HRV SCHEDULE

NO.	LOCATION	MAKE	MODEL	AIRFLOW CFM (l/s)	PRESS. DROP IN. H_2O	MINIMUM SEASONAL EFFICIENCY %	UNIT WEIGHT LBS (KG)	# OF MOTORS	STARTER											POWER SUPPLY										CONTROLS						REMARKS
									SUPPLIED BY		INSTALLED BY		PACK	TYPE	VSD	MAN	FUNC.	PL.	PB.	HOA	HP (kw)	V/ø	FLA	MCA	MOCP	EM	FEEDER	CNDT	BRKR	CCT	INTERLOCK SUPPLIED BY		INTERLOCK INSTALLED BY		WITH	F.A. SHUT DOWN	
									MECH	ELEC	MECH	ELEC																			MECH	ELEC	MECH	ELEC			
HRV-1	CEILING SPACE OF STORAGE ROOM M09	TEMPEFF	RG 5400	3255	0.62	87.6 (WINTER) 77.9 (SUMMER)	2200 (1000)		•		•		YES								0.5	120/1ø			20A/1P		2#12	3/4"	20A/1P	C-40	•		•				HRV C/W DUAL CORE TECHNOLOGY WITHOUT FANS.

HEATING COIL SCHEDULE

NO.	LOCATION	MAKE	MODEL	AIRFLOW CFM (l/s)	MAXIMUM FACE VELOCITY FPM	MAXIMUM AIRFLOW PRESSURE DROP IN. H_2O (pa)	MAXIMUM WATER PRESSURE DROP FT. OF H_2O (pa)	HEATING COIL MEDIUM				HEATING COIL DATA						COIL SIZE				REMARKS
								ELEC	H_2O	PROP. GLYCOL	% GLYCOL	TOTAL BTUH (kw)	WATER FLOW GPM (l/s)	ENTERING AIR DRY BULB °F (°C)	LEAVING AIR DRY BULB °F (°C)	ENTERING GLYCOL TEMPERATURE °F (°C)	LEAVING GLYCOL TEMPERATURE °F (°C)	FIN. HEIGHT IN.	FIN. LENGTH IN.	FINS/INCH	ROWS	
HC-1	OFFICE	MCQUAY	5WH1003C	200 (94)	200	0.10"	0.1'			•	30%	4,401	0.3	55	75.1	110	79.8	12"	12"	10	3	DRAINABLE COIL WITH VENT & DRAIN.
HC-2	BOARDROOM	MCQUAY	5WH1206B	600 (282)	600	0.89"	0.1'			•	30%	13,200	0.9	55	75.1	110	79.8	12"	12"	12	6	DRAINABLE COIL WITH VENT & DRAIN.
HC-3	MINI GYM	MCQUAY	5WH1006B	4,670 (2,202)	566.10	0.70"	0.6'			•	30%	102,191	7.1	55	75	110	80	33"	36"	10	6	DRAINABLE COIL WITH VENT & DRAIN.
HC-4	VIEWING/GATHERING	MCQUAY	5WH1006B	2,800 (1,320)	553.10	0.68"	0.3'			•	30%	67,746	4.3	55	75.2	110	79.8	27"	27"	10	6	DRAINABLE COIL WITH VENT & DRAIN.

