ELECTRICAL SPECIFICATIONS

A. **GENERAL CONDITIONS**

- 1. CONFORM WITH LATEST EDITION OF THE ONTARIO BUILDING CODE (OBC), ONTARIO ELECTRICAL SAFETY CODE (OESC), CANADIAN STANDARDS ASSOCIATION (CSA), UNDERWRITERS LABORATORIES OF CANADA (ULC) AND LOCAL BY—LAWS AND AUTHORITIES HAVING JURISDICTION.
- 2. MATERIALS & EQUIPMENT SHALL CARRY APPROVAL AND CONFORM WITH CSA OR ULC STANDARDS. INSTALLATION SHALL COMPLY WITH ALL RULES AND REGULATIONS REGARDING MATERIALS AND WORKMANSHIP CONFORMING TO CSA, OESC, OBC AND LOCAL AUTHORITIES HAVING JURISDICTION.
- 3. VISIT JOB SITE PRIOR TO SUBMITTING TENDER AND EXAMINE ALL EXISTING CONDITIONS WHICH AFFECT THE WORK. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO DO SO.
- 4. SUPPLY AND INSTALL COMPLETE ELECTRICAL SYSTEMS AS SHOWN AND/OR SPECIFIED HEREIN. DRAWINGS SHALL BE USED FOR ROUTING PURPOSES ONLY, DO NOT SCALE DRAWINGS. PROVIDE ALL NECESSARY MATERIAL AND LABOUR ETC. TO PROVIDE COMPLETE SYSTEMS.
- 5. FURNISH ALL REQUIRED LABOUR AND MATERIALS, MACHINERY, AND TOOLS, WITH ALL PROPER AND REQUIRED FACILITIES FOR MOVING AND TRANSPORTING SAME, SO THAT THE CONTRACT AND ALL WORK TO BE DONE UNDER IT, CAN AND WILL BE CARRIED OUT IN A PROFESSIONAL MANNER, PROPERLY, SATISFACTORILY, CONTINUOUSLY, AND EXPEDITIOUSLY, TO COMPLETION, IN ALL RESPECTS, TO THE SATISFACTION OF THE OWNER.
- 6. MOUNTING HEIGHT OF EQUIPMENT IS FROM FINISHED FLOOR TO CENTER LINE OF EQUIPMENT, UNLESS SPECIFIED OR INDICATED OTHERWISE. IF MOUNTING HEIGHT OF EQUIPMENT IS NOT INDICATED, VERIFY BEFORE PROCEEDING WITH INSTALLATION. THE FOLLOWING IS GENERAL MOUNTING HEIGHTS:
- 6.1. GENERAL SWITCHES, DIMMERS, CARD READERS: 1100mm (43")
- 6.2. WALL RECEPTACLES (GENERAL): 450mm (18")
- 6.3. RUNNING MAN SIGN/EMERGENCY COMBO UNIT: 305mm (12") ABOVE DOOR FRAME TO THE UNDERSIDE OF THE DEVICE. WHERE CEILING HEIGHT IS EQUAL OR LESS THAN 2300mm (90"), MOUNT DEVICE AS CLOSE TO THE TOP OF THE CEILING AS POSSIBLE AND NOT DIRECTLY ABOVE ANY DOOR. SIGN ADJACENT TO EGRESS DOOR SHALL BE WALL MOUNTED BESIDE DOOR AND AS CLOSE TO THE TOP OF THE CEILING AS POSSIBLE.
- 6.4. FIRE ALARM VISUAL, AUDIBLE OR COMBINATION OF BOTH DEVICES: 150mm (6") BELOW CEILING TO THE TOP OF THE DEVICE WHERE THE CEILING HEIGHT IS LESS THAN 2450mm (96") A.F.F.. WHERE CEILING HEIGHT IS 2450mm (96") OR GREATER, MOUNT DEVICE AT 2300mm (90.5") A.F.F. TO THE TOP OF THE DEVICE.
- 6.5. FIRE ALARM END OF LINE RESISTORS: 1800mm (70") AND LOCATED BEYOND THE LAST DEVICE IN THE CIRCUIT.
- 7. CO-ORDINATE ON SITE THE LOCATION OF EQUIPMENT, CONTROL DEVICES, SERVICE DISTRIBUTION SYSTEMS, ETC. COORDINATE WORK AND SCHEDULE WITH OTHER TRADES.
- 8. AT ALL TIMES KEEP THE OWNER'S PROPERTY CLEAN AND IN TIDY CONDITION. CLEAN AFFECTED WORK AREA AND REMOVE ALL DEBRIS FROM EQUIPMENT. FOLLOW MANUFACTURERS' INSTALLATION AND STARTUP INSTRUCTIONS.
- 9. PROVIDE WARNING SIGNS AND BARRIERS AS REQUIRED TO MEET INSPECTION DEPARTMENT'S REQUIREMENTS.
- 40. DRAWINGO CHOW CENERAL INTENT OF WORK AND NOT THE RETAIL OF THE INICIAL ATION
- 10. DRAWINGS SHOW GENERAL INTENT OF WORK AND NOT THE DETAILS OF THE INSTALLATION.
- 11. GUARANTEE IN WRITING ALL MATERIAL AND WORKMANSHIP INCLUDING THE MANUFACTURER'S GUARANTEE FOR THE MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE UNLESS NOTED OTHERWISE IN MAIN FRONT END CONTRACT DOCUMENTS.
- 12. NO EXTRA CHARGES SHALL BE HONOURED EXCEPT WHERE THE CONTRACTOR RECEIVES A WRITTEN ORDER COUNTER-SIGNED OR OTHERWISE APPROVED BY THE OWNER.
- 13. AFTER THE APPROVAL OF DRAWINGS, THE RIGHT IS RESERVED TO MAKE REASONABLE CHANGES IN THE DESIGN OF THE WORK OR TO OMIT ANY SUCH PARTS AS THE OWNER MAY REQUIRE. IN THE CASE WHERE WORK OR MATERIAL IS ADDED TO OR DEDUCTED FOR THE WORK HEREIN SPECIFIED, A FAIR AND REASONABLE VALUATION OF THE SAME SHALL BE ADDED TO OR DEDUCTED FROM THE AMOUNT OF THIS CONTRACT.
- 14. THE CONSULTANT RESERVES THE RIGHT TO SELECT THE FINAL PRODUCT AND OR OPTIONS/ACCESSORIES DURING SHOP DRAWING REVIEW AT NO ADDITIONAL COST TO THE OWNER IN THE CASE OF ANY DISCREPANCIES LISTED BETWEEN CATALOGUE NUMBERS, WRITTEN PRODUCT DESCRIPTIONS AND/OR DETAILS SHOWN ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CONSULTANT IN WRITING BEFORE TENDER CLOSES OF ANY DISCREPANCIES THAT MAY BE SHOWN ON THE DRAWINGS REGARDING LISTED PRODUCT SPECIFICATIONS AND CATALOGUE NUMBERS THAT MAY AFFECT PRICING AND GET CLARIFICATION ON THESE ITEMS BEFORE SUBMITTING FINAL TENDER PRICE. FAILURE OF THE ELECTRICAL CONTRACTOR TO REQUEST CLARIFICATIONS ON SUCH ITEMS DURING TENDER MAKES NULL AND VOID ANY FUTURE CLAIMS RELATING TO FINAL PRODUCT SELECTION BY THE CONSULTANT.

