

ABBREVIATION LEGEND

METH - METHANOL
 EG - ETHYLENE GLYCOL
 PG - PROPYLENE GLYCOL
 DE - DENATURED ETHANOL
 EAT - ENTERING AIR TEMPERATURE
 LAT - LEAVING AIR TEMPERATURE
 EWT - ENTERING WATER TEMPERATURE
 LWT - LEAVING WATER TEMPERATURE
 DB - DRY BULB
 WB - WET BULB
 dB - DECIBELS
 MECH - MECHANICAL
 ELEC - ELECTRICAL
 NG - NATURAL GAS
 PROP - PROPANE
 REFRIG - REFRIGERANT
 ESP - EXTERNAL STATIC PRESSURE
 EM - EMERGENCY
 VSD - VARIABLE SPEED DRIVE
 V/ø - VOLTAGE/PHASE
 COND - CONDUIT
 BRKR - BREAKER
 CCT - CIRCUIT
 FUNC - FUNCTION
 FVNR - FULL VOLTAGE NON-REVERSING
 RVNR - REDUCED VOLTAGE NON-REVERSING
 PL - PILOT LIGHT
 PB - PUSH BUTTON
 HOA - HANDS OFF AUTO
 HP - HORSEPOWER
 FLA - FULL LOAD AMPS
 MCA - MINIMUM CIRCUIT AMPACITY
 MOCP - MAXIMUM OVER CURRENT PROTECTION

ELECTRICAL SCHEDULE NOTES

1. MOUNT, WIRE, AND CONNECT REMOTE THERMOSTAT AS SUPPLIED BY MECHANICAL. REFER TO MECHANICAL DRAWING LOCATION.
2. PROVIDE WALL MOUNTED TOGGLE SWITCH AT LOCATION SHOWN ON DRAWINGS.
3. WIRE AND CONNECT DUPLEX CONTROLLERS AS SUPPLIED BY MECHANICAL. REFER TO WIRING SCHEMATIC. WIRE AND CONNECT REMOTE ALARMS AND LIGHTS.
4. MOUNT, WIRE, AND CONNECT MASTER CONTROL PANEL AND INDIVIDUAL ROOM SWITCHES AS SUPPLIED BY MECHANICAL TO OPERATE HEAT RECOVERY VENTILATOR (HRV) UNIT.

PLUMBING FIXTURE SPECIFICATION:

- WC-1** KOHLER WELLWORTH K-4406 ELONGATED TOILET BOWL, FLOOR MOUNTED, 28-1/4"(718MM) X 14-7/8" (378MM) X 15"(381MM), VITREOUS CHINA, 10"(250MM) OR 12"(300MM) ROUGH IN, 1-1/2"(38MM) TOP SPUD, 2-1/4"(57MM) PASSAGEWAY, 11"(279MM) X 9"(229MM) WATER AREA, 1.28GPF(4.8LPF), KOHLER STRONGHOLD K-4731-SC ELONGATED OPEN FRONT TOILET SEAT WITH SELF SUSTAINING CHECK HINGE, SOLID POLYPROPYLENE RESISTANT TO STAINING, FADING, CHIPPING AND PEELING. KOHLER TRIPPOINT DC K-10956 TOUCHLESS TOILET FLUSHOMETER, 1.28GPF(4.8LPF), SOLID METAL CONSTRUCTION, FIXTURE MOUNT DESIGN, REQUIRES 4 1.5V AA ALKALINE BATTERIES, ELECTRONIC INFRARED SENSOR, DESIGNED FOR TOILETS WITH 1-1/2"(38MM) TOP SPUD COUPLING CONNECTION. PROVIDE WAX RING AND CLOSET BOLTS.
- WC-2** KOHLER WELLWORTH K-4405 ELONGATED TOILET BOWL, FLOOR MOUNTED, 28-1/4"(718MM) X 14-7/8" (378MM) X 17-1/8"(435MM), VITREOUS CHINA, 10"(250MM) OR 12"(300MM) ROUGH IN, 1-1/2"(38MM) TOP SPUD, 2-1/4"(57MM) PASSAGEWAY, 11"(279MM) X 9"(229MM) WATER AREA, 1.28GPF(4.8LPF), KOHLER LUSTRA K-4650 ELONGATED OPEN FRONT TOILET SEAT WITH LID, SOLID POLYPROPYLENE, STAINLESS STEEL MOUNTING BOLTS. KOHLER TRIPPOINT DC K-10956 TOUCHLESS TOILET FLUSHOMETER, 1.28GPF(4.8LPF), SOLID METAL CONSTRUCTION, FIXTURE MOUNT DESIGN, REQUIRES 4 1.5V AA ALKALINE BATTERIES, ELECTRONIC INFRARED SENSOR, DESIGNED FOR TOILETS WITH 1-1/2"(38MM) TOP SPUD COUPLING CONNECTION, C/W FLUSHOMETER EXTENSION KIT GP1118986. PROVIDE WAX RING AND CLOSET BOLTS.
- UR-1** KOHLER BARDON K-4991-ET HIGH EFFICIENCY WASHOUT URINAL, VITREOUS CHINA, 3/4"(19MM) TOP SPUD, 0.5GPF(1.9LPF), 14"(356MM) EXTENDED RIM. KOHLER TRIPPOINT DC K-10958 TOUCHLESS URINAL FLUSHOMETER, 0.5GPF(1.9LPF), BRASS CONSTRUCTION, FIXTURE MOUNT DESIGN, REQUIRES 1.5V AA ALKALINE BATTERIES, ELECTRONIC INFRARED SENSOR, SLOW CLOSING PISTON, DESIGNED FOR URINALS WITH 3/4"(19MM) TOP SPUD COUPLING CONNECTION. PROVIDE FLOOR SUPPORT CARRIER.
- LAV-1** DELTA 591TP1230 WITH SURFACE MOUNT CONTROL BOX AND SINGLE INLET SUPPLY, CHROME PLATED CAST 4"(102MM) SPOUT BODY, TOUCHLESS BATTERY POWERED OPERATION, REQUIRES 4 "C" CELL BATTERIES, ADJUSTABLE SENSING RANGE AND TIMEOUT, FORGED BRASS SOLENOID VALVE, SERVICEABLE FILTER SCREEN UPSTREAM OF VALVE, C/W VANDAL RESISTANT 0.5GPM(1.9LPM) FLOW CONTROL AERATOR, HOT AND COLD INLET SUPPLIES, POINT OF USE THERMOSTATIC MIXING VALVE, INTEGRAL CHECK VALVES IN HOT AND COLD INLETS TO PREVENT CROSSFLOW, OUTLET TEMPERATURE RANGES 95-120°F(35-49°C). PROVIDE 2"(50MM) ADJUSTABLE P-TRAP WITH CLEANOUT PLUG AND OPEN GRID DRAIN.
- FD-1** WATTS DRAINAGE PRODUCTS FD-103-NH-C-FC7-6 EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP WITH PRIMARY AND SECONDARY WEEPHOLES, 1/4" THICK 7"(178MM) ADJUSTABLE NICKEL BRONZE STRAINER WITH SURFACE MEMBRANE CLAMP AND NO HUB 3"(76MM) OUTLET.
- HB-1** JAY R SMITH GUARDIAN DUAL CHECK BRONZE 1/4 TURN NON FREEZE WALL HYDRANT WITH AUTOMATIC DRAINING INTEGRAL VACUUM BREAKER, HOSE CONNECTION, DUAL CHECK VALVE, T-HANDLE KEY, WHEEL HANDLE AND STAINLESS BOX WITH FULL 180° COVER OPENING.
- MS-1** FIAT MODEL MSBID242100 MODESTO SQUARE MOP SERVICE SINK, SQUARE MOLDED STONE MOP SERVICE BASIN WITH 10"(254MM) DEEP PLAIN CURBS, INTEGRAL DRAIN IS MOLDED INTO A ONE PIECE UNIT AND DESIGNED TO CONNECT TO A 3" DRAIN PIPE. DELTA MODEL 28C8183 HEAVY DUTY CAST BRASS WALL MOUNT SERVICE SINK FAUCET WITH INTEGRAL STOPS, 8"(203MM) CENTERS, 3"(76MM) LEVEL BLADE HANDLES - ADA COMPLIANT METAL COLOR INDEXED VANDAL RESISTANT SCREWS, 1/4 TURN CERAMIC CARTRIDGE, ROUGH CHROME PLATED FINISH, HEAVY DUTY 1/2" IPS BRASS PIPE RIGID PAIL HOOK SPOUT, SIDE AND RIM GUARDS AND MOP HANGER.

HRV SCHEDULE

NO.	LOCATION	MAKE	MODEL	AIRFLOW 1/s		EXTERNAL STATIC PRESS. pa	HP	PROVIDE PREHEAT COIL Y/N	MINIMUM SEASONAL EFFICIENCY %	# OF FANS	UNIT WEIGHT KG	CONTROLS					FLA	MCA	MOCP	POWER					REMARKS			
				OUTDOOR AIR	EXHAUST AIR							INTERLOCK			F.A. SHUT DOWN	DATA CONN.				NOTES	PANEL	EM	V/ø	FEEDER		COND	BRKR	CCT
												SUPPLY	INSTALL	WITH														
HRV-1	MULTI-PURPOSE ROOM CLOSET	RENEWAIRE	EV300	142	142	124.4	FRAC	YES	62	1	32.7	MECHANICAL	ELECTRICAL	PHC-1	NO	NO	N/A	3.3	4.1	8.3	NO	120V/1ø	2 #12 RW90	1/2" (16MM)	15A/1P	B-5	--	
HRV-2	MECHANICAL ROOM	VENMAR	6LC	260	295	124.4	1/4	YES	55	2	77	MECHANICAL	ELECTRICAL	PHC-2	NO	NO	N/A	5.8	7.3	14.5	NO	120V/1ø	2 #12 RW90	1/2" (16MM)	15A/1P	A-1ø	--	