TANKS / EXPANSION VESSEL SCHEDULE

NO.	DESCRIPTION	LOCATION	MAKE	MODEL	FLUID TYPE	TANK CAPACITY GAL. (L)	MINIMUM ACCEPTANCE CAPACITY GAL. (L)	DESIGN PRESSURE H_2O (pa)	DIMENSIONS IN. (mm)		UNIT WEIGHT LBS (KG)	POWER SUPPLY								REMARKS
									L	DIA(ø)		HP (kw)	V/ø	MOCP	EM	FEEDER	CNDT	BRKR	CCT	
ET-1	EXPANSION TANK	MECHANICAL ROOM (BASEMENT)	TACO	CBX-84	30% PROP. GLYCOL	22 (84)	12 (45)	150 PSIG	38-9/16 (980)	16 (406)	150 (68)	N/A								BLADDER TYPE C/W SHELL- FABRICATED STEEL AS PER ASME SECTION VIII, DIV.1 & REMOVABLE HEAVY DUTY BUTYL BLADDER.
GT-1	GLYCOL TANK	MECHANICAL ROOM (BASEMENT)	AXIOM	SF-100	30% PROP. GLYCOL	55 (208)	-- (--)	-- (--)	-- (--)	-- (--)	35 (16)	0.5	120/1ø	20A/1P		2#12	3/4"	20A/1P	C-41	PACKAGED HYDRONIC SYSTEM FEEDER C/W PUMP STRAINER, PRESSURE SWITCH, VALVES & HOSE. SUITABLE FOR 115V/1PH/60HZ ELECTRICAL SUPPLY.

PUMP SCHEDULE

NO.	LOCATION	MAKE	MODEL	PUMP TYPE	FLUID TYPE	SIZE IN. X IN. X IN. (mm X mm X mm)	FLOW GPM (l/s)	HEAD FT (pa)	SPEED RPM	STARTER										POWER SUPPLY										CONTROLS						REMARKS
										SUPPLIED BY		INSTALLED BY		PACK	TYPE	VSD	MAN	FUNC.	PL.	PB.	HOA	HP (kw)	V/ø	FLA	MCA	MOCP	EM	FEEDER	CNDT	BRKR	CCT	INTERLOCK SUPPLIED BY		INTERLOCK INSTALLED BY		WITH	F.A. SHUT DOWN	
										MECH	ELEC	MECH	ELEC																			MECH	ELEC	MECH	ELEC			
P-1	MECHANICAL ROOM	ARMSTRONG	4360 (1.5B)	VERTICAL IN-LINE CENTRIFUGAL PUMP (PRIMARY WORKING)	30% PROPYLENE GLYCOL	13.38" X 8.75" X 16.31" (--)	30.6	20	1800		•		•		MAG			FVNR	YES		YES	0.5	120/1	9.8	12.3	24.5		2#12	3/4"	20A/1P	C-42		•		•	P-2		VERTICAL IN-LINE CENTRIFUGAL PUMP C.W CI VOLUTE & BRASS IMPELLER.
P-2	MECHANICAL ROOM	ARMSTRONG	4360 (1.5B)	VERTICAL IN-LINE CENTRIFUGAL PUMP (PRIMARY STANDBY)	30% PROPYLENE GLYCOL	13.38" X 8.75" X 16.31" (--)	30.6	20	1800		•		•		MAG			FVNR	YES		YES	0.5	120/1	9.8	12.3	24.5		2#12	3/4"	20A/1P	C-43		•		•	P-1		VERTICAL IN-LINE CENTRIFUGAL PUMP C.W CI VOLUTE & BRASS IMPELLER.
P-3	MECHANICAL ROOM	ARMSTRONG	1050 (2B)	IN-LINE CIRCULATORS (SECONDARY)	30% PROPYLENE GLYCOL	-- (--)	39.5	27	1800		•		•		MAG			FVNR	YES		YES	1	208/3	4.0	5.0	10.0		3#12	3/4"	15A/3P	C-44,45,46							CUSTOM IN-LINE CIRCULATOR WITH CI BODY & CAST-BRONZE IMPELLER.
P-4	MECHANICAL ROOM	ARMSTRONG	ASTRO 30	CLOSE COUPLED CIRCULATOR	HOT WATER	-- (--)	4	12	3600		•		•		MAG			FVNR	YES		YES	0.04	120/1					2#12	3/4"	15A/1P	C-47							CLOSE COUPLED WET-ROTOR CIRCULATOR WITH CI BODY & GLASS FILLED PROPYLENE IMPELLER.
SP-1	BASEMENT	BARNES	SP33X	SUMP PUMP	EFFLUENT	-- (--)	12	25	3450	•		•		•								1/3	120/1					2#12	3/4"	15A/1P	C-50							1/2" SPHERICAL SOLIDS HANDLING AUTOMATIC SUBMERSIBLE SUMP PUMP WITH HIGH AND LOW LEVEL ALARM.
SP-2	BASEMENT	BARNES	SP33X	SUMP PUMP	EFFLUENT	-- (--)	12	25	3450	•		•		•								1/3	120/1					2#12	3/4"	15A/1P	C-51							1/2" SPHERICAL SOLIDS HANDLING AUTOMATIC SUBMERSIBLE SUMP PUMP WITH HIGH AND LOW LEVEL ALARM.
SP-3	BASEMENT	BARNES	SP33X	SUMP PUMP	EFFLUENT	-- (--)	12	25	3450	•		•		•								1/3	120/1					2#12	3/4"	15A/1P	C-52							1/2" SPHERICAL SOLIDS HANDLING AUTOMATIC SUBMERSIBLE SUMP PUMP WITH HIGH AND LOW LEVEL ALARM.

