

ELECTRICAL SPECIFICATIONS

GENERAL CONDITIONS
 A. OBTAIN AND PAY FOR PERMITS REQUIRED BY ELECTRICAL SAFETY AUTHORITY AND LOCAL INSPECTION AUTHORITIES FOR THIS WORK. PRESENT FINAL CERTIFICATES TO CONSULTANT AND/OR OWNER.
 B. CARRY OUT ALL WORK IN ACCORDANCE WITH OESC (ONTARIO ELECTRICAL SAFETY CODE) REGULATIONS AND ESA REQUIREMENTS.
 C. ALL EQUIPMENT SHALL BE NEW AND CSA APPROVED UNLESS OTHERWISE NOTED.

SCOPE OF WORK
 A. COMPLY WITH ALL CONDITIONS OF TENDER DOCUMENTS ISSUED FOR THIS PROJECT.
 B. THE REMOVAL OR RELOCATION OF EXISTING, AND THE SUPPLY AND INSTALLATION OF NEW EQUIPMENT AS SHOWN ON THE DRAWINGS AND AS NOTED, THE MATERIALS REMOVED AND NOT REUSED, SHALL BECOME OWNERS PROPERTY AND SHALL BE REMOVED FROM THE SITE PRIOR TO COMPLETION OF WORK AS DIRECTED BY OWNER.
 C. COMPLY WITH GENERAL CONDITIONS.

a. SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS FOR LIGHTING FIXTURES, POLES, LIGHTING CONTROLS, ETC TO CONSULTANT FOR REVIEW. THIS PROJECT ALLOWS FOR 1 REVISION. ANY SUBMISSIONS AFTER REVISION 1 CONTRACTOR SHALL BE CHARGED A CONSULTANTS FEE.
 b. SUBMIT MAINTENANCE AND INSTRUCTION MANUALS. THIS PROJECT ALLOWS FOR 2 REVISIONS. PRELIMINARY SET AND THEN A FINAL SET. ANY SUBMISSIONS AFTER REVISION TWO (2) CONTRACTOR SHALL BE CHARGED A CONSULTANTS FEE. SEE SPECIFICATIONS FOR DETAILS.
 c. ON COMPLETION OF PROJECT AND BEFORE FINAL PAYMENT, SUBMIT TWO (2) AUTOCAD, PDF'S AND HARD COPY OF AS-BUILT DRAWINGS WITH ALL CHANGES AND BURIED SERVICES EXACT LOCATIONS NOTED THEREON. THIS PROJECT ALLOWS FOR 1 REVISION. ANY SUBMISSIONS AFTER REVISION ONE (1) CONTRACTOR SHALL BE CHARGED A CONSULTANTS FEE.
 d. GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER/CONSULTANT. PROVIDE WRITTEN GUARANTEE.
 e. PROVIDE LAMACOD LABELS (3-PLY) WHITE LETTERED ON BLACK BACKGROUND- 1/4" HIGH LETTERING ON ALL ELECTRICAL EQUIPMENT SUPPLIED, MOUNTED AND/OR CONNECTED BY THIS CONTRACTOR.
 f. THOROUGHLY CLEAN ALL ELECTRICAL EQUIPMENT DURING CONSTRUCTION AND ON COMPLETION OF CONTRACT.
 g. CONFER WITH ALL TRADES AND ARRANGE EQUIPMENT IN PROPER RELATION WITH OTHERS AND WITH BUILDING CONSTRUCTION AND ARCHITECTURAL FINISHES.
 h. REFER TO ARCHITECTURAL SPECIFICATIONS AND DRAWINGS WHICH ARE PART OF THIS WORK.
 i. OWNER RESERVES RIGHT TO TRIAL AND/OR TEMPORARY USAGE PRIOR TO ACCEPTING INSTALLATION.
 j. PROVIDE ALL MATERIALS, EQUIPMENT, ACCESSORIES, CONSUMABLES, LABOR, SUPERVISION, TOOL SERVICES, ETC. AS REQUIRED FOR COMPLETE AND FULLY FUNCTIONAL SYSTEMS AS DESCRIBED IN THE CONTRACT DOCUMENTS.
 k. PRIOR TO TENDERING, EXAMINE ALL DRAWINGS AND SPECIFICATIONS AND REPORT ALL ANY CONFLICTS, DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION AND/OR CORRECTION.
 l. COORDINATE AND SCHEDULE WORK WITH OWNER AND OTHER TRADES TO MINIMIZE CONFLICTS, DELAYS, AND DISRUPTION OF EXISTING SERVICES AND OPERATIONS.
 D. DEFINITIONS: FOLLOWING ARE DEFINITIONS OF WORDS FOUND IN THIS SPECIFICATION AND ON ASSOCIATED DRAWINGS:
 a. "CONCEALED" - HIDDEN FROM NORMAL SIGHT IN FURRED - SPACES, SHAFTS, CEILING SPACES, WALLS, UNDERFLOOR, AND PARTITIONS.
 b. "EXPOSED" - ALL ELECTRICAL WORK VISIBLE TO BUILDING OCCUPANTS.
 c. "PROVIDE" - (AND ALL TENSES OF "PROVIDE") SUPPLY AND INSTALL, WIRE AND CONNECT COMPLETE.
 d. "INSTALL" - (AND ALL TENSES OF "INSTALL")-INSTALL, WIRE AND CONNECT COMPLETE, PRODUCTS AND SERVICES SPECIFIED.
 e. "SUPPLY" - SUPPLY ONLY.
 f. "OR APPROVED EQUAL" - MATERIAL OR EQUIPMENT PROPOSED BY CONTRACTOR, IN LIEU OF THAT SPECIFIED, AS APPROVED BY CONSULTANT.
 g. "AS INDICATED" - AS SHOWN ON DRAWINGS AND/OR NOTED IN SPECIFICATIONS.
 h. "OWNER" - BUILDING OWNER AS DEFINED IN THE CONTRACT OR THE OWNER'S DESIGNED REPRESENTATIVE.
 i. "SOFT COPY" - PDF FORMAT
 j. "AUTOCAD" - DWG FORMAT

