AIR HANDLING UNIT SCHEDULE

MARK		MAKE	MODEL	ZONE SERVED	SUPPLY AIRFLOW (cfm)	SUPPLY AIRFLOW (L/s)	SUPPLY FAN E.S.P. (" w.c.)	SUPPLY FAN E.S.P. (Pa)	SUPPLY FAN: BLOWER QUANTITY	SUPPLY FAN: FAN AIRFLOW (EA.) (CFM)	SUPPLY FAN: FAN AIRFLOW (EA.) (L/s)	SUPPLY FAN: FAN POWER (EA.) (hp)	SUPPLY FAN: FAN POWER (EA.) (kW)	RETURN FAN E.S.P. (" w.c.)	RETURN FAN E.S.P. (Pa)	RETURN FAN POWER (hp)	RETURN FAN POWER (kW)	PRE-HEAT COIL (TOTAL COILS): HEATING CAPACITY (Btu/h)	PRE-HEAT COIL (TOTAL COILS): HEATING CAPACITY (kW)	PRE-HEAT COIL (TOTAL COILS): COIL FLOW (GPM)	PRE-HEAT COIL (TOTAL COILS): COIL FLOW (L/s)	PRE-HEAT COIL (TOTAL COILS): COIL HEAD (ftH2O)	PRE-HEAT COIL (TOTAL COILS): COIL HEAD (kPa)	COOLING COIL: COOLING CAPACITY: TOTAL (Btu/h)	COOLING COIL: COOLING CAPACITY: TOTAL (kW)	COOLING COIL: COOLING CAPACITY: TOTAL (tons)	COOLING COIL: COOLING CAPACITY: SENSIBLE (Btu/h)	COOLING COIL: COOLING CAPACITY: SENSIBLE (kW)	COOLING COIL: COIL FLOW (GPM)	COOLING COIL: COIL FLOW (L/s)	COOLING COIL: COIL HEAD (ftH2O)	COOLING COIL: COIL HEAD (kPa)	FILTERS	VOLTAGE	PHASE	DESIGN WEIGHT (lb)	DESIGN WEIGHT (kg)	MAXIMUM DIMENSIONS (LxWxH) (in)	NOTES
AHU	1	CARRIER	39MN SIZE 21W	AUDITORIUM	7600	3587	1.50	373	2	7600	3587	10.00	7.46	1.00	249	5.00	3.73	272000	80	30.20	1.91	9.20	27.50	216000	63	18.0	115000	34	44.00	2.78	13.60	40.65	50mm MERV8 / 300mm MERV13	575 V	3	3092	1458	193x84x60	1, 4
AHU	2	CARRIER	39MN SIZE 17W	LOBBY	5600	2643	1.50	373	2	5600	2643	10.00	7.46	1.00	249	5.00	3.73	187000	55	20.80	1.31	0.40	1.20	159000	47	13.3	105000	31	32.00	2.02	4.70	14.05	50mm MERV8 / 300mm MERV13	575 V	3	2728	1287	228x84x50	1, 4
AHU	3	CARRIER	39mn SIZE 03W	BASEMENT	1100	519	1.50	373	2	1100	519	1.50	1.12	1.00	249	1.00	0.75	33000	10	3.66	0.23	0.00	0.00	29000	8	2.4	22500	7	6.00	0.38	0.80	2.39	50mm MERV8 / 300mm MERV13	575 V	3	1228	579	139x37x37	1, 4
AHU	4	CARRIER		SENIORS CENTRE (FUTURE)	6000	2832	1.00	249				0.00	0.00																					575 V	3	0	0		5
DHU	1	DECTRON	LD-092-NT	POOL	11320	5342	1.00	249	2	11320	5342	15.00	11.19	0.00	0	0.00	0.00	275000	81	20.70	1.31	13.70	40.95	224700	66	18.7	122000	36	45.00	2.84	3.69	11.03	50mm MERV8	575 V	3	9400	4434	264x90x84	1, 2, 3, 4, 6

