



LEGEND:

- INTERNAL WIRING
- - - FIELD (EXTERNAL) WIRING
- △ SOFT START ENCLOSURE TERMINAL
- CONTROL PANEL TERMINAL
- ⊠ SOFT START DEVICE TERMINAL
- ⊞ TRANSIENT VOLTAGE SUPPRESSOR
- ETM ELAPSED TIME METER
- A AMMETER

SEE DRAWING 1-0310U-E0010 FOR CONNECTION

NOTES:

1. COMPLETE ASSEMBLY TO HAVE A SHORT CIRCUIT CURRENT RATING OF 18KA OR HIGHER.
2. GROUP AND SPACE 120VAC, 24VDC AND 4-20mA TERMINALS AND WIRING SEPARATELY.
3. ALL REMOTE WIRING IS 24VDC.
4. 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
00	ISSUED FOR TENDER, BID OPP. 767-2016	2016/08/23	BJC	DB

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DATE: 2016/05/12	CONSULTANT NO.:	CITY DRAWING NUMBER 1-0310U-E0009		

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.
00

SIZE
A1