

-- FAN COIL SCHEDULE --

ITEM	CFM	ESP (IN. WG)	HP	COOLING (1)				HEATING		CARRIER MODEL NO.	REMARKS
				EAT DB/WB (°F)	MBH	GPM	WPD	KW	STAGES		
FC-3	200	0.2	--	80.0/67.0	5.9	1.2	9.0	1.0	1	42VFC02	(2) (4)
FC-4	300	0.2	--	80.0/67.0	7.2	1.4	9.0	1.5	1	42VFC03	(2) (4)
FC-5	300	0.2	--	80.0/67.0	7.2	1.4	9.0	1.5	1	42VFC03	(2) (4)
FC-6	300	0.2	--	80.0/67.0	7.2	1.4	9.0	1.5	1	42VFC03	(2) (4)
FC-7	300	0.2	--	80.0/67.0	7.2	1.4	9.0	1.5	1	42VFC03	(2) (4)
FC-8	300	0.2	--	80.0/67.0	7.2	1.4	9.0	1.5	1	42VFC03	(2) (4)
FC-9	300	0.2	--	80.0/67.0	7.2	1.4	9.0	1.5	1	42VFC03	(2) (4)
FC-10	300	0.2	--	80.0/67.0	7.2	1.4	9.0	1.5	1	42VFC03	(2) (4)
FC-11	300	0.2	--	80.0/67.0	7.2	1.4	9.0	1.5	1	42VFC03	(2) (4)
FC-12	400	0.2	--	80.0/67.0	11.1	2.2	9.0	2.0	1	42VFC04	(2) (4)
FC-13	400	0.2	--	80.0/67.0	11.1	2.2	9.0	2.0	1	42VFC04	(2) (4)
FC-14	400	0.2	--	80.0/67.0	11.1	2.2	9.0	2.0	1	42VFC04	(2) (4)
FC-15	400	0.2	--	80.0/67.0	11.1	2.2	9.0	2.0	1	42VFC04	(2) (4)
FC-16	400	0.2	--	80.0/67.0	11.1	2.2	9.0	2.0	1	42VFC04	(2) (4)
FC-17	400	0.2	--	80.0/67.0	11.1	2.2	9.0	2.0	1	42VFC04	(2) (4)
FC-18	600	0.2	--	80.0/67.0	17.6	3.5	9.0	3.0	1	42VFC06	(2) (4)
FC-19	600	0.2	--	80.0/67.0	17.6	3.5	9.0	3.0	1	42VFC06	(2) (4)
FC-20	600	0.2	--	80.0/67.0	17.6	3.5	9.0	3.0	1	42VFC06	(2) (4)
FC-21	600	0.5	1/2	95.0/76.0	44.2	8.8	15.0	12.5	SCR	42DHA06	(3) (4)

- (1) @ 45.0°F EWT
- (2) FRONT-RETURN, TOP-SUPPLY, FLOOR CONSOLE COMPLETE WITH INTEGRAL THERMOSTAT, THROWAWAY FILTER, 3-WAY CONTROL VALVE (2-POSITION).
- (3) DEDICATED OUTDOOR AIR, DUCTED FAN COIL COMPLETE WITH SCR ELECTRIC HEAT, PLEATED FILTER, DISCHARGE AIR TEMPERATURE CONTROL AND DISCONNECT MEANS.
- (4) UNIT PART OF BID ALTERNATE. SEE FLOOR PLANS AND BID FORM.

-- ION GENERATORS --

ITEM	AHU NO.	MAX. TREATED AIRFLOW	QTY.	ELECTRODE PAIRS	DRY CONTACTS	POWER (VA)	VARIABLE OUTPUT WITH AIRFLOW	GLOBAL PLASMA MODEL NO.	REMARKS
IG-1 THRU IG-18	FC-3 THRU FC-20	600	18	1	INCLUDED	12	INTEGRAL	GPS-FC3-BAS	(1)(2)(3)(4)
IG-19	FC-21	2400	1	1	INCLUDED	4	INTEGRAL	GPS-FC24-AC	(1)(2)(3)(4)
IG-20 THRU IG-30	IHP-1 THRU 8, 12, 14, 15	2400	11	1	INCLUDED	4	INTEGRAL	GPS-FC24-AC	(1)(2)(3)
IG-31 THRU IG-35	IHP-9, 10, 11, 13	4800	5	1	INCLUDED	10	INTEGRAL	GPS-FC48-AC	(1)(2)(3)

- (1) INSTALL ION GENERATORS IN SUPPLY AIR DUCT OF EACH UNIT INDICATED. PROVIDE MULTIPLE UNITS WHERE SUPPLY AIRFLOW EXCEEDS MAX TREATED AIRFLOW.
- (2) ION GENERATORS SHALL BE POWERED FROM THE 24V AC FAN CONTROL CIRCUIT. LOOSE TRANSFORMERS ARE NOT ACCEPTABLE.
- (3) FAULT RESET SHALL BE AUTOMATIC. MANUAL FUSE REPLACEMENT WITH NOT BE ACCEPTED.
- (4) UNITS PART OF BID ALTERNATE. SEE FLOOR PLANS AND BID FORM.

