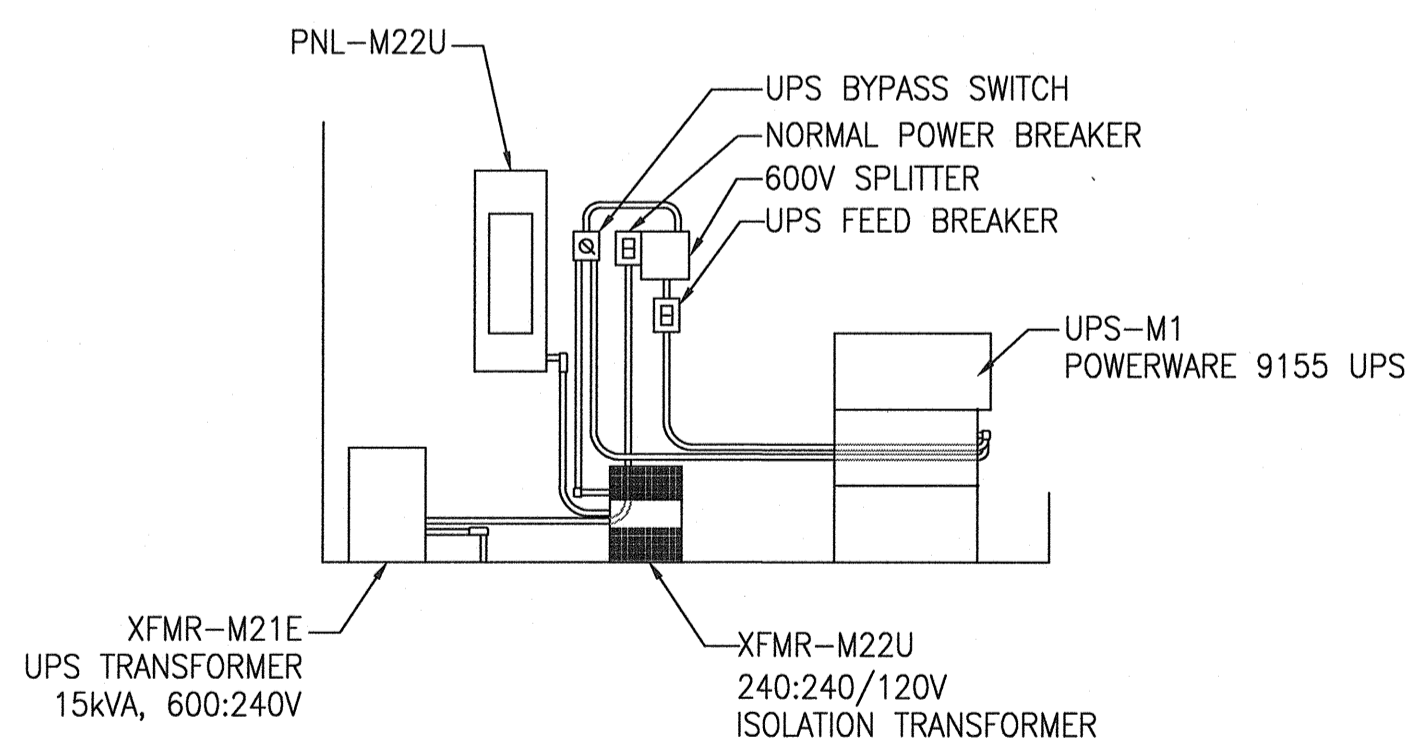
