

SCHEDULE OF VENTILATION AIR FANS									
MARK	SERVICE	LOCATION	TYPE	MODEL No. ①	CFM	TOT. S.P. IN H ₂ O	HP	ELECTRIC SERVICE	REMARKS
(SF-1)	VENTILATION AIR	COMMUNITY FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	220	0.50	1/3	120/1/60	REFER TO ②③④
(SF-2)	VENTILATION AIR	ACADEMIC FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	250	0.50	1/3	120/1/60	REFER TO ②③④
NOTES ① AS MANUFACTURED BY "GREENHECK". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ INTAKE PLENUM SHALL BE INSULATED. ④ PROVIDE FAN WITH VARI-GREEN MOTOR SPEED CONTROL, OR EQUAL.									

SCHEDULE OF CABINET HEATERS									
MARK	TYPE UNIT	MODEL No. ①	CAPACITY DATA			MOTOR WAITS	MOTOR RPM	ELECTRIC SERVICE	REMARKS
			MBH	CFM	GPM	PD.FT.			
(CH-A)	CEILING MTD.	RC 1170 06	20.6	335	2.0	0.25	1/15	1050	120/1/60
(CH-B)	RECESSED WALL	RW 1120 06	20.6	335	2.0	0.25	1/15	1050	120/1/60
NOTES ① AS MANUFACTURED BY "STERLING". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 112 A.W.T. ④ PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT. ⑤ UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS. ⑥ PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 98 DEGREES F.									

SCHEDULE OF DUCT MOUNTED HOT WATER HEATING COILS												
MARK	BUILDING	SERVICE	H ₂ O DENSITY BTU/LHR	EAT. (°F)	LAT. (°F)	EWI. (°F)	UNIT. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS
(HC-1)	ACADEMIC	FIRST FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2
(HC-2)	ACADEMIC	SECOND FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2
(HC-3)	ACADEMIC	THIRD FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2
(HC-4)	ACADEMIC	FOURTH FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2
NOTES ① AS MANUFACTURED BY "NATIONWIDE COILS INC.". ② AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.30" S.P. ③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ④ COIL SHALL BE MINIMUM 2 ROWS WITH MINIMUM OF 8 FINS PER INCH. ⑤ 5/8" TUBE AND ALUMINUM FINS. ⑥ GALVANIZED PITCHED CASING.												

SCHEDULE OF CEILING RADIANT PANELS									
MARK	MODEL No. ①	SIZE			CAPACITY DATA ②			REMARKS	
		WIDTH (IN.)	LENGTH (IN.)	FACE AREA (FT²)	BTU/H	GPM	PRESS. DROP Δ HEAD (FT)		
(HCP-A)	TYPE LRP	24	96	8	MINIMUM	3500	0.5	1 FT. MAX	REFER TO ③④⑤
NOTES ① AS MANUFACTURED BY "STERLING". ② ENTERING WATER TEMPERATURE 122°F, 20° ΔT. ③ INSTALL PER THE MANUFACTURER'S INSTRUCTIONS. ④ CEILING GRID MOUNTED PANEL.									

SCHEDULE OF REGISTERS AND DIFFUSERS									
MARK	TYPE	SERVICE	MODEL No. ①	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS	
(A)	CEILING DIFFUSER	SUPPLY	SCD	4-WAY	OPPOSED BLADE	PER ARCH.	LAY IN	REFER TO ②③④	
(B)	CEILING REGISTER	RETURN	635	—			LAY IN	REFER TO ②③④	
(C)	CEILING REGISTER	EXHAUST	635	—			LAY IN	REFER TO ②③④	
(D)	SIDEWALL REGISTER	EXHAUST	96	—			SURFACE	REFER TO ②③④⑦	
(E)	SIDEWALL REGISTER	SUPPLY	920	DOUBLE DEFLECTION			SURFACE	REFER TO ②③④⑥⑦	
(F)	CIRCULAR DIFFUSER	SUPPLY	RCDA	360 DEGREE ADJUSTABLE THROW	BUTTERFLY		FREE HANG	REFER TO ②③④⑥⑦⑧	
(G)	SIDEWALL REGISTER	RETURN	96	—	OPPOSED BLADE		SURFACE	REFER TO ②③④⑦	
NOTES ① AS MANUFACTURED BY "PRICE". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT. ④ STEEL, HEAVY DUTY TYPE. ⑤ EQUALIZER GRID.									

SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)									
50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999	2000 TO 2499	2500 TO 2999	3000 TO 3499
6x6	9x9	12x12	15x15	18x18	21x21	24x24	27x27	30x30	36x36

RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)									
50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999	2000 TO 2499	2500 TO 2999	3000 TO 3499
6x6	8x8	10x10	12x12	14x14	16x16	18x18	21x21	24x24	27x27

SCHEDULE OF VRF DUCTLESS AIR SOURCE HEAT RECOVERY OUTDOOR UNITS												
GENERAL DATA				OUTDOOR CONDENSING UNIT INFORMATION						ELECTRICAL INFORMATION		
MARK	BUILDING	SERVICE	LOCATION	MODEL No. ①	COOLING CAPACITY BTU/LHR	HEATING CAPACITY BTU/LHR	QTY.	MOTOR OUTPUT (KW)	CONDENSER FAN DATA (QTY.) MOTOR OUTPUT (KW) & HP	V/PH/HZ	MCA	MOCP
(HU-1A)	ACADEMIC	FIRST FLOOR ERU-1	ROOF	MULTI V5 ARUM144 BTE5	144,000	162,000	2	8.0X2	2	1.0+1.0	208/3/60	51.1
(HU-1B)	ACADEMIC	FIRST FLOOR ERU-2	ROOF	MULTI V5 ARUN38 GSS4	38,000	42,000	1	8.0X1	2	1.0+1.0	208/1/60	25.0
(HU-2)	NOT USED	—	—	—	—	—	—	—	—	—	—	—
(HU-3)	ACADEMIC	FIRST FLOOR VRF INDOOR UNITS	ROOF	MULTI V5 ARUM241 BTE5	233,000	243,000	2	8.0X2	2	1.0+1.0	208/3/60	63.2
(HU-4)	ACADEMIC	SECOND FLOOR ERU-4	ROOF	MULTI V5 ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3
(HU-5)	ACADEMIC	SECOND FLOOR VRF INDOOR UNITS	ROOF	MULTI V5 ARUM456 BTE5	456,000	513,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+30.9+60.3
(HU-6)	ACADEMIC	THIRD FLOOR ERU-5	ROOF	MULTI V5 ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3
(HU-7)	ACADEMIC	THIRD FLOOR VRF INDOOR UNITS	ROOF	MULTI V5 ARUM456 BTE5	455,700	513,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+30.9+60.3
(HU-8)	ACADEMIC	FOURTH FLOOR ERU-6	ROOF	MULTI V5 ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3
(HU-9)	ACADEMIC	FOURTH FLOOR VRF INDOOR UNITS	ROOF	MULTI V5 ARUM480 BTE5	476,000	540,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+51.1+60.3
(HU-10)	ACADEMIC	FIRST FLOOR CAFETERIA ERUO-1	ROOF	MULTI V5 ARUM504 BTE5	504,000	567,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3
(HU-11)	ACADEMIC	HOT WATER HEATING SUPPLY	ROOF	MULTI V5 ARUM504 BTE5	COOLING NOT USED	567,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3
(HU-12)	ACADEMIC	HOT WATER HEATING SUPPLY	ROOF	MULTI V5 ARUM504 BTE5	COOLING NOT USED	567,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3
(HU-13)	ACADEMIC	FIRST FLOOR MEDICAL SUITE INDOOR UNITS	ROOF	MULTI V5 ARUM144 BTE5	144,000	162,000	2	8.0X2	1	1.0+1.0	208/3/60	51.1
(HU-14)	ACADEMIC	SECOND, THIRD, FOURTH FLOOR OFFICES	ROOF	MULTI V5 ARUM072 BTE5	72,000	81,000	1	8.0X1	1	1.0	208/1/60	22.6
(HU-15)	COMMUNITY	GYMNASIUM ERUO-3	ROOF	MULTI V5 ARUM504 BTE5	504,000	567,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3
(HU-16)	COMMUNITY	TLTS./LCKRS./LOBBY/OFFICES	ROOF	MULTI V5 ARUM121 BTE5	119,700	135,000	1	8.0X1	1	1.0	208/3/60	30.9
(HU-17)	COMMUNITY	TLTS./LCKRS./ERU-8	ROOF	MULTI V5 ARUM216 BTE5	216,100	243,000	2	8.0X2	2	1.0+1.0	208/3/60	60.3
NOTES ① AS MANUFACTURED BY "LG". ② COOLING BASED ON A.R.I. CONDITIONS. ③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ④ PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH. THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS. ⑤ PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD. ⑥ ADD ALTERNATE - GYM BASEMENT FITOUT.												