-- FAN SCHEDULE --

ITEM	LOCATION	CFM	ESP	WATTS	RPM	MAX RPM	MAX SONES	GREENHECK MODEL NO.	REMARKS
N-F-1	TOILET	70	0.30	80	715	950	1.5	SP-B110	(1)(2)

- (1) COMPLETE WITH BACKDRAFT DAMPER, HANGING BRACKETS, METAL CEILING GRILLE AND DISCONNECT MEANS.
- (2) SWITCH WITH ROOM LIGHTS. FURNISH CONTACTORS AS REQUIRED.

-- PACKAGED HEAT PUMP SCHEDULE --

ITEM	SUPPLY CFM	ESP (IN. WG)	OA CFM	COOLING CAP. MBH (1)	SEER	HEATING CAP. MBH (1)		COP (1)		AUX. HEAT KW	STAGES	CARRIER MODEL NO.	REMARKS
						HI	LO	HI	LO				
RTU-1	800	0.5	0	22.8	15.0	23.4	12.2	3.9	2.3	5.4	4	50V4004	(2)(3)

- (1) RATINGS IN ACCORDANCE WITH APPROPRIATE A.H.R.I. STANDARD.
- (2) ROOFTOP PACKAGED HEAT PUMP UNIT WITH MANUFACTURER'S STANDARD PLEATED FILTER, POWERED CONVENIENCE OUTLET, AND ELECTRICAL DISCONNECT MEANS.
- (3) UNIT PART OF BID ALTERNATE. SEE FLOOR PLANS AND BID FORM.

-- DUCT HEATER SCHEDULE --

ITEM	WIDTH (IN.)	HEIGHT (IN.)	KW	STAGES	GREENHECK MODEL NO.	REMARKS
DH-1	20	10	4.0	SCR	42DHA06	(1)(2)

- (1) SEE DRAWINGS FOR ORIENTATION.
- (2) UNIT PART OF BID ALTERNATE. SEE FLOOR PLANS AND BID FORM.

-- INDOOR HEAT PUMP SCHEDULE --

ITEM	SUPPLY C.F.M.	EXT. S.P. (IN.) W.C.	O.A. C.F.M.	FAN HP	DRIVE	COOLING CAP. MBH (1)		AUX. HEAT STGS.		CARRIER MODEL NO.	REMARKS
						SENSIBLE	TOTAL	K.W.	STGS.		
IHP-1	800	0.5	0	1/2	DIRECT	18.3	24.0	5	1	FV4C_002	(2)
IHP-2	1050	0.5	0	1/2	DIRECT	25.0	35.0	9	3	FV4C_002	(2)
IHP-3	1600	0.5	150	3/4	DIRECT	39.0	48.0	9	3	FV4C_006	(2)
IHP-4	1050	0.5	80	1/2	DIRECT	25.0	35.0	9	3	FV4C_002	(2)
IHP-5	1600	0.5	110	3/4	DIRECT	39.0	48.0	9	3	FV4C_006	(2)
IHP-6	2000	0.5	120	3/4	DIRECT	44.0	57.4	15	3	FV4C_006	(2)
IHP-7	2000	0.5	100	3/4	DIRECT	44.0	57.4	15	3	FV4C_006	(2)
IHP-8	2000	0.5	140	3/4	DIRECT	44.0	57.4	15	3	FV4C_006	(2)
IHP-9	4000	0.6	245	3.7	BELT	89.5	120.0	15.0	1	40RUQ_12	(2)
IHP-10	6000	1.0	700	3.7	BELT	143.0	180.0	20.0	1	40RUQ_16	(2)
IHP-11	4000	0.6	550	3.7	BELT	89.5	120.0	15.0	1	40RUQ_12	(2)
IHP-12	1600	0.5	140	3/4	DIRECT	39.0	48.0	9	3	FV4C_006	(2)
IHP-13	3000	0.6	200	2.4	BELT	67.0	90.0	10.0	1	40RUQ_08	(2)
IHP-14	875	--	--	0.33 MCA	DIRECT	17.6	23.4	--	--	40MBCQ24	(3)
IHP-15	380	--	--	0.20 MCA	DIRECT	7.9	10.4	--	--	40MBCQ09	(3)
N-IHP-16	680	--	--	0.30 MCA	DIRECT	13.0	17.0	--	--	40MAQB18	(4)

