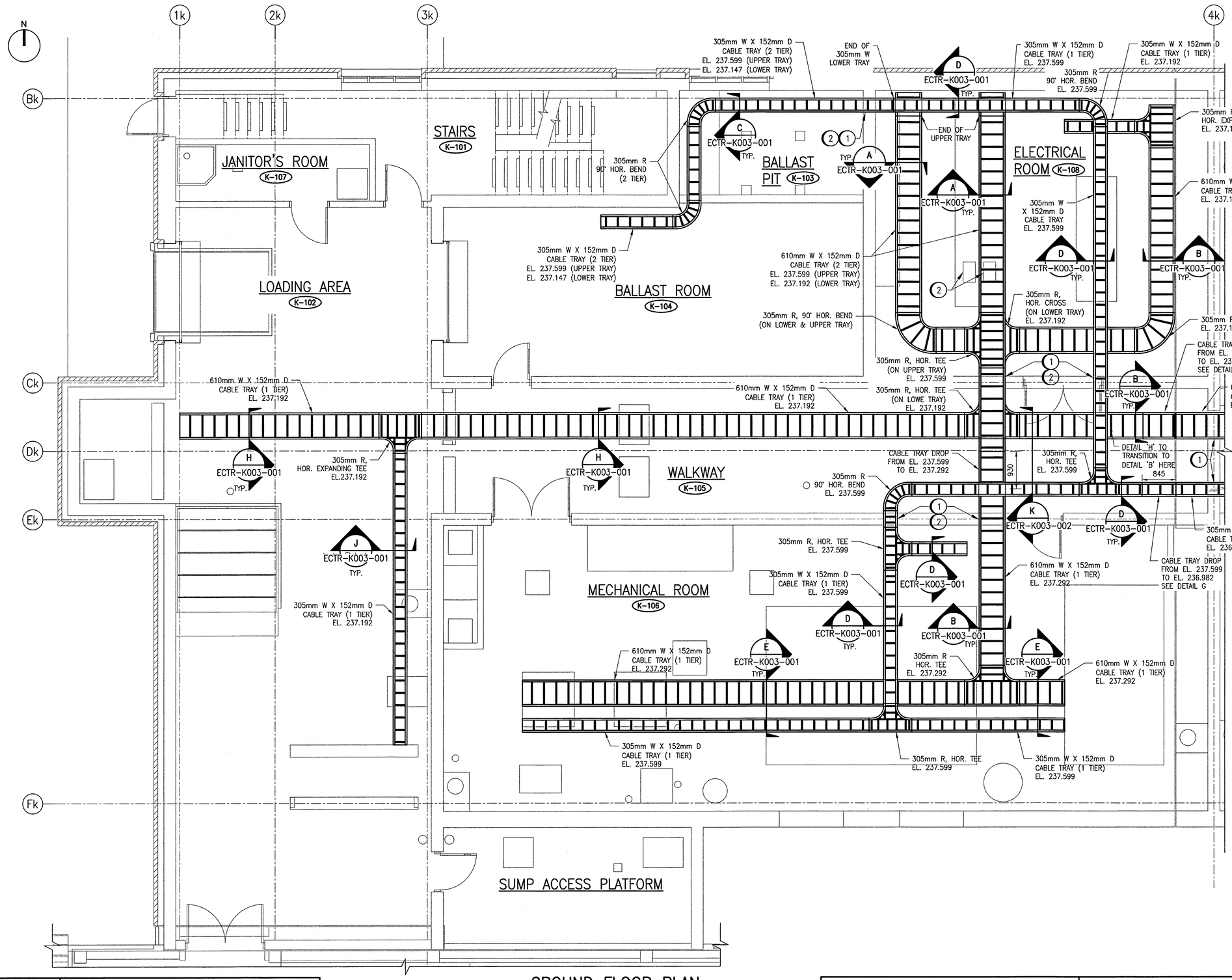
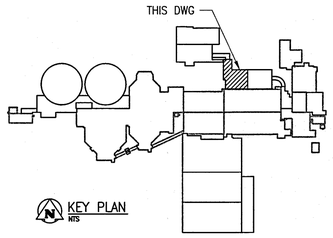
A1 SIZE – 594mm x 841mm



GROUND FLOOR PLAN

1 : 50

1:50 500 0 1000 2000



GENERAL NOTES:

