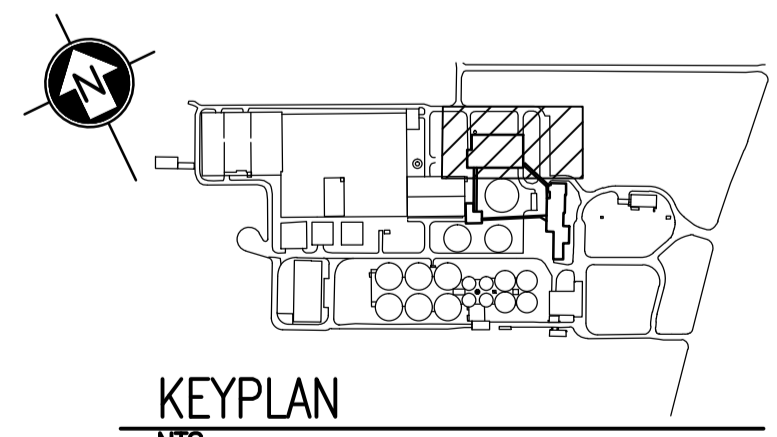


MB HYDRO SUBSTATION AND GRIT BUILDING - LOWER LEVEL
SCALE: 1 : 250

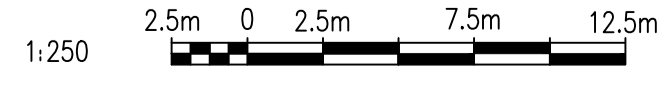
LEGEND:

- EXISTING CONDUCTOR
- NEW CONDUCTOR
- - - CONDUCTOR ABOVE ELEVATION SHOWN
- GROUND ROD
- CONNECTION
- ↗ ELEVATION CHANGE

- CONSTRUCTION NOTES**
- 1 PROVIDE 4/0 AWG CONDUCTOR FROM OXYGEN REACTORS ELECTRICAL ROOM TO GRIT ELECTRICAL ROOM. LOCATE IN EXISTING CABLE TRAY. INSTALL IN 27mm PVC CONDUIT WHERE NOT IN TRAY.
 - 2 PROVIDE 2/0 AWG CONDUCTOR TO BOND PIPE ENTERING BUILDING. CONNECT TO GROUND CONDUCTOR IN CABLE TRAY ABOVE PIPE. USE APPROVED PIPE CLAMP OR EXOTHERMIC WELD. INSTALL CABLE IN 21mm PVC CONDUIT.
 - 3 NO WORK REQUIRED FOR EXISTING SUBSTATION GROUND CONDUCTORS.



- 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. SEE LEGEND FOR LINETYPES OF CONDUCTORS AT DIFFERENT ELEVATIONS.
 2. THE LOCATION AND ROUTING OF EXISTING GROUNDING CONDUCTORS IS APPROXIMATE.



NO.	REVISIONS	DATE	DESIGN	CHECK
01	MODIFIED SUBSTATION GROUND CONDUCTORS	2012/11/15	TMC	CJR
00	ISSUED FOR TENDER, BID OPP. 845-2012	2012/10/30	TMC	CJR

		SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY:	T. CHURCH	CHECKED BY:	C. REIMER
DRAWN BY:	S. COATES	APPROVED BY:	C. REIMER
SCALE:	1:250	RELEASED FOR CONSTRUCTION BY:	B. STATION
DATE:	2009/11/20	DATE:	2012/10/31
CONSULTANT NO.:	113312-0000-47DD-0002		

ENGINEER'S SEAL
ORIGINAL DRAWING SEALED BY:
T. M. CHURCH
SNC-LAVALIN INC.
2012/10/31
REV. 00

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

NORTH END WATER POLLUTION CONTROL CENTRE
GROUNDING UPGRADES
SITE PLAN
GROUNDING CONDUCTOR ROUTING

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0101A-E0011	002	01	A1

1-0101A-E0010	GROUNDING INSTALLATION DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS