LEGEND:

- PLC — PLC CONNECTION
- PM — POWER METER
- M — HYDRO METER

BREAKER	MODEL	TRIP UNIT	FRAME	SENSOR TRIP UNIT	LTPY (ir)	LTD (tr)	STPU (Isd)	STD (Isd)	INST (Ii)
MCC–L71.CB–L71	POWERPACT J SERIES	MICROLOGIC 5.2A (AMMETER)	200A						
MCC–L71.CB–L72	POWERPACT J SERIES	MICROLOGIC 3.2S	200A						
MCC–L71.CB–L01	POWERPACT H SERIES	MICROLOGIC 3.2	70A						
MCC–L71.CB–L02	POWERPACT H SERIES	MICROLOGIC 3.2	70A						

GENERAL NOTES:

1. ALL EQUIPMENT TO BE PROVIDED NEW.
2. CONTRACTOR TO PROVIDE AND INSTALL 7–JAW METER BASE C/W ISOLATED NEUTRAL. HYDRO TO PROVIDE METER.
3. CONTRACTOR TO PROVIDE AND INSTALL NEW MOTOR CONTROL CENTRE. ALL NEW BREAKERS TO BE SIZED FOR 14KAIC AT 600VAC.
4. BONDING CONDUCTORS NOT SHOWN.

KEY NOTE:

1. EXTERIOR MOUNTED METER BASE.
2. SYSTEM IS GROUNDED AT SERVICE ENTRANCE, REMOVE PORTABLE GENERATOR GROUNDING STRAP TO GENERATOR MIDPOINT.
3. INCLUDE WARNING LAMACOID STATING "AVOID OPERATION UNDER LOAD"

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7	1–0131L–E0015	MOTOR STARTER SCHEMATIC – SF–L61 AND EF–L62
6	1–0131L–E0013	MOTOR STARTER SCHEMATIC – P–L02
5	1–0131L–E0011	MOTOR STARTER SCHEMATIC – P–L01
4	1–0131L–E0008	MCC ELEVATIONS AND DETAILS
3	1–0131L–E0009	ELECTRICAL GROUNDING DETAILS
2	1–0131L–A0043	LOOP DIAGRAM – TVSS STATUS ALARM
1	1–0131L–A0040	LOOP DIAGRAM – 600V POWER FAIL ALARM

REFERENCE DRAWINGS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
MPE, a division of Englobe Corp.
No. 4968 Date: MAR 19, 2024

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
0	ISSUED FOR CONSTRUCTION	2024–03–19	

MPE a division of Englobe

DESIGNED BY J. SWAIN
CHECKED BY R. OFSTIE
DRAWN BY J. SWAIN, T. SHRUFI
APPROVED BY R. OFSTIE
SCALE: N.T.S
HORIZONTAL
VERTICAL
RELEASED FOR CONSTRUCTION
DATE 2024–03–19
DATE
PLOT DATE: 2024 03 19

PROVINCE OF MANITOBA R.G OFSTIE Member 44405 REGISTERED PROFESSIONAL ENGINEER
MARCH 21, 2024
CONSULTANT DRAWING NUMBER

BID OPPORTUNITY: --

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

CONWAY LIFT PUMPING STATION
2024 UPGRADES

ELECTRICAL SINGLE LINE DIAGRAM

CITY DRAWING NUMBER 1–0131L–E0004–001–00 | SHEET 45 OF 102

FILE PATH: M:\N–Data\84\00 City of Winnipeg\005 – Conway Lift Station\Autodesk\ACAD\
FILE NAME: E1.11 ELECTRICAL SINGLE LINE DIAGRAM.dwg