HUMIDIFIER SCHEDULE

NO.	LOCATION	MAKE	MODEL	SERVICE	ENERGY SOURCE	POWER kW	AIRFLOW CFM (l/s)	OUTPUT STEAM CAPACITY kG/HR (LB/HR)	OPERATING UNIT WEIGHT LBS (KG)	STARTER						POWER									CONTROLS					REMARKS
										SUPPLIED BY		INSTALLED BY		PACK	VSD	HP (kw)	FLA	MCA	MOCP	EM	V/ø	FEEDER	BRKR	CCT	INTERLOCK SUPPLIED BY		INTERLOCK INSTALLED BY		WITH	
										MECH	ELEC	MECH	ELEC												MECH	ELEC	MECH	ELEC		
HU-1	GYMNASIUM	NORTEC	NHTC-100/208/3	GYMNASIUM (AHU-2)	ELECTRIC	34.0	-- (--)	-- (100)	156 (--)	•		•		•		(34.0)	94.4		125		208/3	3#1	125A/3P	MD-1	•		•			SELF CONTAINED ELECTRODE STEAM HUMIDIFIER C/W LCD GRAPHIC DISPLAY, MODULATING OUTPUT: 20'/-100%, DISPOSABLE CYLINDER & INTEGRAL CONTROLLER.
HU-2	MECHANICAL ROOM (BASEMENT)	NORTEC	NHTC-075/208/3	ENTIRE BUILDING (AHU-1)	ELECTRIC	25.5	-- (--)	-- (75)	156 (--)	•		•		•		(25.5)	70.8		90		208/3	3#3	90A/3P	MD-1	•		•			SELF CONTAINED ELECTRODE STEAM HUMIDIFIER C/W LCD GRAPHIC DISPLAY, MODULATING OUTPUT: 20'/-100%, DISPOSABLE CYLINDER & INTEGRAL CONTROLLER.

PROVINCE OF MANITOBA
G.S. REABURN
FEB 25/10
REGISTERED PROFESSIONAL ENGINEER

(MECHANICAL ITEMS ONLY)

PROVINCE OF MANITOBA
FEB 25 2010
K.E. ISAAK
REGISTERED PROFESSIONAL ENGINEER

(ELECTRICAL ITEMS ONLY)

APEGM
Certificate of Authorization
MCW/AGE Consulting Professional Engineers
No. 589 Expiry: April 30, 2010

D	ISSUED FOR TENDER	FEB 26, 2010
C	ISSUED FOR 99% REVIEW	FEB 10, 2010
B	ISSUED FOR 90% REVIEW	JAN 08, 2010
A	ISSUED FOR 60% REVIEW	DEC 02, 2009

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