRICKUM ROAD
LILBURN, GA 30047
GWINNETT COUNTY, GEORGIA



01.10.2025

ISSUED FOR CONSTRUCTION	Date	Description
Revision 1	11-18-24	
	01-10-25	

Sheet Name: SCHEDULES

Proj #: 230219 Issue Date: 11-18-24

Sheet No.: M0.2

Drawn By: SL Checked By: PK



COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: 124587 7brew Lilburn GA
Location: Lilburn, Georgia
Climate Zone: 3a
Project Type: New Construction

Construction Site: 4045 FIVE FORKS LILBURN, Georgia 30047
Owner/Agent: W. Matthew Davis Davis Companies 334-740-0413
Designer/Contractor: SCHROEDER ARCHITECTS

Additional Efficiency Package(s)

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

Mechanical Systems List

Quantity System Type & Description

- MFCU/MHP-1 (Single Zone):
Split System Heat Pump
Heating Mode: Capacity = 54 kBtu/h,
Proposed Efficiency = 12.00 HSPF, Required Efficiency = 8.20 HSPF
Cooling Mode: Capacity = 48 kBtu/h,
Proposed Efficiency = 22.60 SEER, Required Efficiency = 14.00 SEER
Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
Fans:
FAN 1 Supply, Constant Volume, 1260 CFM, 1.0 motor nameplate hp, 93.0 fan efficiency grade, 93.0 total fan efficiency, 93.0 design fan efficiency, fan exception: Single fan <= 5HP
- WH-1.2:
Electric Instantaneous Water Heater, Capacity: 0 gallons
Proposed Efficiency: 99.00 SL, %/h (if > 12 kW), Required Efficiency: inf SL, %/h (if > 12 kW)

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 COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: 124587 7brew Lilburn GA Report date: 05/12/25
Data filename: Page 1 of 8



COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

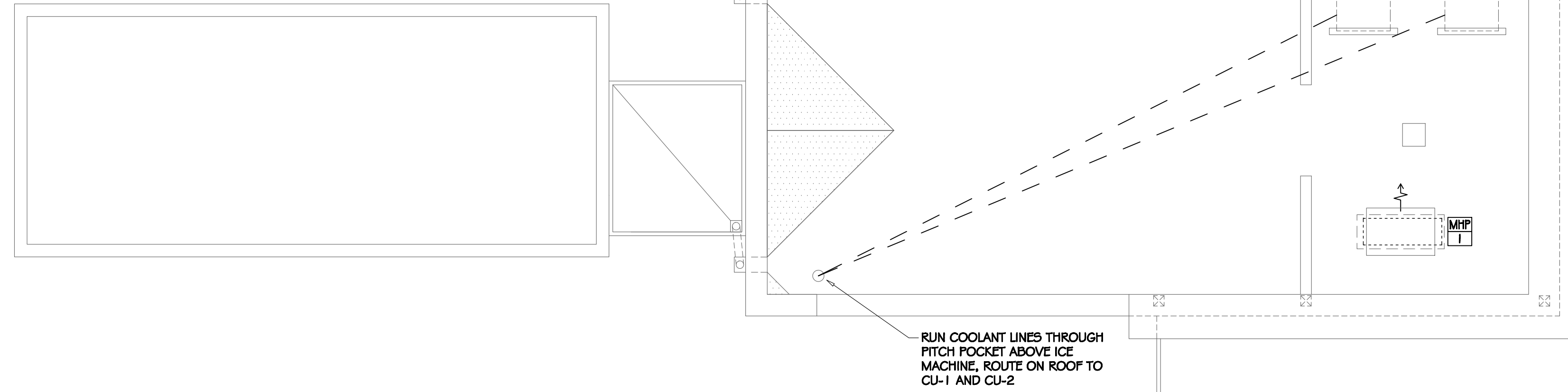
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference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

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2]	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]	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]	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)

Project Title: 124587 7brew Lilburn GA Report date: 05/12/25
Data filename: Page 2 of 8



