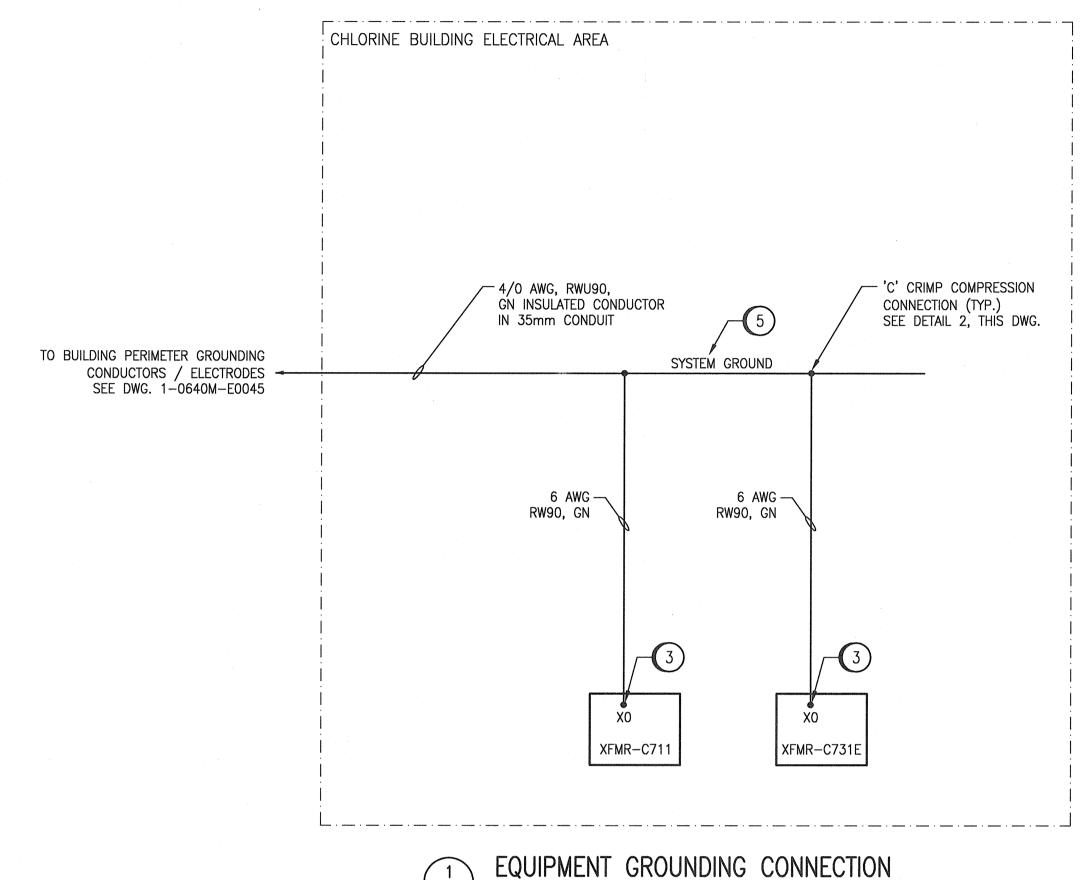


CHLORINE BUILDING - ELECTRICAL PLAN LAYOUT (AT GALLERY LEVEL) SCALE: 1 : 20



4/0 AWG, RWU90, — GN INSULATED, STRANDED, SOFT DRAWN COPPER CONDUCTOR - WALL MOUNT ---BRACKET EXTEND BARE COPPER CONDUCTOR AND SUPPORTS FOR MINIMUM DISTANCE OF 1000mm (EXTEND AS REQUIRED TO SUIT THE CONNECTIONS) CABLE GLAND CONNECTION INSULATION REMOVED -- 6 AWG OR LARGER, GN OR GN/YL STRIPES INSULATED, STRANDED, SOFT DRAWN COPPER CONDUCTOR EMT OR RIGID PVC AS APPLICABLE. — RIGID PVC ONLY IN TANK AND EQUIPMENT ROOM

GROUND CONNECTION POINT DETAIL (TYP).

