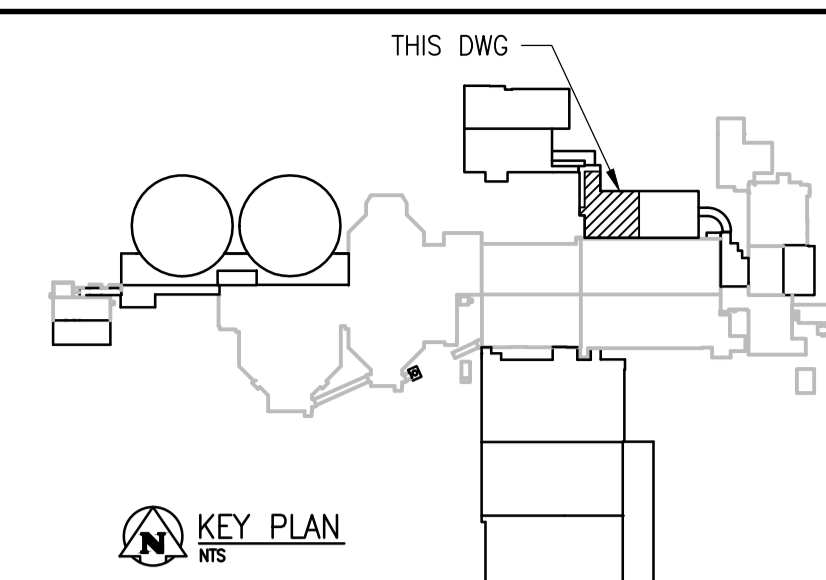
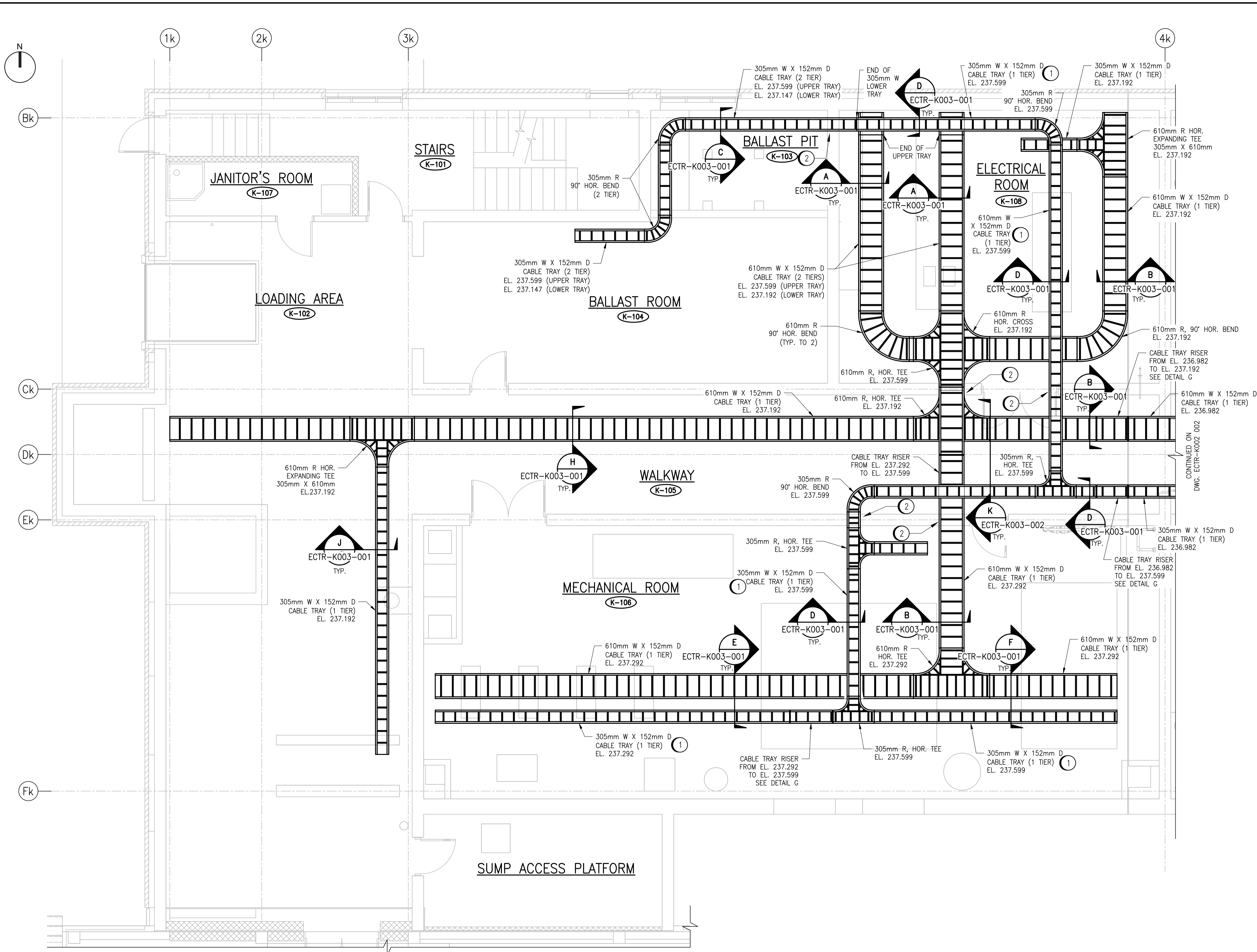


