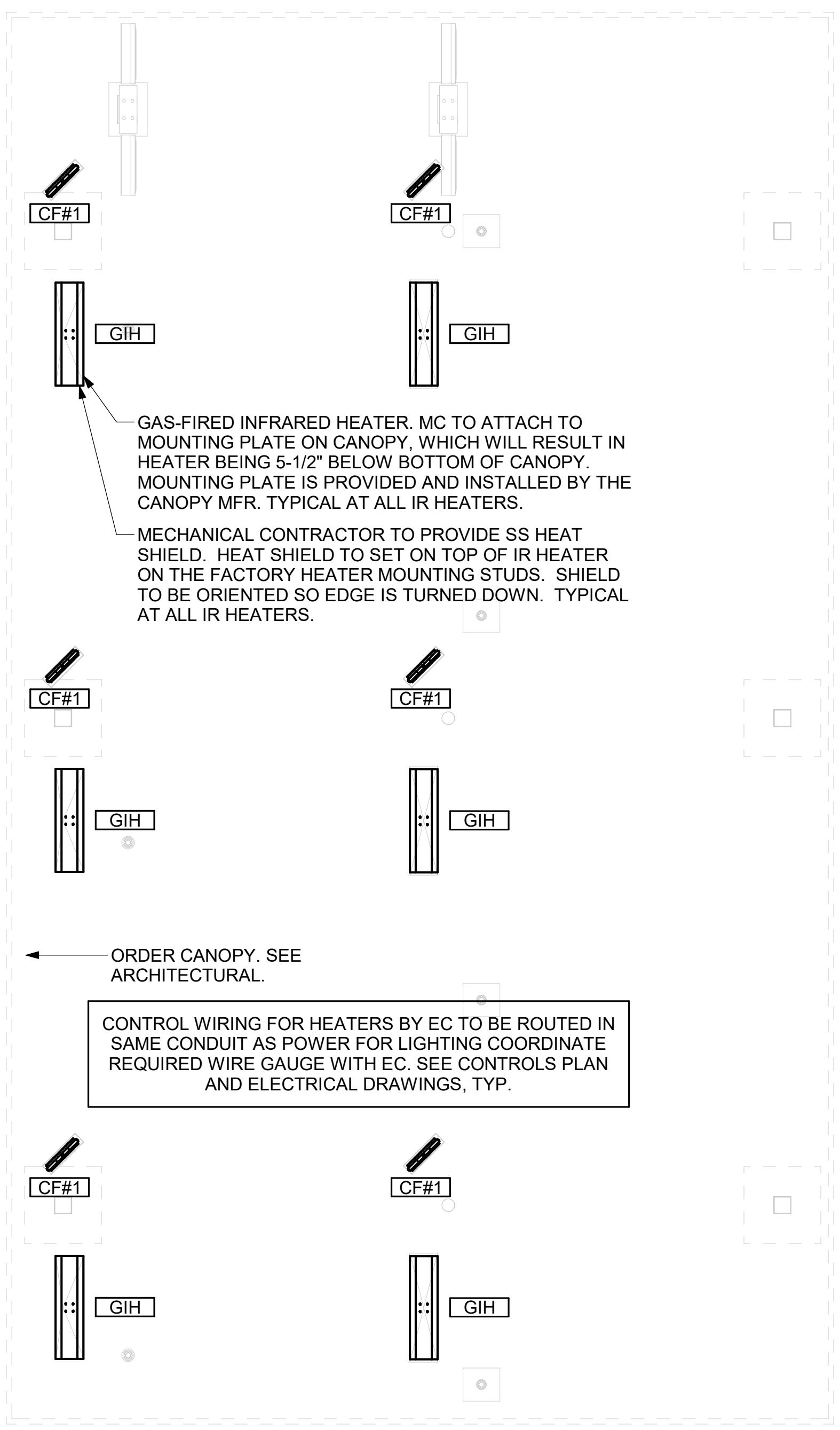


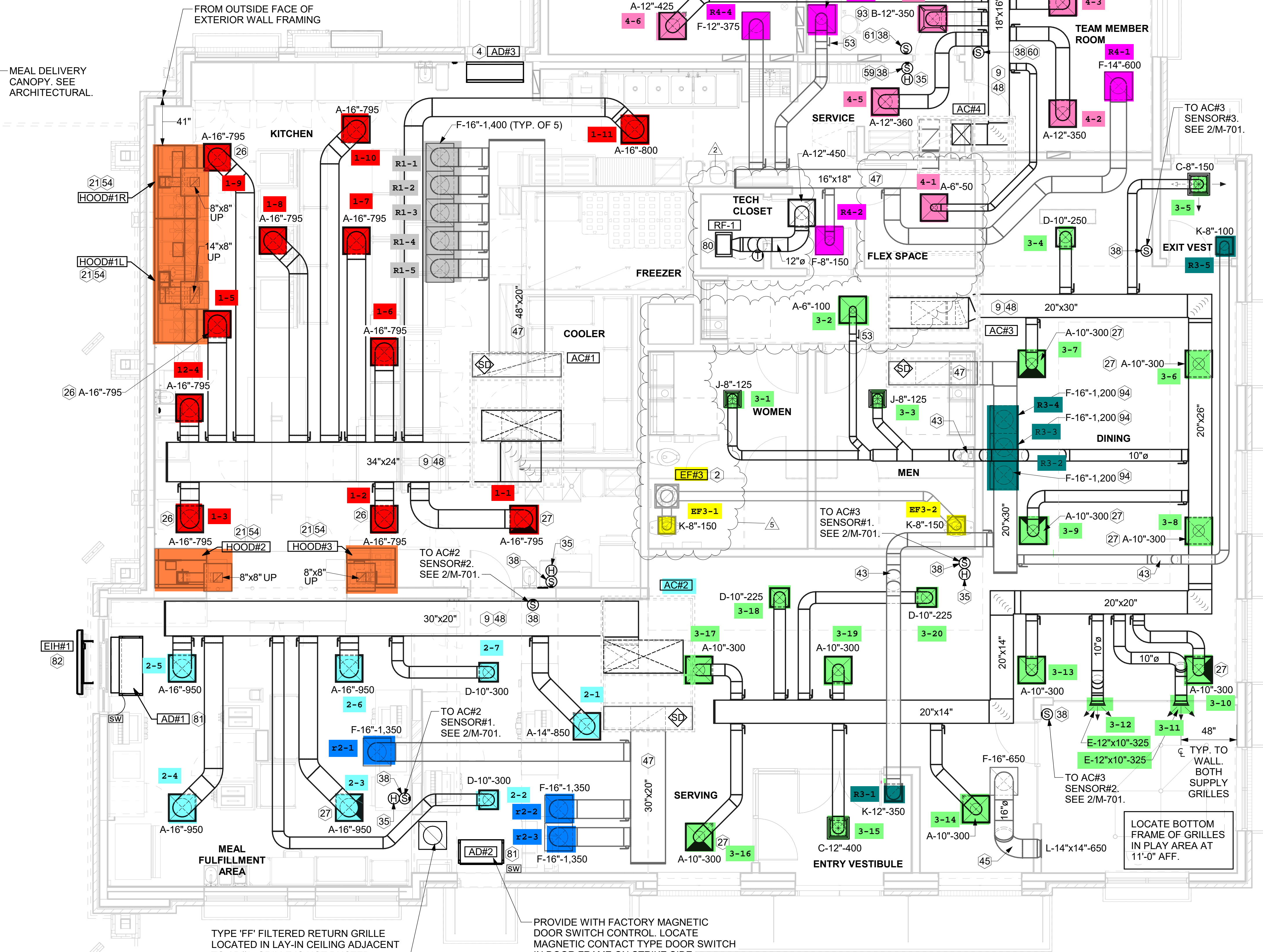
# KEY NOTES

- 2 10X10 UP THRU ROOF.
- 4 AIR CURTAIN MOUNTED OVER DOOR HEADER AT 7'-2" AFF TO BOTTOM OF UNIT. PROVIDE BLOCKING IN WALL BEHIND AIR CURTAIN. USE FACTORY PRE-PUNCHED MOUNTING HOLES ON BACK SIDE OF AIR CURTAIN ONLY. ATTACH AIR CURTAIN TO WALL USING 3/8" LAG BOLTS. LENGTH AS REQUIRED TO FULLY PENETRATE BLOCKING. LOCATE MAGNETIC CONTACT TYPE MICROSWITCH IN DOOR FRAME ON STRIKE SIDE.
- 9 BRANCH TAKE-OFFS ARE NOT TO BE LOCATED CLOSER THAN 3'-0" FROM ANY OFFSET OR ELBOW INCLUDING THE SUPPLY AIR DROP FROM CURB.
- 21 HALTON KBD DAMPER AT HOOD COLLAR BY MECHANICAL CONTRACTOR. SEE HOOD ELEVATIONS ON M-201 FOR LOCATION.
- 26 MECHANICAL CONTRACTOR TO ADJUST PATTERN DEFLECTORS TO THROW STRAIGHT DOWN.
- 27 MECHANICAL CONTRACTOR TO CLOSE THE AIR PATTERN DEFLECTORS ON SHADED SIDE.