LIABILITY
 A. THIS CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR LAYING OUT HIS/HER WORK AND ANY DAMAGE OR EXTRA COSTS CAUSED TO THE OWNER OR OTHER CONTRACTORS BY IMPROPER LOCATION OR CARRYING OUT HIS WORK. CARRY ALL NECESSARY INSURANCE COVERAGE.

CERTIFICATES, FEES, ETC.
 A. GIVE ALL NOTICES, OBTAIN ALL PERMITS AND PAY ALL FEES SO THAT THE WORK SPECIFIED HEREIN MAY BE CARRIED OUT. AT THE ENGINEER'S REQUEST, FURNISH ANY CERTIFICATES AS EVIDENCE THAT THE WORK INSTALLED CONFORMS TO THE LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.

GROUNDING
 A. INSTALL COMPLETE PERMANENT, CONTINUOUS, BONDING SYSTEM AND CIRCUIT GROUNDING SYSTEM CONFORMING TO REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION AND OESC.

WIRES AND CABLES
 A. ALL WIRING SHALL BE IDENTIFIED WITH BRADY OR EQUIVALENT SELF-STICKING PERMACODE WIRE MARKERS. ALL JUNCTION BOXES IN CONCEALED CEILING SPACES SHALL BE LABELLED WITH PEN MARKER AS TO CIRCUITS CONTAINED THEREIN.
 B. ALL SURFACE MOUNTED OR SUSPENDED CABLES TO BE SECURELY SUPPORTED BY STAPLES, STRAPS, HANGERS OR APPROVED DEVICES ATTACHED TO BUILDING STRUCTURE AT INTERVALS NOT EXCEEDING OESC REQUIREMENTS.
 C. GENERAL WIRING INSIDE BUILDING: CSA APPROVED, SOFT COPPER, 600VOLT, TWH (75°C) OR T90 (90°C) FOR #10 AWG AND SMALLER; 600VOLT R90XL (90°C) OR T90 (90°C) FOR #8 AWG AND LARGER. RACEWAY SIZE SHALL BE BASED ON USE OF TWH/RW90XL INSULATION.
 D. MINIMUM GAUGE: #12 AWG, UNLESS SPECIFICALLY NOTED OTHERWISE. CONDUCTORS #10 AWG AND SMALLER TO BE SOLID AND/OR STRANDED CONDUCTORS #8 AWG AND LARGER TO BE STRANDED. WHERE DISTANCE FROM PANEL TO FIRST OUTLET ON 15AMP RATED CIRCUIT EXCEEDS 70 FEET (21 METERS) USE #10

ELECTRICAL SPECIFICATIONS (CONTD)

AWG TO FEED FIRST OUTLET.
 E. ALL WIRING AND CABLES TO BE COLOUR CODED FOR PHASE AND NEUTRAL IDENTIFICATION AND IN ACCORDANCE WITH OESC.
 F. SUPPLY, INSTALL, WIRE AND CONNECT ALL EQUIPMENT SHOWN, SPECIFIED OR MENTIONED.
 G. WIRE AND CONNECT MOTORS, SUPPLIED BY OTHERS, AS INDICATED.
 H. CONTRACTOR TO CONFIRM CABLE AND CORD LENGTHS.
 I. EMT SHALL BE USED FOR WIRING AND CONCEALED WHEREVER POSSIBLE. EMT COUPLINGS AND CONNECTORS SHALL BE STEEL SETSCREW CONCRETE TIGHT OR STEEL COMPRESSION RAIN TIGHT.
 J. ALL CONDUCTORS: COPPER WITH TWH OR 3-90 INSULATION, MINIMUM #12AWG, UNLESS OTHERWISE NOTED.
 K. WIRING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS OTHERWISE APPROVED.