- (1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.
- (2) VERTICAL INDOOR AIR HANDLING UNIT COMPLETE WITH PLEATED FILTERS AND BIPOLAR IONIZATION UNITS AS SCHEDULED.
- (3) CEILING CASSETTE INDOOR AIR HANDLING UNIT. PROVIDE WITH MANUFACTURER'S STANDARD WIRED CONTROLLER, WASHABLE FILTERS, BIPOLAR IONIZATION UNIT AS SCHEDULED, AND DISCONNECT MEANS.
- (4) HIGH-WALL INDOOR AIR HANDLING UNIT. PROVIDE WITH MANUFACTURER'S STANDARD WIRED CONTROLLER, WASHABLE FILTERS, AND DISCONNECT MEANS.

-- OUTDOOR HEAT PUMP SCHEDULE --

ITEM	COOLING CAP. MBH (1)	E.E.R. MIN.	HEATING CAP. MBH (1)		C.O.P. (1)		CARRIER MODEL NO.	REMARKS
			HI	LO	HI	LO		
OHP-1	24.0	13.0	25.0	15.3	3.90	2.70	25HC8624	--
OHP-2	36.0	13.3	35.8	22.6	4.00	2.70	25HC8636	--
OHP-3	47.0	12.5	47.0	29.2	3.65	2.40	25HC8648	--
OHP-4	36.0	13.3	35.8	22.6	4.00	3.00	25HC8636	--
OHP-5	47.0	12.5	47.0	29.2	3.65	2.40	25HC8648	--
OHP-6	56.5	12.5	58.0	36.0	3.82	2.75	25HC8660	--
OHP-7	56.5	12.5	58.0	36.0	3.82	2.75	25HC8660	--
OHP-8	56.5	12.5	58.0	36.0	3.82	2.75	25HC8660	--
OHP-9A	56.0	12.5	55.0	35.2	3.82	2.92	25HP8660	--
OHP-9B	56.0	12.5	55.0	35.2	3.82	2.92	25HP8660	--
OHP-10A	88.0	11.0	87.0	42.0	3.30	2.40	38AUQE08	--
OHP-10B	88.0	11.0	87.0	42.0	3.30	2.40	38AUQE08	--
OHP-11	88.0	11.0	87.0	42.0	3.30	2.40	38AUQE08	--
OHP-11B	88.0	11.0	87.0	42.0	3.30	2.40	38AUQE08	--
OHP-12	47.0	12.5	47.0	29.2	3.65	2.70	25HC8648	--
OHP-13	88.0	11.0	87.0	42.0	3.30	2.40	38AUQE08	--
OHP-14	24.0	11.0	24.0	16.2	3.45	2.70	40MBCQ24	--
OHP-15	9.0	13.0	10.0	6.7	3.30	2.35	40MBCQ09	--
N-OHP-16	18.0	12.5	18.0	10.8	3.10	2.60	38MAQB18	--

- (1) RATINGS IN ACCORDANCE WITH A.R.I. STANDARD 240.

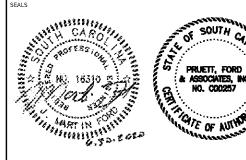
-- ELECTRIC HEATER SCHEDULE --

ITEM	LOCATION	WATTS	LENGTH (IN.)	Q-MARK MODEL NO.	REMARKS
N-BH-1	154 ADA LOBBY	250	28	DBA SERIES	(1)
N-BH-2	150 CORRIDOR	250	28	DBA SERIES	(1)
N-BH-3	150 CORRIDOR	250	28	DBA SERIES	(1)
N-BH-4	150 CORRIDOR	250	28	DBA SERIES	(1)
N-BH-5	154 CORRIDOR	200	28	DBA SERIES	(1)
N-BH-6	154 CORRIDOR	200	28	DBA SERIES	(1)
N-BH-6	264 ELEV. LOBBY	300	36	DBA SERIES	(1)
N-BH-7	250 CORRIDOR A	200	28	DBA SERIES	(1)
N-WH-1	155 TOILET	1800	--	AWH SERIES	(2)

- (1) FRONT-INLET BASEBOARD HEATER. PROVIDE WITH INTEGRAL THERMOSTAT AND PEDESTAL KIT AS REQUIRED FOR INSTALLATION.
- (2) WALL HEATER. PROVIDE WITH INTEGRAL THERMOSTAT AND RECESS TRIM.

