

ROOFTOP UNIT SCHEDULE																												
TAG	MANUFACTURER	MODEL	OUTSIDE AIRFLOW		FANS						COILS (REFER TO COIL SCHEDULES)						GAS-FIRED HEAT EXCHANGER				EFFICIENCY			ELECTRICAL DATA				REMARKS
			MAX (CFM)	MIN (CFM)	FLOW (CFM)	SUPPLY		POWER (hp)	RPM	WATER	ELECTRIC	STEAM	D/X	CHILLED WATER	MAX. CAPACITY (BTUH)	PIPE PRESS. (in-wg)	AIRSIDE		SEER	EER	IEER	MCA	MOCP	VOLT	PH			
			ESP (in-wg)	TSP (in-wg)		EAT(db) (°F)	LAT(db) (°F)																					
RTU-1	CARRIER	48HCD11	825	0	4000	0.75	0.95	2.59	982	No	No	No	Yes	No	180,000	148,000	4.00	13.00	56.4	90.4	16	12	14.3	54 A	60 A	208 V	3	1, 3, 4, 5, 6, 7, 8, 9, 13, 15
RTU-2	CARRIER	48GCM05	400	0	1600	1.50	1.58	1.45	2382	No	No	Yes	No	67	54	4.00	13.00	53.0	84.4	16	12		26 A	30 A	208 V	3	2, 3, 4, 5, 7, 10, 11, 14, 15	
RTU-3	CARRIER	48GCM04	100	100	1200	1.50	1.5	0.81	2234	No	No	No	Yes	67	54	4.00	13.00	64.3	106.3	16	12.5		24 A	30 A	208 V	3	2, 3, 4, 5, 10, 12, 14, 15	

**NOTES:**

- UNIT CONFIGURATION: GAS HEAT / ELECTRIC COOLING, DOWNFLOW.
- UNIT CONFIGURATION: GAS HEAT / ELECTRIC COOLING, HORIZONTAL AIR FLOW.
- NON-FUSED DISCONNECT.
- HINGED ACCESS PANELS AND UN-POWERED CONVENIENCE OUTLET.
- ELECTRO MECHANICAL CONTROLS.
- ENTHALPY ECONOMIZER WITH BAROMETER RELIEF.
- CARBON DIOXIDE SENSOR (UNIT MOUNTED IN RETURN).
- 2-SPEED INDOOR FAN CONTROLLER (VFD).

**D/X COOLING COIL SCHEDULE - AHU/ERU/MAU/RTU**

TAG	CAPACITY (MBH)			COOLING COIL				REMARKS
	TOTAL	SENSIBLE	FLOW (CFM)	EAT(db) (°F)	EAT(wb) (°F)	LAT(db) (°F)	LAT(wb) (°F)	
RTU-1	118.9	91.3	4000	79.3	66.5	58.0	57.1	
RTU-2	49.9	36.9	1600	80.0	67.0	58.5	57.2	
RTU-3	33.6	24.4	1200	77.3	65.0	58.4	55.9	

FAN SCHEDULE																
TAG	MANUFACTURER	MODEL	SERVES	TYPE	FAN				SOUND PRESS LEVEL (dBA)	ELECTRICAL DATA			REMARKS			
					FLOW (CFM)	ESP (in-wg)	RPM	DRIVE TYPE		HP	WATTS	VOLTS		PH		
EF-1	FANTECH	FG 8 EC	SHOWER 110	IN-LINE	150	0.50	0	DIRECT	71	0	0.0	120 V	1	1, 2		
EF-2	FANTECH	FG 12 EC	GEAR 106	IN-LINE	500	0.50	0	DIRECT	136	0	0.0	120 V	1	1, 2		
EF-3	FANTECH	FG 12 EC	DECON 112	IN-LINE	500	0.50	0	DIRECT	136	0	0.0	120 V	1	1, 2		
EF-4	GREENHECK	G-163-VG	SCBA 108	ROOF	2000	0.50	945	DIRECT	1/3		61	10.7	120 V	1	2, 3, 4, 5	
EF-5	GREENHECK	SP-A50-A90-VG	WOMENS E103	CEILING	70	0.25	0	DIRECT			7.6	0	0.9	120 V	1	2, 6
EF-6	GREENHECK	SP-A90-A130-VG	WOMENS E102	CEILING	110	0.25	0	DIRECT			12.7	0	1.3	120 V	1	2, 6