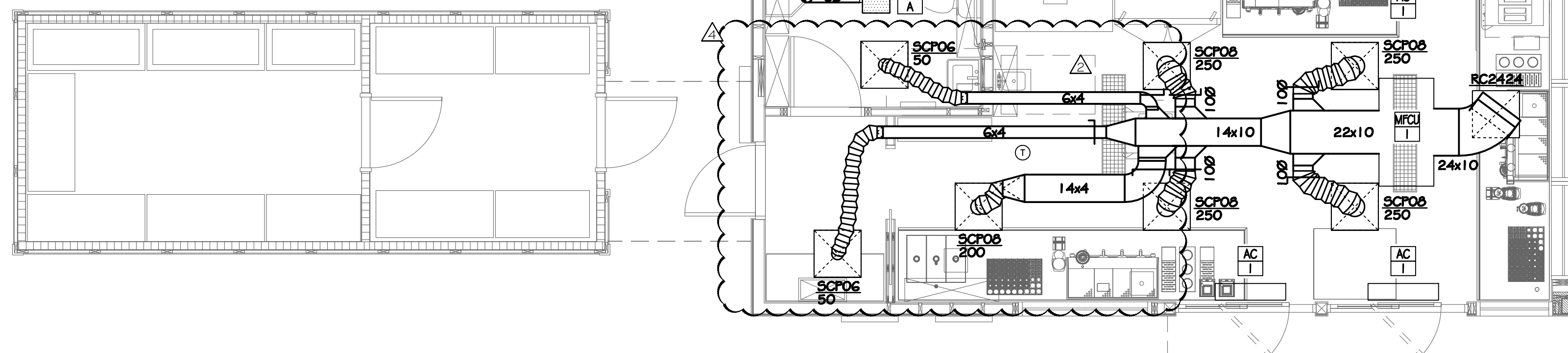
2 ROOF PLAN
M-1.1 1/4" = 1'-0"

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC ONLY; FINAL ROUTING OF DUCTWORK AND EQUIPMENT LOCATIONS SHALL BE DETERMINED IN THE FIELD. ADDITIONAL OFFSETS, ELBOWS, ETC. SHALL BE PROVIDED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
- ALL EXHAUST TERMINATIONS TO BE LOCATED A MINIMUM OF 1'0" AWAY FROM MECHANICAL AIR INTAKES AND A MINIMUM OF 3' AWAY FROM OPERABLE OPENINGS.
- TRAP & ROUTE 1"Ø INSULATED CONDENSATE DRAIN LINE TO SPLASH BLOCK ON GRADE.
- MHP-1 TO BE LOCATED ON ROOF.
- ALL ROOF MOUNTED MECHANICAL EQUIPMENT TO BE LOCATED A MINIMUM OF 1'0" FROM ROOF EDGE. ALL MECHANICAL EQUIPMENT LOCATED LESS THAN 1'0" FROM ROOF EDGE TO HAVE A MINIMUM 42" TALL PARAPET OR FALL PROTECTION PROVIDED.
- WHERE THERMOSTAT IS LOCATED ON AN EXTERIOR WALL, THERMOSTAT SHALL BE INSTALLED ON THERMALLY INSULATED BACK PLATE.

KEYNOTES

- ROUTE EXHAUST DUCT UP TO ROOF CAP WITH INSECT SCREEN.

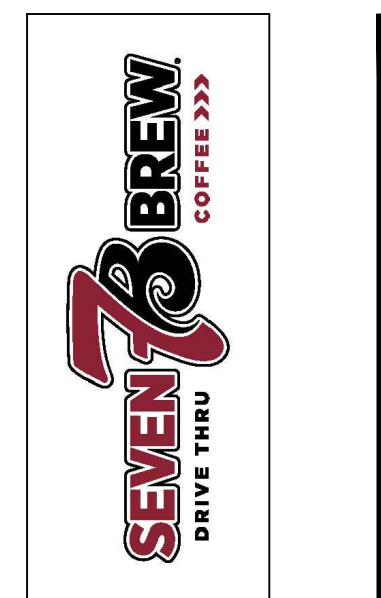


1 FLOOR PLAN
M-1.1 1/4" = 1'-0"



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ARCHITECTURE INTERIORS URBAN DESIGN
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ISSUED FOR CONSTRUCTION	Date	Description
Revision 1	11-18-24	
Revision 2	01-10-25	
Plan Review Response	03-17-25	
Plan Review Response	05-12-25	
Plan Review Response	06-30-25	

Sheet Name: FLOOR PLAN	
Proj #: 230219	Issue Date: 11-18-24
Sheet No.: M1.1	
Drawn By: SL	Checked By: PK