

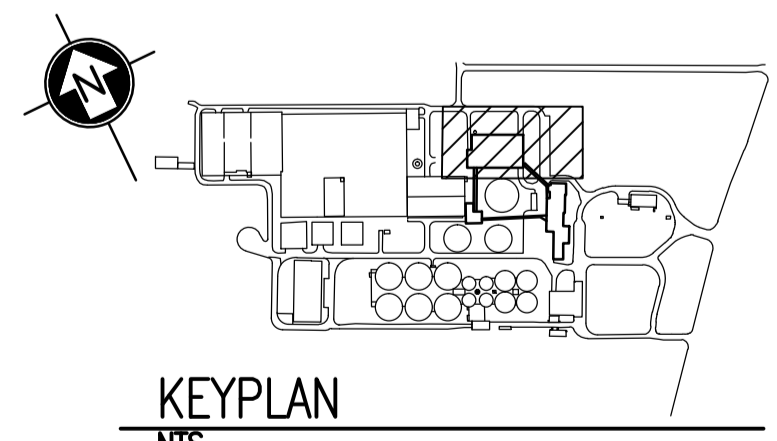
MB HYDRO SUBSTATION AND GRIT BUILDING - LOWER LEVEL
SCALE: 1 : 250

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 |

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|-----------------|-----------------------|--|------------|
| | | 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

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|--|-------|------|------|
| 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 |