

ROOF TOP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	AREA SERVED	SUPPLY FAN SECTION				FILTER SECTION			HEATING SECTION				EVAPORATOR SECTION BASED ON 95°F AMBIENT				ELECTRICAL			MINIMUM EER	WEIGHT (LBS)	ACCESSORIES			
				CFM	MIN. O.A. CFM	HP	E.S.P. IN. WG.	TYPE	SIZE	MERV	INPUT MBH (HIGH / LOW)	OUTPUT MBH (HIGH / LOW)	STAGES	E.A.T. (°F)	L.A.T. (°F)	NOMINAL TONS	COMPRESSORS	E.A.T. (°F)		L.A.T. (°F)					VOLTS PHASE	MCA	MOP
RTU-1	LENNOX	KBG074S4TU	SEE PLANS	2,400	150	2	0.8"	PLEATED	2"	8	108 / 81	86 / 65	2	66.6	104	6	1(2-STAGE)	76.1	63.4	55.7	53.2	460 / 3	16	20	11.2	850	1,2,3,4,5,6,7,8,9,10,11,12,13,14
RTU-2	LENNOX	KBG092S4MM	STORAGE RECEIVING	3,000	500	2	0.8"	PLEATED	2"	8	180 / 144	117 / 94	2	61.1	111	7.5	2	78.0	64.7	57.2	54.7	460 / 3	20	25	11	1,100	1,2,3,4,5,6,7,8,9,10,11,12,13,14
RTU-3	LENNOX	LGH240H4MM	SALES FLOOR	8,000	750	5	0.8"	PLEATED	2"	8	360 / 288	234 / 187	2	65.0	102	20	2	76.7	63.75	56.3	53.8	460 / 3	50	50	12	2,600	1,2,3,4,5,6,7,8,9,10,11,12,13,14
RTU-4	LENNOX	LGH240H4MM	SALES FLOOR	8,000	750	5	0.8"	PLEATED	2"	8	360 / 288	234 / 187	2	65.5	102	20	2	76.7	63.75	56.3	53.8	460 / 3	50	50	12	2,600	1,2,3,4,5,6,7,8,9,10,11,12,13,14
RTU-5	LENNOX	LGH240H4MM	SALES FLOOR	8,000	750	5	0.8"	PLEATED	2"	8	360 / 288	234 / 187	2	65.5	102	20	2	76.7	63.75	56.3	53.8	460 / 3	50	50	12	2,600	1,2,3,4,5,6,7,8,9,10,11,12,13,14
RTU-6	LENNOX	LGH240H4MM	SALES FLOOR	8,000	750	5	0.8"	PLEATED	2"	8	360 / 288	234 / 187	2	65.5	102	20	2	76.7	63.75	56.3	53.8	460 / 3	50	50	12	2,600	1,2,3,4,5,6,7,8,9,10,11,12,13,14

(APPROVED EQUAL: TRANE, CARRIER)

ACCESSORIES:

- UNIT CAPACITIES SHALL BE BASED ON A.R.I. CONDITIONS.
- RE-USE EXISTING THERMOSTATS AND REMOTE SENSORS.
- FACTORY MOUNTED NON-FUSED DISCONNECT SWITCH WITH PHASE MONITOR.
- 100% REFERENCE ENTHALPY "ECONOMIZER" CONTROLS WITH BAROMETRIC RELIEF.
- PROVIDE FACTORY MOUNTED RETURN AIR SMOKE DETECTOR.
- U.L. LISTED AND ASHRAE 90.1-2013 COMPLIANT WITH MULTI-SPEED SUPPLY FAN.
- 14" DOWN FLOW ROOF CURB.
- PROVIDE CRANKCASE HEATER.
- 2-STAGE COMPRESSOR / COOLING WITH FILTER/DRIER.
- TWO STAGE GAS HEAT WITH ALUMINIZED HEAT EXCHANGER.
- R-410A REFRIGERANT PIPING WITH SERVICE VALVES.
- PROVIDE HINGED ACCESS PANELS.
- PROVIDE HALL GUARDS ON CONDENSER COILS.
- PROVIDE HAS GAS REHEAT HUMIDROL DEHUMIDIFICATION CONTROL WITH SPACE HUMIDITY SENSOR.

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	AREA SERVED	LOCATION	AIRFLOW (CFM)	EXTERNAL S.P.	FAN (RPM)	FAN (BHP)	FAN (HP)	SONES	ELECTRICAL	NOTES
EF-1	GREENHECK	G-143-VG	BAKERY	ROOF	1,400	0.5"	1,050	0.24	1/2	8.1	115V / 1PH	1,2,3,4,5,6,7,8
EF-2	GREENHECK	G-099-VG	TOILET ROOMS	ROOF	700	0.5"	1,050	0.12	1/4	8.6	115V / 1PH	1,2,3,4,5,6,7,8

(APPROVED EQUAL: GREENHECK, ACME, COOK, PENN, TWIN CITY, RUPP AIR)

NOTES:

- FAN SHALL HAVE AMCA SEAL & BE U.L. CERTIFIED.
- FAN SHALL HAVE ALUMINUM BIRD-SCREEN.
- SAFETY DISCONNECT SWITCH.
- PROVIDE DUCT MOUNTED GRAVITY BACKDRAFT DAMPER.
- 12" INSULATED ROOF CURB.
- ECM MOTOR WITH POTENTIOMETER DIAL.
- FAN CONTROLLED BY TIME CLOCK.

