LAMACOID SCHEDULE	
1	READY
2	RUNNING
3	REVERSE RUNNING
4	VFD FAULT
5	ATL FAULT
6	HIGH VIBRATION
7	ATL BYPASS
8	MOTOR RUN TIME
9	OFF ON
10	MAN OFF AUTO
11	VFD ATL
12	MANUAL START
13	MANUAL STOP
14	EMERGENCY STOP
15	VFD HMI
16	OVERLOAD RESET
17	MANUAL/LOCAL SPEED CONTROL
18	UPPER SHAFT BEARING VIBRATION
19	LOWER SHAFT BEARING VIBRATION

B — MCC ELEVATION
SCALE 1:10

NOTES:

1. SUPPLIER TO SIZE MOTOR STARTER SECTIONS TO ENSURE ADEQUATE SPACE FOR VFD EQUIPMENT AND BYPASS STARTERS AS REQUIRED BY THE CITY OF WINNIPEG ELECTRICAL DESIGN GUIDELINES. A MAXIMUM STARTER SECTION WIDTH OF 838mm (33in) HAS BEEN SHOWN.
2. MAXIMUM SIZE ALLOWABLE OF MCC SECTIONS SHOWN. MCC LAYOUT SUBJECT TO CHANGE DURING PROCUREMENT. CONTRACTOR TO ENSURE FINAL MCC DIMENSIONS DO NOT EXCEED A WIDTH OF 2700mm.

LEGEND:

- CT SHORTING BLOCK.
- FEED THROUGH TERMINAL BLOCK
- SCISSOR SWITCH
- PUSH BUTTON
- EMERGENCY STOP
- SPEED POTENTIOMETER
- BLUE PILOT LIGHT
- GREEN PILOT LIGHT
- AMBER PILOT LIGHT
- HOUR METER
- ANALOG CURRENT METER

MCC-L71 REQUIREMENTS:

IDENTIFIER: MCC-L71		
ENCLOSURE TYPE: NEMA 1 WITH GASKETED COVER	MOUNTING: FRONT	DEPTH: 508mm
SUPPLY VOLTAGE: 600Y/347V, 3ϕ, 4W, 60Hz	INCOMING NEUTRAL TERMINATION: YES	
CONTROL VOLTAGE: 120V, 60Hz	WIRING: CLASS I, TYPE B OR AS SHOWN ON THE DRAWING	
MINIMUM BUS RATING: HORIZONTAL: 600A, VERTICAL:300A		
SUITABLE FOR SERVICE ENTRANCE: YES	NEUTRAL BUS: NO	
BUS BRACING: 42kA	SCCR: 14kA	SERIES SCCR PERMITTED: NO
BUS MATERIAL: TIN PLATED COPPER		
MANUFACTURER: SCHNEIDER ELECTRIC	MODEL: MODEL 6	
MAXIMUM TOTAL WIDTH: 2700mm		

1 — MCC-L71 POWER METER
SCALE NTS

2 — XS-L711 SPD CONNECTION
SCALE NTS

3 — ESL-L712 600V POWER FAIL RELAY CONNECTION
SCALE NTS

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10		
9		
8		
7		
6		
5	1-0131L-E0009	ELECTRICAL GROUNDING DETAILS
4	1-0131L-E0006	ELECTRICAL BUILDING PLAN
3	1-0131L-A0042	LOOP DIAGRAM – TVSS STATUS ALARM
2	1-0131L-A0043	LOOP DIAGRAM – 600V POWER FAIL ALARM
1	1-0131L-A0004	NETWORK BLOCK DIAGRAM

REFERENCE DRAWINGS

0 200 400 600 800 1000
SCALE: 1:10

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES
UNLESS OTHERWISE NOTED

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: HORIZONTAL VERTICAL	AS SHOWN	RELEASED FOR CONSTRUCTION	
DATE	2024-03-19	DATE	

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

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

CONWAY LIFT PUMPING STATION
2024 UPGRADES
MCC ELEVATIONS AND DETAILS
MCC-L71

CITY DRAWING NUMBER 1-0131L-E0008-001-00 SHEET 49 OF 102

PLOT DATE: 2024 03 19
BID OPPORTUNITY: --
FILE PATH: M:\N-Data\84\00 City of Winnipeg\005 - Conway Lift Station\Autodesk\ACAD\
FILE NAME: E1.1 ELECTRICAL MCC ELEVATIONS AND DETAILS.dwg