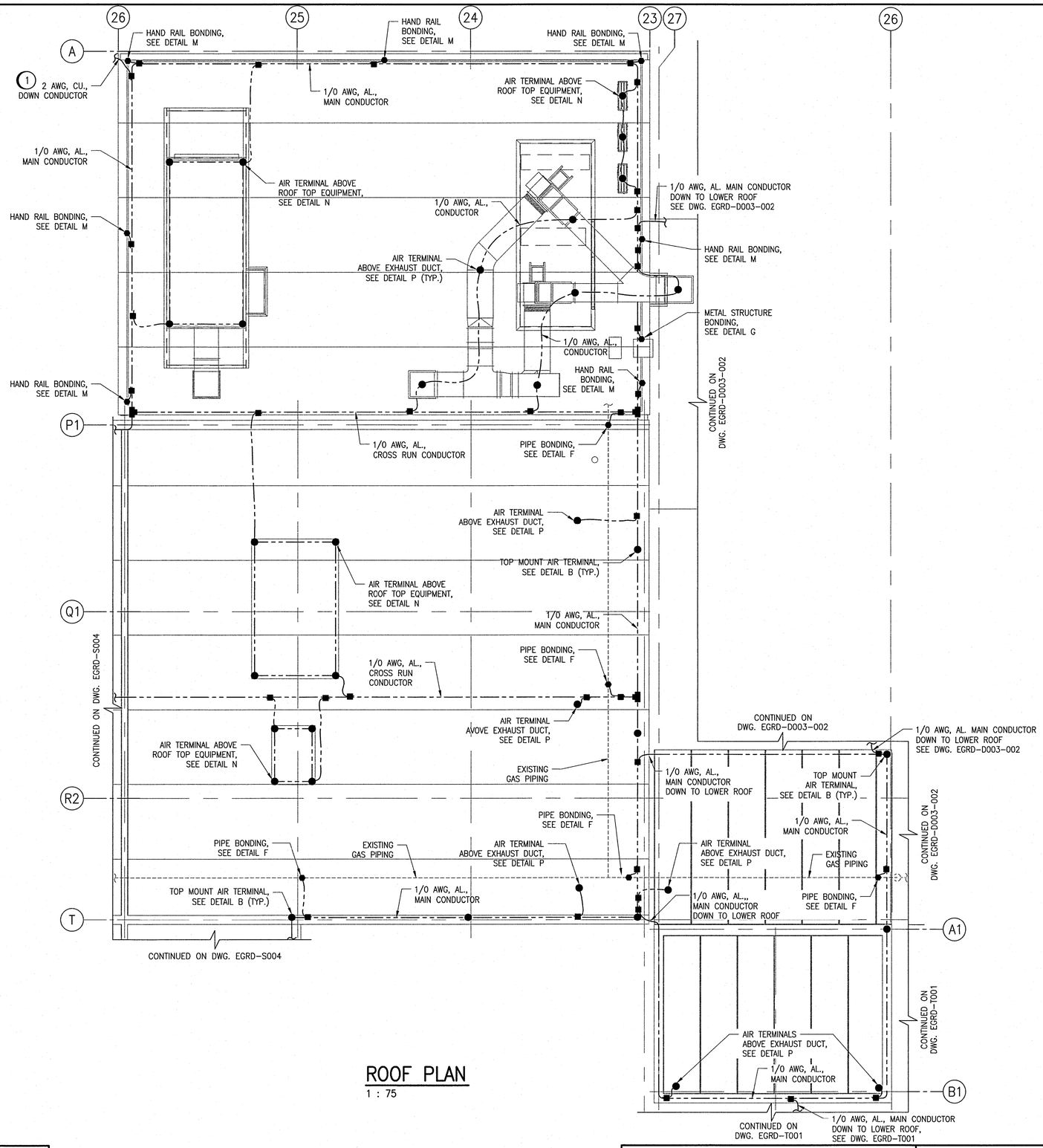
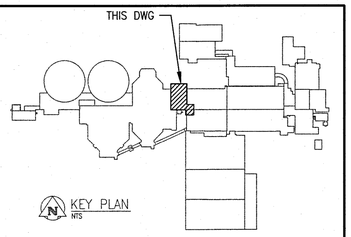
A1 SIZE – 594mm x 841mm



ROOF PLAN

1 : 75



GENERAL NOTES:

1. REFER TO DRAWING EGRD–A004–001/002 FOR LIGHTNING PROTECTION DETAILS.
2. THE DESIGN INDICATES GENERAL CONCEPTS AND DOES NOT INCLUDE EVERY CONDUCTOR, AIR TERMINAL, CONNECTION, ETC. THE CONTRACTOR SHALL CONFIRM THE INSTALLATION BY THE PERFORMANCE OF DETAILED LIGHTNING PROTECTION SYSTEM ANALYSIS. SUBMIT RESULTS OF ANALYSIS COMPLETE WITH COMPONENT SHOP DRAWINGS WHICH INCLUDE DETAILED BILL OF MATERIALS AND COMPONENT DESCRIPTIONS.
3. THE CONTRACTOR PERFORMING THE WORK SHALL BE LPI CERTIFIED MASTER INSTALLER.
4. THE CONTRACTOR PERFORMING THE LIGHTNING PROTECTION SYSTEM SHOP DRAWINGS SHALL BE A LPI CERTIFIED MASTER INSTALLER.
5. WORK SHALL BE TESTED AND VERIFIED BY A LPI–IP CERTIFIED FIELD INSPECTOR.
6. THE SHOP DRAWING DESIGN, AND INSTALLATION SHALL MEET OR EXCEED THE STANDARDS LAID OUT IN UL96A, NFPA 780, LPI–175 AND CAN/CSA–B72.
7. ALL CONDUCTORS, AIR TERMINALS, CONNECTIONS, FASTENERS, SHALL BE ALUMINUM, UNLESS NOTED OTHERWISE.
8. MAIN CONDUCTORS AND CROSS RUN CONDUCTORS TO BE MINIMUM OF 1/0 AWG ALUMINUM. DOWN CONDUCTORS TO BE MINIMUM OF 2 AWG, COPPER. UPSIZE CONDUCTORS AS REQUIRED TO MEET CODES AND STANDARDS.

LEGEND:

— — — —	MAIN / CROSS RUN CONDUCTOR
●	AIR TERMINAL
■	PARALLEL CABLE CONNECTION
●	BONDING CONNECTION
▬	TEE CONNECTION
CU	COPPER
AL	ALUMINUM

SPECIFIC NOTES:

1. PROVIDE DOWN CONDUCTORS RUN IN RIGID PVC CONDUIT FROM AIR TERMINALS AND MAIN CONDUCTORS ON THE ROOF TO THE PERIMETER GROUNDING SYSTEM. REFER TO DWGS. EGRD–S003–001 FOR CONTINUATION.

REFERENCE DRAWINGS	DESCRIPTION
1–0102–EGRD–A004	LIGHTNING PROTECTION DETAILS

1:75 750 0 1500 3000

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: 1:75	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2016/08/23	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 – LIGHTNING PROTECTION LAYOUT
FERMENTERS/THICKENERS
ROOF PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–EGRD–D003	001	00	A1

PLOT DATE: Mar 24, 2017 – 2:22pm
FILE NAME: 1–0102–EGRD–D003–001.dwg

LAST SAVE: 2017/03/24 – 2:22pm
PATH: C:\Users\persm2\DWG\1–0102–EGRD–D003–001.dwg