B. <u>SUBMITTALS</u>

- 1. BEFORE FABRICATION OF ANY MATERIALS OR EQUIPMENT, SUBMIT ONE (1) COPY OF DETAILED MANUFACTURER'S SHOP DRAWINGS OF EQUIPMENT AND APPARATUS FOR REVIEW. DO NOT ORDER MATERIALS UNTIL CONSULTANT HAS REVIEWED THE SHOP DRAWINGS. IF CORRECTIONS ARE REQUIRED, COPIES WILL BE RETURNED WITH CORRECTIONS NOTED. CORRECTED COPIES SHALL BE RESUBMITTED FOR REVIEW AND DISTRIBUTION. SUBMISSIONS SHALL BE MADE IN AMPLE TIME TO AVOID DELAYS IN THE WORK. THE REVIEW OF THE SHOP DRAWINGS SHALL BE, AND IS MUTUALLY UNDERSTOOD TO BE, IN REFERENCE TO GENERAL DESIGN ONLY. IF ERRORS IN THE DETAILED DIMENSIONS OR INTERFERENCE WITH THE WORKS ARE NOTICED, THE ATTENTION OF THE CONTRACTOR WILL BE CALLED TO SUCH ERRORS OR INTERFERENCE, BUT REVIEW OF THE DRAWINGS SHALL NOT IN ANY WAY RELIEVE THIS CONTRACTOR OF RESPONSIBILITY FOR ERRORS OR INTERFERENCE, OR FROM THE NECESSITY OF FURNISHING SUCH WORKS AND MATERIALS AS MAY BE REQUIRED FOR THE COMPLETION OF THE WORK AT ANY TIME UNTIL FORMAL ACCEPTANCE.
- 2. THE ELECTRICAL CONTRACTOR IS TO REVIEW, DATE AND SIGN ALL ELECTRICAL SHOP DRAWINGS PRIOR TO SUBMITTING TO THE CONSULTANT FOR REVIEW.
- 3. THE ELECTRICAL CONTRACTOR TO PREPARE RECORD DRAWINGS (IN AUTOCAD AND PDF FORMATS) INCLUDING ALL CHANGES AND DEVIATIONS IN COLOUR RED FROM CONSTRUCTION SET AND SUBMIT THEM TO THE CONSULTANT AND THE OWNER UPON THE COMPLETION OF THE PROJECT. AUTOCAD FILES CAN BE SUPPLIED BY THE CONSULTANT UPON REQUEST. THE CONSULTANT CAN PREPARE AS BUILT AUTOCAD DRAWINGS FOR THE ELECTRICAL CONTRACTOR FOR A NOMINAL FEE.
- 4. THE FOLLOWING ITEMS ARE TO BE SUBMITTED TO THE CONSULTANT AND THE OWNER AT THE END OF THE PROJECT IN A HARD COVER, THREE-RING BINDER WITH TABS INDICATING EACH SECTION:
- 4.1. FINAL INSPECTION/VERIFICATION REPORTS FROM THE INSPECTION AUTHORITIES AND TESTING AGENCIES
- 4.2. MANUFACTURER'S SPECIFICATION SHEETS AND PHOTOMETRIC DATA FOR LIGHT FIXTURES
- 4.3. A COPY OF ALL FINAL REVIEWED SHOP DRAWINGS 4.4. AUTOCAD AND PDF RECORD DRAWINGS
- 4.5. OPERATING INSTRUCTIONS FOR EACH SYSTEM INCLUDING CONTROL AND WIRING DIAGRAMS
 4.6. MANUFACTURER RECOMMENCED MAINTENANCE PROCEDURES AND SCHEDULES
- 4.7. LIGHTING VERIFICATION AND COMMISSIONING DOCUMENT FROM THIRD PARTY
- 4.8. WARRANTY LETTER FOR ALL MATERIAL AND WORKMANSHIP
- 4.9. ALL PANELBOARD TYPEWRITTEN DIRECTORIES4.10. USB DRIVE WITH ELECTRONIC COPY OF ITEMS 4.1 TO 4.9

C. PERMITS, TEST, REGULATIONS, ETC.

- 1. CARRY OUT ALL CHANGES AND ALTERATIONS REQUIRED BY THE AUTHORIZED INSPECTOR OF ANY AUTHORITY HAVING JURISDICTION WITHOUT DELAY TO THE PROGRESS OF THE WORK AND WITHOUT EXTRA COST.
- 2. UPON COMPLETION OF THE CONTRACT, ISSUE TO THE OWNER A FORMAL CERTIFICATION OF COMPLETION OF WORK BEFORE FINAL PAYMENT FOR WORK MAY BE CONSIDERED DUE.
- 3. PAYMENTS FOR ALL PERMITS, DEPOSITS, INSPECTION, SERVICES, AND OTHER FEES NECESSARY FOR THE WORK SHALL BE INCLUDED IN THE TENDER.

D. <u>WIRES AND CABLES</u>

- 1. ALL WIRING SHALL BE MINIMUM COPPER NO. 12 AWG WITH 600V INSULATION FOR 120/208V WIRING AND 1000V FOR 600V WIRING OF CHEMICALLY CROSS—LINKED THERMOSETTING POLYETHYLENE (XLPE) MATERIAL SUITABLE FOR 90° OPERATION. CONDUCTORS NO. 10 AWG AND LARGER SHALL BE STRANDED. CONDUCTOR SIZES SHALL BE IN ACCORDANCE WITH THE OESC AND AS INDICATED ON THE DRAWINGS.
- 2. ALUMINUM WIRING IS NOT ACCEPTABLE UNLESS NOTED OTHERWISE.
- 3. NMD90 (PVC JACKETED) WIRING SHALL NOT BE USED AND IS NOT ACCEPTABLE.
- 4. ALL LOW VOLTAGE 6-24VDC EMERGENCY LIGHTING WIRING SHALL BE MINIMUM COPPER NO.10 AWG.
- 5. AC90 CABLE MAY ONLY BE USED FOR SHORT RUNS WITH MAXIMUM DISTANCE OF 3660mm (12ft) TO LIGHT FIXTURES AND RECEPTACLES IN CONCEALED AREAS ONLY UNLESS NOTED OTHERWISE ON DRAWINGS. AC90 CABLE (INCLUDING FIRE ALARM) IS NOT TO BE USED IN OPEN CEILING AREAS, ELEVATOR SHAFT AND STAIRWELL.
- 6. WHERE CONDUCTOR SIZES ARE NOT INDICATED THEY SHALL BE SIZED TO ENSURE THE VOLTAGE DROP DOES NOT EXCEED 2% FOR BRANCH CIRCUIT AND 3% FOR MAIN FEEDER AND THE REQUIREMENTS OF THE OESC.
- 7. ALL WIRING TO BE INSTALLED IN CONDUIT OR RACEWAY AND SHALL BE EQUIPPED WITH A GREEN INSULATED BOND CONDUCTOR SIZED TO MEET THE REQUIREMENTS OF THE OESC.

