EXHAUST FAN SCHEDULE

Tag	Manufacturer	Model	Type	Drive	CFM	E.S.P.	Motor				Sone	Weight	Furnished	Installed	Comments
						IN. W.C.	H.P.	Volts	PH.	Hz.	Level	lbs.	By	By	
EF-1	Captive-Aire	DU180HFA	Roof	Direct	2550	1.45	2	208	3	60	14.6	183	HS	GC	See Captive-Aire drawings for options & accessories.
EF-2	Captive-Aire	DR12HFA	Roof	Direct	150	0.6	.250	115	1	60	6.10	50	HS	GC	See Captive-Aire drawings for options & accessories.

OUTDOOR AIR COOLED CONDENSING UNIT SCHEDULE

Unit ID	Nominal Cooling Capacity (Tons)	Manuf.	Model	Description	Refrig. Type	Refrig. Charge	Unit Electrical Data					Unit Installed Weight lbs.	Furnished By	Installed By	Comments
							Voltage	Phase	Hz.	FLA	MOCP				
CU-1	-	Manitowoc (Harford)	PCL99MOP-3	Walk-in Cooler Remote CU	R-404A	10.4	208	3	60	6.5	15	200	WCS	GC	Furnished with walk-in cooler
CU-2	-	Hoshizaki	URC-9F	Ice Maker Remote CU	R-404A	11.46	120	1	60	-	-	100	KES	GC	Furnished with ice maker
CU-3	-	Hoshizaki	URC-9F	PUW Ice Maker Remote CU	R-404A	3.86	120	1	60	-	-	100	KES	GC	Furnished with ice maker

AIR DOOR SCHEDULE

ID	Manufacturer	Model	Airflow			Electrical				Furnished By	Installed By	Remarks
			Max FPM	Avg FPM	CFM	KW	V/P/H	MCA	MOCP			
AD-1	Berner	AI081036E	2251	1691	951	5.6	208/1/60	28.6	40.0	GC	GC	

MAKE-UP AIR UNIT SCHEDULE

Unit ID	Manuf.	Model	Orientation	Fan Performance			Heating Performance					Unit Electrical Data					Unit Installed Weight lbs.	Furnished By	Installed By	Comments
				Design Supply (CFM)	Total E.S.P. in. w.c.	Motor Nominal HP	Type	Input MBH	Output MBH	Temperature Rise °F D.B.	Efficiency AFUE %	Voltage	Phase	Hz.	MCA	MOCP				
MAU-1	Captive-Aire	A1-D.250-15D	Downflow	1300	0.50	1	Nat.Gas	88.720	81.622	59.0	92	208	3	60	3.9	15	496	HS	GC	See Captive-Aire drawings for options & accessories.

VENTILATION SCHEDULE

Space Served		Calculation of Minimum Outside Air (OA) Per IMC 2021											OA CFM		Ventilation	Comments
Name	Area (SQ.FT.)	Classification	Based on Occupancy					Based on CFM / SQ.FT.		Based on Exhaust					Required	Provided	System	
			Persons Per 1000 SQ.FT.	Estimated Max. Occupant Load	Design Occupant Load	CFM Per Person	Total OA CFM	CFM Per SQ.FT.	Total OA CFM	Fixture Quantity	CFM Per Fixture	CFM Per SQ.FT.	Total Exhaust CFM					
101-Dining	564	Food and beverage service: Cafeteria, fast food	100	56	37	7.5	277.5	0.18	102						379	596	RTU-2	See Note 1
102-Utensil	78	Public spaces, Corridors and utilities						0.06	5						5	7	RTU-2	
103-Passage	39	Public spaces, Corridors and utilities						0.06	2						2	4	RTU-2	
105-Ordering	77	Food and beverage service: Cafeteria, fast food	100	8	8	7.5	57.75	0.18	14						72	113	RTU-2	See Note 1
111-Unisex1	58	Public spaces: Toilet rooms - public							0	1	70		70		0	0	EF-2	
112-Unisex2	56	Public spaces: Toilet rooms - public							0	1	70		70		0	0	EF-2	
Totals:	872				45										458	720	RTU-2	
104-POS	226	Food and beverage service: Cafeteria, fast food	100	23	2	7.5	15	0.18	41						56	187	RTU-1	See Note 1
106-Serving	79	Food and beverage service: Cafeteria, fast food	100	8	4	7.5	30	0.18	14						44	148	RTU-1	See Note 1
107-Cooking	323	Food and beverage service: Kitchens (cooking)	20	6	2	7.5	15	0.12	39			0.7	226		54	180	EF-1	
108-Kitchen	346	Food and beverage service: Cafeteria, fast food	100	35	4	7.5	30	0.18	62						92	309	RTU-1	See Note 1
109-Office	45	Offices: Office spaces	5	0	1	5	5	0.06	3						8	26	RTU-1	
Totals:	1019				13										254	850	RTU-1	

Notes:
1. Classification of "Food and beverage service, Cafeteria, fast food" results in an estimated quantity of people on a square footage basis that is unrealistic with regard to the actual use of the space. The calculated number of people has been noted in the above calculation, but an alternative, reasonably conservative actual maximum occupancy (which is supported by the Owner's historical data) is utilized in the calculation for the Total Outside Air CFM required for the respective Zones. The code-mandated value of 7.5 cfm/person for "Food and beverage service, Cafeteria, fast food" is used in the calculation.

