A1 SIZE – 594mm x 841mm

GENERAL NOTES:

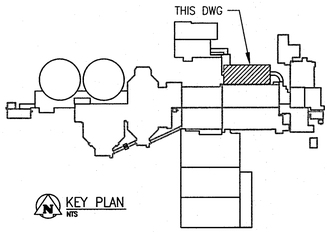
1. REFER TO DRAWING EGRD–A004–001/002 FOR LIGHTNING PROTECTION DETAILS.
2. THE DESIGN INDICATES GENERAL CONCEPTS AND DOES NOT INCLUDE EVERY CONDUCTOR, AIR TERMINAL, CONNECTION, ETC. THE CONTRACTOR SHALL CONFIRM THE INSTALLATION BY THE PERFORMANCE OF DETAILED LIGHTNING PROTECTION SYSTEM ANALYSIS. SUBMIT 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.

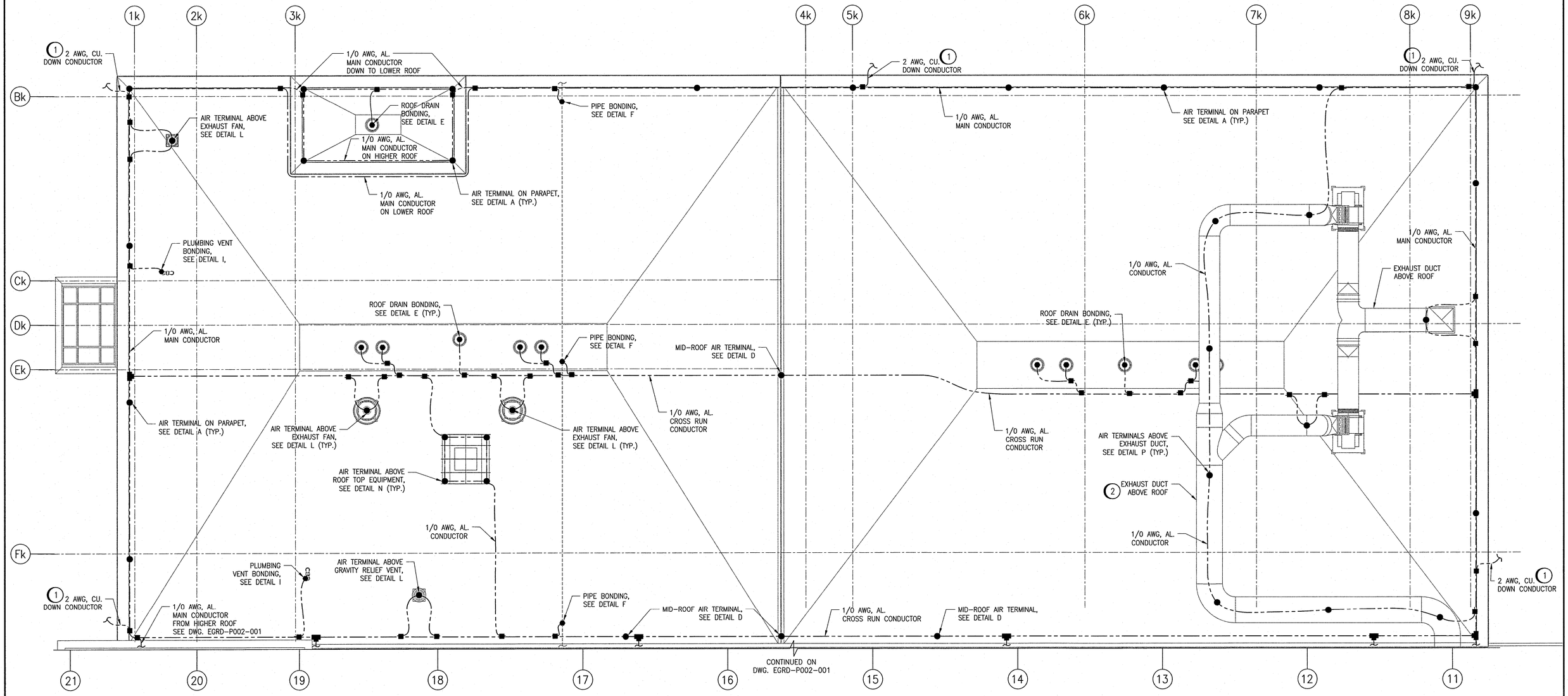
LEGEND:

— — —	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–K002 FOR CONTINUATION.
2. STRUCTURAL SUPPORTS FOR EXHAUST DUCTING ARE NOT SHOWN. CONTRACTOR TO PROVIDE BONDING CONNECTIONS OF STRUCTURAL SUPPORT TO THE LIGHTNING PROTECTION SYSTEM.





ROOF PLAN

1 : 75

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: 2016/08/22	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 – LIGHTING PROTECTION LAYOUT
HIGH RATE CLARIFICATION BUILDING
ROOF PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–EGRD–K004	001	00	A1

LAST SAVE: 2017/03/24 – 9:41am
PATH: C:\DWG\1–0102–EGRD–K004.dwg

PLOT DATE: Mar 24, 2017 – 9:41am
FILE NAME:1–0102–EGRD–K004.dwg