JUNCTION BOXES & PULL BOXES
 A. JUNCTION AND PULL BOXES: STEEL METAL ENCLOSURE, WELDED CORNERS AND FORMED HINGED COVER SUITABLE FOR LOCKING IN CLOSED POSITION.
 B. COVERS WITH 1" (25MM) MINIMUM EXTENSION ALL AROUND, FOR FLUSH-MOUNTED PULL AND JUNCTION BOXES.
 C. FIXTURE BOXES: ELECTRO-GALVANIZED STEEL 100MM (4") OCTAGON COMPLETE WITH 10MM (3/8") FIXTURE STUD WHERE NECESSARY.
 D. WHERE OUTLET BOXES ARE INSTALLED IN EXTERIOR WALLS AND/OR INSULATED CEILING HAVING ASSOCIATED VAPOUR BARRIERS ON THE WARM SIDE OF THE INSULATION AND WHERE OUTLET BOXES PERFORATE THE VAPOUR BARRIER, PROVIDE ELECTRICAL BOX VAPOUR BARRIERS BEHIND AND AROUND OUTLET BOXES.
 E. SWITCHES AND RECEPTACLE BOXES SHALL BE 1104 TYPE FOR RECESSED MOUNTING.
 F. BOXES FOR OUTDOOR USE: GALVANIZED CAST FERALOY COMPLETE WITH NEOPRENE GASKET.
 G. BOXES FOR INDOOR USE: CODE GAUGE ELECTRO-GALVANIZED STEEL FOR CONCEAL MOUNTING AND GALVANIZED CAST FERALOY OR CAST BRUSHED ALUMINUM FOR EXPOSED USE, UNLESS OTHERWISE NOTED.

RACEWAYS
 A. WIRING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS UNLESS OTHERWISE APPROVED.
 B. EMT SHALL BE USED FOR WIRING AND CONCEALED WHEREVER POSSIBLE. EMT COUPLINGS AND CONNECTORS SHALL BE STEEL SETSCREW CONCRETE TIGHT OR STEEL COMPRESSION RAIN TIGHT.
 C. ELECTRICAL METALLIC TUBING (EMT): GALVANIZED ELECTRICAL METALLIC TUBING TO CSA C22.2 NO. 83, COMPLETE WITH AN INTERIOR COATING, FACTORY MADE BENDS, WHERE SITE BENDING IS NOT POSSIBLE, AND JOINTS AND TERMINATIONS MADE WITH STEEL COUPLERS AND SET SCREW TYPE CONNECTORS WITH INSULATED THROATS, CONCRETE TIGHT WHERE REQUIRED.
 D. RIGID NON-METALLIC (PVC) CONDUIT: RIGID PVC CONDUIT TO CSA C22.2, RT-4 RATED RIGID PVC (UNPLASTICISED) CONDUIT, COMPLETE WITH HEAT GUN BENDS IN CONDUIT TO 2"(50MM) DIAMETER. SOLVENT WELD JOINTS, FACTORY MADE EXPANSION JOINTS WHERE REQUIRED, AND TERMINATIONS MADE WITH PROPER AND SUITABLE CONNECTORS AND ADAPTERS.
 E. FLEXIBLE STEEL OR ALUMINUM CONDUIT AND LIQUID-TIGHT FLEXIBLE METAL CONDUIT.
 F. FISHCORD: POLYPROPYLENE.
 G. RUN CONDUITS PARALLEL OR PERPENDICULAR TO BUILDING LINES. DO NOT PASS CONDUITS THROUGH STRUCTURAL MEMBERS EXCEPT AS INDICATED, RUN CONDUITS IN FLANGED PORTION OF STRUCTURAL STEEL.

PANELBOARDS AND BREAKERS (EXISTING)
 A. USE EXISTING PANELBOARD(S) TO CONNECT NEW CIRCUITS. PROVIDE NEW BREAKERS AS REQUIRED. COORDINATE WITH OWNER.
 B. BREAKERS: BOLT-ON MOULDED CASE CIRCUIT BREAKERS; THERMAL MAGNETIC UNLESS OTHERWISE INDICATED, QUICK-MAKE, QUICK-BREAK TYPE, FOR MANUAL AND AUTOMATIC OPERATIONS WITH TEMPERATURE COMPENSATION FOR 40 DEG C.
 C. MAIN BREAKERS: MINIMUM 22,000A RMS SYMMETRICAL INTERRUPTING @ 240VAC, UNLESS OTHERWISE NOTED. WHEN BREAKER IS TRIPPED AUTOMATICALLY, HANDLE TO ASSUME POSITION BETWEEN ON AND OFF. MINIMUM INTERRUPTING RATING SHALL NOT BE LESS THAN SWITCHBOARD OR PANEL RATING WHEREIN BREAKERS ARE INSTALLED.
 D. BRANCH BREAKERS: MINIMUM 22,000A RMS SYMMETRICAL INTERRUPTING @ 240VAC, UNLESS OTHERWISE NOTED. WHEN BREAKER IS TRIPPED AUTOMATICALLY, HANDLE TO ASSUME POSITION BETWEEN ON AND OFF. MINIMUM INTERRUPTING RATING SHALL NOT BE LESS THAN SWITCHBOARD OR PANEL RATING WHEREIN BREAKERS ARE INSTALLED.