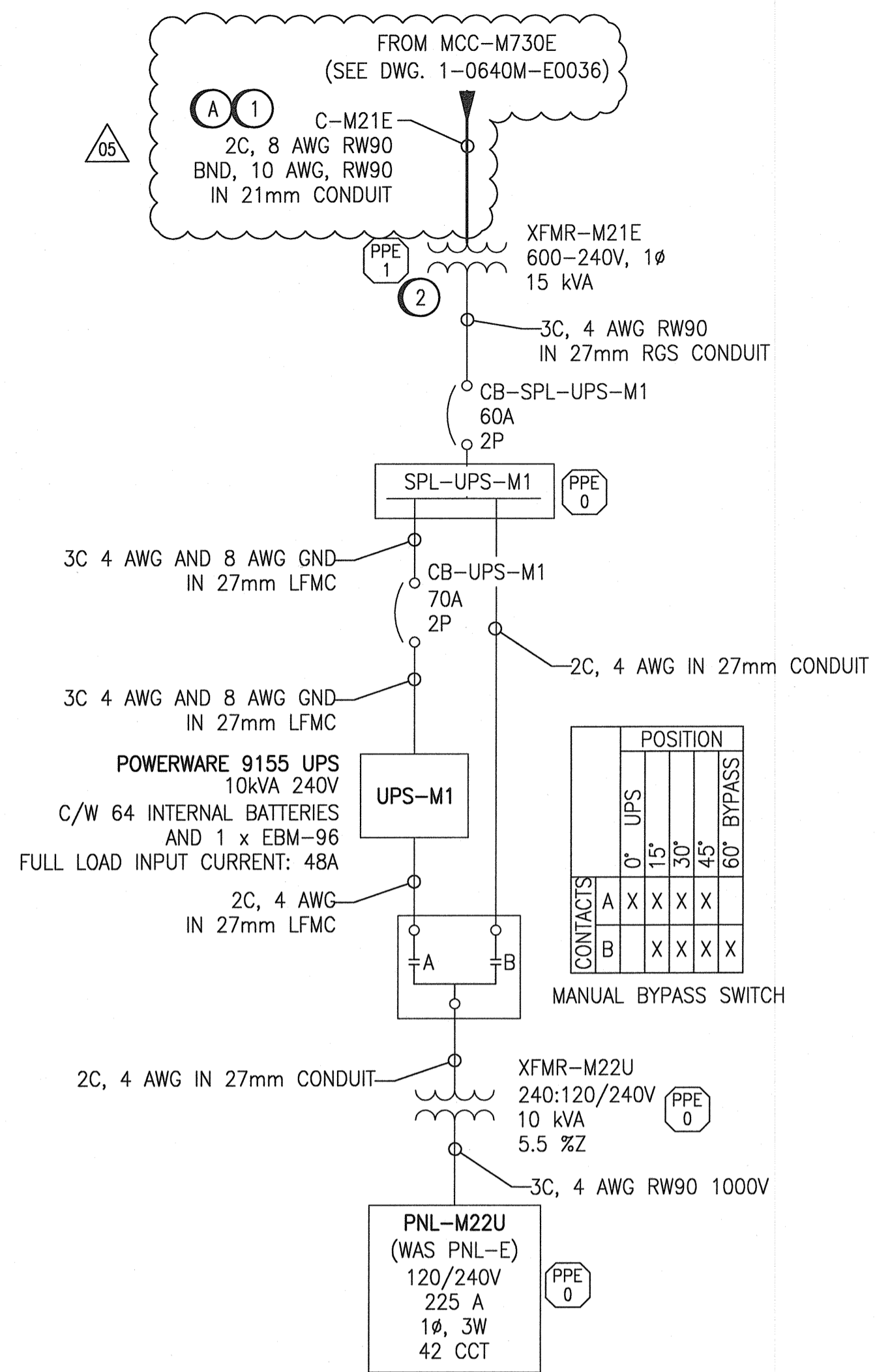