1. PROVIDE WITH CONTROL PANEL TO INTEFACE WITH BACNET BUILDING CONTROLS SYSTEM
2. SELECT WITH 2000 CFM OUTDOOR AIR AND 2200 CFM EXHAUST AIR.
3. PROVIDE 33% GLYCOL RUNAROUND COIL FOR HEAT RECOVERY.
4. HEATING COIL TO BE SELECTED FOR 35% PG.
5. AHU-4 SHOWN AS PLACEHOLDER FOR FUTURE USE.
6. DHU-1: PROVIDE EXHAUST FAN WITHIN UNIT CONFIGURATION, 2200CFM, 0.5"ESP, 3HP.

EQUALS/

AHU-1: TRANE CSAA021, DAIKIN CAH018GDAM, SUBJECT TO DIMENSIONS AND CLEARANCES
AHU-2: TRANE CSAA017, DIAKIN CAH013GDAM, SUBJECT TO DIMENSIONS AND CLEARANCES
AHU-3: TRANE CSAA003, DIAKIN CAH003GDAM, SUBJECT TO DIMENSIONS AND CLEARANCES
DHU-1: SERESCO NP-018-NT, SUBJECT TO DIMENSIONS AND CLEARANCES

2

3

FAN COIL SCHEDULE

MARK		MAKE	MODEL	ZONE SERVED	SUPPLY AIRFLOW (cfm)	SUPPLY AIRFLOW (L/s)	SUPPLY FAN E.S.P. (" w.c.)	SUPPLY FAN E.S.P. (Pa)	MINIMUM O/A (cfm)	MINIMUM O/A (L/s)	MINIMUM O/A (%)	FILTERS	MAXIMUM WEIGHT (lbs)	MAXIMUM WEIGHT (Kg)	VOLTAGE	PHASE	NOTES
FC	1	CARRIER	42DCA08	DRESSING ROOM	751	354	0.375	93	75	35	10.0	MERV 8	107	49	120 V	1	1
FC	2	CARRIER	42CEA06	LUNCH ROOM	471	222	0.375	93	60	28	12.7	MERV 8	94	43	120 V	1	1
FC	3	CARRIER	42DCA08	CLASSROOM	373	176	0.375	93	150	71	40.2	MERV 8	107	49	120 V	1	1
FC	4	CARRIER	42CEA06	OFFICE 96	175	83	0.375	93	50	24	28.6	MERV 8	94	43	120 V	1	1
FC	5	CARRIER	42CEA06	OFFICE 77	175	83	0.375	93	50	24	28.6	MERV 8	94	43	120 V	1	1

1. PROVIDE ELECTRICALLY COMMUTATED MOTORS (ECM)

EQUALS:

FC-1: DIAKIN FCHH205, TRANE FFCB, SUBJECT TO DIMENSIONS AND CLEARANCES
FC-2: DIAKIN FCHH206, TRANE FFCB, SUBJECT TO DIMENSIONS AND CLEARANCES
FC-3: DIAKIN FCHH204, TRANE FFCB, SUBJECT TO DIMENSIONS AND CLEARANCES
FC-4: DIAKIN FCHH202, TRANE FFCB, SUBJECT TO DIMENSIONS AND CLEARANCES
FC-5: DIAKIN FCHH202, TRANE FFCB, SUBJECT TO DIMENSIONS AND CLEARANCES

2

3

FAN COIL COIL SCHEDULE

MARK		HEATING COIL: CAPACITY (Btu/h)	HEATING COIL: CAPACITY (kW)	HEATING COIL: AIR TEMPERATURES EDB (°F)	EDB (°C)	LDB (°F)	LDB (°C)	FLUID TEMPERATURES EWT (°F)	EWT (°C)	LWT (°F)	LWT (°C)	MEDIUM	FLUID FLOW (gpm)	FLUID FLOW (L/s)	MAXIMUM FLUID PRESSURE DROP	COOLING COIL: COOLING CAPACITY TOTAL (Btu/h)	TOTAL (kW)	TOTAL (tons)	SENSIBLE (Btu/h)	SENSIBLE (kW)	AIR TEMPERATURES EDB (°F)	EDB (°C)	EWB (°F)	EWB (°C)	LDB (°F)	LDB (°C)	LWB (°F)	LWB (°C)	MEDIUM	FLUID FLOW (gpm)	FLUID FLOW (L/s)	MAXIMUM FLUID PRESSURE DROP	NOTES
FC	1	14253	4.2	70	21	94	34	155	68	125	52	35% PG	1.90	0.12	1.97 ftH2O	16668	4.9	1.4	10600	3.1	74	23	64	18	59	15	58	14	CHILLED WATER	3.10	0.20	1.35 ftH2O	1
FC	2	7431	2.2	70	21	86	30	155	68	125	52	35% PG	0.70	0.04	0.81 ftH2O	8907	2.6	0.7	8300	2.4	74	24	63	17	58	14	57	14	CHILLED WATER	1.90	0.12	2.09 ftH2O	1
FC	3	3834	1.1	71	22	81	27	155	68	125	52	35% PG	0.60	0.04	0.86 ftH2O	8303	2.4	0.7	7000	2.1	77	25	65	19	58	14	57	14	CHILLED WATER	2.80	0.18	1.50 ftH2O	1
FC	4	972	0.3	71	22	76	24	155	68	125	52	35% PG	0.20	0.01	0.06 ftH2O	1721	0.5	0.1	1600	0.5	75	24	65	18	58	14	57	14	CHILLED WATER	0.80	0.05	2.06 ftH2O	1
FC	5	835	0.2	71	22	79	26	155	68	125	52	35% PG	0.20	0.01	0.06 ftH2O	2375	0.7	0.2	2400	0.7	75	24	64	18	58	14	57	14	CHILLED WATER	0.80	0.05	2.06 ftH2O	1

3

HEAT/ENERGY RECOVERY VENTILATION UNIT SCHEDULE

MARK		MAKE	MODEL	RECOVERY CORE WINTER PERFORMANCE: MIN. SENSIBLE EFFICIENCY (%)	ENT AIR TEMP (F)	ENT AIR TEMP (C)	LVG AIR TEMP (F)	LVG AIR TEMP (C)	MAX. CORE VELOCITY (fpm)	MAX. CORE VELOCITY (m/s)	SUPPLY AIRFLOW (cfm)	SUPPLY AIRFLOW (L/s)	EXHAUST AIRFLOW (cfm)	EXHAUST AIRFLOW (L/s)	SUPPLY FAN E.S.P. (" w.c.)	SUPPLY FAN E.S.P. (Pa)	SUPPLY FAN POWER (hp)	SUPPLY FAN POWER (kW)	EXHAUST FAN E.S.P. ("w.c.)	EXHAUST FAN E.S.P. (Pa)	EXHAUST FAN POWER (hp)	EXHAUST FAN POWER (kW)	FILTERS	MAXIMUM DIMENSIONS: HEIGHT	MAXIMUM DIMENSIONS: LENGTH	MAXIMUM DIMENSIONS: WIDTH	MAXIMUM WEIGHT (lbs)	MAXIMUM WEIGHT (kg)	ELECTRICAL: VOLTAGE	ELECTRICAL: PHASE	NOTES
ERV	1	PRICE	PRC5000	86.6	-40	-40	55	13			6000	2832	6000 CFM	2832 L/s	1.0	249	5.00	3.73	1.5 in-wg	373 Pa	5.00 hp	3.73 kW	MERV 8	1981	3962	1829	7500	3402	575 V	3	1, 2

