



EXTERIOR PANEL VIEW
SCALE: 1 : 2

INTERIOR PANEL VIEW
SCALE: 1 : 2

NOTES:

- WHERE MANUFACTURER AND MODEL ARE SPECIFIED, SUBSTITUTIONS MUST BE APPROVED.
- ALL 120 VAC POWER WIRING TO BE TEW/MTW 600V, 105°C INSULATION, STRANDED COPPER, 14 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- ALL 24 VAC 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 18 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.
- ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELLED 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.

BILL OF MATERIAL

ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	SINGLE-DOOR TYPE 12 & 13 WALL-MOUNTED ENCLOSURE	HOFFMAN	A201606LP
2	1	BACKPAN	HOFFMAN	A20P16
3	1	MOULDED CASE CIRCUIT BREAKER, 2 AMP, DIN RAIL MOUNTED	PHOENIX CONTACT	TMC 1 F1 100 2,0A (0914099)
4	1	120:24VAC TRANSFORMER, 100 VA	-	-
5	1	GROUND BAR, 6 TAPS	ILSCO	D167-9
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	NARROW SLOT WIRING DUCT, 1.75" x 2.12"	PANDUIT	-
15	AS REQ'D	TERMINAL BLOCK MARKER	PHOENIX CONTACT	1004348
16	AS REQ'D	KNIFE DISCONNECT TERMINAL	PHOENIX CONTACT	3046139



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER	2015/09/29	BJC	-

SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: B. CLEVEN	CHECKED BY:
DRAWN BY: Y. KONIG	APPROVED BY:
SCALE: 1:2	ISSUED FOR CONSTRUCTION BY:
DATE: 2015/09/25	DATE:
CONSULTANT NO.:	

ENGINEER'S SEAL

**PRELIMINARY
NOT TO BE
USED FOR
CONSTRUCTION**

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

OLIVE WASTEWATER PUMPING STATION
2015 UPGRADES
PANEL LAYOUT
VENTILATION TERMINATION PANEL JB-L83

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0169L-A0027	001	00	A1