AIR BALANCE CALCULATIONS

System	Supply Air CFM	Return Air CFM	Outdoor Air CFM	Exhaust Air CFM	Pressure CFM
RTU-1	3400	2550	850		850
RTU-2	3000	2280	720		720
MAU-1	1300	0	1300		1300
EF-1				2550	-2550
EF-2				150	-150
Total	7700	4830	2870	2700	170

ROOFTOP UNIT SCHEDULE

Unit ID	Nominal Cooling Capacity Tons	Manuf.	Model	Area Served	Orientation	Fan Performance				Cooling Capacity						Heating Performance				Unit Electrical Data					Unit Installed Weight lbs.	Furnished By	Installed By	Accessories, Features & Options												Comments
						Air Balance		Motor	Total	Net Capacity		Efficiency		EAT (Deg. F)		Cond.	Type	Input	Output	Efficiency	Voltage	Phase	Hz.	MCA	MOCP				1	2	3	4	5	6	7	8	9	10	11	12	
						Supply CFM	Outdoor CFM	Max BHP	E.S.P. in. w.c.	Total MBH	Sensible MBH	IEER	(S)EER	DB	WB	EAT (Def. F)		MBH	MBH	AFUE %																				
RTU-1	8.5	Carrier	48FCEM09B3M5	Dining	Downflow	3400	850	1.9	0.8	96.4	73.5	15.0	11.20	80.0	67.0	95.0	Nat.Gas	180	148	82	208	3	60	42.0	50	1108	HES	GC	X	X	X	X	X	X	X	X	X	X	X	X	
RTU-2	7.5	Carrier	48FCFM08B3M5	Kitchen	Downflow	3000	720	1.8	0.8	85.3	60.8	15.0	11.20	80.0	67.0	95.0	Nat.Gas	224	181	81	208	3	60	40.0	50	1021	HES	GC	X	X	X	X	X	X	X	X	X	X	X	X	

Notes that apply to all units:
1. Static pressure indicated above is the external static pressure which excludes any pressure drops within the unit.
2. Unit shall be complete with side outlet drain and access doors. Outside air dampers shall be equipped with blade and jamb seals.
3. Contractor to ensure that outdoor air intakes are a minimum of 10'-0" away from any exhaust fan discharge, plumbing vent or other contaminant source.
4. Maximum air velocity through cooling coil shall not exceed 500 feet per min.
5. Provide 4 sided factory roof curb suitable for seismic conditions of project location.
6. Perform testing and balancing and submit reports to the engineer in accordance with specification.
7. Refer to roof framing plan for exact location of rooftop units.
8. Mechanical subcontractor shall affix unit designation decal on unit.
9. Unit to operate at 7 in. w.g. natural gas pressure. See Manufacturer's specifications for final connection size to unit.
10. Provide alternate bid to supply all rooftop units with coastal package (coated coils, painted rails, etc.) when site is located within 5 miles of the coast.

Accessories, Features & Options:
1. MERV-8 filters.
2. Roof curb - 14" high.
3. M.O.D.
4. Hail guard.
5. Unit mounted convenience receptacle.
6. R.A. smoke detector w/ remote keyed annunciator/reset.
7. Comp. enthalpy econ.
8. Barometric relief.
9. Toolless hinged access panels.
10. Unit shall be charged with refrigerant type R-410A
11. Disconnect.
12. High-static motor

GRILLES, REGISTERS, AND DIFFUSERS SCHEDULE

Tag	Description	Face Size / Neck Size	Material	Finish	Mounting	Furnished By	Installed By	Manufacturer	Model	Notes
CD-1	Perforated ceiling diffuser	Face: 24"x24" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4320A Type L	Provide with integral OBD
CD-2	Perforated ceiling diffuser	Face: 24"x12" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4320A Type L	Provide with integral OBP Remove 4-way deflectors
ER-1	Perforated ceiling exhaust	Face: 12"x12" Neck: Varies	Aluminum	White	Surface mount	GC	GC	Nailor	4330R Type S	Provide with integral OBD
RG-1	Perforated ceiling return	Face: 48"x24" Neck: Varies	Aluminum	White	Lay-in ceiling	GC	GC	Nailor	4330R Type L	
RG-2	Perforated ceiling return	Face: 48"x24" Neck: Varies	Aluminum	White	Surface mount	GC	GC	Nailor	4330R Type S	
SR-1	Adjustable turbo nozzle	Neck: Varies	Aluminum	White	Wall	GC	GC	Air Concepts	ANR-14	Provide with concealed mounting and face-accessible OBD
SR-2	Double-deflection supply register	Neck: Varies	Aluminum	White	Wall	GC	GC	Nailor	51DH	Provide with integral OBD

ELECTRIC UNIT HEATER SCHEDULE

Unit ID	Manuf.	Model	Area Served	Orientation	Heating Performance Output		Unit Electrical Data					Unit Length Ft.	Unit Installed Weight lbs.	Accessories, Features & Options					Comments
					KW	BTUH	Voltage	Phase	Hz.	MCA	MOCP			1	2	3	4	5	
EUH-1	Berko	QFF1500	Vestibule	Ceiling Mounted	1.5	5120	120	1	60	12.5	20	-	-		X				

Notes that apply to all units:
1. Provide double-pole, single throw disconnect switch.

Accessories, Features & Options:
1. Tamper proof cover.
2. Unit furnished complete with internal thermostat.

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 5/M-700 FOR INSTALLATION INFORMATION
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION

VIROGUARD SCHEDULE

TAG	QUANTITY	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSYTEM	16"x16"	Captive-Aire DU180HFA	TDC	GC	ENVIROMATIC

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.

B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.

C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

Consultant:

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CONSTRUCTION SET
04/02/2024

PROFESSIONAL SEAL

Anthony J. Scalamandre, P.E.
CT License #23630

PROFESSIONAL IN CHARGE: Anthony J. Scalamandre, P.E.
DRAWN BY: PCE
CHECKED BY: AJS

PROJECT NUMBER:
23009

SHEET TITLE:
HVAC SCHEDULES

SHEET NUMBER:
M-600

2023-DB#4/P#1-4