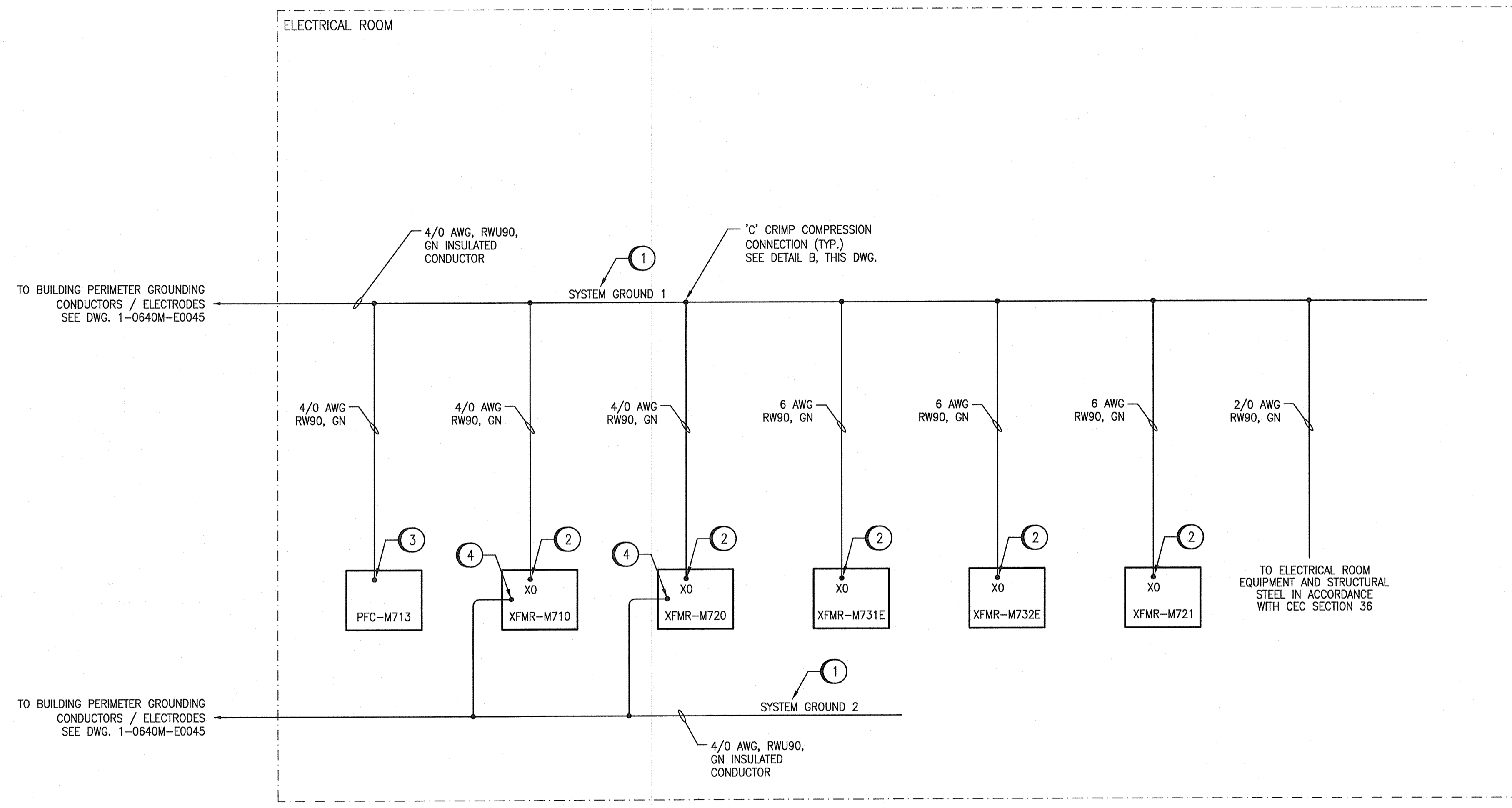


GENERAL NOTES:

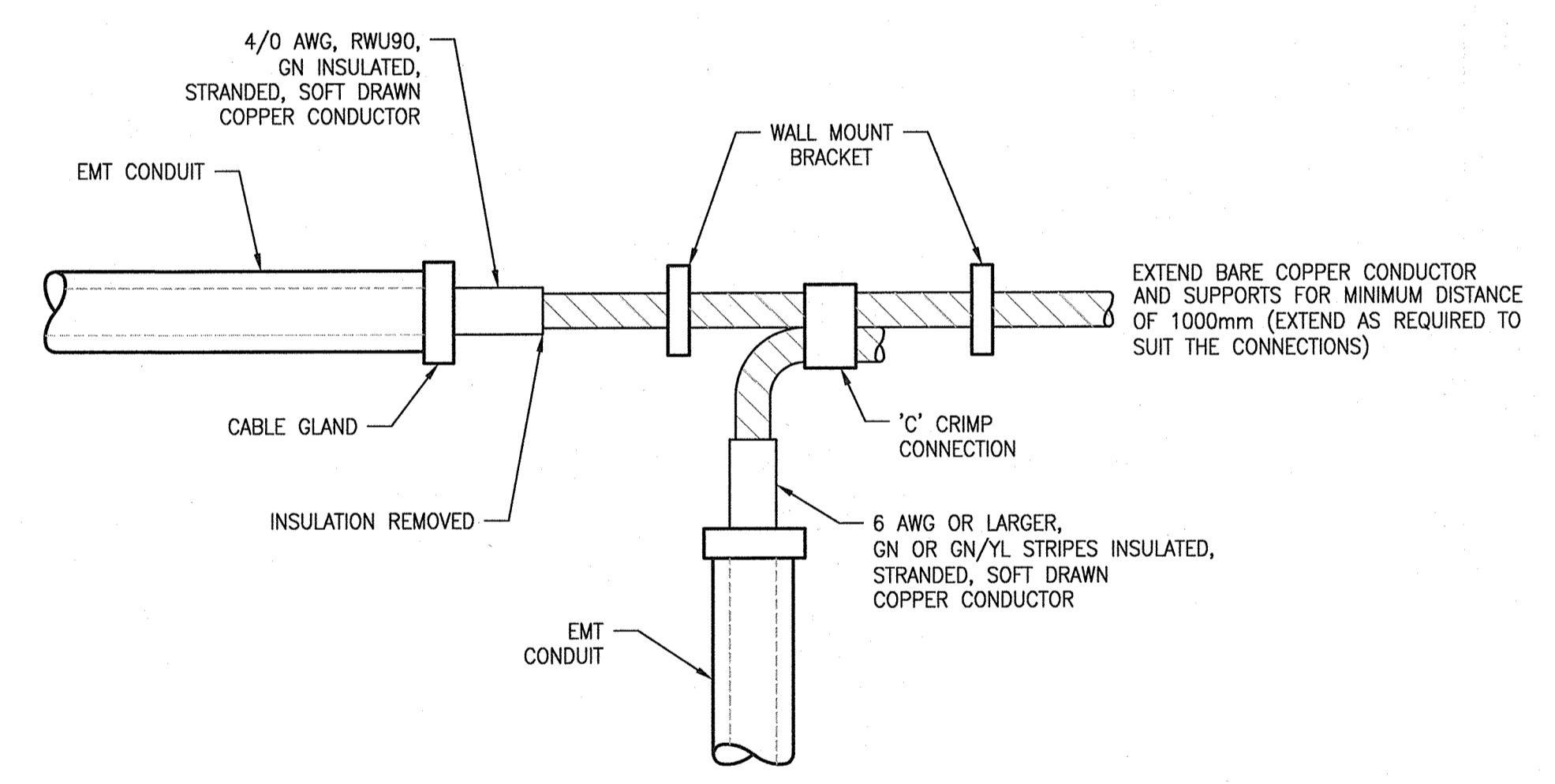
1. CONNECTIONS TO PERIMETER GROUNDING CONDUCTORS SHALL BE 'C' CRIMP PRESSURE CONNECTION OR EXOTHERMIC WELD. ALL COMPRESSION CONNECTIONS SHALL UTILIZE PENETROX JOINT COMPOUND.
2. ALL GROUNDING CONDUCTOR SHALL BE STRANDED, SOFT DRAWN COPPER, UNLESS NOTED OTHERWISE.
3. REFER TO SPECIFICATION 26 05 34 FOR CONDUIT TYPE. 01
4. ALL WIRES/CABLES SHALL BE RUN IN CONDUIT. SIZE CONDUITS IN ACCORDANCE WITH THE CEC.
5. NOT ALL BOND CONNECTIONS ARE SHOWN AS A MINIMUM PERFORM BONDING IN ACCORDANCE WITH CEC.