CONSTRUCTION NOTES:

- NOT ALL ELECTRICAL EQUIPMENT ARE SHOWN. REFER TO DRAWING 1-0640C-E0005 FOR COMPLETE LAYOUT.
- SYSTEM GROUND CONDUCTOR TO BE MOUNTED ON THE WALL AT APPROXIMATELY 2500MM ABOVE FLOOR. SEE DETAIL 1 AND 2 ON THIS SHEET FOR EQUIPMENT GROUNDING CONNECTION.
- PROVIDE GROUND CONNECTION FROM SYSTEM GROUND TO NEW TRANSFORMER'S XO TERMINAL.
- PROVIDE THREE RUNS OF 4/O BONDING CABLES IN SEPARATE CONDUITS FROM PERIMETER GROUND AT MAIN PUMPHOUSE TO CHLORINE BUILDING MCC.
- PROVIDE LAMACOID TAG ON WALL, ABOVE THE GROUND CONDUCTORS INDICATING "SYSTEM GROUND".

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. FOR CONDUIT RUNS CONFINED WITHIN THE ELECTRICAL ROOM, EMT MAY BE USED. FOR ANY CONDUITS EXITING THE ELECTRICAL ROOM, RIGID THREADED ALUMINUM CONDUIT SHALL BE USED.
- 4. ALL WIRES/CABLES SHALL BE RUN IN CONDUIT. SIZE CONDUITS IN ACCORDANCE WITH THE CEC.
- 5. NOT ALL BOND CONNECTION ARE SHOWN. PERFORM AS A MINIMUM BONDING IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE.

LEGEND:

---- GROUNDING CONDUCTOR (ABOVE GRADE / INSIDE OF BUILDING)

EQUIPMENT GROUND CONNECTION

NOTES:

- THIS DRAWING SUPERCEDES PART OF DRAWING Q-MCP-186. SPACE FOR NEW EQUIPMENT IS LIMITED. ENSURE EQUIPMENT PROVIDED FITS IN AVAILABLE SPACE AND MEETS APPLICABLE CODES AND STANDARDS.
- 3. ALL EQUIPMENT ARE NEW UNLESS SPECIFICALLY STATED OTHERWISE.

METRIC WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES 0,0 0,2 0,4 0.8

1:20

APEGIN Certificate of Authorization SNC-Lavalin Inc. No. 4489

				(*)	SNC-LAVALIN INC. 148 Nature Park Way	
					SNC·LAVALIN	Winnipeg, MB, Canada R3P 0X7 204-786-8080
					DESIGNED BY: V. ELIMBAN	CHECKED BY: K. SAPIAK
					DRAWN BY: J. GRAGASIN	APPROVED BY: D. BECKER
					SCALE: AS SHOWN	ISSUED FOR CONSTRUCTION BY: A. WEISS
					DATE: 2019/08/28	DATE: 2019/10/18
00	ISSUED FOR TENDER AND CONSTRUCTION	2019/10/18	VE	KS	CONSULTANT NO.:	
NO	REVISIONS	DATE	DESIGN	CHECK		



NGINEER'S SEAL



THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION ELECTRICAL AND HVAC UPGRADES, MCC REPLACEMENT ELECTRICAL GROUNDING DETAILS CHLORINE BUILDING

CITY DRAWING NUMBER SHEET REV. SIZE 1-0640C-E0011 001 | 00 | A1

1-0640C-E0011-001-00.dwg

-0640C-E0012 I-0640M-E0045 I-0640M-E0043 -0640C-E0007 -0640C-E0005

-0640C-E0003

DRAWING NUMBER

ELECTRICAL GROUNDING LAYOUT, MAIN FLOOR PLAN ELECTRICAL GROUNDING, INSTALLATION DETAILS

ELECTRICAL EQUIPMENT PLAN, CHLORINE BUILDING PANEL LAYOUT, MCC-C710/MCC-C720E LOCATION PLAN ELECTRICAL SINGLE LINE DIAGRAM MCC-C710/MCC-C720E REFERENCE DRAWINGS

ELECTRICAL - HAZARDOUS LOCATION, CHLORINE BLDG GROUND LEVEL