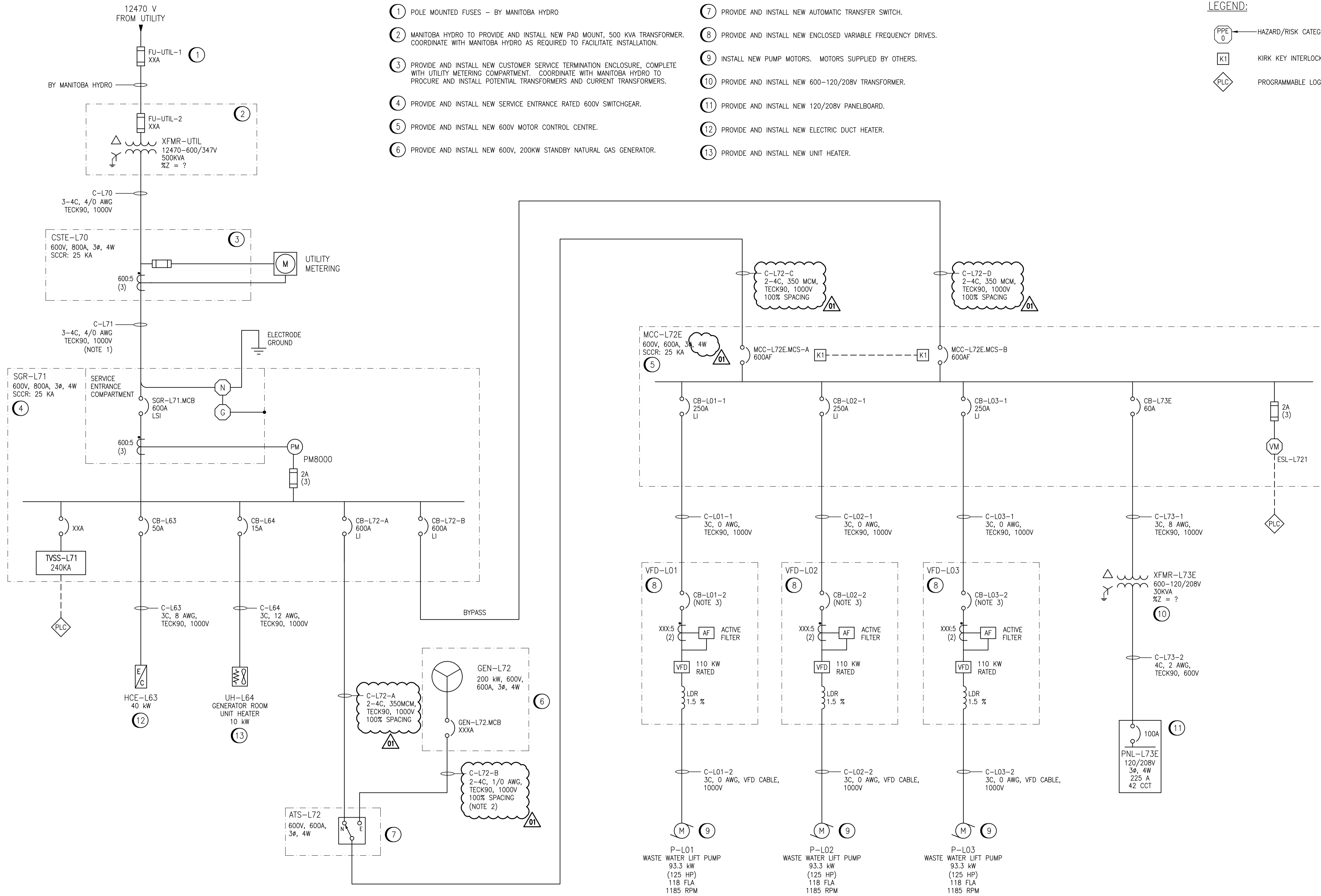


**CONSTRUCTION NOTES**

- ① POLE MOUNTED FUSES - BY MANITOBA HYDRO
- ② MANITOBA HYDRO TO PROVIDE AND INSTALL NEW PAD MOUNT, 500 KVA TRANSFORMER. COORDINATE WITH MANITOBA HYDRO AS REQUIRED TO FACILITATE INSTALLATION.
- ③ PROVIDE AND INSTALL NEW CUSTOMER SERVICE TERMINATION ENCLOSURE, COMPLETE WITH UTILITY METERING COMPARTMENT. COORDINATE WITH MANITOBA HYDRO TO PROCURE AND INSTALL POTENTIAL TRANSFORMERS AND CURRENT TRANSFORMERS.
- ④ PROVIDE AND INSTALL NEW SERVICE ENTRANCE RATED 600V SWITCHGEAR.
- ⑤ PROVIDE AND INSTALL NEW 600V MOTOR CONTROL CENTRE.
- ⑥ PROVIDE AND INSTALL NEW 600V, 200KW STANDBY NATURAL GAS GENERATOR.
- ⑦ PROVIDE AND INSTALL NEW AUTOMATIC TRANSFER SWITCH.
- ⑧ PROVIDE AND INSTALL NEW ENCLOSED VARIABLE FREQUENCY DRIVES.
- ⑨ INSTALL NEW PUMP MOTORS. MOTORS SUPPLIED BY OTHERS.
- ⑩ PROVIDE AND INSTALL NEW 600-120/208V TRANSFORMER.
- ⑪ PROVIDE AND INSTALL NEW 120/208V PANELBOARD.
- ⑫ PROVIDE AND INSTALL NEW ELECTRIC DUCT HEATER.
- ⑬ PROVIDE AND INSTALL NEW UNIT HEATER.

**LEGEND:**

- HAZARD/RISK CATEGORY
- KIRK KEY INTERLOCK
- PROGRAMMABLE LOGIC CONTROLLER



**NOTES:**

1. INCOMING SERVICE CABLE (C-L71) IS RATED BASED ON THE LARGEST CABLE REQUIRED FROM BOTH TABLE 2 AND TABLE D10A. WHERE THIS CABLE IS ROUTED IN FREE AIR, 100% SPACING IS REQUIRED BETWEEN CABLES. REFER TO TRENCH DETAIL ON DRAWING 1-0130L-E0010 FOR DIRECT BURIAL CABLE DEPTH AND SPACING REQUIREMENTS.
2. CONTRACTOR RESPONSIBLE FOR SIZING CABLE C-L72-B IN ACCORDANCE WITH GENERATOR AND GENERATOR CIRCUIT BREAKER RATING.
3. VFD MANUFACTURER RESPONSIBLE FOR SIZING CIRCUIT BREAKER WITHIN EACH VFD CABINET.



NO.	REVISIONS	DATE	DESIGN	CHECK
01	REVISED CABLES AND MCC TO 4-WIRE	2017-08-09	BJC	TMC
00	ISSUED FOR TENDER, BID OPP: 639-2017	2017-07-25	BJC	TMC

 SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: B. CLEVEN	CHECKED BY: T. CHURCH
DRAWN BY: M.J. PERSSON	APPROVED BY: B. CLEVEN
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: DATE:
DATE: 2017/05/04	DATE:
CONSULTANT NO.:	

ENGINEER'S SEAL  
**PRELIMINARY**  
 NOT TO BE  
 USED FOR  
 CONSTRUCTION

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT

COMMUNITY ROW WASTEWATER PUMPING STATION  
 2017 UPGRADES  
 ELECTRICAL SINGLE LINE DIAGRAM

CITY DRAWING NUMBER 1-0130L-E0001	SHEET 001	REV. 01	SIZE A1
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