FAN SCHEDULE

NO.	LOCATION	MAKE	MODEL	FAN TYPE	AIRFLOW 1/s	EXTERNAL STATIC PRESS. pa	HP	SPEED RPM	UNIT WEIGHT W/O ACCESS. KG	CONTROLS					FLA	MCA	MOCP	POWER					STARTER					REMARKS					
										INTERLOCK			F.A. SHUT DOWN	DATA CONN.				NOTES	PANEL	EM	V/ø	FEEDER	COND	BRKR	CCT	TYPE	SUPPLY		INSTALL	FUNC	PL	PB	HOA
										SUPPLY	INSTALL	WITH																					
F-1	MULTI-PURPOSE ROOM CLOSET	S&P	CFD07	IN LINE CENTRIFUGAL	378	248.8	1/2	1483	19.5	--	NO	NO	N/A	4.9	6.1	12.3	NO	240V/1ø	2 #12 RW90	1/2" (16MM)	15A/2P	B-6,7	MANUAL	ELECTRICAL	ELECTRICAL	*	*	--					

COIL SCHEDULE

NO.	LOCATION	MAKE	MODEL	AIRFLOW 1/s	MAXIMUM AIRFLOW PRESSURE DROP pa	kW	HEATING COIL DATA				CONTROLS					FLA	MCA	MOCP	POWER					REMARKS					
							TOTAL kW	EAT DB °C	LAT DB °C	SCR (BY MECHANICAL)			INTERLOCK						F.A. SHUT DOWN	DATA CONN.	NOTES	PANEL	EM		V/ø	FEEDER	COND	BRKR	CCT
										TYPE	STAGES	REMOTE FEEDER	SUPPLY	INSTALL	WITH														
PHC-1	MULTI-PURPOSE ROOM CLOSET	THERMOLEC	TER-10-5240	142	--	5.0	5.0	-37.2	-7.9	FULL SCR	MECHANICAL	ELECTRICAL	HRV-1	NO	NO	N/A	20.8	26	26	NO	240V/1ø	2 #10 RW90	1/2" (16MM)	30A/2P	B-8,9	--			
PHC-2	MECHANICAL ROOM	THERMOLEC	SC-14-1410-240/1-SCR-S2	260	--	14.0	14.0	-37.2	7.5	FULL SCR	MECHANICAL	ELECTRICAL	HRV-2	NO	NO	N/A	58.3	72.9	72.9	NO	240V/1ø	2 #4 RW90	1" (27MM)	80/2P	A-19,20	--			
HC-1	MULTI-PURPOSE ROOM CLOSET	THERMOLEC	SC-10-1410-240/1-SCR-S2	378	--	10.0	10.0	13.2	35.2	FULL SCR	MECHANICAL	MECHANICAL	THERMOSTAT	NO	NO	N/A	41.7	52.1	52.1	NO	240V/1ø	2 #6 RW90	1" (27MM)	60A/2P	B-10,11	--			
HC-2	MECHANICAL ROOM	THERMOLEC	SC-3-1008-240/1-SCR-S2	142	--	3.0	3.0	21.1	38.5	FULL SCR	MECHANICAL	MECHANICAL	THERMOSTAT	NO	NO	N/A	12.5	15.6	31.3	NO	240V/1ø	2 #12 RW90	1/2" (16MM)	30A/2P	A-28,29	--			

DOMESTIC HOT WATER HEATER SCHEDULE

NO.	LOCATION	MAKE	MODEL	TANK VOLUME L	TANK CAPACITY kW	RECOVERY AT 32.2°C TEMP RISE LPH	kW	UNIT WEIGHT FULL KG	POWER					REMARKS	
									EM	V/ø	FEEDER	COND	BRKR		CCT
DHWT-1	MECHANICAL ROOM	RHEEM	PROE30-1-ONS3-POU	105	2	79.5	2	146	NO	120V/1ø	2 #10 RW90	3/4" (21MM)	25A/1P	A-21	MANUFACTURER SHALL ENSURE THAT UNITS ARE FACTORY WIRED FOR THE SELECTED VOLTAGE & PHASING



Project
 City of Winnipeg
 Crescent Drive Park

No.	Date	Revision Notes
0	2016/02/29	Issued for Construction



MECHANICAL ITEMS ONLY



ELECTRICAL ITEMS ONLY

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Project
 Crescent Drive Park Pavilion

Drawing
 MECHANICAL AND ELECTRICAL DATA SHEETS

Drawn By
 KLM/JB
 Scale
 NTS

Reviewed By
 CDM/JB
 Drawing No.
ME1.0

Date
 February 2016

Project No.
 10399

Revision No.
 0