1. ERV SHALL BE SUPPLIED AS OUTDOOR UNIT.
2. ERV SHALL BE VARIABLE AIRFLOW OPERATION.

DIFFUSER & GRILLES SCHEDULE

MARK		MODEL	COUNT	BUILT-IN DAMPER	NOTES
S	1	6/24X24/SPD/31/B12	7		1
S	2	8/24X24/SPD/31/B12	7		1
S	3	10/24x24/SPD/31/B12	2		1
S	4	12X6/520D/F/L/A/B12	6	OPPOSED BLADE DAMPER	1
S	5	18X6/520/F/L/A/B12	12	NONE	1
S	6	10X5/520/F/L/A/B12	5	NONE	1
R	1	6X6/80/F/A/B12	27		
R	2	8X8/80/F/A/B12	12		
R	3	18X18/80/F/A/B12	3		
R	4	24X24/80/F/A/B12	2		2
R	5	8X4/530/F/L/A/B12	2	NONE	
R	6	12X6/530/F/L/A/B12	1	NONE	1
R	7	42X6/80/F/A/B12	12		1,3

1. COORDINATE FINISH WITH ARCHITECT.
2. PAINT EGG CRATE GRILLE BLACK. CONFIRM WITH THE ARCHITECT.
3. CONTRACTOR CONFIRM GRILLE MEASUREMENT ON SITE PRIOR TO SUBMITING SHOP DRAWINGS.

2

ROOF TOP UNIT SCHEDULE

MARK		MAKE	MODEL	ZONE SERVED	SUPPLY AIRFLOW (cfm)	SUPPLY AIRFLOW (L/s)	SUPPLY FAN E.S.P. (" w.c.)	SUPPLY FAN E.S.P. (Pa)	SUPPLY FAN POWER (hp)	SUPPLY FAN POWER (kW)	MINIMUM O/A (cfm)	MINIMUM O/A (L/s)	MINIMUM O/A (%)	HEAT OUTPUT (Btu/h)	FILTERS	COOLING CAPACITY: Total (Btu/h)	COOLING CAPACITY: Total (tons)	COOLING CAPACITY: Sen. (Btu/h)	COOLING CAPACITY: Sen. (tons)	ELECTRICAL: VOLTAGE	ELECTRICAL: PHASE	MAXIMUM WEIGHT (lbs)	MAXIMUM WEIGHT (kg)	NOTES
RTU	1	CARRIER	48GCTM06A1A5-0A0A0	GYM	2000	944	1.50	373	0.70	0.52	360	170	18.0	96000	THROWAWAY	64110	5.3	45880	3.8	208 V	3	688	312	