- 35 MOUNT HUMIDITY SENSOR ON WALL ABOVE SPACE TEMP SENSOR AND ROUTE WIRING TO UNIT ON ROOF.
- 38 MOUNT REMOTE SENSOR ON WALL AT 5'-0" AFF U.N.O. AND ROUTE WIRING BACK TO SUNCOAST TEMP CONTROL PANEL. FOR SENSOR SERVING AC#1, COORDINATE EXACT LOCATION WITH KITCHEN EQUIPMENT.
- 43 ROUTE DUCT WITHIN STRUCTURE.
- 45 TRANSFER AIR DUCT, NO BALANCING DAMPERS AT GRILLES.
- 47 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. SEE DETAIL 6/M-501 FOR REQUIRED TRANSITION GEOMETRY. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITHOUT TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- 48 TRANSITION IN VERTICAL DROP FROM FULL SIZE OF CURB OPENING TO SIZE SHOWN. TRANSITION WITHIN CURB WHERE REQUIRED TO AVOID STRUCTURE. WHERE THE DUCT IS SHOWN OFFSET HORIZONTALLY, PROVIDE ELBOW WITH TURNING VANES. FOR DROPS WITH NO HORIZONTAL OFFSET, EXTEND DROP BELOW STRUCTURE TO ACCOMMODATE START COLLARS. TERMINATE DROP A MINIMUM 0'-10" ABOVE CEILING (0'-4" ABOVE CEILING IF REQUIRED TO ACCOMMODATE TAKE-OFF AND DROP IS NOT LOCATED DIRECTLY ABOVE A LIGHT).
- 53 RUSKIN MDRS25 MVD W/LOCKING QUADRANT HANDLE.
- 54 SEE ELEVATIONS ON M-201 FOR CJ FAN DUCTING REQUIREMENT.
- 59 TO AC#4, SENSOR #1. SEE 2/M-701.
- 60 TO AC#4, SENSOR #2. SEE 2/M-701.
- 61 TO AC#4, SENSOR #3. SEE 2/M-701.
- 80 CEILING MOUNTED RECIRCULATING FAN. ROUTE 12" DUCT FROM FAN TO DISCHARGE AT TYPE 'A' DIFFUSER SHOWN.
- 81 MOUNT AIR DOOR IN CEILING. CENTERED ON DRIVE-THRU/MFA DOOR OPENING. REFER TO WIRING DIAGRAM ON SHEET M-702 FOR MORE INFORMATION.
- 82 ELECTRIC HEATER. MC TO MOUNT ON WALL PER MANUFACTURER'S RECOMMENDATIONS.
- 93 MAXIMUM HEATING AND COOLING AIRFLOWS INDICATED. SET MINIMUM AIRFLOW TO 50 CFM.
- 94 TAKE OFF WITH DAMPER AT THE BOTTOM OF DUCTWORK, TYP.



