

**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/φ - 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
HDA - HANDS OFF AUTO
HP - HORSEPOWER
FLA - FULL LOAD AMPS
MCA - MINIMUM CIRCUIT CAPACITY
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** AMERICAN STANDARD 4FWALL MILLENIUM FLOWISE ELONGATED TOILET BOWL, WALL MOUNTED, 26"(660MM) X 14" (356MM) X 15"(381MM), VITREOUS CHINA, 1-1/2"(38MM) TOP SPUD, 2-1/8"(54MM) PASSAGEWAY, 1.28GPF(4.8LPF), AMERICAN STANDARD #5905.100 ELONGATED OPEN FRONT TOILET SEAT, AMERICAN STANDARD ELECTRONIC TOUCHLESS TOILET FLUSHOMETER, 1.28GPF(4.8LPF), SOLID METAL CONSTRUCTION, FIXTURE MOUNT DESIGN, 4 YEARS AT 4,000 FLUSHES PER MONTH. PROVIDE CARRIER, WAX RING AND CLOSET BOLTS.
- WC-2** AMERICAN STANDARD 4FWALL MILLENIUM FLOWISE ELONGATED TOILET BOWL, WALL MOUNTED, 26"(660MM) X 14" (356MM) X 15"(381MM), VITREOUS CHINA, 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 CARRIER, 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 95-120F(35-49C). 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"(75MM) 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 MSBID2424100 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.
- BF-1** MDF MODEL 400 SMSS DRINKING FOUNTAIN, ONE PIECE WELDED CONSTRUCTION WITH 304 SCHEDULE 10 STAINLESS STEEL, 18 GAUGE ELECTRO-POLISHED STAINLESS STEEL BOWL, STAINLESS STEEL ANTI-SQUIRT HEAD MOUNTED WITH A LOCK NUT AND WASHER TO PREVENT TAMPERING, 304 STAINLESS STEEL PUSHBAR, SELF CLOSING VALVE REQUIRING LESS THAN 5 LBS TO OPERATE, 1/2" (38MM) SCHEDULE 40 PVC DRAIN PIPE, OVER BAKED POWER COATED BLACK.

**HRV SCHEDULE**

NO.	LOCATION	MAKE	MODEL	AIRFLOW I/s		EXTERNAL STATIC PRESS. pa	HP	PROVIDE PREHEAT COIL Y/N	MINIMUM SEASONAL EFFICIENCY %	# OF FANS	UNIT WEIGHT KG	CONTROLS						POWER						REMARKS				
				OUTDOOR AIR	EXHAUST AIR							INTERLOCK			F.A. SHUT DOWN	DATA CONN.	NOTES	PANEL	FLA	MCA	MOCP	EM	V/φ		FEEDER	COND	BRKR	CCT
												SUPPLY	INSTALL	WITH														
HRV-1	MECHANICAL ROOM	VENMAR	6LC	295	295	1244	1/4	YES	55	2	77	MECHANICAL	ELECTRICAL	PHC-1	ND	ND	N/A		5.8	7.3	14.5	ND	120V/1φ	2 #12 RW90	1/2" (16MM)	15A/1P	A-18	--

**COIL SCHEDULE**

NO.	LOCATION	MAKE	MODEL	AIRFLOW I/s	MAXIMUM AIRFLOW PRESSURE DROP pa	kW	HEATING COIL DATA				CONTROLS						POWER						REMARKS							
							TOTAL kW	EAT DB °C	LAT DB °C	SCR (BY MECHANICAL)			INTERLOCK			F.A. SHUT DOWN	DATA CONN.	NOTES	PANEL	FLA	MCA	MOCP		EM	V/φ	FEEDER	COND	BRKR	CCT	
										TYPE	STAGES	REMOTE FEEDER	SUPPLY	INSTALL	WITH															
PHC-1	MECHANICAL ROOM	THERMILEC	SC-14-14XB-240/1-SCR-S2	260	--	14.0	14.0	-37.2	7.5		FULL SCR			MECHANICAL	ELECTRICAL	HRV-1	ND	ND	N/A		58.3	72.9	72.9	ND	240V/1φ	2 #4 RW90	1" (27MM)	80/2P	A-1920	--
HC-1	MECHANICAL ROOM	THERMILEC	SC-3-10XB-240/1-SCR-S2	142	--	3.0	3.0	21.1	38.5		FULL SCR			MECHANICAL	MECHANICAL	THERMOSTAT	ND	ND	N/A		12.5	15.6	31.3	ND	240V/1φ	2 #12 RW90	1/2" (16MM)	30A/2P	A-2829	--

**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/φ	FEEDER	COND	BRKR	CCT	
DHW1-1	MECHANICAL ROOM	RHEEM	PROE30-1-ONS3-PDU	105	2	79.5	2	146	ND	120V/1φ	2 #10 RW90	3/4" (21MM)	25A/1P	A-21	MANUFACTURER SHALL ENSURE THAT UNITS ARE FACTORY WIRED FOR THE SELECTED VOLTAGE & PHASING

Owner

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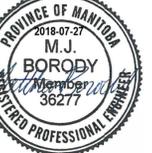


**Certificate of Authorization**  
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ELECTRICAL ITEMS ONLY

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Project

Crescent Drive Park Pavilion

Drawing

**MECHANICAL AND ELECTRICAL DATA SHEETS**

Drawn By KLMJB CD/AMB  
Scale NTS  
Date July 2018

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