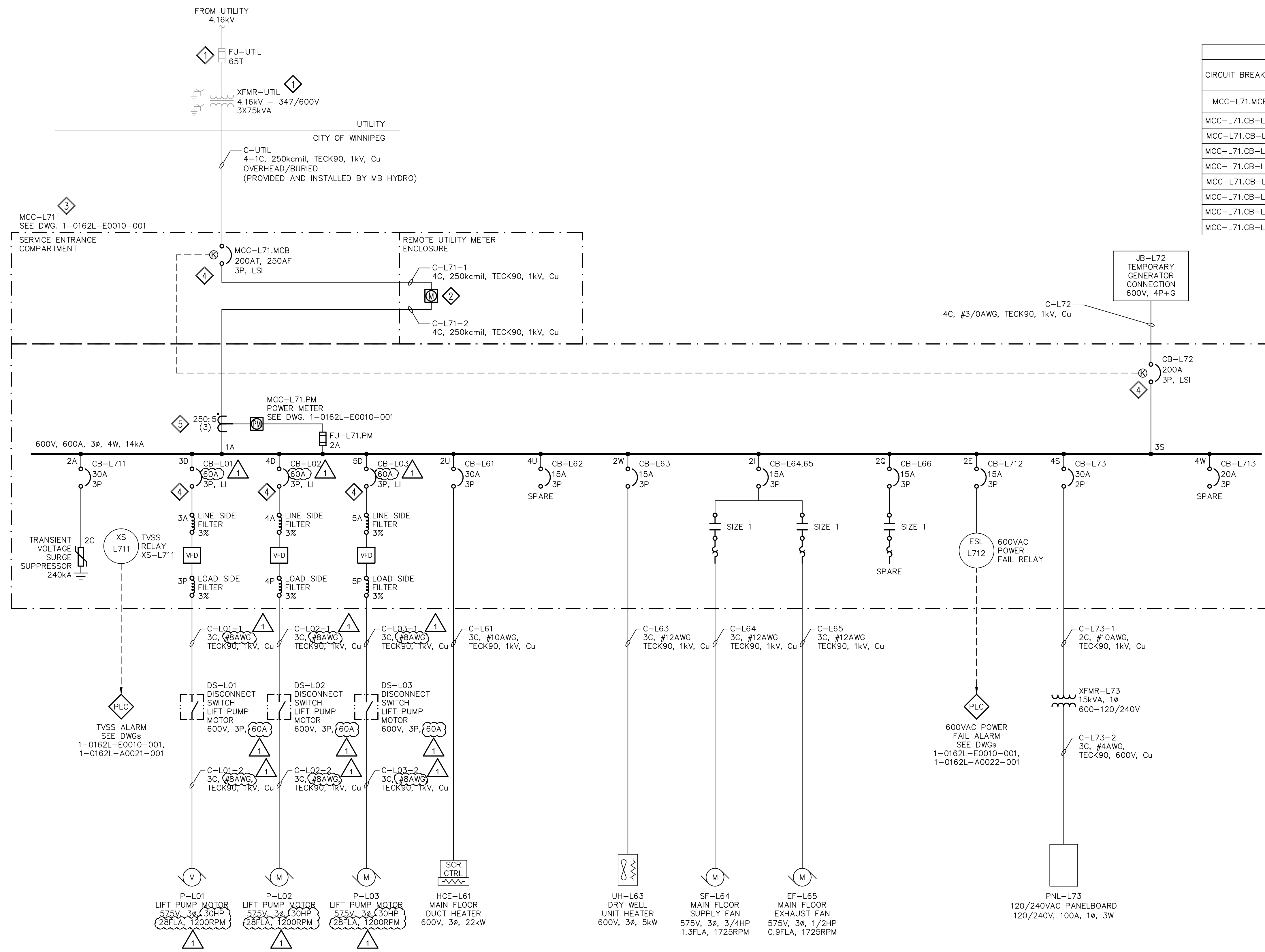


GENERAL NOTES:

1. GRAYED ITEMS DENOTE EXISTING OR NOT INCLUDED WITHIN THE SCOPE OF WORK.

BREAKER PROTECTION SETTINGS									
CIRCUIT BREAKER	MODEL	TRIP UNIT	FRAME	SENSOR TRIP UNIT	LTPY (Ir)	LTD (tr)	STPU (tsd)	STD (tsd)	INST (li)
MCC-L71.MCB	POWERPACT J SERIES	MICROLOGIC 5.2A (AMMETER)	250A						
MCC-L71.CB-L72	POWERPACT J SERIES	MICROLOGIC 3.2S	250A						
MCC-L71.CB-L01	POWERPACT H SERIES	MICROLOGIC 3.2	150A						
MCC-L71.CB-L02	POWERPACT H SERIES	MICROLOGIC 3.2	150A						
MCC-L71.CB-L03	POWERPACT H SERIES	MICROLOGIC 3.2	150A						
MCC-L71.CB-L61	POWERPACT H SERIES	THERMAL-MAGNETIC	150A						
MCC-L71.CB-L63	POWERPACT H SERIES	THERMAL-MAGNETIC	150A						
MCC-L71.CB-L64,L65	POWERPACT H SERIES	THERMAL-MAGNETIC	150A						
MCC-L71.CB-L73	POWERPACT H SERIES	THERMAL-MAGNETIC	150A						



LEGEND:

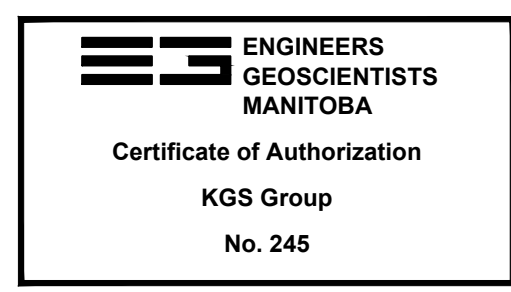
- MULTIFUNCTION POWER METER
- PLC CONNECTION

KEYNOTES:

1. EXISTING POLE MOUNTED FUSES AND TRANSFORMER - BY MANITOBA HYDRO
2. MANITOBA HYDRO METER ON THE EXTERIOR WALL OF SUPERSTRUCTURE. CONTRACTOR SHALL SUPPLY SEVEN-JAW METER BASE C/W INSULATED NEUTRAL BLOCK AND TERMINATE CONDUCTORS TO METER BASE. MANITOBA HYDRO WILL SUPPLY METER.
3. PROVIDE AND INSTALL NEW MOTOR CONTROL CENTRE. ALL MCC BREAKERS SHALL BE 14KAIC RATED AT 600V.
4. MCC SUPPLIER TO PROVIDE AND INSTALL CONTROL TRANSFORMER FOR POWERING DIGITAL TRIP UNIT.
5. METERING CURRENT TRANSFORMERS ARE TO BE LOCATED OUTSIDE OF THE SERVICE ENTRANCE COMPARTMENT FOR CUSTOMER ACCESS.

A SINGLE LINE DIAGRAM
SCALE: NTS

NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
10	-	-
9	-	-
8	-	-
7	-	-
6	-	-
5	-	-
4	-	-
3	-	-
2	1-0162L-E0010-001	MCC ELEVATION AND DETAILS
1	1-0162L-E0009-001	GROUNDING INSTALLATION DETAILS



NO.	REVISIONS	DATE	BY
1	RE-ISSUED FOR CONSTRUCTION	2023/04/17	DDW
0	ISSUED FOR CONSTRUCTION	2023/03/24	DDW

KGS GROUP

DESIGNED BY: A. NIRMAL
CHECKED BY: DDW

DRAWN BY: R. GASPAR
APPROVED BY: DDW

SCALE: HORIZONTAL NTS, VERTICAL NTS
DATE: 2022/07/14

PLOT DATE: 2023/04/17

ENGINEER'S SEAL	

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

Metcalfe Lift Station Upgrades 2022
ELECTRICAL
SINGLE LINE DIAGRAM

CONSULTANT DRAWING NUMBER: 22-0107-004-E03.01
CITY DRAWING NUMBER: 1-0162L-E0003-001
SHEET 54 OF 109