LABELLING
 ENSURE ALL NEW EQUIPMENT IS LABELLED APPROPRIATELY AS PER THE SPECIFICATIONS BELOW. WORK THAT DOES NOT INCLUDE PROPER LABELLING WILL BE CONSIDERED INCOMPLETE AND WILL BE MARKED AS DEFICIENT UNTIL LABELLING IS IMPLEMENTED AS PER SPECIFICATIONS BELOW.

NORMAL LABEL SPECIFICATIONS:
 a. ALL EQUIPMENT MUST BE LABELLED.
 b. OBTAIN WRITTEN APPROVAL OF IDENTIFICATION SYSTEM FROM DEPARTMENTAL REPRESENTATIVE BEFORE STARTING MANUFACTURE OF LABELS. CONTRACTOR MUST NOT LABEL ITEMS BY NAME AND NUMBER ON THE CONSTRUCTION PLAN UNLESS ADVISED TO DO SO BY THE DEPARTMENTAL REPRESENTATIVE.

SEISMIC ENGINEER
 A. PROFESSIONAL ENGINEER HOLDING A CERTIFICATE OF AUTHORIZATION IN THE PROVINCE OF ONTARIO WITH A MINIMUM OF 5 YEARS EXPERIENCE IN SEISMIC DESIGN, AND A MINIMUM OF \$1 MILLION PROFESSIONAL LIABILITY INSURANCE INCLUDING ERRORS AND OMISSIONS INSURANCE.
 B. AT THE COMPLETION OF THE PROJECT, THE SEISMIC ENGINEER SHALL REVIEW THE INSTALLATIONS ON SITE, AND SHALL PREPARE A WRITTEN REPORT, WITH A LETTER SIGNED, SEALED AND DATED BY THE SEISMIC ENGINEER, CERTIFYING THAT THE INSTALLATIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THEIR DESIGN AND SHOP DRAWINGS.
 C. CONTRACTOR SHALL ENSURE THAT THE SEISMIC ENGINEERS' REQUIREMENTS AND SPECIFICATION ARE MET.

FIXTURE SCHEDULE

NOTES:
 1. CONTRACTOR AND FIXTURE SUPPLIER ARE RESPONSIBLE TO PROVIDE ALL MOUNTING HARDWARE TO SUITE EXISTING POLES.
 2. LIGHT EMITTING DIODES (LED) WITH CURRENT TECHNOLOGY. MINIMUM COLOUR TEMPERATURE OF 3000K, A MINIMUM CRI OF 80, A RATED LIFE OF 50,000 TO 70,000 HOURS BASED ON 70% LUMEN DEPRECIATION LEVEL AND HEAT SINKS TO REMOVE HEAT FROM THE BOTTOM OF THE SEMICONDUCTORS.
 3. MANUFACTURER TO NOTE ON SHOP DRAWINGS THAT DRIVERS, AND CONTROLS ARE ALL COMPATIBLE WITH EXISTING CIRCUITING.
 4. CONTRACTOR TO CONFIRM VOLTAGES ON SITE PRIOR TO RELEASE.
 5. ALL FIXTURES SHALL BE COMPATIBLE WITH OUTDOOR RATED EMBEDDED SMART SENSOR FOR WIRELESS LIGHTING CONTROL FOR BOTH MOTION AND DAYLIGHT BASED CONTROL OF 0-10VDC DIMMABLE OUTDOOR AREA, UNLESS OTHERWISE NOTED. INCLUDE WITH EACH FIXTURE EMBEDDED SMART SENSOR UNLESS OTHERWISE NOTED (NIGHT RSDGR 348 IN NA 02 OR APPROVED EQUIVALENT).

TYPE	DESCRIPTION	LAMPS	MTG HT
A.1	LED AREA LUMINAIRE, SINGLE HEAD, DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS, FULLY GASKETED FOR MOISTURE AND DUST, 20' POLE, FINISH ARCH SELECT POWER COAT. MODEL: CYCLONE LIGHTING TRIS2A-FGC-14-P30-30K	4873 LUMEN 3000K	POLE
A.2	LED AREA LUMINAIRE, SINGLE HEAD, DIE-CAST ALUMINUM HOUSING, ACRYLIC LENS, FULLY GASKETED FOR MOISTURE AND DUST, 20' POLE, FINISH ARCH SELECT POWER COAT. MODEL: CYCLONE LIGHTING TRIS2A-FGC-T4HS-P30-30K	4082 LUMEN 3000K	POLE
B	4" DIA. LED CYLINDER, WET LOCATION, SPUN STEEL W/ INTEGRATED JUNCTION BOX, 120V, SUITABLE FOR INSTALLATION IN SOFFIT, FINISH ARCH SELECT POWER COAT. MODEL: LITHONIA 4JBK-RD-30K-90CRI	688 LUMEN 3000K	RECESSED (SOFFIT)
C	LED LANDSCAPE SPOT LIGHT, SINGLE HEAD, ALUMINUM HOUSING, FULLY GASKETED FOR MOISTURE AND DUST, CLEAR LENS, ADJUSTABLE ANGLE, FINISH ARCH SELECT POWER COAT. MODEL: WAC LIGHTING 5012-30BZ (14.5W)	855 LUMEN 3000K	AT GRADE
D	LED AREA LUMINAIRE, SINGLE HEAD, MACHINED ALUMINUM HOUSING, FULLY GASKETED FOR MOISTURE AND DUST, CLEAR LENS, FINISH ARCH SELECT POWER COAT. MODEL: HYDREL PALM-P2-80CRI-30K-12-55DEG-FLC	1300 LUMEN 3000K	SURFACE (SOFFIT)
E	LED BOLLARD, EXTRUDED ALUMINUM, 8.5" ROUND LENS, FULLY GASKETED FOR MOISTURE AND DUST, 24" TALL, C/W ANCHOR BOLTS, FINISH ARCH SELECT POWER COAT. MODEL: LUMINIS CANADA INC. SN800B-L1L11-K30-H24	1180 LUMEN 3000K	BOLLARD

