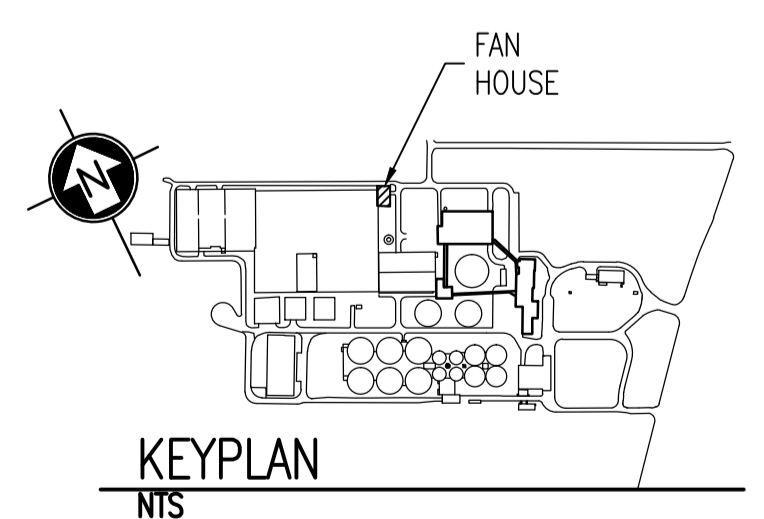


1  
- -  
DETAIL - BUS BAR  
SCALE: 1 : 5

- CONSTRUCTION NOTES
- 1 PROVIDE EIGHT ROD GROUND ELECTRODE AS SHOWN. LOCATE ALL EXISTING UNDERGROUND SERVICES IN AREA PRIOR TO INSTALLATION OF ELECTRODE. SEE DRAWING 1-0101A-E0010 FOR DETAILS. PROVIDE A GROUND WELL AT EACH ROD LOCATION.
  - 2 PROVIDE 4/0 AWG CONDUCTOR FROM GROUND ELECTRODE TO GROUND BUS BAR. CORE DRILL HOLE THROUGH WALL ABOVE GRADE.
  - 3 PROVIDE 4/0 AWG CONDUCTOR FROM GROUND ELECTRODE TO GROUND BUS BAR. CORE DRILL HOLE THROUGH WALL ABOVE GRADE.
  - 4 PROVIDE 4/0 AWG INSULATED GROUND CONDUCTOR FROM GROUND BUS BAR TO GROUND CONDUCTOR IN RAS GALLERY.
  - 5 PROVIDE 4/0 AWG GROUND CONDUCTOR FROM GROUND BUS BAR TO EXISTING GROUND CONDUCTOR AS SHOWN. INSTALL IN 27mm PVC CONDUIT.
  - 6 PROVIDE GROUND BUS BAR AT HEIGHT OF 400mm ABOVE FINISHED FLOOR. INSTALL CONDUCTORS IN 27mm PVC CONDUIT.
  - 7 PROVIDE 4/0 AWG GROUND CONDUCTOR FROM GROUND BUS BAR TO TRANSFORMER T2.
  - 8 RESTORE THE SIDEWALK AND ALL GRASSED AND PAVEMENT SURFACES AS PER THE SPECIFICATIONS.

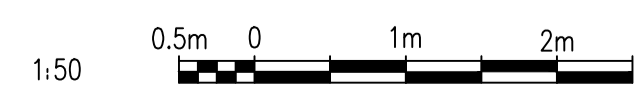
LEGEND:

- - - - - EXISTING BURIED SERVICE
- - - - - EXISTING CONDUCTOR
- NEW CONDUCTOR
- GROUND ROD
- CONNECTION
- ⊕ ELEVATION CHANGE



FAN HOUSE  
SCALE: 1 : 50

- NOTES:
1. THE ELEVATION OF THE GROUNDING CONDUCTORS AND ELECTRODES VARIES AND IS SHOWN ON A SINGLE LEVEL TO EASE THE UNDERSTANDING OF HOW THE GROUNDING SYSTEM IS INTERCONNECTED.
  2. THE LOCATION AND ROUTING OF EXISTING GROUNDING CONDUCTORS IS APPROXIMATE.



1-0101A-E0010	GROUNDING INSTALLATION DETAILS
1-0101A-E0011	SITE PLAN - GROUNDING CONDUCTOR ROUTING
DRAWING NUMBER	REFERENCE DRAWINGS

**APECM**  
Certificate of Authorization  
SNC-Lavalin Inc.  
No. 4489

00	ISSUED FOR TENDER, BID OPP: 845-2012	2012/10/30	TMC	CJR
NO.	REVISIONS	DATE	DESIGN	CHECK

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

DESIGNED BY: I. CHURCH  
DRAWN BY: S. COATES  
SCALE: 1:50  
DATE: 2009/11/30

CHECKED BY: C. REIMER  
APPROVED BY: C. REIMER  
RELEASED FOR CONSTRUCTION BY: B. STATION  
DATE: 2012/10/31

CONSULTANT NO.: 113312-0000-47DD-0013

ENGINEER'S SEAL

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

NORTH END WATER POLLUTION CONTROL CENTRE  
GROUNDING UPGRADES  
PLAN LAYOUT  
GROUNDING  
FAN HOUSE

CITY DRAWING NUMBER: 1-0101S-E0005  
SHEET: 001  
REV: 00  
SIZE: A1