

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	1960	0	0	1960
RTU-1	4200	3,150	0	850
RTU-2	3000	2,350	0	850
NET PRESSURIZATION				100

VENTILATION CALCULATIONS											
Ventilation Calculations Comply with ASHRAE 62.1											
Room Name	Room Area (A _r)	Room Type	Zone Air Distribution Effectiveness (E _z)	Number of People (P _z)	CFM/Person (R _p)	CFM/sqft	Breathing Zone OA (V _z)	Zone Outdoor Airflow (V _o)	System Ventilation Efficiency (E _v)	Required Outdoor Air Intake (V _{ot})	Outside Air Provided
RTU-1 - KITCHEN (MULTIPLE ZONE WITH SINGLE RECIRC)											
104 - POS	210	Cafeteria, fast food	0.8	21	7.5	0.18	195	245	0.71	849	850
106 - SERVING	140	Cafeteria, fast food	0.8	14	7.5	0.18	130	163			
107 - COOKING	335	Kitchens (cooking)	0.7 CFM/SF EXHAUST								
108 - KITCHEN (FOOD PREP)	290	Cafeteria, fast food	0.8	29	7.5	0.18	270	338			
109 - OFFICE	45	Office spaces	0.8	1	5	0.06	8	10			
Total						603	756				
RTU-2 - DINING (SINGLE ZONE)											
101 - DINING/ORDERING	605	Dining rooms	0.8	42	7.5	0.18	454	567	N/A	572	650
102 - UTENSIL	165	Dining rooms	0.8	0	0	0.06	4	5			
103 - PASSAGE	65	Corridors	0.8	0	0	0.06	4	5			
Total						458	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)	NOTES
BS-1	BATHROOM AIR PURIFICATION UNIT	RGF 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, 5
CD-2	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE L	ALUMINUM	WHITE	SURFACE	24" X 12"	SEE PLANS	YES	SUPPLY	35	2-5
CD-3	PERFORATED CEILING DIFFUSER	NAILOR	4320A TYPE S	ALUMINUM	WHITE	SURFACE	20" X 20"	SEE PLANS	YES	SUPPLY	35	2, 3, 5
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	AIRCONCEPTS	ANR	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, 5

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.
5 PROVIDE WITH INTEGRAL OBD.

CONDENSING UNIT SCHEDULE												
TAG	DESCRIPTION	MANUFACTURER	MODEL	NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			NOTES
				COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOCP	FLA	V/PH	
CU-1	CONDENSING UNIT - WALK IN COOLER	HARFORD	KPCL98M20P-3E	1	1	R-404A	10.4 LB	250 LBS	15 A	0 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-9F	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				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 ENVIROMATIC VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM.
5 INTEGRAL DISCONNECT.
6 SPEED CONTROL.
7 26" CURB WITH BACKDRAFT DAMPER.
8 E.S.P. INCLUDES E.S.P. OF EXHAUST PLENUM LISTED IN KITCHEN HOOD SCHEDULE.

KITCHEN HOOD SCHEDULE																							
TAG	DESCRIPTION	MANUFACTURER	MODEL	MAX COOKING TEMP	EXHAUST PLENUM						PERFORATED SUPPLY PLENUMS						# OF LIGHT FIXTURES	WEIGHT	NOTES				
					AIRFLOW	E.S.P.	WIDTH	LENGTH	DUCT COLLARS #	WIDTH	LENGTH	MAKEUP AIR PLENUM AIRFLOW	DUCT COLLARS #	WIDTH	LENGTH	HVAC PLENUM AIRFLOW				DUCT COLLARS #	DIAMETER		
HD-1	TYPE 1 CANOPY HOOD WITH PERFORATED MAU AND HVAC SUPPLY PLENUMS	CAPTIVEAIRE	5424 ND-2-ACPSF-F	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.