ELECTRICAL DRAWING LIST

E000	ELECTRICAL DRAWING LIST, LEGEND, NOTES, SCHEDULES AND KEY PLAN
E100	ELECTRICAL DEMOLITION SITE PLAN LIGHTING
E101	ELECTRICAL NEW SITE PLAN LIGHTING

LEGEND

SYMBOL	DESCRIPTION	MTG HT
○	POLE MOUNTED LIGHT FIXTURE	AS NOTED
□	WALL MOUNTED LIGHT FIXTURE	AS NOTED
□	WALL MOUNTED LIGHT FIXTURE (WALLPACK TYPE)	AS NOTED
○	BOLLARD LIGHT	GROUND
○	POT LIGHT	SOFFIT RECESSED
→	FLOOD LIGHT	AS NOTED
→	POLE MOUNTED FLOOD LIGHT	AS NOTED
□	STONE PILLAR LANDSCAPE LIGHTING	
□	LIGHTING CONTACTOR	
PC	PHOTO SENSOR	
TC	TIME CLOCK	

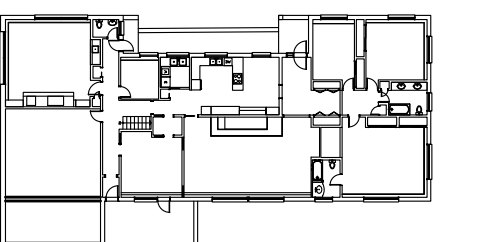
GENERAL NOTES

- DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. OBTAIN ALL DIMENSIONS FROM ARCHITECTURAL PLANS, MANUFACTURER'S SHOP DRAWINGS, AND ON SITE INSPECTIONS.
- PRIOR TO INSTALLATION OF BOXES AND LIGHTING FIXTURES IN WALLS OR SOFFITS, VERIFY THAT NO INTERFERENCES EXIST. WORK IN CONJUNCTION WITH ARCHITECTURAL PLANS AND ELEVATIONS WHEN LOCATING FIXTURES.
- CIVIL AND ELECTRICAL TRADES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER SO AS TO AVOID INTERFERENCES BETWEEN INSTALLATIONS.
- ALL EXISTING WIRING AND CONDUIT IN RENOVATED AREAS SHALL BE REMOVED IN ITS ENTIRETY WHERE ACCESSIBLE. WHERE NOT ACCESSIBLE, WIRING ONLY SHALL BE REMOVED AND CONDUIT SHALL REMAIN.
- REWORK ALL EXISTING WIRING, CONDUIT, ETC. REMAINING IN USE AND FALLING WITHIN EXISTING WALLS WHICH ARE BEING MODIFIED, TO NEAREST EXISTING WALLS REMAINING. ALL REWORKED WIRING SHALL BE CONCEALED.
- DISCONNECT AND REMOVE ANY ELECTRICAL EQUIPMENT IN CEILING SPACE OR WALLS THAT CAUSES INTERFERENCES DURING RENOVATION WORK. ALL EQUIPMENT SHALL BE REPLACED AND RECONNECTED UPON COMPLETION OF RENOVATION WORK.
- ELECTRICAL EQUIPMENT BEING REMOVED AND NOT BEING REUSED WILL BE STORED ON SITE AND REMAIN THE PROPERTY OF THE OWNER. ANY SUCH EQUIPMENT THE OWNER DOES NOT WISH TO RETAIN WILL BE REMOVED FROM SITE AND DISPOSED OF BY THIS TRADE.
- REVIEW ARCHITECTURAL AND CIVIL DRAWINGS AND PROVIDE ON SITE INSPECTIONS TO DETERMINE FULL EXTENT OF PROJECT PRIOR TO SUBMITTING BID.
- ALL CONNECTIONS OR TIE-ING TO EXISTING SERVICES SHALL BE DONE DURING REGULAR WORKING HOURS.

