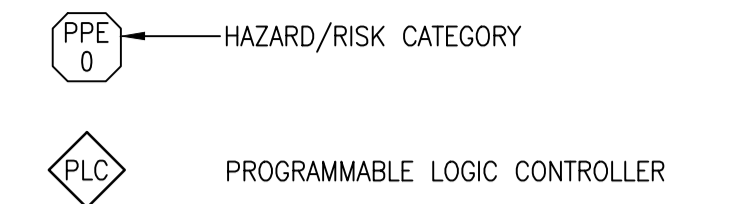


CONSTRUCTION NOTES

- 1 REPLACE INCOMING SERVICE CABLE BACK TO THE CUSTOMER-OWNED POLE. PROVIDE NEW WEATHERHEAD AND CRIMPS AS REQUIRED. COORDINATE WITH MANITOBA HYDRO TO PROVIDE A SHUTDOWN OF THE ELECTRICAL SUPPLY.
- 2 PROVIDE AND INSTALL NEW NEMA TYPE 3R, SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH.
- 3 PROVIDE AND INSTALL NEW UTILITY METERING SOCKET. COORDINATE WITH MANITOBA HYDRO FOR INSTALLATION OF METER.
- 4 PROVIDE AND INSTALL NEW 600V MOTOR CONTROL CENTRE.
- 5 PROVIDE AND INSTALL 600V STANDBY NATURAL GAS GENERATOR. ENGINE TO BE CONTINUOUSLY RATED FOR 130 KW. PROVIDE OVERSIZED ALTERNATOR RATED FOR MINIMUM 175 KW (200 KW ACCEPTABLE).
- 6 PROVIDE AND INSTALL NEW 600V, 200A, 3 PH, 4 WIRE TRANSFER SWITCH.
- 7 PROVIDE AND INSTALL NEW MAIN FLOOR DUCT HEATER.

- 8 PROVIDE AND INSTALL NEW WET WELL SUPPLY FAN.
- 9 PROVIDE AND INSTALL NEW WET WELL DUCT HEATER.
- 10 PROVIDE AND INSTALL NEW WET WELL EXHAUST FAN.
- 11 RECONNECT TO EXISTING ROOF EXHAUST FAN.
- 12 PROVIDE AND INSTALL NEW MAIN FLOOR UNIT HEATER.
- 13 CONNECT TO UNDERPASS PUMP MOTOR.
- 14 REINSTALL EXISTING 600/120/240V TRANSFORMER.
- 15 PROVIDE AND INSTALL NEW 120/240V PANELBOARD.

LEGEND:



NOTES:

1. GENERATOR MANUFACTURER TO DETERMINE GENERATOR BREAKER RATING.
2. CONTRACTOR TO PROVIDE APPROPRIATELY RATED CABLE (C-U72-2) DOWNSTREAM OF GENERATOR.



NO.	REVISIONS	DATE	DESIGN	CHECK
01	REVISED MAIN BREAKER, CABLE SIZES, NOTE 13	2018/06/01	BC	PP
00	ISSUED FOR TENDER, BID OPP. 475-2018	2018/05/09	BC	PP

SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: B. CLEVEN	CHECKED BY: P. PANUFNIK
DRAWN BY: B. CLEVEN	APPROVED BY: B. CLEVEN
SCALE: NTS	ISSUED FOR CONSTRUCTION BY:
DATE: 2018/01/10	DATE:
CONSULTANT NO.:	

ENGINEER'S SEAL
PRELIMINARY
 NOT TO BE
 USED FOR
 CONSTRUCTION

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

METRO ROUTE 20 UNDERPASS PUMPING STATION
 2018 UPGRADES
 ELECTRICAL SINGLE LINE DIAGRAM

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0309U-E0001	001	01	A1