1. INSTALL THE CABLE TRAY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND IN ACCORDANCE WITH NEMA VE2.
2. CABLE TRAY SHALL BE ALUMINUM, HEAVY DUTY, CSA CLASS C1, 229mm RUNG SPACING, 152mm SIDE RAIL. STANDARD COMPONENTS, FACTORY MADE TEES, CROSSES, REDUCERS, EXPANSION JOINTS, COVERS AND ELBOWS. USE ACCESSORIES FROM SAME MANUFACTURER.
3. CABLE TRAY ELEVATIONS (EL. XXX.XXX) WHERE SHOWN ARE TO THE BOTTOM OF THE CABLE TRAY.
4. INSTALL CABLE TRAYS WITHOUT KINKS AND SAGS, COMPLETE WITH SUPPORTS, BRACKETS, AND HARDWARE. PROVIDE A COMPLETE, RIGID AND CONTINUOUS INSTALLATION.
5. NOT ALL REQUIRED TRAY BENDS, FITTINGS, ETC, ARE SHOWN. PROVIDE THESE AS REQUIRED TO SUIT THE EXACT INSTALLATION.
6. SUPPORT TRAYS FROM STRUCTURAL MEMBERS OF THE BUILDING ONLY, SUCH MEMBERS INCLUDE COLUMNS, BEAMS AND MASONRY. INSTALL TRAY SUPPORTS AT SPACING OF NOT MORE THAN 2500mm ON CENTRE FOR HORIZONTAL RUNS AND NOT MORE THAN 1800mm ON CENTRE FOR VERTICAL RUNS.
7. ENSURE THAT BOLTED CONNECTIONS ARE TIGHT, THAT TRAYS ARE FREE OF BURRS, SHARP CORNERS AND OTHER PROJECTIONS, WHICH MIGHT DAMAGE CABLE JACKETS.
8. PROVIDE #2/0 AWG GREEN INSULATED BONDING CONDUCTOR ALONG THE ENTIRE LENGTH OF TRAY, CONNECTED TO ALL MEMBERS WITH BONDING CLAMPS.
9. PROVIDE CABLE TRAY BARRIERS ON ALL CABLE TRAYS EXCEPT ON THE CABLE TRAY RUN FOR THE 600VAC MAIN POWER FEEDER TO MCC–K710 AND MCC–K720.
10. ONLY MAIN CABLE TRAY RUNS ARE SHOWN. THE CONTRACTOR SHALL PROVIDE CABLE CHANNEL WHERE MOTORS AND/OR EQUIPMENT ARE LOCATED AWAY FROM THE MAIN CABLE TRAY.
11. PROVIDE VERTICAL UNISTRUT SUPPORTS ANCHORED TO THE CEILING STRUCTURE AND THE FLOOR FOR CABLES RUN VERTICALLY DOWN FROM THE CABLE TRAY SYSTEM TO THE EQUIPMENT BELOW.
12. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXPANSION JOINTS. PROVIDE EXPANSION COUPLINGS AND FITTINGS FOR ALL CONDUIT FOR ALL CABLE TRAY CROSSING JOINTS.
13. PROVIDE FIRE RATED / SEALED PENETRATIONS ASSEMBLY, IN CONFORMANCE WITH APPLICABLE CODES AND STANDARDS BETWEEN HAZARDOUS AREAS. AND FIRE RATED ASSEMBLIES. REFER TO DWGS. BGAD–K001, K002, K003, K004, K009, K010, K011 AND ALL OTHER APPLICABLE ARCHITECTURAL DRAWINGS FOR FIRE RATED ASSEMBLIES.
14. THE CONTRACTOR SHALL ENSURE SEPARATION OF CONTROLS/INTRUMENTATION CABLES IN ACCORDANCE WITH THE CITY OF WINNIPEG, WASTE AND WATER DEPARTMENT, ELECTRICAL DESIGN GUIDE, TABLE 4.7. THIS INCLUDES BUT NOT LIMITED TO APPROPRIATE SEPARATION OF VFD CABLES FROM CONTROLS/INSTRUMENTATION CABLES.
15. PROVIDE ALL CABLE TRAY, TRAY MEMBERS, ACCESSORIES, AND SUPPORTS FOR A COMPLETE INSTALLATION. PREVIOUSLY ISSUED TRAY DRAWINGS FOR CONSTRUCTION WERE FOR GENERAL INFORMATION TO COORDINATE THE PENETRATIONS FOR CONCRETE WORK.

SPECIFIC NOTES:

1. PROVIDE FIRE RATED ASSEMBLY AND SEAL ALL CABLES PENETRATING THE WALL TO SEPARATE THE AREAS.
2. WALL AND FLOOR OPENINGS PROVIDED UNDER C2 CONTRACT. VERIFY LOCATIONS AND DIMENSIONS ON C2 DRAWINGS AND BASED ON AS–BUILT CONDITIONS. PROVIDE ADDITIONAL OPENINGS AS REQUIRED.

REFERENCE DRAWINGS	DESCRIPTION
1–0102–ECTR–K003	CABLE TRAY DETAILS

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

NO.	REVISIONS	DATE	DESIGN	CHECK
02	ISSUED FOR CONSTRUCTION – 976–2016	2017/04/05	SLJ	DEB
01	ISSUED FOR CONSTRUCTION	10/2015	SLJ	DEB
00	ISSUED FOR TENDER	08/2015	SLJ	DEB

CH2MHILL. SNC·LAVALIN KGS GROUP

DESIGNED BY: S. JUGANAS	CHECKED BY: E. RYCZKOWSKI
DRAWN BY: MJ. PERSSON	APPROVED BY: D. BECKER
SCALE: 1:50	ISSUED FOR CONSTRUCTION BY: J. SHUMKA
DATE: 2015/01/27	DATE: 2017/04/05
CONSULTANT NO.: 474248	

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

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
SEWPCC UPGRADING/EXPANSION PROJECT
ELECTRICAL – CABLE TRAY LAYOUT
HIGH RATE CLARIFICATION BUILDING
GROUND FLOOR PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1–0102–ECTR–K002	001	02	A1

PLOT DATE: Mar 31, 2017 – 9:59am
FILE NAME: 1–0102–ECTR–K002–001.dwg

LAST SAVE: 2017/03/31 – 9:59am
PATH: C:\pw_workdir\ch2mhill_wbg\ve006717\d0356262\1–0102–ECTR–K002–001.dwg