DEMOLITION NOTES

- ELECTRICAL SYSTEMS SHOWN ON DEMOLITION PLANS ARE BASED ON INFORMATION OBTAINED FROM ORIGINAL CONSTRUCTION CONTRACT/TENDER DOCUMENTS. THESE DRAWINGS ARE NOT BASED ON "AS-BUILT RECORDS" OR ON EXHAUSTIVE FIELD MEASUREMENT AND ARE PROVIDED TO ASSIST THE CONTRACTOR IN DETERMINING THE EXTENT OF WORK REQUIRED. THE CONTRACTOR SHALL MAKE ALLOWANCE IN THEIR TENDER PRICE FOR THE REMOVAL OF ADDITIONAL ABANDONED SERVICES AND THE PROTECTION OF EXISTING SERVICES THAT MUST REMAIN. RECORD THE LOCATION OF ALL EXISTING SERVICES THAT REMAIN ON AS-BUILT RECORD DRAWINGS.
- ELECTRICAL DRAWINGS DO NOT IDENTIFY EVERY ELECTRICAL EQUIPMENT SUCH AS LIGHTING, RECEPTACLES, SWITCHES, SYSTEMS DEVICES ETC. IN EXISTING AREAS OF DEMOLITION AND WHERE RENOVATIONS WILL TAKE PLACE. DIVISION 26 SHALL VISIT SITE PRIOR TO SUBMITTING BIDS AND CONFIRM ALL ELECTRICAL EQUIPMENT IN THESE AREAS AND INCLUDE FOR DISCONNECTION AND REMOVAL OF ALL EQUIPMENT IN AREA OF RENOVATION, UNLESS NOTED OTHERWISE.
- EXISTING ACTIVE SERVICES THAT ARE ROUTED THROUGH AREA OF CONSTRUCTION TO SERVICE OTHER AREAS ARE TO BE IDENTIFIED AND MAINTAINED OPERATIONAL.
- TEMPORARY CONNECTION REQUIRED TO MAINTAIN EXISTING SERVICES MUST BE PROVIDED AND REMOVED AS PART OF THIS WORK.
- ALL WIRING IN WALLS/CEILING BEING REMOVED SHALL BE PULLED BACK TO SOURCE AND REMOVED OR MADE SAFE.
- REFER TO ARCHITECTURAL AND CIVIL DRAWINGS FOR ANY ADDITIONAL DEMOLITION. DISCONNECT AND REMOVE ASSOCIATED POWER WIRING AND CONDUIT IN ITS ENTIRETY AS REQUIRED.
- CONTRACTOR SHALL DISCONNECT, REMOVE AND REINSTALL LIGHTING AND ELECTRICAL DEVICES AS REQUIRED FOR ARCHITECTURAL AND CIVIL RENOVATIONS. RELOCATE AND RE-ROUTE ELECTRICAL SERVICES AS REQUIRED.

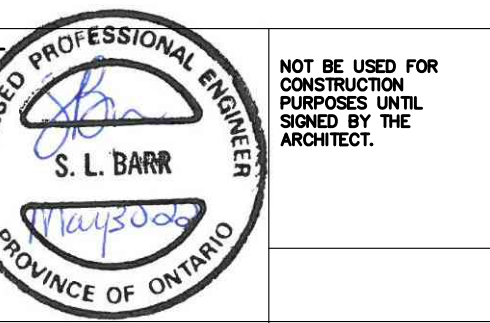
KEY PLAN: LEVEL X



CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
 DO NOT SCALE DRAWINGS.

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR 90% REVIEW	2022/05/18
2	ISSUED FOR SITE PLAN APPROVAL	2022/05/30