1. PROVIDE BACNET CONTROLS INTERFACE TO CONNECT TO BUILDING CONTROLS SYSTEM.

EQUALS: AAON RQ-006-4-V-HA02-33B

2

SILENCER SCHEDULE

MARK		MAKE	MODEL	SERVES	DESIGN AIR VOLUME (cfm)	DESIGN AIR VOLUME (L/s)	DESIGN AIR VELOCITY (fpm)	DESIGN AIR VELOCITY (m/s)	FLOW DIRECTION	DESIGN PRESSURE DROP (in-wg)	DESIGN PRESSURE DROP (Pa)	W (in)	W (mm)	H (in)	H (mm)	L1 (in)	L1 (mm)	L2 (in)	L2 (mm)	Insertion Loss (dB) 63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	NOTES
SL	1.1	Price	RM58/XB	AHU-1	7600	3587	986	5.01	SUPPLY	0.10	24.88	42	1067	32	2' - 8"	58	4' - 10"	0	0' - 0"	8	11	13	19	14	12	10	9	
SL	1.2	Price	ERM74/5A	AHU-1	7600	3587	986	5.01	RETURN	0.20	49.77	42	1067	20	1' - 8"	58	4' - 10"	58	4' - 10"	10	14	21	30	34	30	26	22	
SL	2.1	Price	RM36/4B	AHU-2	2750	1298	1100	5.59	SUPPLY	0.08	19.91	20	508	18	1' - 6"	36	3' - 0"	0	0' - 0"	4	7	11	21	21	16	14	12	
SL	2.2	Price	RM36/4B	AHU-2	2750	1298	1100	5.59	SUPPLY	0.08	19.91	20	508	18	1' - 6"	36	3' - 0"	0	0' - 0"	4	7	11	21	21	16	14	12	
SL	2.3	Price	RM36/5B	AHU-2	2750	1298	1000	5.08	RETURN	0.06	14.93	22	559	18	1' - 6"	36	3' - 0"	0	0' - 0"	5	8	12	21	19	14	12	10	
SL	2.4	Price	RM36/5B	AHU-2	2750	1298	1000	5.08	RETURN	0.06	14.93	22	559	18	1' - 6"	36	3' - 0"	0	0' - 0"	5	8	12	21	19	14	12	10	
SL	3.1	Price	RM36/3B	AHU-3	1100	519	489	2.48	SUPPLY	0.02	4.98	18	457	18	1' - 6"	36	3' - 0"	0	0' - 0"	4	7	11	21	21	16	14	12	
SL	3.2	Price	RM36/3B	AHU-3	1100	519	489	2.48	RETURN	0.02	4.98	18	457	18	1' - 6"	36	3' - 0"	0	0' - 0"	4	8	12	22	22	16	13	11	

LOUVER SCHEDULE

MARK		MANUFACTURER	MODEL	WIDTH in	WIDTH mm	HEIGHT in	HEIGHT mm	MAXIMUM RATED AIRFLOW CFM	MAXIMUM RATED AIRFLOW L/s	MAXIMUM ALLOWABLE PRESSURE DROP	NOTES
L	1	PRICE	DE635	48"	1220	66"	1680	6900 CFM	3256	0.12 in-wg	1
L	2	PRICE	DE635	48"	1220	66"	1680	6900 CFM	3256	0.12 in-wg	1
L	3	PRICE	DE635	48"	1220	66"	1680	6900 CFM	3256	0.12 in-wg	1
L	4	PRICE	DE635	20"	510	36"	910	3400 CFM	1605	0.12 in-wg	1

1. LOUVER COMPLETE WITH 1/2" BIRD SCREEN AND MOTORIZED DAMPER. FACTORY BAKED ENAMEL FINISH , COORDINATE COLOUR WITH THE ARCHITECT.

ROOF VENT SCHEDULE

MARK		MANUFACTURER	MODEL	THROAT WIDTH in	THROAT WIDTH mm	THROAT LENGTH in	THROAT LENGTH mm	MAXIMUM RATED AIRFLOW CFM	MAXIMUM RATED AIRFLOW L/s	MAXIMUM PRESSURE DROP	DUCTED	CURB HEIGHT	MATERIAL	SHIPS KNOCKED DOWN	ACCESSORIES
RV	1	GREENHECK	FGR-24X36	24"	610	36"	914	5277	2490	0.11 in-wg	Yes	18"	GALVANIZED STEEL	YES	
RV	2	GREENHECK	FGR-24X60	24"	610	60"	1524	8796	4151	0.11 in-wg	Yes	18"	GALVANIZED STEEL	YES	
RV	3	GREENHECK	FGR-12X18	12"	305	18"	457	1319	622	0.11 in-wg	Yes	18"	GALVANIZED STEEL	YES	
RV	5	GREENHECK	FGI-14X24	14"	356	24"	610	2215	1045	0.12 in-wg	Yes	18"	GALVANIZED STEEL	YES	
RV	6	GREENHECK	FGR-14X30	14"	356	30"	762	2565	1211	0.11 in-wg	Yes	18"	GALVANIZED STEEL	YES	
RV	7	GREENHECK	FGI-20X48	20"	508	48"	1219	6330	2987	0.12 in-wg	Yes	18"	GALVANIZED STEEL	YES	

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Project

ST. JAMES CIVIC CENTRE

Drawing

HVAC SCHEDULES

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