

**DIRT & AIR SEPARATOR SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	DIAMETER		HEIGHT		CONNECTION SIZE DIAMETER		WEIGHT		NOTES
						[MM]	[IN]	[MM]	[IN]	[MM]	[IN]	[LB]	[KG]	
AS-1	Dirt & Air Separator	Mechanical Room	1	Armstrong	DAS-2-R	225	9	575	23	50	2	111	50	

**BACKDRAFT DAMPER SCHEDULE**

TAG	DESCRIPTION	LOCATION	Dampener QTY	MFG	MODEL	WIDTH		HEIGHT		NOTES
						[MM]	[IN]	[MM]	[IN]	
BDD-1	Backdraft Damper	Duct	2	RUSKIN	CBS8	200	8	200	8	1

Notes:  
1) HEAVY DUTY COUNTERBALANCED BACKDRAFT DAMPER

**BOILER SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	CAPACITY				EWT		LWT		VS-PH-HZ	WEIGHT		NOTES
						INPUT		OUTPUT		[°C]	[°F]	[°C]	[°F]		[LB]	[KG]	
						[KW]	[MBH]	[KW]	[MBH]	[°C]	[°F]	[°C]	[°F]				
B-1	Gas Fired Condensing Boiler	Mech Room	2	Camus	DMNH0291	78	299	78	291	75	115	75	145	120-1-60	237	108	1, 2

Notes:  
1) C/W two stage modulating controller and all safety items.  
2) C/W 848IF module control to one of the boiler.

**CONTROL VALVE SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	NORMINAL SIZE		CV	DIAMETER		LENGTH		NOTES
						[MM]	[IN]		[MM]	[IN]	[MM]	[IN]	
						CV-1	2-way Valve		Mech Room	2	Belimo	G225	
CV-2	3-way Diverting Valve	Mech Room	1	Belimo	G340D	40	1.5	28	41	1.6	135	5.4	2

Notes:  
1) Bronze trim globe valve with spring return on/off actuator.  
2) Bronze trim globe valve with spring return modulating actuator.

**GRILLE AND DIFFUSER SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	WIDTH		HEIGHT		NOTES
						[MM]	[IN]	[MM]	[IN]	
S-1	Louvered Diffuser	Mech Room	8	E H Price	610DAL	300	12	150	6	1
S-2	Louvered Diffuser	Stair Well	2	E H Price	610DAL	150	6	300	12	1
R-1	Return Grille	Stair Well	1	E H Price	610Z	400	16	500	20	2

Notes:  
1) Aluminum construction double deflection @ 19 mm spacing C/W balance damper  
2) Aluminum construction 45° deflection @ 19 mm spacing C/W aluminum balance damper

**HEAT RECOVERY VENTILATOR SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	FLOW RATE		SUPPLY FAN				RETURN FAN				WEIGHT		NOTES		
						[CFM]	[L/S]	E. S. P.		[RPM]	MOTOR		E. S. P.		[RPM]	MOTOR			[KG]	[LB]
						[IN H2O]	[Pa]	[HP]	[kW]	[IN H2O]	[Pa]	[RPM]	[HP]	[kW]						
HRV-1	Heat Recovery Unit	Stair Well Roof	1	NU AIR	NU1030	1,800	850	1.50	374	1725/1140	1.5	1.12	1.00	249	1725/1140	1	0.75	455	1,000	1, 2, 3, 4

Notes:  
1) C/W Bypass Defrost.  
2) Power supply VS-PH-HZ is 600/3/60.  
3) Exhaust fan with TEFC motor and motor located out of air stream.  
4) Two speed supply/exhaust fans.

**HEATING COIL SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	COIL SIZE WxH		FLOW RATE		EAT		LAT		APD	CAPACITY	FLOW		WPD	EWT	LWT		WEIGHT		NOTES		
						[mm x mm]	[in. x in]	[CFM]	[L/S]	[°C]	[°F]	[°C]	[°F]			[IN]	[MBH]			[GPM]	[FT]	[°C]	[°F]		[°C]	[°F]
HC-1	Heating Coil	Duct	1	McQuay	5WH1203B	600	600	24	24	1800	850	-24	-11	19	66.9	0.34	153	13.4	1.60	63	145	49	119.8	100	45	1

Notes:  
1) 50% Propylene Glycol

**TANK SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	TANK VOL		MAX ACCEP. VOL		DIAMETER		HEIGHT		WEIGHT		NOTES
						[GAL]	[L]	[GAL]	[L]	[MM]	[IN]	[MM]	[IN]	[KG]	[LB]	
ET-1	Expansion Tank	Mech Room	1	Amtrol	ST-12-C	6.4	24	3	12	300	12	400	16	36	79	1
ET-2	Expansion Tank	Mech Room	1	Amtrol	AX-15V	8.0	30	2.4	9	300	12	487.5	19.5	30	66	2
GFT-1	Glycol Fill Tank	Mech Room	1	Axiom	SF-100	55.0	208	/	/	600	24	1225	49	225	495	3

Notes:  
1) Precharged at 380 Kpa (55 PSIG) ASME for potable water at maximum pressure 690 KPA.  
2) Precharged ASME for hydronic system at maximum pressure 862 KPA.  
3) Pump power supply is 115/160.

