

EXTERIOR PANEL VIEW
SCALE: 1: 3 INTERIOR PANEL VIEW SCALE: 1 : 3

		BILL OF MATE	RIAL		
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	
1	1	SINGLE-DOOR TYPE 12 & 13 WALL-MOUNTED ENCLOSURE	HOFFMAN	A362406LP	
2	1	BACKPAN	HOFFMAN	A36P24	
3	2	MOULDED CASE CIRCUIT BREAKER, 2 AMP, DIN RAIL MOUNTED	PHOENIX CONTACT	TMC 1 F1 100 2,0A (0914099)	
4	1	ON-DELAY TIMER, DPDT, 24VAC/VDC	OMRON	H3CR-A8	
5	1	TIMER BASE, 8 PIN SOCKET	OMRON	P2CF-08	
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	
17	1	RELAY, 24 VAC, SPDT, LED	OMRON	G2R-1-SN-AC24(S)	
18	3	RELAY, 24 VDC, DPDT, DIODE, LED	OMRON	G2R-2-SND-DC24(S)	
19	1	RELAY, 120 VAC, SPDT, LED	OMRON	G2R-1-SN-AC120(S)	
20	2	RELAY BASE, SPDT	OMRON	P2RF-05	
21	3	RELAY BASE, DPDT	OMRON	P2RF-08	
22	1	RELAY, 24 VAC, 3PDT, LED	OMRON	LY3N-AC24	
23	1	RELAY BASE, 3PDT	OMRON	PTF11A	
24	1	RELAY, 24 VDC, 4PDT, LED	OMRON	LY4N-DC24	
25	1	RELAY BASE, 4PDT	OMRON	PTF14A	
26	1	120:24VAC TRANSFORMER, 100 VA	HAMMOND	-	

## <u>NOTES</u>

- 1. WHERE MANUFACTURER AND MODEL ARE SPECIFIED, SUBSTITUTIONS MUST BE APPROVED.
- 2. 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.
- 3. ALL 24 VAC/VDC POWER WIRING TO BE TEW/MTW 300V OR HIGHER, 105°C INSULATION, STRANDED COPPER, 12 AWG OR LARGER WHERE CURRENT REQUIREMENTS DICTATE AS PER CEC REQUIREMENTS.
- 4. ALL CONTROL WIRING TO BE TEW/MTW 300V OR HIGHER, 105°C INSULATION, STRANDED COPPER, 16 AWG.
- 5. ALL ANALOG WIRING TO BE 18 AWG SHIELDED TWISTED PAIR, WITH INSULATION RATED AT 300V OR HIGHER.
- 6. EXTERNAL COMPONENTS ARE TO BE LABELED AS SHOWN ON THE DRAWINGS.
- 7. ALL FUSES ARE TO BE PROVIDED. IN ADDITION, TWO SPARES OF EACH FUSE SIZE ARE TO BE PROVIDED.
- 8. ALL MAJOR COMPONENTS INSIDE THE PANEL ARE TO BE LABELED WITH LAMACOIDS IN ACCORDANCE WITH MAJOR DESCRIPTIONS ON THE DRAWINGS.
- 9. PROVIDE WIRE BARREL FERULES FOR ALL WIRING.
- 10. ALL TERMINAL BLOCKS SHALL BE NUMBERED AS SHOWN IN THE DRAWINGS, COMPLETE WITH GROUP LABELING
- 11. ALL WIRES SHALL BE MARKED AS INDICATED ON THE DRAWINGS.

Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

					SNC-LAVALIN	SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	ENGINEER'S SEAL ORIGINAL DRAWIN
					DESIGNED BY: B. CLEVEN	CHECKED BY: F. ATAEI	SEALED BY: B. J. CLEVEN
					DRAWN BY: Y. KONIG	APPROVED BY: I. PARKINSON	SNC-LAVALIN INC
					SCALE: 1:3	ISSUED FOR CONSTRUCTION BY: K. ZUREK	2016-08-29 REV. 00
					DATE: 2016/06/30	DATE: 2016-08-29	11.00
00	ISSUED FOR TENDER, BID OPP. 767-2016	2016/08/23	BJC	FA	CONSULTANT NO.:		-
NO.	REVISIONS	DATE	DESIGN	CHECK	]		

ORIGINAL DRAWING SEALED BY: B. J. CLEVEN SNC-LAVALIN INC. MEMBER #31479

THE CITY OF WINNIPEG Winnipeg WATER AND WASTE DEPARTMENT

> ROUTE 90 UNDERPASS PUMPING STATION 2016 UPGRADES PANEL LAYOUT VENTILATION PANEL JBA-U86

CITY DRAWING NUMBER SHEET | REV. | SIZE 1-0310U-A0020 001 | 00 | A1

1-0310U-A0020-001-00.dwg