



EXTERIOR PANEL VIEW  
SCALE: 1 : 3

INTERIOR PANEL VIEW  
SCALE: 1 : 3

BILL OF MATERIAL				
ITEM	QTY	DESCRIPTION	MANUFACTURER	CATALOG NUMBER
1	1	JUNCTION BOX, NEMA 12, CONTINUOUS-HINGE, 304x609x203mm	HOFFMAN	A241208LP
2	1	BACKPAN	HOFFMAN	A12P24
3	1	GROUND BAR, 6 TAP	ILSCO	D167-6
4	AS REQ'D	35mm DIN RAIL	PHOENIX CONTACT	0801733
5	AS REQ'D	NARROW SLOT WIRING DUCT, 1.25" x 2.12", GREY	PANDUIT	F1X2LG6
6	AS REQ'D	FEED-THROUGH TERMINAL	PHOENIX CONTACT	3046184
7	AS REQ'D	TERMINAL END PLATE	PHOENIX CONTACT	3047141
8	AS REQ'D	TERMINAL END CLAMP	PHOENIX CONTACT	1201442
9	AS REQ'D	TERMINAL BLOCK MARKER	PHOENIX CONTACT	0800310
10	3	FUSED TERMINAL	PHOENIX CONTACT	3046142
11	3	FUSE CONNECTOR	PHOENIX CONTACT	3036806
12	AS REQ'D	LAMACOID, 5mm HIGH BLACK TEXT ON WHITE BACKGROUND	-	-
13	2	RELAY, 12VDC, DPDT, DIODE, LED	OMRON	G2R-2-SND-DC12(S)
14	2	RELAY BASE, DPDT	OMRON	P2RF-08
15	1	SELECTOR SWITCH, 2-POSITION MAINTAINED, 2 N.O.	SCHNEIDER ELECTRIC	ZB4BD2 + ZB4BZ103
16	1	TIMING RELAY, ON-DELAY, DPDT, 12VDC	OMRON	H3CRA-8 24-48AC/12-48DC
17	1	TIMING RELAY BASE	OMRON	P2CF-08
18	1	RELAY, 12VDC, 4PDT, DIODE, LED	OMRON	LY2N-D2 12DC
19	1	RELAY BASE, 4PDT	OMRON	PTF14A

NOTES:

- REFER TO LOOP DIAGRAMS 1-0310U-A0029, 1-0310U-A0034, AND 1-0310U-A0036 FOR PANEL INTERNAL WIRING REQUIREMENTS.



NO.	REVISIONS	DATE	DESIGN	CHECK
01	REVISED INTERNAL WIRING	2016/09/12	BJC	FA
00	ISSUED FOR TENDER, BID OPP. 767-2016	2016/08/23	BJC	FA

**SNC-LAVALIN INC.**  
148 Nature Park Way  
Winnipeg, MB, Canada R3P 0X7  
204-786-8080

DESIGNED BY: B. CLEVEN  
DRAWN BY: Y. KONIG  
SCALE: 1:3  
DATE: 2016/08/04  
CONSULTANT NO.:

CHECKED BY: F. ATAËI  
APPROVED BY: I. PARKINSON  
ISSUED FOR CONSTRUCTION BY: K. ZUREK  
DATE: 2016-08-29

ENGINEER'S SEAL

ORIGINAL DRAWING SEALED BY:  
B. J. CLEVEN  
SNC-LAVALIN INC.  
MEMBER #31479  
2016-09-12  
REV. 01

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

ROUTE 90 UNDERPASS PUMPING STATION  
2016 UPGRADES  
JUNCTION BOX LAYOUT  
ENGINE CONTROL JUNCTION BOX  
JBA-U83-1

CITY DRAWING NUMBER: 1-0310U-A0033  
SHEET: 001  
REV.: 01  
SIZE: A1

DRAWING NUMBER	REFERENCE DRAWINGS
1-0310U-A0036	ENGINE ENG-U03 AND STARTER MS-U02 INTERLOCK
1-0310U-A0035	ENGINE ENG-U03 EMERGENCY SHUTDOWN
1-0310U-A0034	ENGINE ENG-U03 STATUS AND CONTROL