

GENERAL NOTES:

- FOR THE KIRK KEY INTERLOCK, SWITCHGEAR SGR-F70 SHALL ONLY RELEASE THE KIRK KEY WHEN THE DISCONNECT SWITCH IS IN THE OPEN POSITION. KIRK KEY IS REQUIRED TO ACCESS TRANSFORMER XFMR-F1 PRIMARY (5kV) COMPARTMENT. SGR-F70 DISCONNECT SWITCH SHALL ONLY BE CAPABLE OF CLOSING WHEN KIRK KEY IS INSERTED INTO KEY LOCK. XFMR-F1 PRIMARY (5kV) COMPARTMENT SHALL ONLY RELEASE THE KIRK KEY ONCE PRIMARY DOOR IS FULLY CLOSED.

MANITOBA HYDRO SCOPE OF WORK:

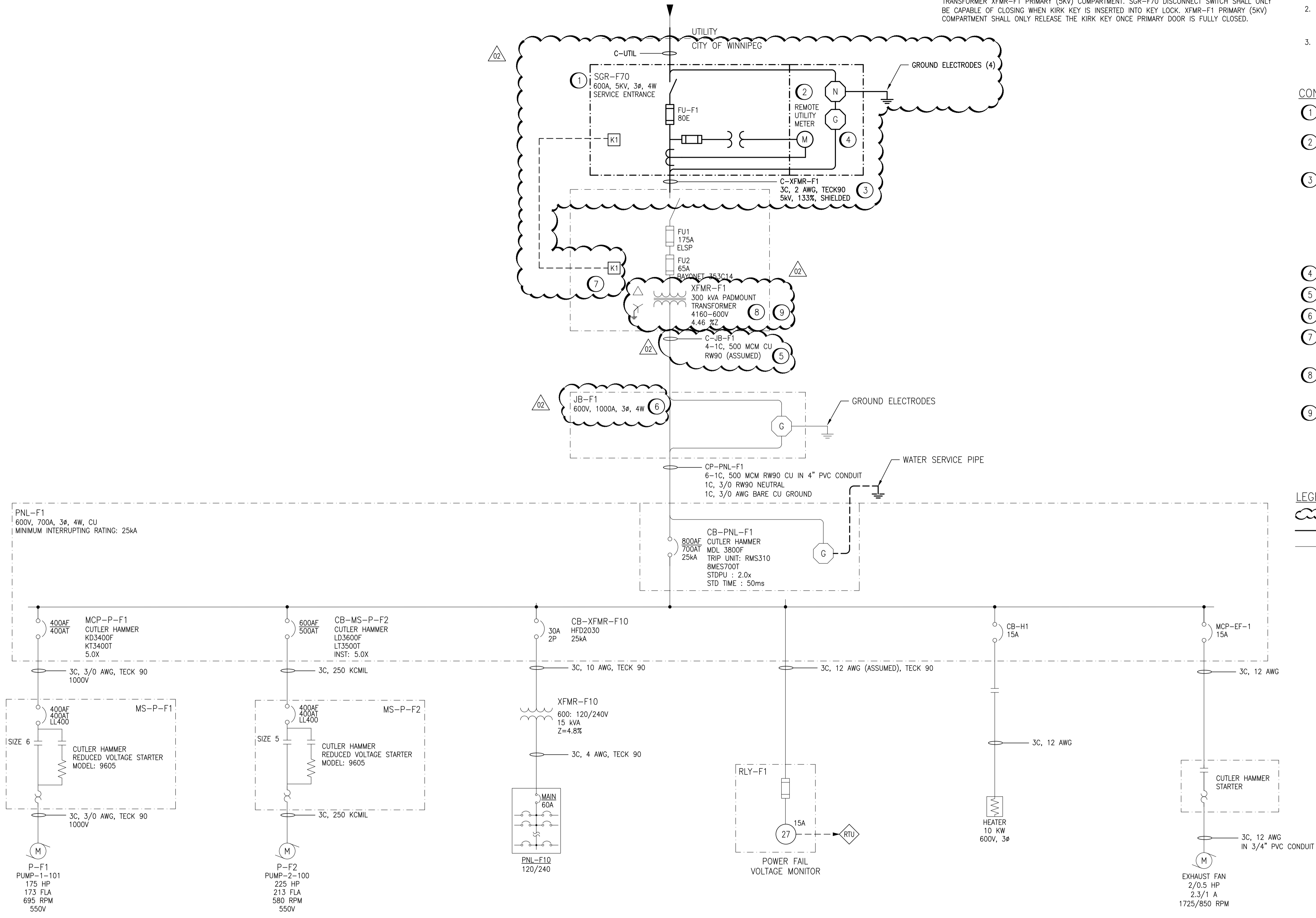
- SUPPLY SURGE ARRESTORS AND CUTOFF FUSES ON 5KV HYDRO POLE.
- SUPPLY NEW UTILITY CABLE (C-UTIL) FROM 5KV HYDRO POLE TO SGR-F70, FUSED DISCONNECT COMPARTMENT.
- SUPPLY NEW METER ALONG WITH METERING TRANSFORMER IN SGR-F70, METERING COMPARTMENT.

