



LEGEND:

- INTERNAL WIRING
- FIELD (EXTERNAL) WIRING
- SOFT START ENCLOSURE TERMINAL
- CONTROL PANEL TERMINAL
- SOFT START DEVICE TERMINAL
- ENGINE JUNCTION BOX JBA-U83-1 TERMINAL
- TRANSIENT VOLTAGE SUPPRESSOR
- ETM ELAPSED TIME METER
- AMMETER

1-0310U-E0010	MS-U02 CONNECTION DIAGRAM
DRAWING NUMBER	REFERENCE DRAWINGS

- NOTES:**
- COMPLETE ASSEMBLY TO HAVE A SHORT CIRCUIT CURRENT RATING OF 18KA OR HIGHER.
 - GROUP AND SPACE 120VAC, 24VDC AND 4-20mA TERMINALS AND WIRING SEPARATELY.
 - ALL REMOTE WIRING IS 24VDC.
 - COLOUR CODE WIRING AS FOLLOWS:
 POWER - 120VAC SUPPLY BLACK
 POWER - 120VAC NEUTRAL WHITE
 POWER - 24VDC SUPPLY (+) BLUE
 POWER - 24VDC COMMON (-, OR OVD) BROWN
 DISCRETE CONTROL - AC RED
 DISCRETE CONTROL - DC BLUE
 GROUND GREEN



NO.	REVISIONS	DATE	DESIGN	CHECK
01	ADDED INTERLOCK WITH NAT. GAS ENGINE	2016/09/12	BJC	DB
00	ISSUED FOR TENDER, BID OPP. 767-2016	2016/08/23	BJC	DB

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DESIGNED BY: B. CLEVEN
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SCALE: NTS
DATE: 2016/05/12
CONSULTANT NO.:

CHECKED BY: D. BECKER
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
MOTOR STARTER SCHEMATIC
MS-U02
UNDERPASS PUMP

CITY DRAWING NUMBER: 1-0310U-E0009
SHEET: 001
REV: 01
SIZE: A1