A1 SIZE - 594mm x 841mm

LAST SAVE: 2015/08/12 - 2:00pm  
PATH: C:\pwworkdir\ch2mhill\wg\m\012334\00356262\1-0102-ECTR-K002-001.dwg



**GENERAL NOTES:**

- INSTALL THE CABLE TRAY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION AND IN ACCORDANCE WITH NEMA VE2.
- 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.
- CABLE TRAY ELEVATIONS ARE MEASURED FROM THE BOTTOM OF THE CABLE TRAY.
- INSTALL CABLE TRAYS WITHOUT KINKS AND SAGS, COMPLETE WITH SUPPORTS, BRACKETS, AND HARDWARE. PROVIDE A COMPLETE, RIGID AND CONTINUOUS INSTALLATION.
- NOT ALL REQUIRED TRAY BENDS, FITTINGS, ETC., ARE SHOWN. PROVIDE THESE AS REQUIRED TO SUIT THE EXACT INSTALLATION.
- 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.
- ENSURE THAT BOLTED CONNECTIONS ARE TIGHT, THAT TRAYS ARE FREE OF BURRS, SHARP CORNERS AND OTHER PROJECTIONS, WHICH MIGHT DAMAGE CABLE JACKETS.
- PROVIDE #2/0 AWG GREEN INSULATED BONDING CONDUCTOR ALONG THE ENTIRE LENGTH OF TRAY, CONNECTED TO ALL MEMBERS WITH BONDING CLAMPS.
- 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.
- 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.
- 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.
- REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXPANSION JOINTS. PROVIDE EXPANSION COUPLINGS AND FITTINGS FOR ALL CONDUIT FOR ALL CABLE TRAY CROSSING JOINTS.
- 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.

**SPECIFIC NOTES:**

- SEPARATE CONTROL AND INSTRUMENTATION CABLE TRAY. THE CONTRACTOR SHALL ENSURE SEPARATION OF CONTROLS/INSTRUMENTATION CABLES AND CONDUITS 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.
- PROVIDE FIRE RATED ASSEMBLY AND SEAL ALL CABLES PENETRATING THE WALL TO SEPARATE THE AREAS.

**GROUND FLOOR PLAN**  
1 : 50



00	ISSUED FOR TENDER	08/2015	SLJ	DEB
NO.	REVISIONS	DATE	DESIGN	CHECK

**CH2MHILL.**

**SNC-LAVALIN**

DESIGNED BY: S. JUGANAS  
CHECKED BY: D. BECKER  
DRAWN BY: MJ. PERSSON  
APPROVED BY: D. BECKER  
SCALE: 1:50  
ISSUED FOR CONSTRUCTION BY: DATE:  
DATE: 2015/01/27  
CONSULTANT NO.: 474248

ENGINEER'S SEAL

**PRELIMINARY**  
NOT FOR CONSTRUCTION

**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  
GROUND FLOOR

CITY DRAWING NUMBER: 1-0102-ECTR-K002  
SHEET: 001  
REV: 00  
SIZE: A1

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