GRILLES REGISTERS AND DIFFUSERS SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	NECK SIZE	DIFFUSER SIZE	FINISH	MOUNTING TYPE	CONSTRUCTION	NOTES
CD-1	PRICE	8" / 12"x12" / SPD / 31 / B12	6" Ø	12"x12"	WHITE	LAY - IN	STEEL	1
CD-2	PRICE	8" / 24"x24" / SPD / 31 / B12	8" Ø	24"x24"	WHITE	LAY - IN	STEEL	1
CD-3	PRICE	10" / 24"x24" / PDSP / 4 / B12	10" Ø (10"x10")	24"x24"	WHITE	LAY - IN	STEEL	1
EG-1	PRICE	12"x24" 80 / F / A / B12	8" Ø	12"x24"	WHITE	LAY-IN	ALUMINUM	1
EG-2	PRICE	24"x24" PDDR / 3 / B12	14" Ø	24"x24"	WHITE	LAY-IN	ALUMINUM	1
SG-1	PRICE	520 F / L / A	12"x8"	13.75"x9.75"	WHITE	SURFACE	STEEL	1
SG-2	PRICE	SDGE W/ AIR SCOOP	24"x8"	25"x8"	WHITE	DUCT	STEEL	1
RG-1	PRICE	80 / TB / A	10" Ø	12" x 24"	WHITE	LAY-IN	ALUMINUM	1
RG-2	PRICE	530 F / L / A	10" Ø	13.75"x9.75"	WHITE	SURFACE	STEEL	1
RG-3	PRICE	530 F / L / A	24"x20"	25.75"x21.75"	WHITE	SURFACE	STEEL	1
TAG-1	PRICE	80 / TB / A	10" Ø	12" x 24"	WHITE	LAY-IN	ALUMINUM	1
PD-1	CURBS PLUS	DLPD6 2510-20	30"x30"	57" H. HEXAGON x 1.5"	ALUMINIZED	DUCT	STEEL	1

(APPROVED EQUAL: TITUS)

NOTES:

- PROVIDE ALL ACCESSORIES NEEDED TO PROPERLY MOUNT DEVICES.

GAS FIRED UNIT HEATER SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	LOCATION	TYPE	AIR QUANTITY CFM	FUEL TYPE	GAS DATA		ELECTRICAL DATA			NOTES
							INPUT MBH	OUTPUT MBH	VOLTAGE / PHASE	MOTOR HP	AMPS @ 120V	
UH-1	STERLING	TFE	RECEIVING / STORAGE	TUBULAR PROPELLER	3,200	NATURAL	200	166	120 / 1	1/3	5.8	1, 2, 3, 4

NOTES:

- 5"Ø TYPICAL FLUE.
- SPARK ARRESTOR SYSTEM.
- THERMOCOIL FOR REMOTE MOUNTING.
- A.G.A. CERTIFIED.

OUTDOOR AIR CALCULATION SCHEDULE

UNIT	ROOM NAME	AREA SQ. FT. (Az)	MMC CLASSIFICATION	AREA OUTDOOR AIR RATE PER MMC TABLE 403.3 (Ra) CFM/SQ. FT.	AREA OUTDOOR AIR (Ra*Az) CFM	POPULATION (#/1000)	PEOPLE OUTDOOR AIR RATE PER MMC TABLE 403.3 (Rp) CFM/PERSON	OCCUPANT OUTDOOR AIR (Rp*Pz) CFM	BREATHING ZONE OUTDOOR AIR (Vbz*Rp*Pz+RaAz) CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS PER MMC TABLE 403.3 (Ez)	ZONE OUTDOOR AIR REQUIRED MMC TABLE 403.3 (Voz*Vbz/Ez) CFM	TOTAL OUTDOOR AIR REQUIRED WITHIN ZONE CFM
RTU-1	BREAK	311	BREAK	0.06	19	10	5.0	50.0	68.7	0.8	85.8	145
	CORRIDOR	367	CORRIDOR	0.06	22	0	0	0.0	22.0	0.8	27.5	
	ELECTRICAL	253	NOT CLASSIFIED	0.06	18	0	0	0.0	17.6	0.8	22.0	
	MECH./J.C.	66	STORAGE	0.12	8	0	0	0.0	7.9	0.8	9.9	
RTU-3	STORAGE RECEIVING	310	STORAGE	0.12	397	0	0	0.0	397.2	0.8	496.5	496
RTU-4	SALES FLOOR	8000	SUPERMARKET	0.06	1171	156	7.5	1171.2	2342.4	0.8	2928.0	2928
RTU-5	SALES FLOOR	8000	SUPERMARKET	0.06	1171	156	7.5	1171.2	2342.4	0.8	2928.0	2928
RTU-6	SALES FLOOR	8000	SUPERMARKET	0.06	1171	156	7.5	1171.2	2342.4	0.8	2928.0	2928
OS-1	OFFICE	115	STORAGE	0.06	7	1	5	4.6	11.5	0.8	14.4	14