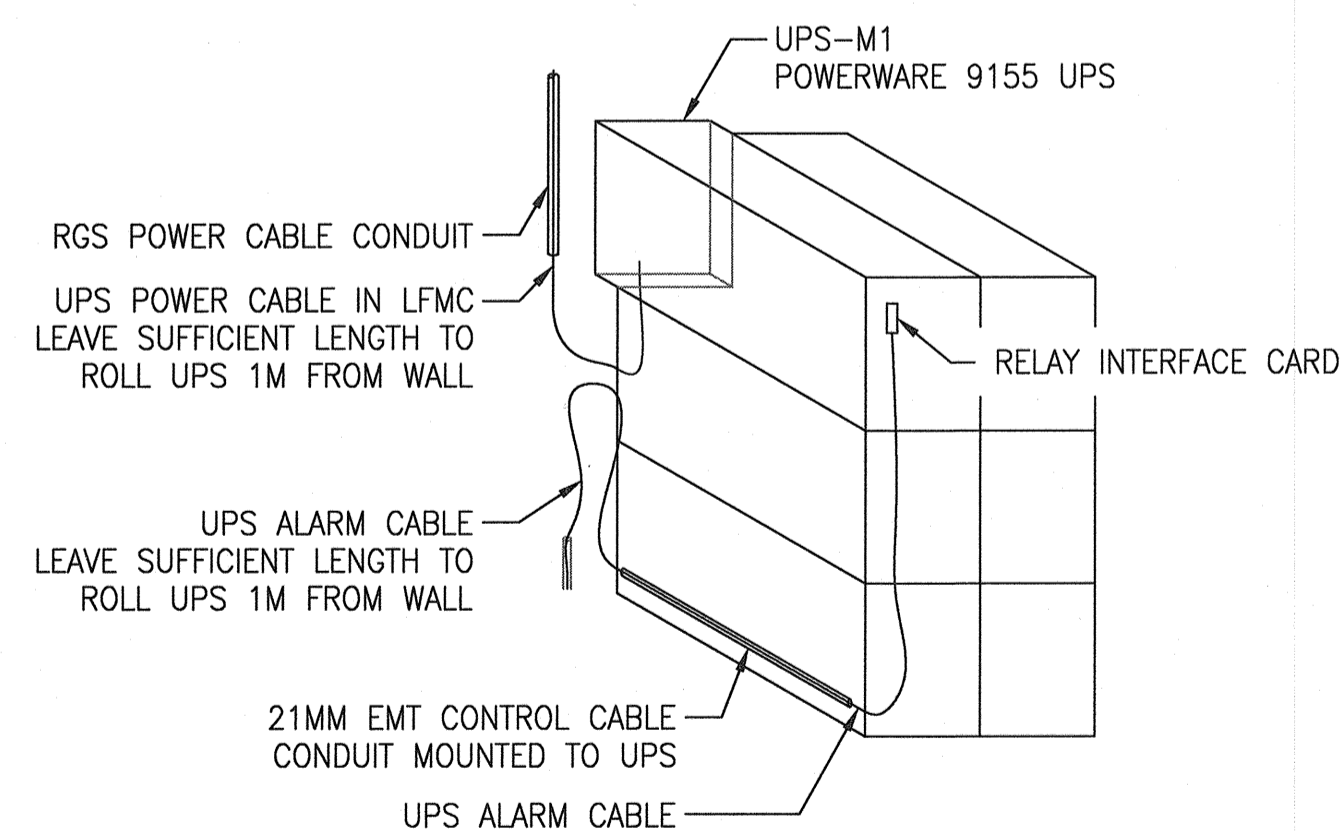
**CONTROL ROOM PLAN**  
SCALE: N.T.S.