CONSTRUCTION NOTES:

- ① PROVIDE LAMACOID TAG ON WALL, ABOVE THE GROUND CONDUCTORS INDICATING "SYSTEM GROUND" AS APPLICABLE.
- ② PROVIDE GROUND CONNECTION FROM SYSTEM GROUND TO TRANSFORMER XO TERMINAL.
- ③ PROVIDE GROUND CONNECTION TO POWER FACTOR CORRECTION UNIT, PFC-M713, AS PER MANUFACTURER'S REQUIREMENTS.
- ④ PROVIDE A GROUND CONNECTION TO THE TRANSFORMER ENCLOSURE SEPARATE FROM XO TERMINAL CONNECTION.



A EQUIPMENT GROUNDING CONNECTION
 SCALE: NTS

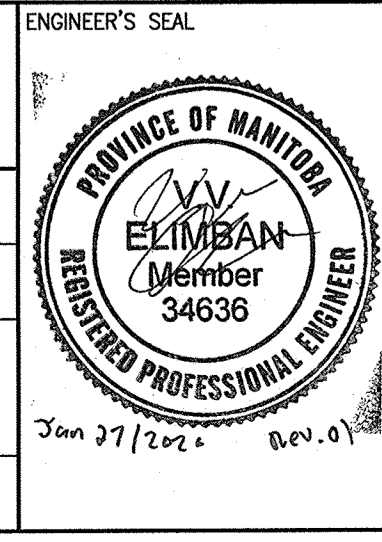


B GROUND CONNECTION POINT DETAIL (TYP).
 SCALE: NTS

1-0640M-E0045	GROUNDING LAYOUT MAIN FLOOR
1-0640M-E0036	ELECTRICAL SINGLE LINE DIAGRAM, MCC-M730E
1-0640M-E0034	ELECTRICAL SINGLE LINE DIAGRAM, MCC-M720
1-0640M-E0032	ELECTRICAL SINGLE LINE DIAGRAM, MCC-M710
1-0640M-E0002	ELECTRICAL SINGLE LINE DIAGRAM, 4160V DISTRIBUTION
DRAWING NUMBER	REFERENCE DRAWINGS



SNC-LAVALIN INC. 148 Notaire Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: S. JUCANAS	CHECKED BY: K. SAPIAK
DRAWN BY: S. JUCANAS	APPROVED BY: D. BECKER
SCALE: NTS	ISSUED FOR CONSTRUCTION BY: A. WEISS
DATE: 2019/04/23	DATE: 2019/10/18
CONSULTANT NO.:	
NO. REVISIONS	DATE DESIGN CHECK
01	ISSUED FOR ADDENDUM 5 2020/01/27 VE VE
00	ISSUED FOR TENDER AND CONSTRUCTION 2019/10/18 SLJ KS



THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

MCPHILLIPS WATER PUMPING STATION
 ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT
 ELECTRICAL GROUNDING
 RISER DIAGRAM

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0640M-E0044	001	01	A1