**NOTES:**

- FANTECH MODEL RSK BACKDRAFT DAMPER.
- EC MOTOR WITH POTENTIOMETER FOR BALANCING.
- UL/CUL 705 LISTED - "POWER VENTILATORS"
- NEMA 1 DISCONNECT SWITCH WITH JUNCTION BOX MOUNTED AND WIRED.
- 24" HIGH GALVANIZED ROOF CURB WITH GRAVITY BACK DRAFT DAMPER, GREENHECK WD-100.
- BUILT-IN BACKDRAFT DAMPER.

DUCTLESS SPLIT SYSTEM SCHEDULE																	
TAG	MANUFACTURER	MODEL	NOMINAL CAPACITY		EFFICIENCY				ELECTRICAL DATA				REMARKS				
			COOLING (BTUH)	HEATING (BTUH)	SEER	EER	HSPF	COP	MCA	MOCP	VOLT	PH					
HP-1	FUJITSU	AOUG09LZAH1	9,000	12,000	33.1	18	14	18.2	14.4 A	15 A	208 V	1	1				
HP-2	FUJITSU	AOU18RLXFZ	18,000	22,000	18	12.5	9.03	11.7	13 A	15 A	208 V	1	2				
FC-1	FUJITSU	ASUG09LZAS															
FC-2	FUJITSU	AUJ9RLF															
FC-3	FUJITSU	AUJ9RLF															

**NOTES:**

- PROVIDE MODEL UTY-RNRUZ4 WIRED REMOTE CONTROLLER.
- PROVIDE MODEL UTY-RNNUM WIRED REMOTE CONTROLLER. CONTROLLER SHALL OPERATE BOTH INDOOR UNITS AS A SINGLE UNIT.

CABINET UNIT HEATER SCHEDULE																
TAG	MANUFACTURER	MODEL	TYPE	FAN		HEATING COIL						ELECTRICAL DATA		REMARKS		
				FLOW (CFM)	QTY	MOTOR POWER (hp)	CAPACITY (BTUH)	EAT(db) (°F)	LAT(db) (°F)	FLOW (GPM)	EWTF (°F)	LWT (°F)	PD (PSI)		VOLT	PH
CUH-1	ZEHNDER RITTLING	RF-200-03	FLOOR	300	1	0.20	16,100	70	119.8	1.5	180	157.9	0.3	120 V	1	1, 2
CUH-2	BEACON MORRIS	F42	WALL	53	1	0.03	4,300	65	139	1	180	160	0.2	120 V	1	3
CUH-3	BEACON MORRIS	F42	WALL	53	1	0.03	4,300	65	139	1	180	160	0.2	120 V	1	3
CUH-4	BEACON MORRIS	F42	WALL	53	1	0.03	4,300	65	139	1	180	160	0.2	120 V	1	4

**NOTES:**

- PROVIDE ECM MOTOR.
- FURNISH WITH FACTORY WIRED AND MOUNTED DISCONNECT SWITCH.
- FURNISH WITH RECESSED WALL BOX KIT.
- FURNISH WITH SURFACE MOUNT WALL BOX KIT.

GRAVITY VENTILATOR SCHEDULE										
TAG	MANUFACTURER	MODEL	TYPE	FLOW (CFM)	ESP (in-wg)	THROAT AREA (SQ. FT)	CURB HEIGHT	SERVES	REMARKS	
GV-1	GREENHECK	GRSR-16	RELIEF	1230	0.08	1.45	24"	EF-1, EF-2, EF-3	1, 2	
GV-2	GREENHECK	GRSR-10	RELIEF	406	0.06	0.57	18"	EXISTING BATHROOM FANS	1, 2	

**NOTES:**

- GALVANIZED STEEL ROOF CURB.
- GRAVITY BACKDRAFT DAMPER.

ELECTRIC WALL HEATER SCHEDULE										
TAG	MANUFACTURER	MODEL	TYPE	FAN (CFM)	ELECTRICAL DATA			REMARKS		
					KW	VOLT	PH			
EW-1	BERKO	FRC1512F	SURFACE MOUNT	100	1.5	120 V	1	1, 2, 3		

**NOTES:**

- BUILT-IN TAMPER RESISTANT THERMOSTAT.
- INTEGRAL DISCONNECT SWITCH.
- MODEL FRSMPB SURFACE MOUNTING FRAME.

GRILLES, DIFFUSERS AND REGISTERS SCHEDULE										
SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND CONSTRUCTION. SIZE AND CFM INDICATED ON MECHANICAL DRAWINGS										
A - PRICE MODEL SMD DIRECTIONAL DIFFUSER, LOUVERED FACE, 4-WAY THROW (UNLESS SHOWN OTHERWISE), 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH. PROVIDE MODEL SR ADAPTER.										
B - PRICE MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING, 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH.										
B1 - PRICE MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING PARALLEL TO LONG DIMENSION, SURFACE MOUNT BORDER, STEEL CONSTRUCTION, WHITE FINISH.										

GAS-FIRED BOILER SCHEDULE																			
TAG	MANUFACTURER	MODEL	TYPE	GAS-FIRED HEAT EXCHANGER								ELECTRICAL DATA							
				GAS BURNER			FUEL PRESSURE (in-wg)		WATERSIDE			THERMAL EFF (%)	FLA	VOLT	PH	REMARKS			
				INPUT (BTUH)	OUTPUT (BTUH)	TURN DOWN	MIN	MAX	FLOW (GPM)	EWTF (°F)	LWT (°F)						PD (FT)	VOL (GAL)	
B-1	HTP	EP-399	CONDENSING	399,000	385,000	10	NG	3.5	14	30	160	180	17	3.7	96.5	6.3 A	120 V	1	ALL
B-2	HTP	EP-399	CONDENSING	399,000	385,000	10	NG	3.5	14	30	160	180	17	3.7	96.5	6.3 A	120 V	1	ALL

**NOTES:**

- PROVIDE CONDENSATE NEUTRALIZING TUBES.
- PROVIDE MANUAL RESET HIGH LIMIT.
- PROVIDE LOW WATER CUT-OFF.

CEILING STRATIFICATION FAN SCHEDULE									
TAG	MANUFACTURER	MODEL	BLADE SWEEP	Max Airflow	WATTS	VOLT	PH	REMARKS	
CF-1	LEADING EDGE	56001	56"	27500	110	120 V	1		
CF-2	LEADING EDGE	56001	56"	27500	110	120 V	1		
CF-3	LEADING EDGE	56001	56"	27500	110	120 V	1		
CF-4	LEADING EDGE	56001	56"	27500	110	120 V	1		

**NOTES:**

- PROVIDE SOLID STATE SPEED CONTROL TO CONTROL ALL FANS AS ONE SYSTEM.

PUMP SCHEDULE										
TAG	MANUFACTURER	MODEL	TYPE	PUMP			MOTOR	ELECTRICAL DATA		REMARKS
				FLOW (GPM)	HEAD (FT)	DRIVE TYPE		POWER WATTS	VOLT	
BP-1	TACO	VR15-3	IN-LINE	30.00	20.0	ECM	500	115 V	1	
BP-2	TACO	VR15-3	IN-LINE	30.00	20.0	ECM	500	115 V	1	
P-1	TACO	VR20-3	IN-LINE	40.00	30.0	ECM	800	208 V	1	
RPZ-1	TACO	VR3452	IN-LINE	5.00	15.0	ECM	180	115 V	1	
RPZ-2	TACO	VR3452	IN-LINE	12.00	20.0	ECM	180	115 V	1	
RPZ-3	TACO	VR3452	IN-LINE	12.00	20.0	ECM	180	115 V	1	

**NOTES:**

- 


MARK	DATE	DESCRIPTION

DESIGNED BY: KAH				DRAWN BY: ALL				CHECKED BY:				REVIEWED BY:			
PROJECT NO: CARM1902				DATE: 3/22/2021				SCALE: AS SHOWN							

CLIENT

**CARMEL FIRE DEPARTMENT INC.**

ADDITION/RENOVATION



94 GLENEIDA AVE,  
CARMEL HAMLET NY, 10512

CONTRACT <b>CONTRACT G GENERAL CONSTRUCTION</b>
--

STATUS <b>BID SET</b>
--------------------------

SHEET TITLE <b>MECHANICAL SCHEDULES</b>
--

DRAWING No. <b>M 401</b>
-----------------------------