E. <u>CONDUIT</u>

- 1. EMT AND RIGID GALVANIZED STEEL (RGS) CONDUIT TO BE CONCEALED IN FINISHED AREAS OF THE BUILDING.
- 2. RIGID PVC CONDUIT TO BE USED ONLY FOR DIRECT BURIED INSTALLATIONS.
- 3. DB2 CONDUIT TO BE USED ONLY FOR CONCRETE ENCASED INSTALLATIONS.
- 4. FLEXIBLE METALLIC CONDUIT MAY BE USED FOR SHORT CONNECTIONS TO VIBRATING MECHANICAL EQUIPMENT.
- 5. MINIMUM CONDUIT SIZE SHALL BE 21mm (3/4") UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- 6. WHERE SLEEVES OR OPENINGS ARE INSTALLED IN WALLS, FLOORS, ROOF OR PARTITIONS TO ACCOMMODATE RACEWAYS OR CABLES, PROVIDE ALL NECESSARY SEALS, FITTINGS, BARRIERS AND FIRE—RESISTANT MATERIALS TO RESTORE THE INSTALLATION TO ITS ORIGINAL FIRE RATING TO THE SATISFACTION OF THE GOVERNING AUTHORITIES.
- 7. WHERE CONDUIT MUST BE SURFACE MOUNTED TO EXPOSED CEILING/WALL SURFACES, PROVIDE EMT CONDUIT PAINTED TO MATCH CEILING/WALL SURFACES UNLESS NOTED OTHERWISE.
- 8. ALL LOW VOLTAGE WIRING IS TO BE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE ON DRAWINGS

F. OUTLETS AND JUNCTION BOXES

- 1. PROVIDE STICK ON LABELS (BLACK LETTERING ON WHITE BACKGROUND) INDICATING THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES AND CONTROL DEVICES. LABELS SHALL BE NEATLY PLUMB AND LEVEL ON THE COVER PLATE. POORLY POSITIONED LABELS WILL NOT BE ACCEPTED.
- 2. THE OWNER/CONSULTANT RESERVES THE RIGHT TO CHANGE LOCATIONS OF OUTLETS TO WITHIN 3660mm (12ft) OF LOCATION INDICATED ON THE DRAWINGS WITHOUT EXTRA CHARGE, PROVIDING CONTRACTOR IS ADVISED PRIOR TO INSTALLATION.
- 3. ALL PULL/JUNCTION BOXES MUST BE ACCESSIBLE AFTER THE BUILDING IS COMPLETE. INSTALL PULL ROPE IN ALL EMPTY CONDUITS.
- 4. ALL JUNCTION BOXES AND CONDUIT SUPPORT SYSTEM SHALL BE SECURED TIGHT TO THE UNDERSIDE OF THE BUILDING STRUCTURE. SUSPENDED JUNCTION BOXES AND CONDUITS WILL NOT BE ACCEPTED.
- 5. ALL DEVICE BOXES TO BE RECESSED WHEREVER POSSIBLE. ALL JUNCTION BOXES SHALL BE SIZED TO ACCOMMODATE THE NUMBER OF RACEWAYS AND CONDUCTORS AND BE ACCESSIBLE AFTER INSTALLATION. BOXES FOR CONTROL DEVICES(I.E. CONTROL RELAYS AND CONTACTS FOR LIGHTING, FIRE ALARM, AND OTHER SYSTEMS) IN FINISHED COMMON AREAS AND CORRIDORS SHALL BE INSTALLED ABOVE ACCESSIBLE DROP CEILING, 6" BELOW NON-ACCESSIBLE CEILING OR ACCESSIBLE BY CEILING ACCESS PANELS.
- 6. ALL LOW VOLTAGE LIGHTING ROOM CONTROLLERS, POWER PACKS, CONTROL RELAYS ETC ARE TO BE LOCATED IN ACCESSIBLE CEILING SPACE. IF REQUIRED TO BE MOUNTED EXPOSED AND VISIBLE, INSTALL THESE DEVICES IN SUITABLE SIZED STEEL SCREW COVERED ENCLOSURE TYPE 1, PAINTED TO MATCH THE CEILING OR WALL COLOR. IF WALL MOUNTING IS REQUIRED, MOUNT CONTROL DEVICE IN THE STEEL ENCLOSURE AT 6" BELOW THE CEILING TO THE TOP OF THE ENCLOSURE.
- 7. WHERE BOXES MUST BE SURFACE MOUNTED TO EXPOSED CEILING/WALL SURFACES, PROVIDE SURFACE MOUNTED DIE—CAST ALUMINUM BOXES PAINTED TO MATCH CEILING/WALL SURFACES UNLESS NOTED OTHERWISE.

G. <u>WIRING DEVICES</u>

- 1. SWITCHES, RECEPTACLES AND OUTLETS TO BE DECORA STYLE, <u>WHITE COLOR</u> WITH <u>STAINLESS STEEL</u> COVER PLATES IN ALL LOCATIONS.
- DUPLEX RECEPTACLES
 15 OR 20 AMP, 120 VOLT SPECIFICATION GRADE COMPLETE WITH BACK BOX
- 3. TOGGLE SWITCHES TO BE 15 OR 20 AMP, 120 OR 347 VOLT AS REQUIRED COMPLETE WITH BACK BOX.
- 4. LOW VOLTAGE SWITCHES, SENSORS OR DEVICES TO BE INSTALLED COMPLETE WITH DEVICE BACK BOX. ALL BOXES FOR CEILING MOUNTED DEVICES TO BE OCTAGON TYPE.
- 5. MAINTAIN A MINIMUM OF 150mm HORIZONTAL CLEARANCE BETWEEN BOXES INSTALLED BACK-TO-BACK IN WALL.

H. <u>GROUNDING</u>

- 1. GROUND THE SERVICE AND ALL NON-CURRENT CARRYING METAL PARTS IN ACCORDANCE WITH OESC.
- 2. PROVIDE COMPLETE GROUNDING AND BONDING SYSTEM AS REQUIRED BY OESC.
- 3. PROVIDE GROUND CONNECTION TO TELEPHONE PANEL, WATER MAIN AND ALL METALLIC PIPING.

I. FIRE STOPPING

- 1. SEALS FOR CABLES AND CONDUIT:
- PROVIDE FIRE RATED SEALS FOR CONDUITS AND WIRING AT ALL FIRE RATED WALL/FLOOR PENETRATIONS.
 APPLY FIRE SEALANT 3M CP 25WB+ , 4 HR FIRE BARRIER, L RATED, STC 54 TO SEAL ALL PENETRATIONS THROUGH ANY FIRE RATED ASSEMBLIES. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS FOR ALL FIRE RATED ASSEMBLIES.

J. FIRE ALARM SYSTEM RENOVATIONS

- 1. THE ELECTRICAL CONTRACTOR SHALL HIRE A FIRE ALARM SYSTEM COMPANY TO TEST AND VERIFY ANY NEW OR RELOCATED FIRE ALARM DEVICES AND PROVIDE WRITTEN VERIFICATION REPORT INDICATING THE DEVICES HAVE BEEN TESTED AND VERIFIED TO THE LATEST APPLICABLE CODES AND STANDARDS.
- 2. THE ELECTRICAL CONTRACTOR SHALL CARRY ALL COSTS ASSOCIATED WITH TESTING AND VERIFICATION AS REQUIRED BY THE FIRE ALARM WORK INDICATED ON THE ELECTRICAL DRAWINGS.