H.V.A.C. LEGEND

SYMBOL	DESCRIPTION	
--- CWR ---	CHILLED WATER RETURN	
--- CWR ---	CHILLED WATER RETURN	
--- SL ---	REFRIGERANT SUCTION / LIQUID	
--- S ---	REFRIGERANT SUCTION	
--- L ---	REFRIGERANT LIQUID	
--- D ---	CONDENSATE DRAIN	
M	MOTORIZED VALVE - THREE WAY	
⊘	SHUTOFF VALVE	
⊘	CHECK VALVE	
⊘	STRAINER WITH BLOWOFF VALVE	
⊘	BALANCING VALVE	
⊘	CIRCUIT SETTER	
⊘	FLEXIBLE PIPE CONNECTOR	
⊘	CONCENTRIC REDUCER	
⊘	ECCENTRIC REDUCER	
⊘	FLANGE	
⊘	RAINER	
⊘	PIPE COCK	
⊘	RIP	
⊘	MANUAL AIR VENT	
⊘	THERMOSTAT 4'-6" A.F.	
⊘	HUMIDISTAT 4'-6" A.F.	
⊘	C.P.	CONTROL PANEL
⊘	FD	FIRE DAMPER
⊘	SD	SMOKE DAMPER
⊘	OBD	OPPOSED BLADE DAMPER
⊘	BDD	BACKDRAFT DAMPER
⊘	or C.F.M.	CUBIC FEET PER MINUTE
⊘	M-1	DETAIL NO. --- 1/M-1 SHEET NO. ---
⊘	⊘	SUPPLY DIFFUSER
⊘	⊘	RETURN OR EXHAUST GRILLE
⊘	or MVD	MANUAL VOLUME DAMPER
⊘	⊘	FLEXIBLE DUCT CONNECTION
⊘	⊘	LINED DUCT (SIZE SHOWN IS METAL SIZE)
⊘	⊘	SQUARE ELL WITH SINGLE THICK TURNING VANES
⊘	A	AIR DEVICE NECK CONNECTION SIZE
⊘	N	NEW TO EXISTING CONNECTION
⊘	A.F.	ABOVE FLOOR
⊘	RET.	RETURN (AIR - DUCT)
⊘	CONN.	CONNECTION
⊘	EXH.	EXHAUST
⊘	⊘	DIAMETER
⊘	TYP.	TYPICAL
⊘	⊘	RATED PARTITION, SEE ARCH.
⊘	⊘	DEMOLITION EXTENTS (DEMO. PLANS ONLY)
⊘	EWT	ENTERING WATER TEMPERATURE
⊘	LWT	LEAVING WATER TEMPERATURE
⊘	GPM	GALLONS PER MINUTE
⊘	PD	PRESSURE DROP
⊘	WPD	WATER PRESSURE DROP
⊘	NOM.	NOMINAL
⊘	EAT	ENTERING AIR TEMPERATURE
⊘	LAT	LEAVING AIR TEMPERATURE
⊘	ESP	EXTERNAL STATIC PRESSURE
⊘	APD	AIR PRESSURE DROP
⊘	DB	DRY BULB
⊘	WB	WET BULB
⊘	HP	HORSEPOWER
⊘	MBH	THOUSAND BTU'S PER HOUR
⊘	REFRIG.	REFRIGERANT
⊘	EER	ENERGY EFFICIENCY RATIO
⊘	SEER	SEASONAL ENERGY EFFICIENCY RATIO
⊘	COP	COEFFICIENT OF PERFORMANCE
⊘	OA	OUTSIDE AIR
⊘	FPM	FEET PER MINUTE



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SHEET ISSUE:
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 D 04/10/2020 Permit Set JMF
 E 07/02/2020 ISSUED FOR BIDS JMF

ISSUED FOR BIDS 07/02/2020
 PRINCIPAL IN CHARGE JMF
 PROJECT ENGINEER D.J.M.
 DRAWN BY R.W.W.

SHEET TITLE:
HVAC SCHEDULES

SHEET NO. PROJ. NO.
 M800 019477.01

1" = 32'
 PLOT DATE: 4/9/2020
 FILE NAME: 19088
 PLOT SCALE: 1 = 96
 RWW

Order Plans