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	Mechaical Room	1	Armstrong	DAS-2-R	225	9	575	23	50	2	111	50	

BACKDRAFT DAMPER SCHEDULE

TAG	DESCRIPTION	LOCATION	Damper 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									
						[KW]	[MBH]	[KW]	[MBH]	[°C]	[°F]	[°C]	[°F]		[LB]	[KG]	
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	25	1	14	38	1.5	116	4.7	1
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 45º 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
								E. S. P.		[RPM]	MOTOR	E. S. P.		[RPM]	MOTOR			
						[CFM]	[L/S]	[IN H2O]	[Pa]		[HP] [kW]	[IN H2O]	[Pa]		[HP] [kW]	[KG]	[LB]	
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	[LB]	[KG]	
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 115/1/60.

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 ss 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.
	Wall-Mount Faucet		1		8344 112	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
	Accessories					Metal angle stops, adaptors, escutcheons and metal flexible risers, P-Trap cast brass with cleanout, union and escutcheon. Lotion dispenser, paper dispenser or hand dryer included.
FD-1	Floor Drain	Equipment Room	2	ZURN	Z415B-AR	50mm pipe size for 150mm strainer C/W acid resisting epoxy coted 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]	[KG]	
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 necessaries. 50mm Discharge.

UNIT HEATER SCHEDULE

TAG	DESCRIPTION	LOCATION	QTY	MFG	MODEL	FLOW RATE		MOTOR		CAPACITY	FLOW	PRESSURE DROP	VS-PH-HZ	WEIGHT		NOTES
						[CFM]	[L/S]	[HP]	[kW]	[MBH]	[GPM]	[FT]		[LB]	[KG]	
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 based on 50% Propylene Glycol at 145 °F Entering Temperature and 120 °F Leaving Temperature.

1

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]	[KG]	
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 & safetles

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]	[KG]	
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
EF-2	FRP In line fan	Dewatering Facility Truck Bay	1	Plasticair	BIF-18F	560	264	3	747	2847	1.5	1.12	208-3-60	160	73	1

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

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

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.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR ADDENDUM		
A	ISSUED FOR TENDER	10.02.16	L.W.

Stantec Consulting Ltd.
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DESIGNED BY	L.W.	CHECKED BY	A.B.
DRAWN BY	J.L.T.	APPROVED BY	A.B.
HOR. SCALE: VERTICAL:	AS NOTED	RELEASED FOR CONSTRUCTION:	
DATE	09.11.13	DATE	

ENGINEER'S SEAL
ORIGINAL DRAWING SEALED BY L. WANG MEMBER 32403 Stantec Consulting Ltd. 2010-02-16

BID OPPORTUNITY NO. 822-2009

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

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

CITY DRAWING NUMBER I-0101A-M0006-001

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