K. <u>FIELD QUALITY CONTROL</u>

- 1. TEST ALL WORK. REMEDY AND MAKE GOOD ANY DEFECTS DISCLOSED BY SUCH TESTS AND TEST THE WORK AGAIN. TEST IN ACCORDANCE WITH APPROVED PROCEDURE.
- 2. TEST EACH POWER AND CONTROL CONDUCTOR FOR CONTINUITY AND GROUNDS. IMMEDIATELY FOLLOWING THIS TEST, CONNECT CONDUCTOR TO ITS PERMANENT TERMINAL.
- 3. INSPECT ALL CONNECTIONS, PROTECTIVE AND SAFETY DEVICES PRIOR TO ENERGIZING ANY EQUIPMENT AND MAKE NECESSARY ADJUSTMENTS, WHERE REQUIRED, TO ASSURE A PROPER AND SAFE OPERATION.
- 4. ALL EQUIPMENT SHALL BE WIPED CLEAN AND VACUUMED

_. <u>EXECUTION</u>

RACEWAYS:

- 1. INSTALL CONDUIT AS A COMPLETE SYSTEM WITHOUT WIRES. CONTINUE CONDUIT FROM FITTING TO FITTING AND FASTEN SECURELY TO PLACE. CLEAN AND SEAL CONDUIT SYSTEM UNTIL WIRING IS INSTALLED.
- 2. INSTALL CONDUIT PARALLEL OR AT RIGHT ANGLES TO PROPERTY LINES, CURBS, ETC., WHERE PRACTICAL.
- 3. CUT ALL CONDUITS SQUARE AND REAM TO REMOVE SHARP EDGES AND BURRS. FIT CONDUITS CLOSELY AND TIGHTLY IN COUPLINGS.
- 4. INSTALL A PULL WIRE IN EACH EMPTY CONDUIT PROVIDED FOR FUTURE USE BY OTHERS.
- 5. CAP ALL CONDUITS WITH METAL, CARDBOARD OR PLASTIC, DURING CONSTRUCTION.

WIRES AND CABLES:

- 1. DO NOT PULL THE WIRES BEFORE THE ENTIRE CONDUIT SYSTEM IS COMPLETED AND CLEANED.
- 2. ENSURE THAT WIRES INSTALLED IN THE INTERIOR OF EQUIPMENT ARE NEATLY LACED WITH PLASTIC TIES AND GRASPED AND SECURED IN PLACE.
- 3. RUN POWER CONDUCTORS FULL LENGTH WITHOUT SPLICES OR TAPS FROM ORIGIN TO DESTINATION, UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS. NO CABLE SPLICING ALLOWED IN UNDERGROUND INSTALLATION.
- 4. IDENTIFY EACH CABLE AND WIRE AT BOTH ENDS WITH PROPER CABLE AND WIRE NUMBER AS SHOWN ON THE DRAWINGS AND CABLE SCHEDULES IN ALL CONTROL PANELS, CONTROL DEVICES, DISTRIBUTION PANELS, PULL AND JUNCTION BOXES, ETC., USING APPROVED CABLE AND WIRE MARKERS.
- 5. FOLLOW NORMAL RECOMMENDED PRACTICES WHEN INSTALLING CABLES IN CABLE TRAYS TO AVOID DAMAGE TO CABLE SHEATHS, CONDUCTORS OR INSULATION. ENSURE THAT CABLES ARE NOT DAMAGED BY EXCESSIVE TENSION WHEN PULLING. REPLACE ANY DAMAGED AND REJECTED CABLE WITHOUT COST TO THE OWNER.
- 6. USE SUITABLE NON—HARDENING CABLE LUBRICANTS, WHERE REQUIRED, WHICH DO NOT CONTAIN ANY MATERIALS SUCH AS OIL, GREASE OR OTHER COMPOUNDS HARMFUL TO RUBBER, PVC OR POLYETHYLENE.

7. MAKE SPLICES AND TAPS FOR CONTROL CONDUCTORS AT APPROVED TERMINAL BLOCKS IN JUNCTION BOXES.

	GENERAL LIGHTING
SYMBOL	DESCRIPTION
LX	2'X4' (610mmX1220mm) LIGHT FIXTURE. 'X' DENOTES TYPE
LX	2'X2' (610mmX610mm) LIGHT FIXTURE. 'X' DENOTES TYPE
LX	1'X4' (305mmX1220mm) LIGHT FIXTURE. 'X' DENOTES TYPE
LX	CEILING MOUNTED LINEAR LIGHT FIXTURE. 'X' DENOTES TYPE
LX	CEILING MOUNTED STRIP LIGHT FIXTURE. 'X' DENOTES TYPE
(X)	ROUND DOWN LIGHT FIXTURE. 'X' DENOTES TYPE

CONTROL DEVICE	
SYMBOL	DESCRIPTION
\$ _X	120V OR 347V SINGLE GANG, SINGLE POLE SWITCH, UNLESS NOTED WITH CONTROL DEVICE TYPE DESIGNATION LETTER. 'X' DENOTES CONTROL DEVICE TYPE
(X)	CEILING MOUNTED VACANCY/OCCUPANCY SENSOR. 'X' DENOTES CONTROL DEVICE TYPE
∞	WALL MOUNTED VACANCY/OCCUPANCY SENSOR. 'X' DENOTES CONTROL DEVICE TYPE
\bigcirc	LINE VOLTAGE THERMOSTAT

	ELECTRICAL DRAWING LIST
E0.01	SPECIFICATIONS, LEGENDS AND DRAWING LIST
E0.02	LEGENDS, ABBREVIATIONS, LINE TYPES, PARTIAL SINGLE LINE DIAGRAM DEMOLITION
E1.01	6TH FLOOR POWER AND SYSTEMS DEMOLITION PLAN
E1.02	6TH FLOOR LIGHTING AND LIFE SAFETY DEMOLITION PLAN
E1.03	6TH FLOOR NEW LIGHTING AND LIFE SAFETY PLAN

DISCLAIMER:

DRAWING SHALL NOT BE USED FOR TENDER AND CONSTRUCTION PURPOSES. ANY PARTY USING THIS DRAWING FOR SUCH ACTIVITIES WITHOUT THE EXPLICIT AUTHORIZATION OF CK ENGINEERING SHALL BEAR ALL RESPONSIBILITIES AND



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to. Issues/Revisions

Date

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Drawings are not to be scaled.

Contractor must verify all dimensions on the job and report any discrepancy to architects before proceeding with the work.

All drawings and specifications are the property of the architect and must be returned at the completion of the work.

This drawing is not to be used for construction until countersigned.

Date:

25 Main Street West Hamilton, Ontario



STELCO TOWER 6TH FLOOR INTERIOR DEMOLITION

100 KING ST. WEST HAMILTON, ON L8P 4S6

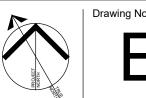
Drawing Title:

SPECIFICATIONS, LEGENDS, AND DRAWING LIST

 Issue Date:
 2025-06-18

 Drawn by:
 RA/KC
 Checked by:
 JS

 Project No.:
 25027
 Scale:
 AS NOTED



E0.01

	POWER AND SYSTEMS
SYMBOL	DESCRIPTION
Ф	120VAC, 15 AMP DUPLEX RECEPTACLE
Ф	120VAC, 15 AMP DUPLEX GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE
ш	120VAC, 15 AMP DUPLEX RECEPTACLE LOCATED ON FLOOR
dib	120VAC, 15 AMP DUPLEX GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE LOCATED ON FLOOR
#	120VAC, 15 AMP QUAD RECEPTACLE
+	120VAC, 15 AMP QUAD GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE
#	120VAC, 15 AMP QUAD RECEPTACLE LOCATED ON FLOOR
#	120VAC, 15 AMP QUAD GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE LOCATED ON FLOOR
#	120VAC, 20 AMP T-SLOT DUPLEX RECEPTACLE
₩	120VAC, 20 AMP T-SLOT DUPLEX GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE
曲	120VAC, 20 AMP T-SLOT DUPLEX RECEPTACLE LOCATED ON FLOOR
di l	120VAC, 20 AMP T-SLOT DUPLEX GROUND FAULT CIRCUIT INTERRUPT RECEPTACLE LOCATED ON FLOOR
♦ L6−20R	CSA NON-LOCKING OR LOCKING RECEPTACLE. 'L6-20R' DENOTES AMPERAGE, VOLTAGE AND RECEPTACLE CONFIGURATION. REFER TO DRAWINGS FOR EXACT QUANTITIES AND CONFIGURATIONS
\times	HARD WIRED POWER CONNECTION RATED PER EQUIPMENT SPECIFICATION
	SURFACE MOUNTED ELECTRICAL PANEL BOARD
\(\)	FAN OR MOTOR
마	NON-FUSED DISCONNECT SWITCH
\textstyle	FUSED DISCONNECT SWITCH
TX-Y	TRANSFORMER. 'Y' DENOTES TRANSFORMER TAG
FBX	FLOOR BOX. 'X' DENOTES TYPE
JB	JUNCTION BOX
РВ	PULL BOX
X	ELECTRICAL POWER OR SYSTEMS DEVICE OR BOX. 'X' DENOTES TYPE
	HDMI OUTLET
XD	DATA OUTLET. 'X' DENOTES NUMBER OF DATA OUTLET(S)
XV ▼	TELEPHONE OUTLET. 'X' DENOTES NUMBER OF TELEPHONE CABLE(S)
VX,XV	DATA/TELEPHONE OUTLET. 'XD' DENOTES NUMBER OF DATA CABLE(S). 'XV' DENOTES NUMBER OF TELEPHONE CABLE(S)
XD	FLOOR RECESSED DATA OUTLET. 'X' DENOTES NUMBER OF DATA CABLE(S)
XV ▼	FLOOR RECESSED TELEPHONE OUTLET. 'X' DENOTES NUMBER OF TELEPHONE CABLE(S)
XD,XV	FLOOR RECESSED DATA/TELEPHONE OUTLET. 'XD' DENOTES NUMBER OF DATA CABLE(S). 'XV' DENOTES NUMBER OF TELEPHONE CABLE(S)
WA	WIRELESS ACCESS POINT
	FIRE RATED PLYWOOD BACKBOARD FOR EQUIPMENT
CSX	COMMUNICATION BOX. 'X' DENOTES TYPE

	EMERGENCY LIGHTING	
SYMBOL	DESCRIPTION	
EMX	EMERGENCY CEILING MOUNTED RUNNING MAN OR EXIT SIGN. ARROW DENOTES DIRECTION OF EXIT. HATCHED AREA DENOTES ILLUMINATED FACE(ES). 'X' DENOTES TYPE	
EMX YUX.C	EMERGENCY WALL MOUNTED RUNNING MAN OR EXIT SIGN. ARROW DENOTES DIRECTION OF EXIT. HATCHED AREA DENOTES ILLUMINATED FACE(ES). 'X' DENOTES TYPE	
YUX.C	'Y' INDICATES BATTERY OR COMBO UNIT. 'X' INDICATES TYPE OF BATTERY OR COMBO UNIT. '.C' INDICATES DEDICATED BRANCH WIRING CIRCUIT FROM BATTERY OR COMBO UNIT. WIRE TO BE SIZED TO ENSURE NO MORE THAN 5% VOLTAGE DROP PER BRANCH	

SECURITY SYSTEMS	
SYMBOL	DESCRIPTION
	CEILING MOUNTED CAMERA. 'X' DENOTES FLOOR, 'YY' DENOTES CAMERA NUMBER
DSC-X	SECURITY DOOR CONTROLLER. 'X' DENOTES TAG NUMBER
ES	ELECTRIC STRIKE
CR	CARD READER
MS-V-	CEILING MOUNTED SECURITY MOTION SENSOR
MS-^-	WALL MOUNTED SECURITY MOTION SENSOR
SX	SECURITY DEVICE. 'X' DENOTES TYPE

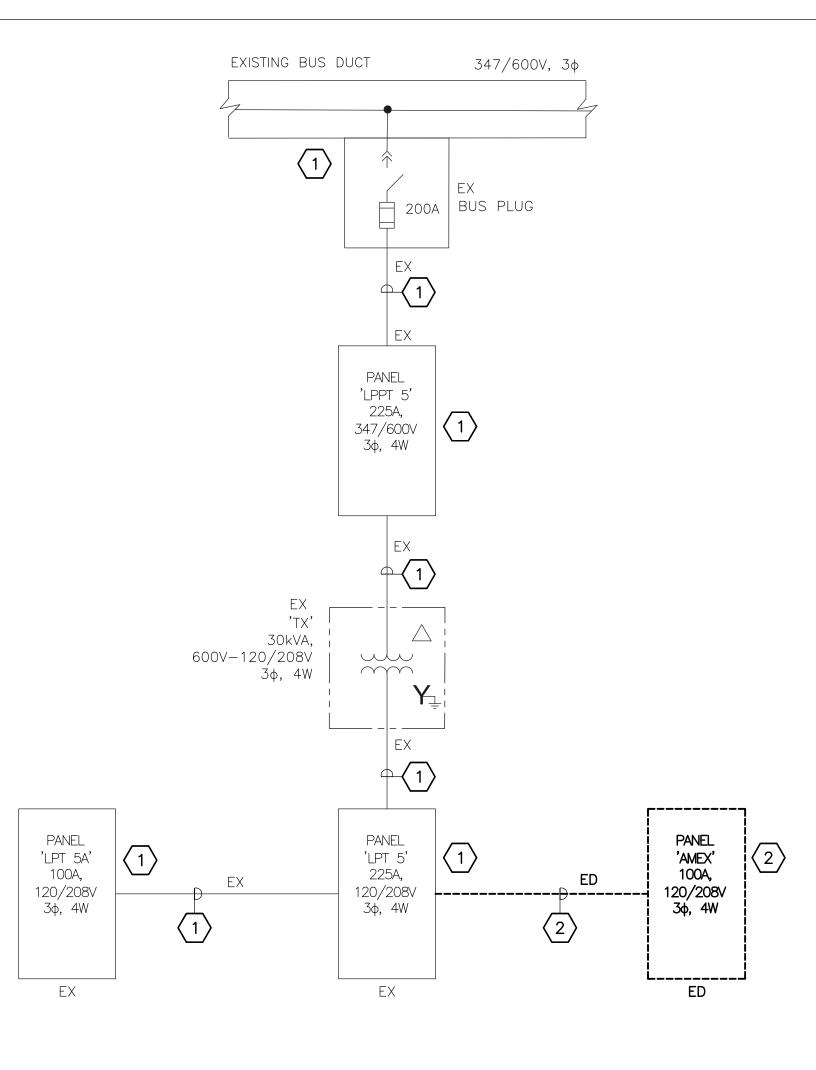
	FIRE ALARM AND CARBON MONOXIDE SYSTEMS
SYMBOL	DESCRIPTION
•	FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR.
F	FIRE ALARM PULL STATION.
Ŕ	CEILING MOUNTED FIRE ALARM STROBE.
F	RECESSED CEILING MOUNTED FIRE ALARM SPEAKER
(CEILING MOUNTED FIRE ALARM SPEAKER STROBE COMBO.
F	WALL MOUNTED FIRE ALARM SPEAKER.
EOL	END OF LINE RESISTOR
FP	FIRE ALARM TELEPHONE LINE
SV	SUPERVISORY VALVE
FS	FLOW SWITCH
MON	ADDRESSABLE MONITORING DEVICE

