

AIR BALANCE SCHEDULE				
TAG	SUPPLY AIRFLOW (CFM)	RETURN AIRFLOW (CFM)	EXHAUST AIRFLOW (CFM)	SUBTOTAL (CFM)
EF-1	0	0	3200	-3200
EF-2	0	0	150	-150
MAU-1	1950	0	0	1950
RTU-1	3400	2,900	0	500
RTU-2	4000	3,000	0	1,000
NET PRESSURIZATION				100

VENTILATION CALCULATIONS							
Ventilation Calculations Comply with: ASHRAE 62.1							
Room Name	Room Area	Room Type	Number of People	CFM/Person	CFM/sqft	Total Required OA CFM	Total Provided OA CFM
RTU-1 - KITCHEN							
104 - POS	210	Cafeteria, fast food	17	7.5	0.18	239	382
106 - SERVING	140	Cafeteria, fast food					
107 - COOKING	335	Kitchens (cooking)			0.7 CFM/SF EXHAUST		
108 - KITCHEN (FOOD PREP)	290	Cafeteria, fast food	5	7.5	0.18	113	
109 - OFFICE	45	Office spaces	1	5	0.06	10	
Total						382	500
RTU-2 - DINING							
101 - DINING/ORDERING	605	Dining rooms	42	7.5	0.18	567	1000
102 - UTENSIL	165	Dining rooms					
103 - PASSAGE	65	Corridors	0	0	0.06	5	
Total						572	

HVAC MATERIAL SCHEDULE		
TYPE	APPLICATION	ALLOWABLE MATERIAL
DUCT	CONCEALED, GENERAL EXHAUST	RECTANGULAR OR ROUND AS SHOWN
DUCT	CONCEALED, RETURN	RECTANGULAR OR ROUND AS SHOWN, LINED OR INSULATED
DUCT	CONCEALED, SUPPLY	RECTANGULAR OR ROUND AS SHOWN, LINED OR INSULATED
DUCT	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON WITH WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT WITH WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
DUCT	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
DUCT	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
DUCT	EXPOSED SUPPLY	RECTANGULAR LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC

AIR DEVICE SCHEDULE														
TAG	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL	FINISH	MOUNTING	FACE SIZE	NECK SIZE	OPPOSED BLADE DAMPER	SERVICE	MAXIMUM NOISE CRITERIA (NC)	FURNISHED BY	INSTALLED BY	NOTES
BS-1	BATHROOM AIR PURIFICATION UNIT	ROF ENVIRONMENTAL GROUP	BRU ASSEMBLY	STAINLESS STEEL	STAINLESS STEEL	SURFACE	N/A	N/A	N/A	PURIFICATION	N/A			1
CD-1	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE L	ALUMINUM	WHITE	LAY-IN	24" X 24"	SEE PLANS	YES	SUPPLY	35			2,3
CD-2	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE S	ALUMINUM	WHITE	SURFACE	12" X 12"	SEE PLANS	YES	SUPPLY	35			2,4
CD-3	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE S	ALUMINUM	WHITE	SURFACE	20" X 20"	SEE PLANS	YES	SUPPLY	35			2,3
ER-1	PERFORATED CEILING EXHAUST	NAILOR	4330R TYPE S	ALUMINUM	WHITE	SURFACE	12" X 12"	SEE PLANS	YES	EXHAUST	35			2,3
RG-1	PERFORATED CEILING RETURN	NAILOR	4330R TYPE L	ALUMINUM	WHITE	LAY-IN	48" X 24"	SEE PLANS	NO	RETURN	35			2,3
RG-3	PERFORATED CEILING RETURN	NAILOR	4330R TYPE S	ALUMINUM	WHITE	SURFACE	48" X 24"	SEE PLANS	NO	RETURN	35			2,3
SR-1	ADJUSTABLE TURBO NOZZLE	SEIHO	NT14	ALUMINUM	WHITE	WALL	NECK + 1/2"	SEE PLANS	YES	SUPPLY	35			2,3
SR-2	DOUBLE DEFLECTION SUPPLY REGISTER	NAILOR	51DH	ALUMINUM	WHITE	WALL	NECK + 2"	SEE PLANS	YES	SUPPLY	35			2,3

NOTES:
1 SEE ELECTRICAL PLAN FOR CONNECTION INFORMATION.
2 MAXIMUM STATIC PRESSURE DROP OF 0.15"WC UNLESS OTHERWISE NOTED.
3 SEE PLANS FOR SIZES AND QUANTITIES.
4 REMOVE 4-WAY DEFLECTORS.

CONDENSING UNIT SCHEDULE														
TAG	DESCRIPTION	MANUFACTURER	MODEL	NUMBER OF		REFRIGERANT	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	NOTES	
				COMPRESSORS	CIRCUITS			TYPE	CHARGE	MOCP				FLA
CU-1	CONDENSING UNIT - WALK IN COOLER	HARFORD	KPCL99MZOP-3E	1	1	R-404A	10.4 LB	250 LBS	15 A	9 A	208/3/60			1,2
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER	HOSHIZAKI	URC-9F	0	1	R-404A	11.46 LB	100 LBS			120/1/60			1,3
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER	HOSHIZAKI	URC-5F	0	1	R-404A	3.86 LB	100 LBS			120/1/60			1,3

NOTES:
1 EQUIPMENT SPECIFIED BY OTHERS, SHOWN FOR REFERENCE ONLY.
2 FURNISHED WITH WALK-IN COOLER.
3 FURNISHED WITH ICE MAKER.

