

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.

LEGEND:

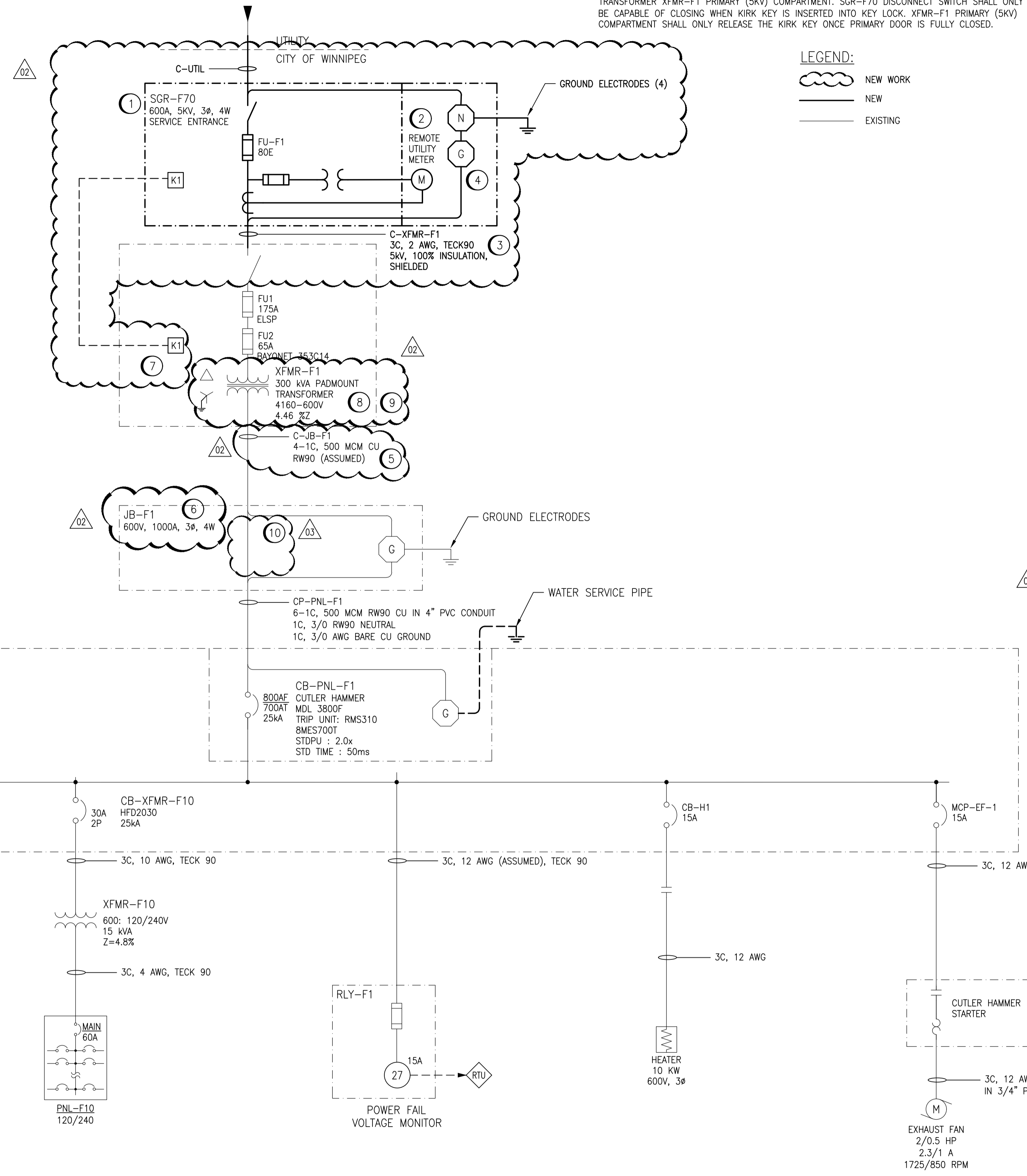
- NEW WORK
- NEW
- EXISTING

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 LAMACOIDS.
- 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).
- CONTRACTOR SHALL REMOVE THE EXISTING METERING CURRENT TRANSFORMERS AND POTENTIAL TRANSFORMERS. CONTRACTOR SHALL PROVIDE NEW BUS BARS TO THE GAP (OR GAPS) WITHIN THE TRANSFORMER REMOVALS SO THAT THE CONDUCTOR ELEMENTS ARE CONTINUOUS WITHOUT BREAK.



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

NO.	REVISIONS	DATE	DESIGN	CHECK
03	ISSUED FOR ADDENDUM 02	2025/01/23	PG	VE
02	ISSUED FOR TENDER AND CONSTRUCTION	2024/11/20	PG	VE

AtkinsRéalis 148 Nature Park Way, Winnipeg, Manitoba Canada R3P 0X7 204-786-8080	
DESIGNED BY: P. GILL	CHECKED BY: V. ELIMBAN
DRAWN BY: K. MOHAMMED	APPROVED BY: D. BECKER
SCALE: N.T.S.	ISSUED FOR CONSTRUCTION BY: B. SOLOWAY
DATE: 2024/07/18	DATE: 2024/12/20
CONSULTANT NO.: 701408	

ENGINEER'S SEAL

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

COLONY FLOOD PUMPING STATION
 2025 TRANSFORMER REMEDIATION UPGRADES
 SINGLE LINE DIAGRAM

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0128F-E0001	001	03	A1