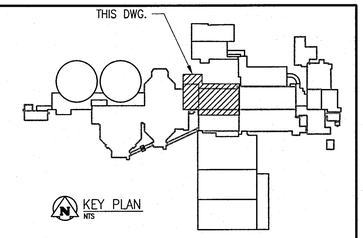
A1 SIZE – 594mm x 841mm

GENERAL NOTES:

1. CONNECTIONS TO SYSTEM GROUND ELECTRODES SHALL BE EXOTHERMIC WELD 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 GROUNDING CONDUCTOR SHALL BE STRANDED, SOFT DRAWN COPPER, UNLESS NOTED OTHERWISE.
4. ALL CABLING SHALL BE PHYSICALLY PROTECTED BY DIRECT BURIAL OR BY SURFACE RUN CONDUIT. EXPOSED GROUND CABLES ARE NOT ACCEPTABLE.

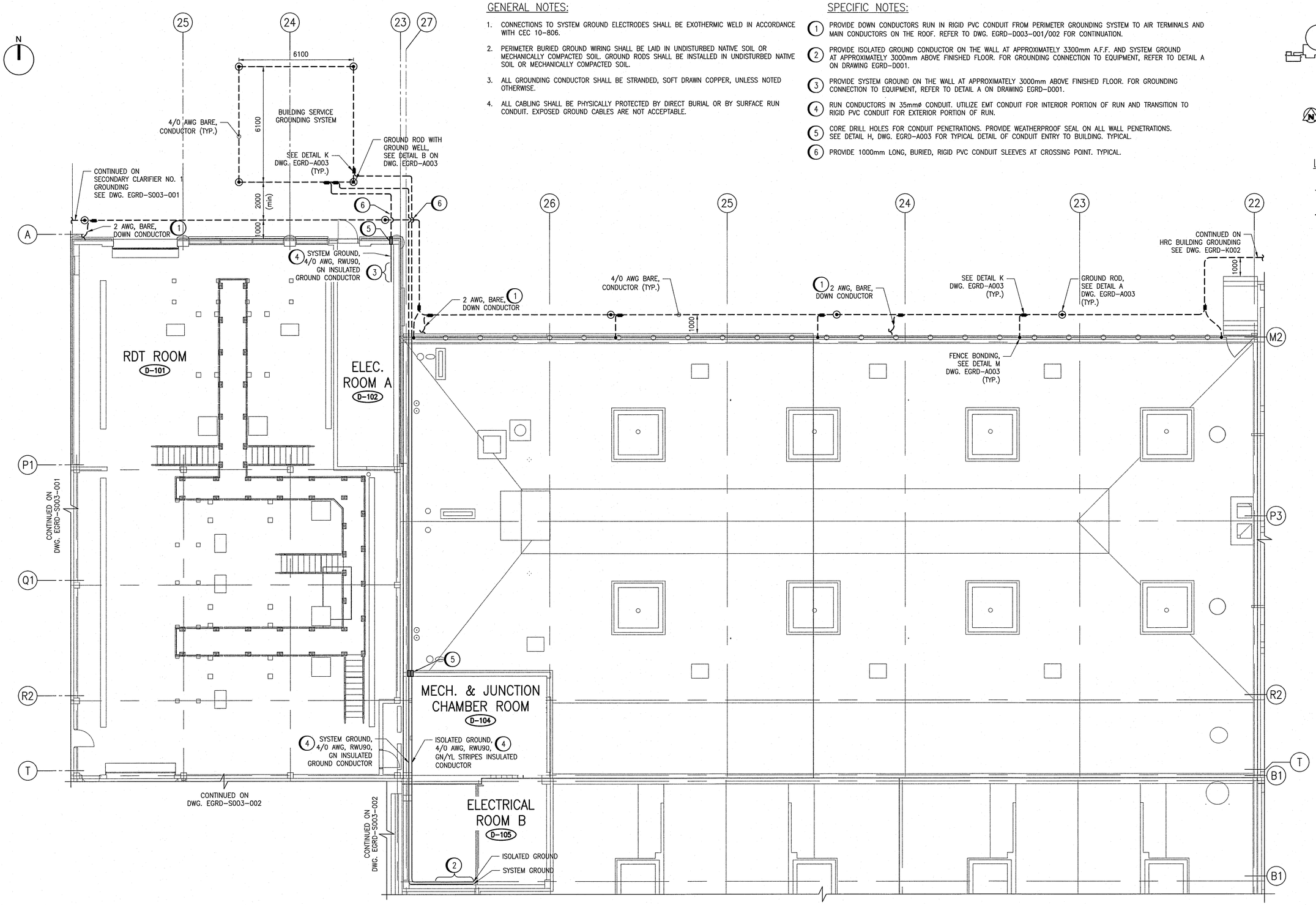
SPECIFIC NOTES:

1. PROVIDE DOWN CONDUCTORS RUN IN RIGID PVC CONDUIT FROM PERIMETER GROUNDING SYSTEM TO AIR TERMINALS AND MAIN CONDUCTORS ON THE ROOF. REFER TO DWG. EGRD–D003–001/002 FOR CONTINUATION.
2. PROVIDE ISOLATED GROUND CONDUCTOR ON THE WALL AT APPROXIMATELY 3300mm A.F.F. AND SYSTEM GROUND AT APPROXIMATELY 3000mm ABOVE FINISHED FLOOR. FOR GROUNDING CONNECTION TO EQUIPMENT, REFER TO DETAIL A ON DRAWING EGRD–D001.
3. PROVIDE SYSTEM GROUND ON THE WALL AT APPROXIMATELY 3000mm ABOVE FINISHED FLOOR. FOR GROUNDING CONNECTION TO EQUIPMENT, REFER TO DETAIL A ON DRAWING EGRD–D001.
4. RUN CONDUCTORS IN 35mmø CONDUIT. UTILIZE EMT CONDUIT FOR INTERIOR PORTION OF RUN AND TRANSITION TO RIGID PVC CONDUIT FOR EXTERIOR PORTION OF RUN.
5. CORE DRILL HOLES FOR CONDUIT PENETRATIONS. PROVIDE WEATHERPROOF SEAL ON ALL WALL PENETRATIONS. SEE DETAIL H, DWG. EGRD–A003 FOR TYPICAL DETAIL OF CONDUIT ENTRY TO BUILDING. TYPICAL.
6. PROVIDE 1000mm LONG, BURIED, RIGID PVC CONDUIT SLEEVES AT CROSSING POINT. TYPICAL.



LEGEND:

- GROUNDING CONDUCTOR (ABOVE GRADE/INSIDE OF BUILDING)
- GROUNDING CONDUCTOR (BELOW GRADE)
- GROUND ROD WITH GROUND WELL
- GROUND ROD
- PARALLEL CONNECTION (EXOTHERMIC WELD)
- BOND CONNECTION



GROUND LEVEL PLAN

1 : 100

1:100 1000 0 2000 4000

REFERENCE DRAWINGS	DESCRIPTION
1–0102–EGRD–A003	GROUNDING DETAILS
1–0102–EGRD–D001	GROUNDING, RISER DIAGRAM

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

NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR CONSTRUCTION – 976–2016	2017/04/05	SLJ	DEB

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: S. JUGANAS	CHECKED BY: E. RYCZKOWSKI
DRAWN BY: S. JUGANAS	APPROVED BY: D. BECKER
SCALE: 1:100	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2016/07/06	DATE: 2017/04/05
CONSULTANT NO.: 474248	

ENGINEER'S SEAL
PROVINCE OF MANITOBA
D.E. BECKER
Member
23646
REGISTERED PROFESSIONAL ENGINEER
April 5 2017

Winnipeg
THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL – GROUNDING LAYOUT
FERMENTERS/THICKENERS
GROUND LEVEL PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–EGRD–D002	001	00	A1

LAST SAVE: 2017/03/24 – 2:22pm
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PLOT DATE: Mar 24, 2017 – 2:22pm

FILE NAME: 1–0102–EGRD–D002.dwg