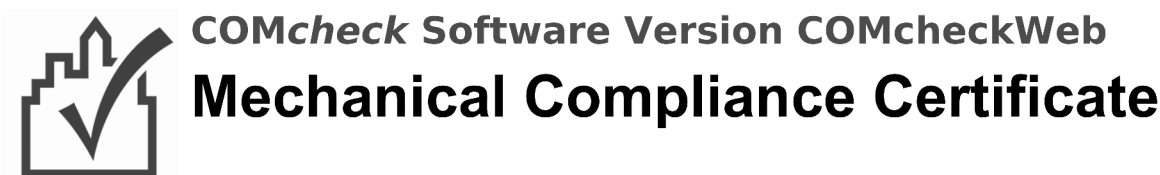
MAKEUP AIR UNIT SCHEDULE																
TAG	DESCRIPTION	MANUFACTURER	MODEL	SERVICE	AIRFLOW	E.S.P.	HEATING DATA				ELECTRICAL DATA			WEIGHT	NOTES	
							INPUT	OUTPUT	EAT	LAT	MOTOR POWER	AMPS	VOLTAGE			PHASE
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	CAPTIVEAIRE	A1-D-250-25D	KITCHEN HOOD	1,950 CFM	0.5"WC	131 MBH	120 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		NOTES			
					SUPPLY AIR	OUTSIDE AIR	E.S.P.	REFRIGERANT	TOTAL CAPACITY (NET)	SENSIBLE CAPACITY (NET)	EER	IEER	FUEL	INPUT	OUTPUT	MOCP		MCA	VOLTAGE	PHASE
RTU-1	KITCHEN ROOFTOP UNIT	YORK	ZJ120M18R2B5LAA2A2	10 TONS	4,000 CFM	850 CFM	0.6"WC	R-410A	115.3 MBH	76.2 MBH	12	14.6	N. GAS	190 MBH	144 MBH	50	44.9	230	3	1-9
RTU-2	DINING ROOM ROOFTOP UNIT	YORK	ZJ099N12P2B5HA2A2	7.5 TONS	3,000 CFM	650 CFM	0.6"WC	R-410A	84.9 MBH	57.1 MBH	12	14.6	N. GAS	120 MBH	96 MBH	50	41.4	230	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 HAIL GUARD.
7 TOOL-LESS HINGED ACCESS PANELS.
8 UNIT DISCONNECT.
9 UNIT MOUNTED CONVENIENCE RECEPTACLE.

AIR CURTAIN SCHEDULE												
TAG	AREA SERVED	MANUFACTURER	MODEL	LENGTH	FAN PERFORMANCE		ELECTRICAL				WEIGHT (LBS)	
					CFM	MAX FPM	MOTOR HP	VOLTAGE/PHASE	ELECTRIC HEAT	MCA		MOCP
AD-1	MAIN ENTRY	BERNER	ALC08-1072	6'	2072	3600	1/5	208 V3P	11.2 KW	32.8	45	70



Project Information

Energy Code: 2018 IECC
Project Title: CMG Pasadena
Location: Pasadena, Maryland
Climate Zone: 4a
Project Type: Alteration

Construction Site: 4107 Mountain Road, Pasadena, Maryland 21122
Owner/Agent: _____ Designer/Contractor: _____

Mechanical Systems List

Quantity System Type & Description

1 RTU-1 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 180 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 115 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 14.60 IEER, Required Part Load Efficiency = 12.60 IEER

1 RTU-2 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 120 kBtu/h
Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
Cooling: 1 each - Single Package DX Unit, Capacity = 85 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 14.60 IEER, Required Part Load Efficiency = 12.60 IEER

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project 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 COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: CMG Pasadena
Data filename: _____
Report date: 07/06/22
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Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the state of Maryland No. 56533, Expiration Date: 10/08/2022"

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9/14/2022 BID SET
11/08/22 IFC SET

Revisions:

Drawn: MM Checked: BE

Project No. 230243

Contents:

MECHANICAL SCHEDULES

M600