ABBREVIATIONS

AFC DENOTES ABOVE FINISHED ACCESSIBLE CEILING

	DENOTES ABOVE PROJECT ACCESSIBLE CEIEING
AFF	DENOTES ABOVE FINISHED FLOOR
СН	DENOTES COUNTER HEIGHT
c/w	DENOTES COMPLETE WITH
DS	DENOTES DISCONNECT SWITCH
ED	DENOTES EXISTING DEVICE TO BE DEMOLISHED INCLUDING WIRING/CONDUIT(S) STRIPPED BACK TO SOURCE
ER	DENOTES EXISTING DEVICE TO BE RELOCATED
EX	DENOTES EXISTING DEVICE TO REMAIN
GFCI	DENOTES GROUND FAULT CIRCUIT INTERRUPTER
HL	DENOTES DEVICE MOUNTED AT HIGH LEVEL NEAR CEILING
NTS	DENOTES NOT TO SCALE
REL	DENOTES EXISTING DEVICE AT RELOCATED LOCATION
TR	DENOTES TAMPER RESISTANT
TX	DENOTES TRANSFORMER
TYP	DENOTES TYPICAL

LINE TYPES			
LINE TYPE	DESCRIPTION		
	DENOTES LINE VOLTAGE WIRE		
	DENOTES 0-10V DIMMING WIRE		
	DENOTES LOW VOLTAGE WIRE		
	DENOTES DEVICE TO BE DEMOLISHED OR RELOCATED		
	DENOTES NEW OR RELOCATED DEVICE		
	DENOTES EXISTING DEVICE TO REMAIN		



PARTIAL SINGLE LINE DIAGRAM DEMOLITION SCALE: NTS

DEMOLITION KEYNOTES:

- 1 EXISTING BUS DUCT, BUS PLUG, PANEL, DRY TYPE TRANSFORMER, WIRING AND CONDUIT TO REMAIN.
- 2 PANEL, WIRING, AND CONDUITS TO BE REMOVED. VERIFY ACTUAL WIRING AND CONDUIT SIZES AT SITE.

GENERAL DEMOLITION NOTES:

- 1. THE ELECTRICAL CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFYING ALL ELECTRICAL ITEMS ON SITE PRIOR TO COMMENCING WORK. IF THERE ARE ERRORS OR OMISSIONS ON THE DRAWINGS, THE CONTRACTOR WILL MODIFY THE DRAWINGS AND NOTIFY THE CONSULTANT OF ANY MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS.
- 2. THE ELECTRICAL CONTRACTOR IS FULLY RESPONSIBLE FOR REMOVING/RELOCATING ALL ELECTRICAL DEVICES/CABLES/CONDUITS ETC. IN AREAS BEING DEMOLISHED AS SHOWN ON ARCHITECTURAL AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS TO VISIT THE SITE PRIOR TO SUBMITTING TENDER PRICE TO REVIEW WHAT IS REQUIRED WITH RESPECT TO DEMOLITION. NO EXTRAS WILL BE ALLOWED FOR NOT THOROUGHLY REVIEWING THE EXISTING SITE.
- 3. ELECTRICAL CONTRACTOR TO RE—ARRANGE AND RE—SUPPORT ALL EXISTING BOXES, CONDUITS AND WIRING ABOVE EXISTING CEILING TILES. USE NEW BOX, CONDUITS AND WIRING AS REQUIRED TO MAKE SAFE AND CLEAN INSTALLATION TO MEET CURRENT CODE AND ESA REQUIREMENTS.
- 4. UNUSED CONDUITS AND WIRING IN EXISTING CEILING SPACE TO BE REMOVED. PROVIDE THE REQUIRED TESTS TO ENSURE SAFE REMOVAL AS REQUIRED.
- 5. FOR EXISTING PULL BOXES AND JUNCTION BOXES WITH NO COVER PLATES ABOVE EXISTING CEILINGS, THE ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEW COVERS TO MAKE SAFE AS REQUIRED.
- 6. FOR INDICATED DEVICES SHOWN TO BE DEMOLISHED, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL WIRING AND CONDUITS BACK TO SOURCE AND REWORK OR PROVIDE NEW WIRING/CONDUIT TO DEVICES THAT MAY BE FED ON THE SAME CIRCUIT AS THE DEVICE TO BE DEMOLISHED.
- 7. FOR INDICATED DEVICES SHOWN TO BE RELOCATED, ELECTRICAL CONTRACTOR TO REWORK OR PROVIDE NEW WIRING/CONDUIT TO REINSTALL EXISTING DEVICES AS SHOWN IN NEW PLAN.
- 8. ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE OWNER ALL DEVICES TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION. ALL ELECTRICAL DEVICES TO BE DEMOLISHED ARE TO BE HAND OVER TO THE OWNER.

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STELCO TOWER 6TH FLOOR INTERIOR DEMOLITION

100 KING ST. WEST HAMILTON, ON L8P 4S6

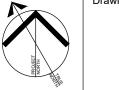
Drawing Title:

LEGENDS, ABBREVIATIONS, LINE TYPES AND PARTIAL SINGLE LINE DIAGRAM DEMOLITION

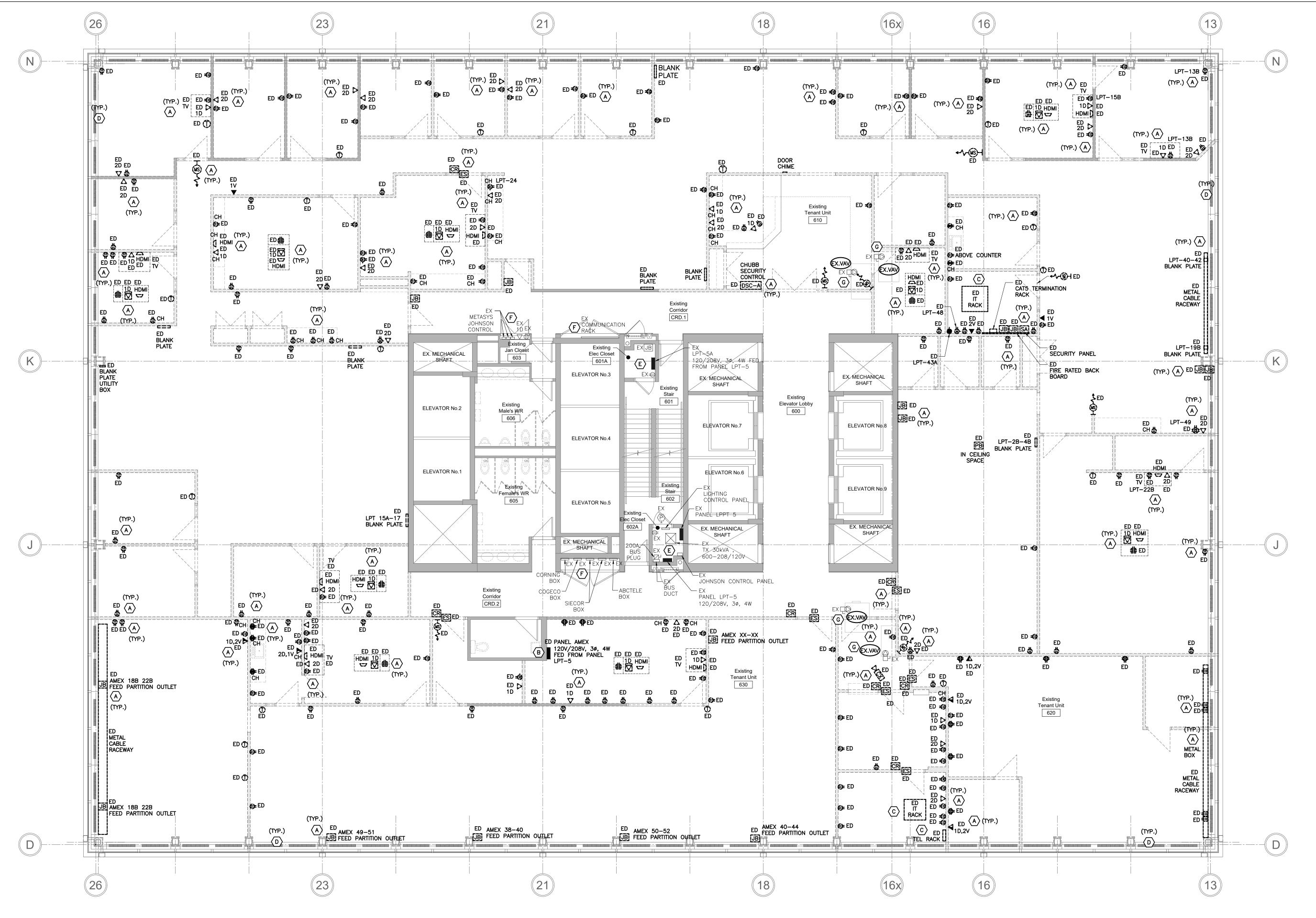
Issue Date: 2025-06-18

Drawn by: RA/KC Checked by: JS

Project No.: 25027 Scale: AS NOTED



E0.02



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- 3. ELECTRICAL CONTRACTOR TO RE-ARRANGE AND RE-SUPPORT ALL EXISTING BOXES, CONDUITS AND WIRING ABOVE EXISTING CEILING TILES. USE NEW BOX, CONDUITS AND WIRING AS REQUIRED TO MAKE SAFE AND CLEAN INSTALLATION TO MEET CURRENT CODE AND ESA REQUIREMENTS.
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REQUIRED TESTS TO ENSURE SAFE REMOVAL AS REQUIRED.

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- 7. FOR INDICATED DEVICES SHOWN TO BE RELOCATED, ELECTRICAL CONTRACTOR TO REWORK OR PROVIDE NEW WIRING/CONDUIT TO REINSTALL EXISTING DEVICES AS SHOWN IN NEW DIAM.
- 8. ELECTRICAL CONTRACTOR SHALL COORDINATE AND VERIFY WITH THE OWNER ALL DEVICES TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION. ALL ELECTRICAL DEVICES TO BE DEMOLISHED ARE TO BE HAND OVER TO THE OWNER.

DEMOLITION KEYNOTES:

- REMOVE ALL EXISTING DATA/TEL CABLES, SECURITY CABLES AND RECEPTACLE OUTLET CIRCUITS AND OTHER ASSOCIATED BRANCH AND CONDUIT BACK TO THE SOURCE. VERIFY TO FIELD THE ACTUAL QUANTITY OF CABLES.
- B DISCONNECT AND REMOVED EXISTING PANEL, WIRING AND CONDUITS BACK TO THE SOURCE.
- © REMOVE EXISTING IT RACK AND ITS ASSOCIATED WIRING AND CONDUITS BACK TO THE EXISTING COMMUNICATION CLOSET.
- EXISTING PERIMETER HEATER TO REMAIN. COORDINATE WITH THE MECHANICAL CONTRACTOR AND VERIFY TO SITE THE ACTUAL LOCATIONS AND CIRCUITING OF PERIMETER HEATERS.
- EXISTING ELECTRICAL PANELS, TRANSFORMER AND OTHER CONTROLS TO REMAIN LOCATED IN THE EXISTING ELECTRICAL ROOM.
- EXISTING MAIN COMMUNICATION PROVIDER BOX AND COMM/TEL RACKS TO REMAIN, LOCATED IN THE EXISTING ELECTRICAL CLOSET IN THE MAIN CORRIDOR.
- EXISTING MAIN FEEDER INCLUDING DISCONNECT SWITCH AND CONDUITS OF MECHANICAL VAV BOX TO REMAIN. COORDINATE WITH MECHANICAL CONTRACTOR FOR THE EXACT LOCATION AND VERIFY CIRCUITING OF THE EXISTING MECHANICAL VAV

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STELCO TOWER 6TH FLOOR INTERIOR DEMOLITION

100 KING ST. WEST HAMILTON, ON L8P 4S6

Drawing Title:

6TH FLOOR POWER AND SYSTEMS DEMOLITION PLAN

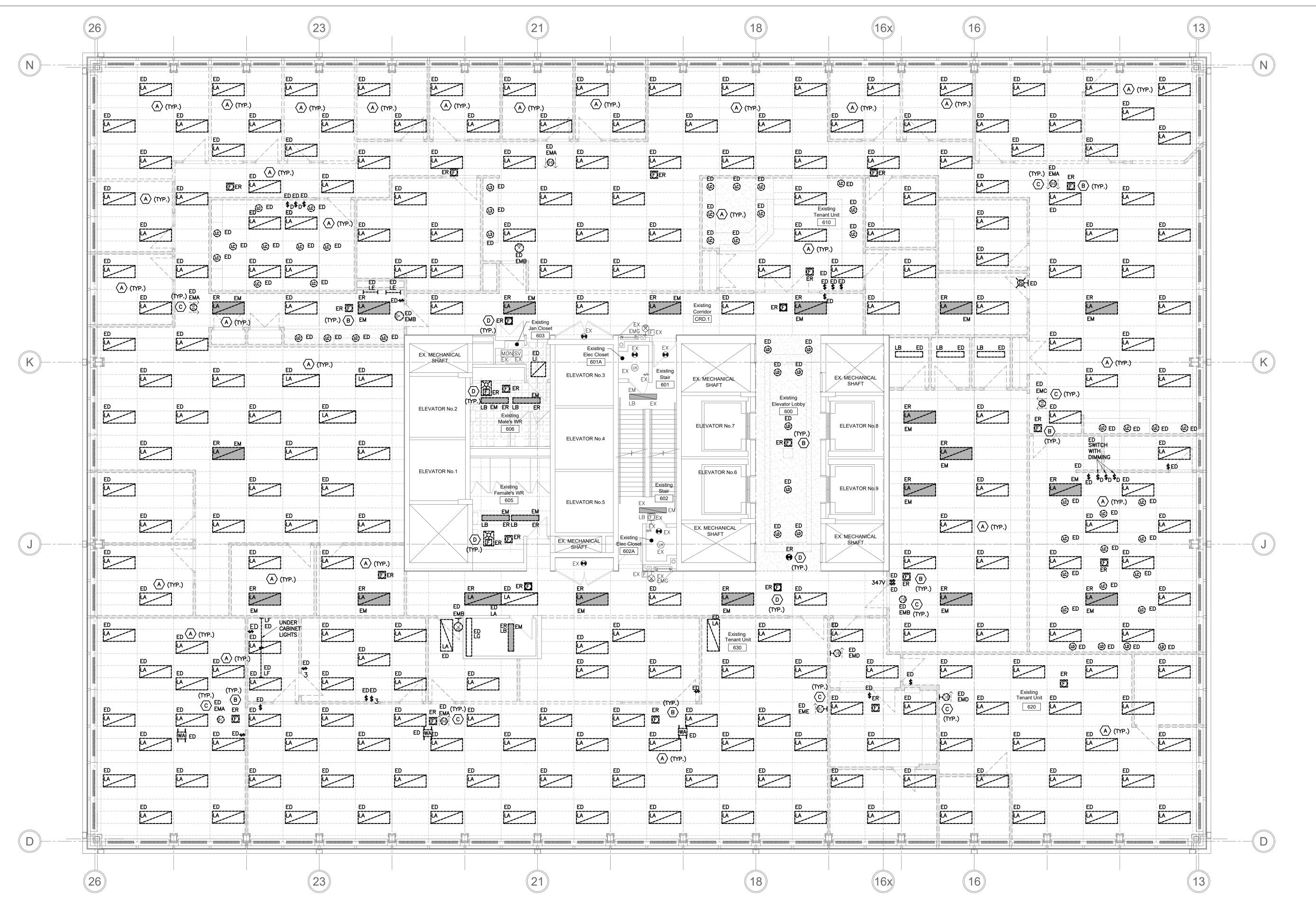
 Issue Date:
 2025-06-18

 Drawn by:
 RA/KC
 Checked by:
 JS

 Project No.:
 25027
 Scale:
 1:75



E 1.01



GENERAL DEMOLITION NOTES:

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REQUIRED TESTS TO ENSURE SAFE REMOVAL AS REQUIRED.