2 MECHANICAL FLOOR PLAN - ORDER CANOPY  
1/4" = 1'-0"

SEAL PENETRATIONS IN DRAFTSTOPPING CURTAIN AIR-TIGHT. REFER TO ARCHITECTURAL PLANS FOR LOCATION AND CONSTRUCTION OF DRAFTSTOPPING CURTAIN.



1 EQUIPMENT AND DUCTWORK PLAN  
1/4" = 1'-0"

VENTILATION CALCULATIONS						
	ZONE	PEOPLE OUTDOOR AIR RATE (Rp)	ZONE POPULATION (Pz)	AREA OUTDOOR AIR RATE (Ra)	ZONE FLOOR AREA (Az)	OUTDOOR AIRFLOW RATE REQ'D (Vbz)
AC#1	KITCHEN	7.5	21	0.12	1049	283
	STORAGE	--	--	0.12	286	34
AC#2	SALES	7.5	15	0.12	1,012	234
	DINING (CAFETERIA, FAST FOOD)	7.5	92	0.18	924	856
AC#3	CORRIDOR (ENTRYWAYS)	--	--	0.06	208	13
	PLAY AREA	20	2	0.18	170	71
	ENTRY VESTIBULE	20	2	0.18	170	71
AC#4	OFFICE	5	1	0.06	67	10
	TEAM MEMBER (RECEPTION)	5	5	0.06	170	35
	STORAGE	--	--	0.12	108	13

AC#1 = 317 CFM.  
317 CFM (Vbz) / 0.8 = 396 CFM (Voz)  
AC#1 PROVIDES 1,750 CFM OUTSIDE AIR TO ZONE 1.

AC#2 = 234 CFM.  
234 CFM (Vbz) / 0.8 = 292 CFM (Voz)  
AC#2 PROVIDES 1,200 CFM OUTSIDE AIR TO ZONE 2.

AC#3 = 940 CFM.  
940 CFM (Vbz) / 0.8 = 1,175 CFM (Voz)  
AC#3 PROVIDES 1,200 CFM OUTSIDE AIR TO ZONE 3.

AC#4 = 58 CFM.  
58 CFM (Vbz) / 0.8 = 73 CFM (Voz)  
AC#4 PROVIDES 450 CFM OUTSIDE AIR TO ZONE 4.

CALCULATIONS ARE BASED ON TABLE 403.3.3.1, 2018 INTERNATIONAL MECHANICAL CODE.  
(FOR OA RATE: Vbz = RpPz + RaAz || FOR ZONE OA RATE: Voz = Vbz/0.8)

AIR BALANCE SCHEDULE					
Mark	SUPPLY AIR	RETURN AIR	OUTSIDE AIR	EXHAUST AIR	BUILDING POSITIVE PRESSURE
AC#1	8,750	7,000	1,750	0	
AC#2	5,250	4,050	1,200	0	
AC#3	5,250	4,050	1,200	0	
AC#4	1,875	1,425	450	0	
EF#1	0	0	0	1,913	
EF#2	0	0	0	1,402	
EF#3	0	0	0	300	
	21,125	16,525	4,600	3,615	985

**H.E.S. SYSTEM**  
MECHANICAL CONTRACTOR TO PROVIDE AND INSTALL SUNCOAST H.E.S. SYSTEM FOR ALL HOODS. SEE HOOD FRAME/EQUIPMENT INTERLOCK WIRING DIAGRAM ON M-702 FOR MORE INFORMATION.



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**FSR#05434**  
BUILDING TYPE / SIZE: P14 SE BN  
RELEASE: 23.02

PRINTED FOR: CONSTRUCTION  
REVISION SCHEDULE

NO.	DATE	DESCRIPTION
2	06/11/2024	Design Notes
5	07/31/2024	CFA

CONSULTANT PROJECT #: 23205.EH.S  
DATE: 12/20/2023  
DRAWN BY: BLM

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SHEET: EQUIPMENT AND DUCTWORK PLAN

SHEET NUMBER: **M-101**

Autodesk Docs: /OH\_05434\_Westerville (OH) FSU\_2023.1\_FSR#05434\_Westerville (OH) FSU\_K&A\_MEC.rvt  
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