CONSTRUCTION NOTES:

- PROVIDE NEW 5KV SERVICE ENTRANCE RATED FUSIBLE DISCONNECT SWITCH. DISCONNECT SWITCH SHALL BE LOAD-BREAK RATED.
- PROVIDE NEW 5KV METERING COMPARTMENT. METER AND METERING TRANSFORMERS WILL BE SUPPLIED AND INSTALLED BY MANITOBA HYDRO.
- PROVIDE NEW 5KV CABLE (133% INSULATION) IN BELOW GRADE. PROVIDE 5/8KV INDOOR RATED, 3/C MODIFICATION KIT (BREAKOUT BOOT) COMPLETE WITH 1/C TERMINATIONS SUITABLE FOR TERMINATIONS AT SGR-F70 METERING COMPARTMENT. PROVIDE 5/8KV INDOOR RATED, 3/C MODIFICATION KIT (BREAKOUT BOOT) COMPLETE WITH LOAD-BREAK ELBOWS FOR TERMINATIONS AT TRANSFORMER XFMR-F1 PRIMARY COMPARTMENT.
- PROVIDE A NEW NEUTRAL-GROUND LINK AT CUSTOMER SERVICE SWITCHGEAR SGR-F70.
- RETAG EXISTING CABLES.
- REPLACE EXISTING LAMACODS.
- CONTRACTOR TO PROVIDE KIRK KEY ON EXISTING TRANSFORMER XFMR-F1 AND SGR-F70. MAKE ADJUSTMENTS AS NECESSARY. SUPPLY CITY WITH KEYS.
- EXISTING TRANSFORMER TO REMAIN. REPLACE TRANSFORMER CABLE TERMINATION PAD BOLTS WITH LONGER BOLTS TO ENSURE PROPER THREAD ENGAGEMENT.
- WITH A PAINT BRUSH AND A CAN OF FLUID FILM, CONTRACTOR TO COAT THE TRANSFORMER ENCLOSURE RUSTED SECTIONS WITH FLUID FILM COATING TO PREVENT FUTURE RUST FROM EXPANDING/SPREADING. DO NOT GET FLUID FILM ON ANY OTHER COMPONENTS OR CABLES (CLEAN OFF IF NEEDED).

LEGEND:

- NEW WORK
- NEW
- EXISTING



**ENGINEERS
 GEOSCIENTISTS
 MANITOBA**
 Certificate of Authorization
AtkinsRéalis Canada Inc.
 No. 4489

NO.	REVISIONS	DATE	DESIGN	CHECK
02	ISSUED FOR TENDER AND CONSTRUCTION	2024/11/20	PG	VE

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 DATE: 2024/07/18
 DATE: 2024/12/20
 CONSULTANT NO.: 701408

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

COLONY FLOOD PUMPING STATION
 2025 TRANSFORMER REMEDIATION UPGRADES
 SINGLE LINE DIAGRAM

CITY DRAWING NUMBER: 1-0128F-E0001
 SHEET: 001
 REV: 02
 SIZE: A1