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DEMOLITION KEYNOTES:

- DISCONNECT AND REMOVE LIGHTING FIXTURES INCLUDING ASSOCIATED CONTROL SWITCHES, WIRING, BOXES AND CONDUITS. VERIFY TO SITE ACTUAL CIRCUITING OF LIGHTING FIXTURES. TEMPORARY SUPPORT ALL SELECTED LIGHTING FIXTURES TO USE DURING DISMANTLING/CONSTRUCTION WORK. REFER TO DRAWING E1.03 FOR MORE DETAILS. COORDINATE WITH MECHANICAL CONTRACTOR FOR ALL ASSOCIATED DUCT CONNECTED TO THE LIGHTING FIXTURE TO BE REMOVED.
- B FIRE ALARM SPEAKER TO BE TEMPORARILY RELOCATED AS SHOWN ON DRAWING E1.03. PROVIDE NECESSARY SUPPORT TO SUSPEND IN THE CEILING SPACE.
- (C) EMERGENCY EXIT SIGN / LIGHTING TO BE REMOVED INCLUDING WIRING AND CONDUIT.
- FIRE ALARM SYSTEM TO REMAIN. TEMPORARY SUPPORT AND RELOCATE ALL CEILING MOUNTED FIRE ALARM SYSTEM TO ALLOW FOR THE REMOVAL OF CEILING OR MECHANICAL EQUIPMENT. FIRE ALARM SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES.

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STELCO TOWER 6TH FLOOR INTERIOR DEMOLITION

100 KING ST. WEST HAMILTON, ON L8P 4S6

Drawing Title:

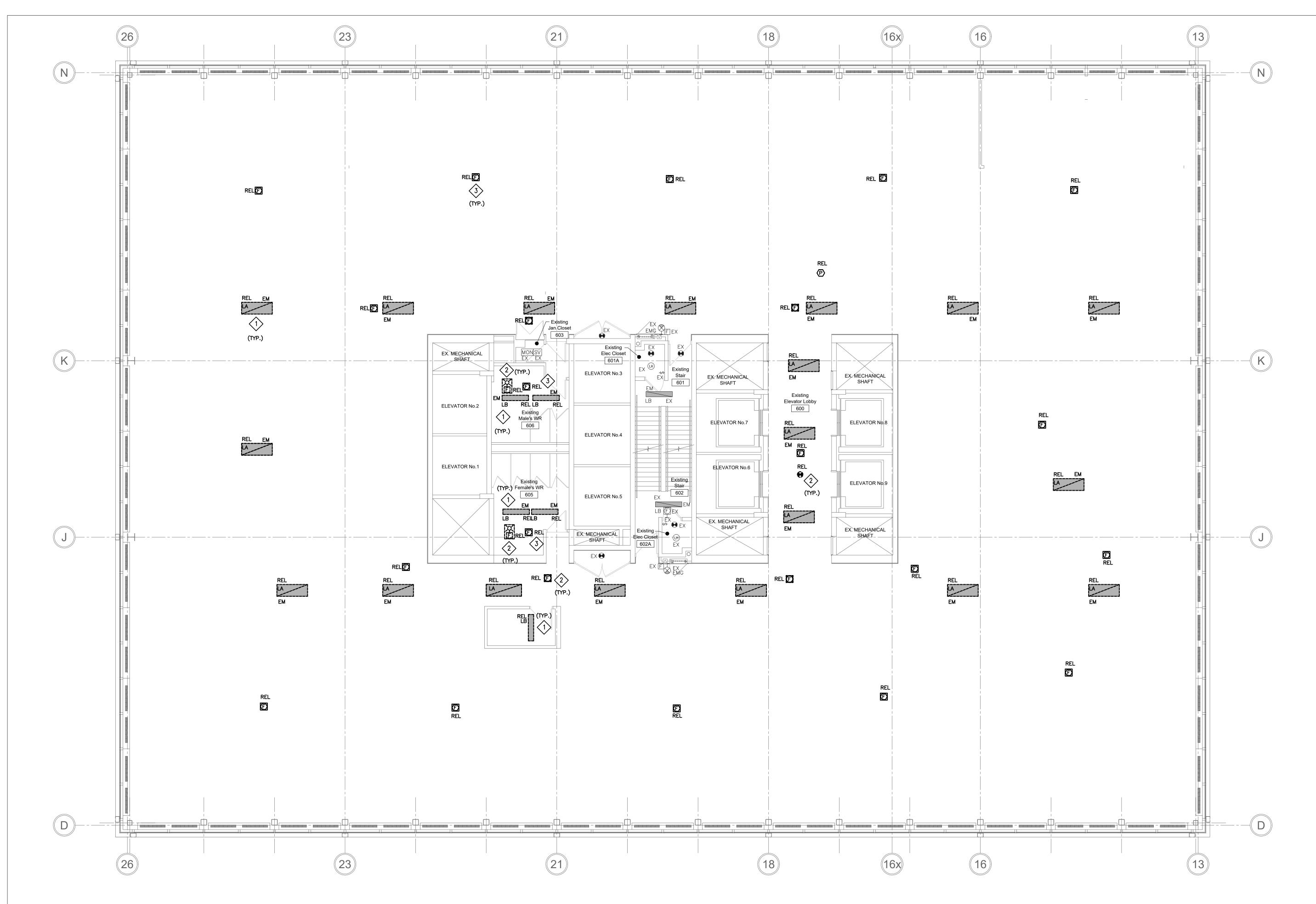
6TH FLOOR LIGHTING AND LIFE SAFETY DEMO PLAN

Drawn by: RA/KC Checked by: JS

Project No.: 25027 Scale: 1:75



E1.02



DRAWING KEYNOTES:

- TEMPORARY LOCATION OF RELOCATED LIGHTING FIXTURES. PROVIDE TEMPORARY SUPPORT OF ALL RELOCATED LIGHTING FIXTURES, AND IT SHALL BE TERMINATED / WIRED TO THE EXISTING EMERGENCY LIGHTING CIRCUIT PROVIDED IN THAT FLOOR. VERIFY TO SITE THE ACTUAL EMERGENCY CIRCUIT BRANCHES WITH IN THE 6TH FLOOR AREA. THIS LIGHTING FIXTURES WILL BE REMOVED IN THE NEW PLANS.
- RELOCATED FIRE ALARM SYSTEM TO REMAIN. TEMPORARY SUPPORT ALL CEILING MOUNTED FIRE ALARM SYSTEMS SHALL REMAIN OPERATIONAL AT ALL TIMES.
- 3 FIRE ALARM SPEAKER TO BE RELOCATED IN THE SAME LOCATION.

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STELCO TOWER 6TH FLOOR INTERIOR DEMOLITION

100 KING ST. WEST HAMILTON, ON L8P 4S6

Drawing Title:

6TH FLOOR NEW LIGHTING AND LIFE SAFETY PLAN

Issue Date: 2025-06-18

Drawn by: RA/KC Checked by: JS

Project No.: 25027 Scale: 1:75

Drawing No.:



E1.03