

- GENERAL NOTES:**
1. CONNECTIONS TO SYSTEM GROUND ELECTRODES SHALL BE THERMOWELDED IN ACCORDANCE WITH CEC 10-806.
  2. PERIMETER BURIED GROUND WIRING SHALL BE LAID IN UNDISTURBED NATIVE SOIL OR MECHANICALLY COMPACTED SOIL. GROUND RODS SHALL BE INSTALLED IN UNDISTURBED NATIVE SOIL OR MECHANICALLY COMPACTED SOIL.
  3. ALL GROUND CABLES AND CONNECTIONS SHALL BE 4/0 AWG COPPER UNLESS NOTED OTHERWISE.
  4. ALL SURFACE RUN CABLING SHALL BE PHYSICALLY PROTECTED BY DIRECT BURIAL OR BY SURFACE RUN CONDUIT. EXPOSED GROUND CABLES ARE NOT ACCEPTABLE.

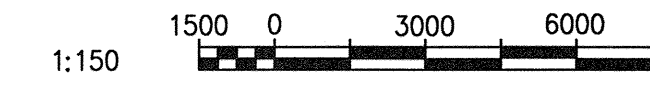
- LEGEND:**
- GROUNDING CONDUCTOR
  - ⊕ GROUND ROD WITH GROUND WELL
  - ⊙ GROUND ROD
  - THERMOWELDED TEE CONNECTION

- SPECIFIC NOTES:**
- 1 PROVIDE DOWN CONDUCTORS FROM ROOF FOR LIGHTNING PROTECTION SYSTEM.
  - 2 APPROXIMATE LOCATION OF CONNECTION POINT TO PIPE/CABLE TRAY STRUCTURAL STEEL SUPPORTS COLUMNS.
  - 3 PROVIDE 4/0 AWG BARE STRANDED COPPER CONDUCTOR ROUTED INTERNAL TO CONCRETE. PROVIDE AT LEAST 1000mm SLACK ABOVE THE CONCRETE SLAB FOR CONNECTION TO PIPE/CABLE TRAY STRUCTURAL STEEL SUPPORTS.

CONTINUED ON DWG. EGRD-R002 002

**PARTIAL UPPER LEVEL/GROUND FLOOR PLAN**  
1 : 150

1-0102-EGRD-A003	GROUNDING DETAILS
REFERENCE DRAWINGS	DESCRIPTION



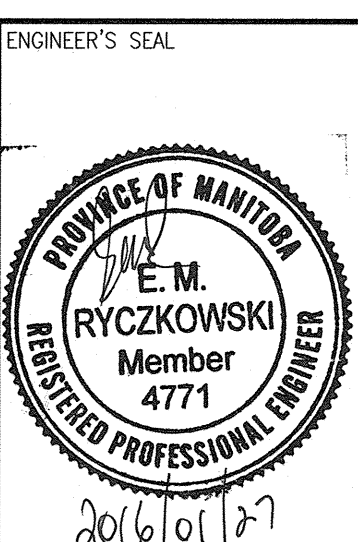
00	ISSUED FOR TENDER - B.O. 899-2015	01/2016	SLJ	DEB
NO.	REVISIONS	DATE	DESIGN	CHECK

**CH2MHILL**  
SNC-LAVALIN GROUP

DESIGNED BY: S. JUGANAS  
DRAWN BY: S. JUGANAS  
SCALE: 1:150  
DATE: 2015/09/22

CHECKED BY: D. BECKER  
APPROVED BY: E. RYCZKOWSKI  
ISSUED FOR CONSTRUCTION BY: T. TURZAK  
DATE: 2016/01/29

CONSULTANT NO.: 474248



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

SOUTH END WATER POLLUTION CONTROL CENTRE  
SEWPPC UPGRADING/EXPANSION PROJECT  
ELECTRICAL - GROUNDING LAYOUT  
BIOREACTORS/BLOWER BUILDING  
UPPER LEVEL/GROUND FLOOR PLAN

CITY DRAWING NUMBER: 1-0102-EGRD-R002  
SHEET: 001  
REV.: 00  
SIZE: A1