



EXTERIOR PANEL VIEW
SCALE: 1 : 3

INTERIOR PANEL VIEW
SCALE: 1 : 3

BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	SINGLE-DOOR TYPE 12 & 13 WALL-MOUNTED ENCLOSURE	HOFFMAN	A302010LP
2	1	BACKPAN	HOFFMAN	A30P20
3	1	UNINTERRUPTIBLE POWER SUPPLY	SOLA	SDU 10-24
4	1	UPS EXTERNAL BATTERY MODULE	SOLA	SDU 24-BATEM
5	2	24VDC POWER SUPPLY, 240W	SOLA	SDN-10-24-100C
6	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
7	AS REQ'D	FEED-THROUGH TERMINAL	PHOENIX CONTACT	3046184
8	AS REQ'D	FUSED TERMINAL	PHOENIX CONTACT	3046142
9	AS REQ'D	FUSE CONNECTOR	PHOENIX CONTACT	3036806
10	AS REQ'D	POTENTIAL EARTH TERMINAL	PHOENIX CONTACT	3046207
11	AS REQ'D	TERMINAL END PLATE	PHOENIX CONTACT	3047141
12	AS REQ'D	TERMINAL END CLAMP	PHOENIX CONTACT	1201442
13	AS REQ'D	PLUG-IN BRIDGE	PHOENIX CONTACT	3030365
14	AS REQ'D	TERMINAL BLOCK MARKERS	PHOENIX CONTACT	1004348
15	AS REQ'D	NARROW SLOT WIRING DUCT, 1.75" x 2.12"	PANDUIT	-
16	AS REQ'D	NARROW SLOT WIRING DUCT, 1.26" x 2.12"	PANDUIT	-
17	1	RELAY, 120VAC, DPDT, LED, 5A	OMRON	G2R-2-SN AC120(S)
18	1	RELAY BASE, DIN RAIL	OMRON	P2RF-08-E
19	1	GROUND BAR - CHASSIS	ILSCO	-
20	AS REQ'D	LAMACOIDS	-	-
21	2	LOUVRE	HOFFMAN	AVK44
22	2	LOUVRE FILTER	HOFFMAN	AFLT44

CONSTRUCTION NOTES:

- 1 MOUNT BATTERY MODULE BELOW PDP-L1. ROUTE WIRING IN CONDUIT.

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 600V, 105°C INSULATION, STRANDED COPPER, 16 AWG.
- ALL ANALOG WIRING TO BE 16 AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 600V.
- 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.
- ARC FLASH LABEL WILL BE PROVIDED BY THE CONTRACT ADMINISTRATOR.



		SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-796-8080		ENGINEER'S SEAL
DESIGNED BY: B. CLEVEN	CHECKED BY: C. REIMER	ORIGINAL DRAWING SEALED BY: C. J. REIMER SNC-LAVALIN MEMBER # 21968 2012/02/23 REV. 00		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT
DRAWN BY: S. FUNK	APPROVED BY: C. REIMER	MONTCALM WASTEWATER PUMPING STATION 2011 UPGRADES PANEL LAYOUT POWER DISTRIBUTION PANEL PDP-L1		
SCALE: 1:3	RELEASED FOR CONSTRUCTION BY: K. R. ZUREK	CITY DRAWING NUMBER 1-0164L-A0008		SHEET 001
DATE: 2011/08/31	DATE: 2012/02/23	CONSULTANT NO.: 508042-0000-48DD-0008		REV. 00
NO. REVISIONS	DATE	DESIGN	CHECK	SIZE A1