



EXTERIOR PANEL VIEW

SCALE: 1:4

INTERIOR PANEL VIEW

SCALE: 1:4

NOTES:

- WHERE MANUFACTURER AND MODEL ARE SPECIFIED, SUBSTITUTIONS MUST BE APPROVED.
- ALL POWER WIRING TO BE TEW/MTW 600V, 105°C INSULATION, STRANDED COPPER, 12 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- ALL CONTROL WIRING TO BE TEW/MTW 300V, 105°C INSULATION, STRANDED COPPER, 16 AWG.
- ALL ANALOG WIRING TO BE 18 AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 300V.
- EXTERNAL COMPONENTS ARE TO BE LABELLED AS SHOWN ON THE DRAWINGS.
- ALL FUSES ARE TO BE PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
- TEST ALL WIRING AND COMPONENTS FOR FUNCTIONAL OPERATION, CORRECT CONNECTION, CONTINUITY AND INSULATION INTEGRITY. THREE COPIES OF CERTIFIED TEST DOCUMENTATION ARE TO BE PROVIDED.
- ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- PROVIDE WIRE BARREL FERULES FOR ALL WIRING.
- ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING
- ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.
- ALL ETHERNET CABLING IS TO BE ATTACHED TO THE SIDE WALLS OF THE ENCLOSURE AND KEPT AS FAR AS POSSIBLE FROM 120VAC WIRING.
- CLEARLY LABEL DEVICE IDENTIFIERS ON THE DOOR INTERIOR USING PERMANENT MARKER.



BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	SINGLE-DOOR TYPE 12 & 13 WALL-MOUNTED ENCLOSURE	HOFFMAN	A423012LP
2	1	BACKPAN	HOFFMAN	A42P30
3	1	LATCH KIT	HOFFMAN	AL3CR
4	1	FOLDING SHELF	HOFFMAN	AASHLF1818
5	1	8 SLOT RACK	SCHNEIDER ELECTRIC	BMX XBP 0800
6	1	RACK POWER SUPPLY	SCHNEIDER ELECTRIC	BMX CPS 2010
7	1	PROCESSOR	SCHNEIDER ELECTRIC	BMX P34 2020
8	2	32-POINT DIGITAL INPUT	SCHNEIDER ELECTRIC	BMX DDI 3202K
9	1	16-POINT DIGITAL OUTPUT	SCHNEIDER ELECTRIC	BMX DDO 1602
10	2	8-CHANNEL ANALOG INPUT	SCHNEIDER ELECTRIC	BMX AMI 0810
11	2	4-CHANNEL ANALOG OUTPUT	SCHNEIDER ELECTRIC	BMX AMO 0410
12	3	SCREW CLAMP TERMINAL BLOCK	SCHNEIDER ELECTRIC	BMX FTB 2010
13	2	SCREW CLAMP TERMINAL BLOCK	SCHNEIDER ELECTRIC	BMX FTB 2810
14	1	PROTECTIVE COVER	SCHNEIDER ELECTRIC	BMX XEM 010
15	1	12" TOUCHSCREEN HMI	SCHNEIDER ELECTRIC	XBT GT6330
16	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
17	AS REQ'D	NARROW SLOT WIRING DUCT, 2.25" x 3.12"	PANDUIT	
18	AS REQ'D	NARROW SLOT WIRING DUCT, 1.26" x 3.12"	PANDUIT	
19	AS REQ'D	FEED-THROUGH TERMINAL	PHOENIX CONTACT	3046184
20	AS REQ'D	FUSED TERMINAL	PHOENIX CONTACT	3046142
21	AS REQ'D	FUSE CONNECTOR	PHOENIX CONTACT	3036806
22	AS REQ'D	KNIFE-DISCONNECT TERMINAL	PHOENIX CONTACT	3046139
23	AS REQ'D	POTENTIAL-EARTH TERMINAL	PHOENIX CONTACT	3046207
24	AS REQ'D	TERMINAL END PLATE	PHOENIX CONTACT	3047141
25	AS REQ'D	TERMINAL END CLAMP	PHOENIX CONTACT	1201442
26	AS REQ'D	DOUBLE LEVEL FUSED TERMINAL	PHOENIX CONTACT	3044720
27	AS REQ'D	DOUBLE LEVEL TERMINAL END PLATE	PHOENIX CONTACT	3047293
28	AS REQ'D	PLUG-IN BRIDGE	PHOENIX CONTACT	3030365
29	1	PANEL LIGHT	-	-
30	1	DOOR SWITCH, METAL ENCLOSED	-	-
31	1	ETHERNET SWITCH, 8 PORT	MOXA	EDS-308
32	3	GROUND BAR, 14	ILSCO	-
33	AS REQ'D	TERMINAL BLOCK MARKER	PHOENIX CONTACT	1004348
34	1	PROCESS METER	PRECISION DIGITAL	PD6000-7R4
35	2	PREFORMED CORDSET	SCHNEIDER ELECTRIC	BMX FCW 303

CONSTRUCTION NOTES:

- DOOR CLAMP BLOCKS TO BE REMOVED.
- CONNECT ALL CONDUITS AND CABLES TO THE SIDE OR BOTTOM OF THE ENCLOSURE.
- LIGHT FIXTURE WIRING TO BE AC90 OR IN CONDUIT.

 SNC-Lavalin Inc. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080		ENGINEER'S SEAL ORIGINAL DRAWING SEALED BY: C. REIMER SNC-Lavalin Inc. 2010/10/02 REV. 00	 THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT MARION WASTEWATER PUMPING STATION INSTALLATION OF PUMPING UNITS & BUILDING UPGRADES PANEL LAYOUT CONTROL PANEL CP-L1
DESIGNED BY: B. CLEVEN DRAWN BY: S. COATES SCALE: 1:4 DATE: 2010/06/30	CHECKED BY: C. REIMER APPROVED BY: C. REIMER RELEASED FOR CONSTRUCTION BY: K. ZUREK DATE: 2010/10/04	CONSULTANT NO.: 113368-0000-48DD-0001 BID OPP.: 760-2010	CITY DRAWING NUMBER 1-0159L-A0001 SHEET 001 REV. 00 SIZE A1