

**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 15"	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	18.9	10	5.0	50.0	68.7	0.8	85.8	145
	CORRIDOR	367	CORRIDOR	0.06	22.0	0	0	0.0	22.0	0.8	27.5	
	ELECTRICAL	253	NOT CLASSIFIED	0.06	15.2	0	0	0.0	17.6	0.8	22.0	
	MECH./J.C.	66	STORAGE	0.12	7.9	0	0	0.0	7.9	0.8	9.9	
RTU-3	STORAGE RECEIVING	310	STORAGE	0.12	37.2	0	0	0.0	37.2	0.8	46.5	46.5
RTU-4	SALES FLOOR	8000	SUPERMARKET	0.06	480	156	7.5	1171.2	2342.4	0.8	2928.0	2928
RTU-5	SALES FLOOR	8000	SUPERMARKET	0.06	480	156	7.5	1171.2	2342.4	0.8	2928.0	2928
RTU-6	SALES FLOOR	8000	SUPERMARKET	0.06	480	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



**Statement of Intellectual Property:**

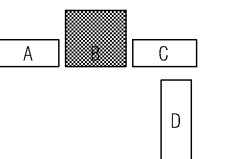
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**CONSULTANT**



**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