**SECTION A**  
SCALE: N.T.S.



**SINGLE LINE DIAGRAM**  
SCALE: N.T.S.



**DETAIL 1 - UPS-M1 ISOMETRIC**  
SCALE: N.T.S.

**LEGEND:**

- LFMC LIQUID TIGHT FLEXIBLE METAL CONDUIT
- LFNMC LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
- RGS RIGID GALVANIZED STEEL CONDUIT

- EXISTING
- NEW WORK

**DEMOLITION NOTES:**

- 1. DISCONNECT AND REMOVE CABLING/CONDUIT FROM EXISTING TRANSFORMER XFRM-M21E UP TO EXISTING MCC-E IN THE ELECTRICAL ROOM. MCC-E TO BE REPLACED BY MCC-M730E.

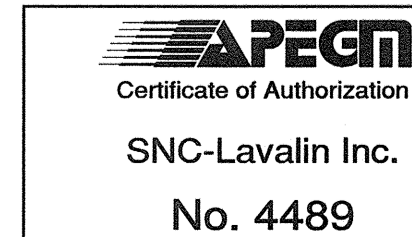
**CONSTRUCTION NOTES:**

- 1. PROVIDE NEW CABLING AND CONDUIT FROM EXISTING TRANSFORMER XFRM-M21E UP TO NEW MCC-M730E IN THE ELECTRICAL ROOM.
- 2. PROVIDE A SEPARATE 6 AWG RW90, GREEN INSULATED CONDUCTOR RUN IN CONDUIT FROM TRANSFORMER X0 TERMINAL TO THE EQUIPMENT GROUNDING SYSTEM CONDUCTOR. REFER TO DRAWING 1-0640M-E0044 FOR DETAILS.

**GENERAL NOTES:**

- 1. REFER TO ASBESTOS REPORTS IN APPENDIX B. ASBESTOS IS PRESENT IN AND/OR PRESUMED TO BE PRESENT IN (BUT NOT LIMITED TO) THE FOLLOWING:  
 PIPING : RAIN WATER LEADER (SWEAT WRAP PIPE INSULATION)  
 WALL : VERMICULITE INSULATION (MASONRY)  
 PLASTER (PREFORMED BLOCK)

- NOTES:**
- ARC FLASH VALUES SHOWN ARE PRELIMINARY AND WILL BE FINALIZED AT A LATER DATE.
  - CLOUDED PORTIONS OF THE DRAWINGS INDICATE WORK TO BE COMPLETED - EITHER REMOVALS OR ADDITION AS INDICATED. REFER TO DEMOLITION AND CONSTRUCTION NOTES.
  - UPS PANEL PNL-M22U FEEDS CRITICAL LOADS. ANY OUTAGE OF UPS PANEL MUST BE DURING OFF HOURS AND LESS THAN FOUR (4) HOURS IN DURATION.



NO.	REVISIONS	DATE	DESIGN	CHECK
05	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE	KS
04	ISSUED FOR CITY USE	2011/11/01	BC	CJR
03	AS BUILT	2008/11/24	-	AEO
02	ISSUED FOR CONSTRUCTION	2008/05/13	-	DC
01	REMOVED SUPPLY OF UPS FROM NOTES	2008/02/22	-	YOM
00	ISSUED FOR TENDER	2008/01/08	-	AEO

**SNC-LAVALIN INC.**  
148 Nature Park Way  
Winnipeg, MB, Canada R3P 0X7  
204-786-8080

DESIGNED BY: C. REIMER  
CHECKED BY: C. REIMER

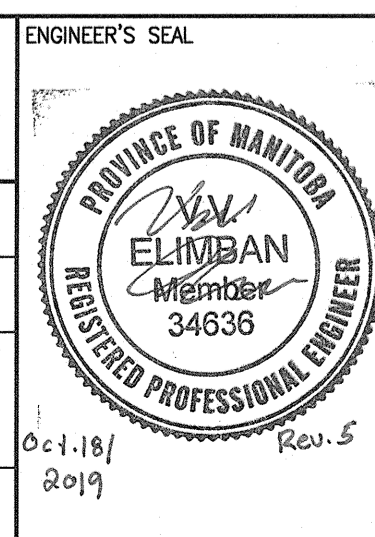
DRAWN BY: A. OLIVER  
APPROVED BY: C. REIMER

SCALE: NTS  
ISSUED FOR CONSTRUCTION

DATE: 2007/07/05  
BY: A. WEISS

DATE: 2019/10/18

CONSULTANT NO.: 113292-0005-47DD-0011



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

MCPHILLIPS PUMPING STATION

SINGLE LINE DIAGRAM & LAYOUT  
REMOVALS & INSTALLATIONS

CITY DRAWING NUMBER: 1-0640M-E0011  
SHEET: 001  
REV: 05  
SIZE: A1