EXHAUST FAN SCHEDULE																
TAG	DESCRIPTION	MANUFACTURER	MODEL	SERVICE	LOCATION	FAN DATA				ELECTRICAL DATA				FURNISHED BY	INSTALLED BY	NOTES
						AIRFLOW	E.S.P.	MOUNT	DRIVE	MOTOR POWER	AMPS	VOLTAGE	PHASE			
EF-1	UPBLAST UL762 EXHAUST FAN	CAPTIVEAIRE	DU240HFA	KITCHEN HOOD	ROOF	3,200 CFM	1.2"WC	ROOF CURB	DIRECT	3.0 HP	10.2	208	3			1-4
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	CAPTIVEAIRE	DR12HFA	RESTROOMS	ROOF	150	0.6"WC	ROOF CURB	DIRECT	0.25 HP	2.9	115	1			5-7

NOTES:
1 WEATHERPROOF DISCONNECT.
2 20" HIGH VENTED ROOF CURB
3 GREASE DRAIN
4 ENVIRONMENTAL VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM.
5 INTEGRAL DISCONNECT.
6 SPEED CONTROL
7 26" CURB WITH BACKDRAFT DAMPER.

KITCHEN HOOD SCHEDULE																									
TAG	DESCRIPTION	MANUFACTURER	MODEL	MAX COOKING TEMP	EXHAUST PLENUM				PERFORATED SUPPLY PLENUMS				# OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	NOTES								
					AIRFLOW	E.S.P.	WIDTH	LENGTH	DUCT COLLARS		MAKEUP AIR PLENUM							HVAC PLENUM							
									#	WIDTH	LENGTH	AIRFLOW						DUCT COLLARS #	DUCT COLLARS #	DIAMETER					
HD-1	TYPE 1 CANOPY HOOD WITH PERFORATED MAU AND HVAC SUPPLY PLENUMS	CAPTIVEAIRE	5424 ND-2-ACPS-P	600 DEG. F.	3,200 CFM	0.8" WC	4'-3"	14'-3"	2	10"	1'-3"	1'-10"	15'-3"	1,950 CFM	3	10"	2'-4"	800 CFM	7	8"	10	1,070 LBS			1-11

NOTES:
1 18 GAUGE TYPE 430 STAINLESS STEEL CONSTRUCTION.
2 FURNISHED WITH VAPORPROOF INCANDESCENT LIGHT FIXTURES.
3 16" TALL HE SS FILTERS.
4 INTEGRAL UTILITY CABINET.
5 ANSUL SYSTEM.
6 DUCT COLLAR TEMPERATURE SENSOR.
7 PREWIRE PACKAGE.
8 SPARE FIRE SYSTEM DRY CONTACT.
9 4-POLE 20A CONTACTOR.
10 DVC-1 KITCHEN FAN CONTROL CENTER TO ENGAGE ASSOCIATED MAKE-UP AIR UNIT AND EXHAUST FAN AND CONTROL LIGHTS.
11 UL LISTED FIRE SUPPRESSION AND GREASE COLLECTION SYSTEM.

MAKEUP AIR UNIT SCHEDULE																
TAG	DESCRIPTION	MANUFACTURER	MODEL	SERVICE	AIRFLOW	E.S.P.	HEATING DATA				ELECTRICAL DATA			WEIGHT	NOTES	
							INPUT	OUTPUT	EAT	LAT	MOTOR POWER	AMPS	VOLTAGE			PHASE
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	CAPTIVEAIRE	A1-D-250-15D	KITCHEN HOOD	1,950 CFM	0.5"WC	138 MBH	127 MBH	1.0 DEG. F	63 DEG. F.	2.0 HP	7.7	208	3	510 LBS	1-7

NOTES:
1 12.5:1 MAXIMUM TURNDOWN.
2 FURNISHED WITH DISCONNECT.
3 20" ROOF CURB.
4 SCREENED INTAKE.
5 WASHABLE ALUMINUM FILTERS.
6 DOWN DISCHARGE SUPPLY AIR.
7 INTERLOCKED WITH KITCHEN HOOD.

ROOFTOP UNIT SCHEDULE																						
TAG	DESCRIPTION	MANUFACTURER	MODEL	NOMINAL CAPACITY	AIRFLOW			COOLING DATA				HEATING DATA			ELECTRICAL DATA			FURNISHED BY	INSTALLED BY	NOTES		
					SUPPLY AIR	OUTSIDE AIR	E.S.P.	REFRIGERANT	TOTAL CAPACITY (NET)	SENSIBLE CAPACITY (NET)	EER	SEER	FUEL	INPUT	OUTPUT	MOCP	MCA				VOLTAGE	PHASE
RTU-1	KITCHEN ROOFTOP UNIT	TRANE	YHC102F3RHA	8.5 TONS	3,400 CFM	500 CFM	0.8"WC	R-410A	88.3 MBH	73.3 MBH	12.5	14.7	N. GAS	200 MBH	160 MBH	50	42	208	3			1-9
RTU-2	DINING ROOM ROOFTOP UNIT	TRANE	YHC120F3RHA	10 TONS	4,000 CFM	1,000 CFM	0.8"WC	R-410A	103 MBH	91.7 MBH	12.4	15.2	N. GAS	250 MBH	200 MBH	60	48	208	3			1-9

NOTES:
1 FURNISHED WITH ENTHALPY ECONOMIZER AND BAROMETRIC RELIEF.
2 SMOKE DETECTOR WITH REMOTE KEYED ANNUNCIATOR/RESET.
3 MOTORIZED OUTSIDE AIR DAMPER.
4 MERV-8 FILTERS.
5 ROOF CURB.
6 HAL GUARD.
7 TOOL-LESS HINGED ACCESS PANELS.
8 UNIT DISCONNECT.
9 UNIT-MOUNTED CONVENIENCE RECEPTACLE.

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MECHANICAL SCHEDULES

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