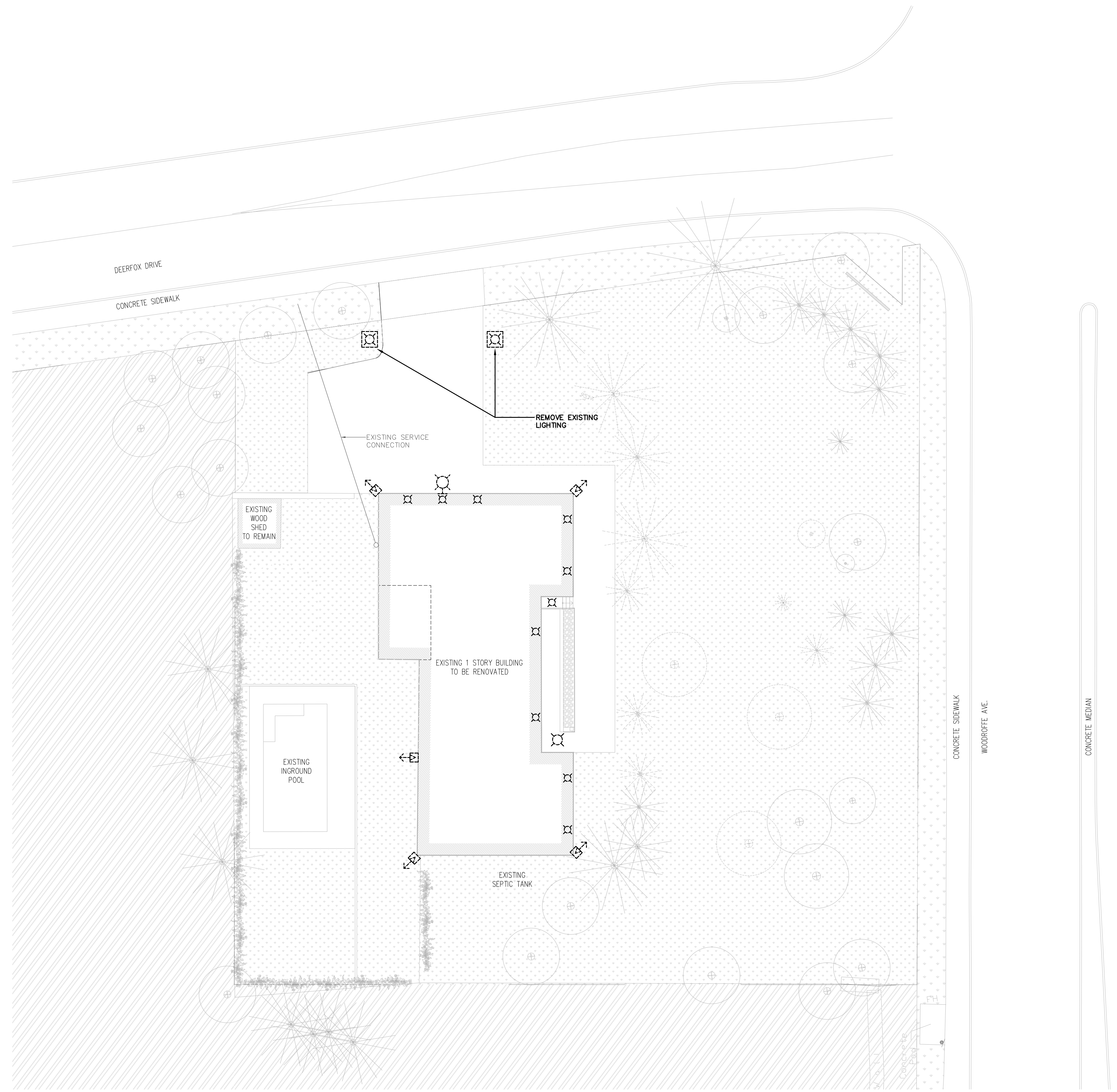
PROJECT NORTH
 DRAWN CM/TP
 CHECKED SB
 DATE PRINTED

3150 WOODROFFE DR.
EXHALO SPA

ADDRESS: 3150 WOODROFFE DRIVE, OTTAWA, ONTARIO
 DRAWING TITLE

ELECTRICAL DRAWING LIST
 LEGEND NOTES AND
 SCHEDULES

SCALE AS SHOWN
 DRAWING NO.: E000
 PROJECT NO.: 003-22



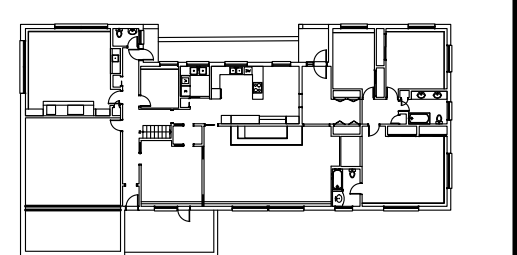
DEMOLITION NOTES

1. DISCONNECT AND REMOVE EXISTING LIGHTING AS INDICATED ON DRAWING.

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22-038

KEY PLAN: LEVEL X



CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE DRAWINGS.

REVISIONS		
NO.	DESCRIPTION	DATE
1	ISSUED FOR 90% REVIEW	2022/05/19
2	ISSUED FOR SITE PLAN APPROVAL	2022/05/30

SEAL
LICENSED PROFESSIONAL ENGINEER
S. L. BARR
PROVINCE OF ONTARIO

NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BY THE ARCHITECT.
PROJECT NORTH
DRAWN: CM/TP
CHECKED: SB
DATE PRINTED:

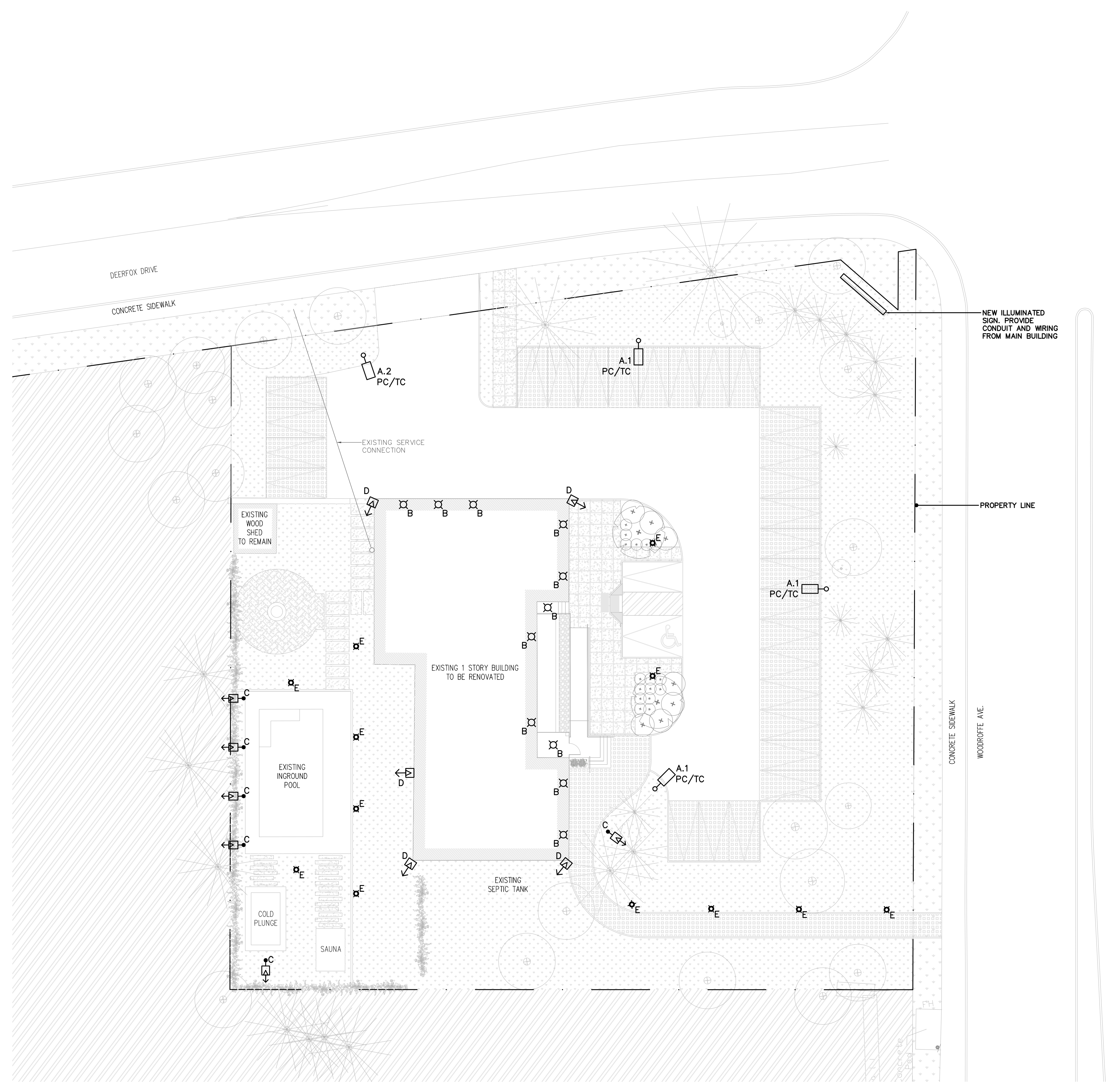
1 DEMOLITION LIGHTING SITE PLAN
E100 / 1:200

**3150 WOODROFFE DR.
EXHALO SPA**

ADDRESS: 3150 WOODROFFE DRIVE, OTTAWA, ONTARIO.
DRAWING TITLE

ELECTRICAL DEMOLITION SITE PLAN LIGHTING

SCALE: AS SHOWN
DRAWING NO.: E100
PROJECT NO.: 003-22



NEW NOTES

1. PROVIDE NEW SITE LIGHTING AS SHOWN IN BOLD. CONNECT TO EXISTING PANEL. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS, FINISHES AND MOUNTING HEIGHTS.
2. CONNECT NEW ILLUMINATED SIGN. PROVIDE CONDUIT, WIRING AND NEW BREAKER AS REQUIRED IN THE EXISTING PANEL TO MAKE THE NEW CONNECTION.

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KEY PLAN: LEVEL X

TRUE NORTH

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES OR DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
DO NOT SCALE DRAWINGS.

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR 90% REVIEW	2022/05/19
2	ISSUED FOR SITE PLAN APPROVAL	2022/05/30

SEAL OF PROFESSIONAL ENGINEER
LICENSED PROFESSIONAL ENGINEER
S. L. BARR
PROVINCE OF ONTARIO

NOT BE USED FOR CONSTRUCTION PURPOSES UNTIL SIGNED BY THE ARCHITECT.

PROJECT NORTH

DRAWN: CM/TP
CHECKED: SB
DATE PRINTED:

1 NEW LIGHTING SITE PLAN
E101 1:200

**3150 WOODROFFE DR.
EXHALO SPA**

ADDRESS: 3150 WOODROFFE DRIVE, OTTAWA, ONTARIO.
DRAWING TITLE

ELECTRICAL NEW SITE PLAN
LIGHTING

SCALE: AS SHOWN
DRAWING NO.: E101
PROJECT NO.: 003-22