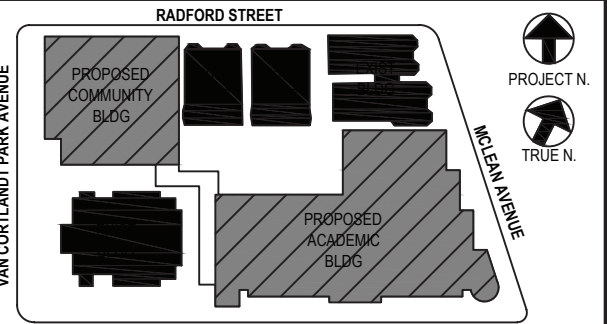
SCHEDULE OF EXHAUST FANS														
MARK	BUILDING	SERVICE	LOCATION	MODEL # ①	TYPE	CFM	EXT. S.P. IN H ₂ O	RPM	HP (WATTS)	ELECTRIC V/PH/HZ	SIZE (IN)	WEIGHT (LBS.)	REMARKS	
(EF-1)	ACADEMIC	ART STORAGE/ SCIENCE PREP ROOM	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1550	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-2)	ACADEMIC	FIRST FLOOR RECEIVING TOILET	CEILING	SP-A130-VG	CEILING CABINET	100	0.25	960	(25)	120/1/60	14x11x9	15	REFER TO ②③	
(EF-3)	ACADEMIC	FIRST FLOOR RECEIVING	RECEIVING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-4)	ACADEMIC	FIRST FLOOR LOADING DOCK	LOADING DOCK	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-5)	ACADEMIC	FIRST FLOOR KITCHEN HOOD	ROOF	CUBE-200HP	UP-BLAST CENTRIF.	4000	2.0	1600	3.0	208/3/60	30x30x28	150	REFER TO ②④⑤	
(EF-6)	ACADEMIC	FIRST/SECOND FLOOR TOILET EAST	ROOF	G-097-VG	CENTRIFUGAL	200	0.50	1550	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-7)	ACADEMIC	FIRST FLOOR NURSE TOILET/JAN. CLST.	CEILING	GSPA-A125	IN-LINE CENTRIFUGAL	150	0.25	980	(23)	120/1/60	13x10x9	20	REFER TO ②③	
(EF-8)	ACADEMIC	FIRST FLOOR FACULTY TOILETS	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	300	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-9)	ACADEMIC	FIRST/SECOND FLR. TOILETS/JAN. CLST. WEST	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1580	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-10)	ACADEMIC	FIRST FLOOR FACULTY KITCHENETTE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	300	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-11)	ACADEMIC	SECOND FLOOR TECHNOLOGY/MAKER SPACE	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1580	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-12)	COMMUNITY	STORAGE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.50	1550	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-13)	COMMUNITY	1ST FLOOR TOILETS	ROOF	G-098-VG	CENTRIFUGAL	350	0.50	1200	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-14)	ACADEMIC	FIRST FLOOR NURSE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	250	0.50	1550	(98)	120/1/60	14x12x12	25	REFER TO ②③	
NOTES ① AS MANUFACTURED BY "GREENHECK". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE ROOF CURB, FACTORY MOUNTED NEMA 3P DISCONNECT, INTERNALLY MOUNTED VARIABLE SPEED CONTROLLER AND MOTORIZED DAMPER. ④ PROVIDE ROOF CURB WITH VENTED EXTENSION, HINGED BASE KIT, AUTOMATIC BELT TENSIONER, WEATHER PROOF FACTORY MOUNTED DISCONNECT SWITCH. ⑤ PROVIDE ONE WALL MOUNTED EMERGENCY ON/OFF SWITCH TO DEACTIVATE EXHAUST FAN AND MAKE-UP AIR UNIT SUPPLY FAN. LABEL FAN SWITCH AS FOLLOWS: "EMERGENCY EXHAUST FAN/MAKE-UP AIR UNIT SHUT DOWN". ⑥ PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL, DISCONNECT SWITCH.														

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