**LOUVER SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	FLOW RATE		WIDTH		HEIGHT		NOTES
						[CFM]	[L/S]	[MM]	[IN]	[MM]	[IN]	
L-1	Ventilation Louver	Staircase Wall	1	E H Price	DE439	/	/	150	6	150	6	1, 2

Notes:  
1) C/W bird screen  
2) Colour to be standard

**PLUMBING FIXTURE SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	REMARKS
SK-1	Handwash Sink	Equipment Room	1	Metal-Tech	DDCS-1DB-2424	Stainless Steel single Compartment Sink c/w one right hand integral drainboard, lever waste with overflow and as adjustable bullet feet.
	Bedpan Cleanser Faucet		1	American Standard	7866 015	Wall nozzle with hook. Spray end with self-closing valve 4 feet rubber hose. Exposed Yoke Wall-Mount Utility Faucet Top brace. Vacuum breaker. Stops in shanks. Brass lever handles. 6" (152mm) threaded spout. 1/2" NPT female inlets.
	Wall-Mount Faucet		1		8344 112	Metal angle stops, adaptors, escutcheons and metal flexible risers, P-Trap cast brass with cleanout, union and escutcheon. Loton dispenser, paper dispenser or hand dryer included.
	Accessories					
FD-1	Floor Drain	Equipment Room	2	ZURN	Z415B-AR	50mm pipe size for 150mm strainer C/W acid resisting epoxy coated cast iron.
FD-2	Hub Floor Drain	Main Floor Stair Well	2	ZURN	ZN-415-BF-AR	50mm pipe size for 150mm strainer C/W acid resistant epoxy coated cast iron.
HR-1	Hose Reel	Equipment Room	1	ZURN	Z89100-PR1	7.6 m (25') length rubber hose for 414 Ka pressure, a hose bumper a hose bend restrictor, a self closing pre-rinse valve with straight nozzle and diffuser, a angled pre-rinse spray head and a elevated vacuum breaker.
TP-1	Trap Primer	Equipment Room	1	ZURN	Z1020	Electronic programed with 5 outlets

**PUMP SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	FLOW RATE		HEAD		PUMP	MOTOR		VS-PH-HZ	WEIGHT		NOTES
						[GPM]	[L/S]	[FT]	[M]		[RPM]	[HP]		[KW]	[LB]	
P-1	Boiler Pump	Mech Room	2	Bell Gossett	1X1.25X6 Series 3530	25	1.6	55	17	3500	0.75	0.5625	575-3-60	30	14	1
P-2	Pad Loop Pump	Mech Room	1	Bell Gossett	1X1.25X6 Series 3530	12	0.8	35	11	1750	0.75	0.5625	575-3-60	30	14	1
SMP-1	Submersible Pump	Stair Well	1	Zoller	6280	40	2.5	18	5	1750	0.50	0.375	120-1-60	96	44	2

Notes:  
1) Stainless construction C/W TEFC motor, built-in overload protection and suction guide.  
2) C/W supports controls, discharge check valve and all necessities. 50mm Discharge.

**UNIT HEATER SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	FLOW RATE		MOTOR	CAPACITY	FLOW	PRESS DROP	VS-PH-HZ	WEIGHT		NOTES	
						[CFM]	[L/S]						[HP]	[kW]		[MBH]
UH-1	Hydronic Unit Heater	Stairwell & Mech Room	2	Rittling	RH86	1340	632	0.25	0.187	31.2	3.0	0.47	115-1-60	100	45	1, 2

Notes:  
1) Explosion Proof motor C/W unit built-in thermostat and Roof Mounting Brackets.  
2) Performance Data at Standard Conditions of 200 °F Entering Water, 60 °F Entering Air, and 20 °F Water Temperature Drop. - High Motor Speed.

**WATER HEATER SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	CAPACITY		TANK SIZE	RECOVERY RATE GPH @ 56°C RISE	ELEMENT	VS-PH-HZ	OPERATION WEIGHT		NOTES
						[KW]	[MBH]					[GA]	[LB]	
DWH-1	Electric Water Heater	Mechanical Room	1	A.O.Smith	DEL-20	3	10	20	12	1	208-3-60	242	110	1

Notes:  
1) C/W all controls & safeties

**EXHAUST FAN SCHEDULE**

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	FLOW RATE		STATIC PRESSURE		FAN	MOTOR		VS-PH-HZ	WEIGHT		NOTES
						[CFM]	[L/s]	[IN H2O]	[Pa]		[RPM]	[HP]		[kW]	[LB]	
EF-1	FRP In line fan	Mechanical Room	1	Plasticair	BIF-18F	220	104	0.75	187	1561	0.5	0.37	208-3-60	150	68	1

Notes:  
1) AMCA Certified spark resistant fan with explosion proof motor.

LOCATION APPROVED UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE DATE

NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M. ELEV.	
A	ISSUED FOR TENDER
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DATE: 09.11.13

ENGINEER'S SEAL

BID OPPORTUNITY NO. 822-2009

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

**Winnipeg**

**NORTH END WATER POLLUTION CONTROL CENTRE**  
HAULED WASTEWATER RECEIVING FACILITIES  
LEACHATE RECEIVING BUILDING  
MECHANICAL SCHEDULES

CITY DRAWING NUMBER 1-0101A-M0012-001

SHEET 1 OF 1

**APEGM**  
Certificate of Authorization  
Stantec Consulting Ltd.  
No. 1301 Date: / /