DOOR AIR CURTAIN SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	MAX NOZZLE VELOCITY (FPM)	AVG. OUTLET VELOCITY (FPM)	AIR VOLUME (CFM)	MOTOR HP	DIMENSIONS (L x W x H)	WEIGHT (LBS.)	ELECTRIC CAPACITY (KW)	TEMP RISE (°F)	ELECTRICAL (VOLTS/PH)	NOTES
DAC-1	BERNER	ALC08-2096E	2,800	2,066	2,762	(2) 1/5	96.25"x14"x7.5"	108	28.8	33	480 / 3	1-6
DAC-2	BERNER	ALC08-2096E	2,800	2,066	2,762	(2) 1/5	96.25"x14"x7.5"	108	28.8	33	480 / 3	1-6

(APPROVED EQUAL: MARS MODEL HV)

NOTES:

- FACTORY INSTALLED "INTELLISWITCH" DIGITAL, PROGRAMMABLE CONTROLLER.
- WALL MOUNTING PLATE AND 1/4" THREADED INSERTS FOR TOP MOUNTING.
- SAFETY DISCONNECT SWITCH (BY ELECTRICAL).
- COLOR SELECTED BY OWNER.
- ALUMINUM CONSTRUCTION.
- MOUNT WITH BOTTOM OF UNIT AT 8'-0" A.F.F.

DUCTLESS SPLIT & AIR COOLED HEAT PUMP SCHEDULE

EVAPORATOR SECTION							AIR COOLED HEAT PUMP SECTION					REFRIGERANT	NOTES	
MARK	MANUFACTURER	MODEL NUMBER	TYPE	TOTAL COOLING (BTUH) @ 95°F	TOTAL HEATING (BTUH) @ 0°F	AIRFLOW (CFM) HIGH/MED/LOW	MARK	MANUFACTURER	MODEL NUMBER	ELECTRICAL DATA				
										VOLTAGE / PHASE	AMPS	MFS		
DS-1	DAIKIN	FCQ18PAVJU	CEILING CASSETTE	18,000	20,000	560/470/390	HP-1	DAIKIN	RZQ18PVJU9	208 / 1	16.5	20	R-410a	1,2,3,4,5,6,7,8,9,10

(APPROVED EQUAL: MITSUBISHI, FUJITSU, SANYO, LG, TRANE, CARRIER)

NOTES:

- PROVIDE OPTIONAL WIRED REMOTE CONTROLLER.
- PROVIDE WIRELESS REMOTE CONTROLLER WITH WALL MOUNT.
- PROVIDE 3-POLE SINGLE THROW SAFETY SWITCH FOR INTERIOR UNIT.
- REFRIGERANT PIPING TO BE SIZED BY THE MANUFACTURER.
- PROVIDE FRESH AIR INTAKE KIT. (BALANCE AIRFLOW TO 15 CFM)
- FACTORY MOUNTED CONDENSATE PUMP.
- INVERTER TYPE COMPRESSOR.
- AIR COOLED CONDENSING UNIT DISCONNECT SWITCH (BY ELECTRICAL).
- MOUNT AIR COOLED CONDENSING UNIT ON MIRO EQUIPMENT STAND. (REFER TO DETAIL)
- INDOOR UNIT POWERED SEPERATE FROM AIR COOLED CONDENSING UNIT.

DUCTWORK APPLICATION SCHEDULE

AIR SYSTEM	MATERIAL	DESIGN PRESSURE CLASSIFICATION (INCHED. WG)
SUPPLY AIR	GALVANIZED STEEL	+2
EXHAUST AIR	GALVANIZED STEEL	-2
RETURN AIR	GALVANIZED STEEL - GALVANIZED STEEL WITH 1" LINING	-2

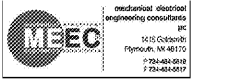


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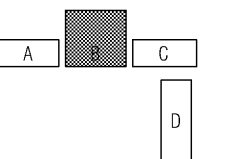
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CONSULTANT



KEY PLAN



OWNER

Suwanee Grocery, LLC

8110 N. Saint Louis Avenue
Skokie, IL 60076

PROJECT NAME

Suwanee Grocery, LLC
Building-B Build-Out

3230 Caliber Street
Suwanee, GA 30024

PROJECT NO.

16-177

ISSUES / REVISIONS

Bidding - Construction 04/30/18

DRAWN BY

WV

CHECKED BY

WV

APPROVED BY

JB

SHEET NAME

HVAC -
SCHEDULES

SHEET NO.

M4-01