

ELECTRICAL DRAWINGS LIST	
E-01	EXISTING / DEMOLITION POWER AND SYSTEMS
E-02	EXISTING / DEMOLITION LIGHTING AND FIRE ALARM
E-03	EXISTING / NEW POWER AND SYSTEMS
E-04	EXISTING / NEW LIGHTING AND FIRE ALARM
E-05	ELECTRICAL SPECIFICATION

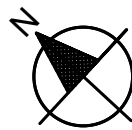
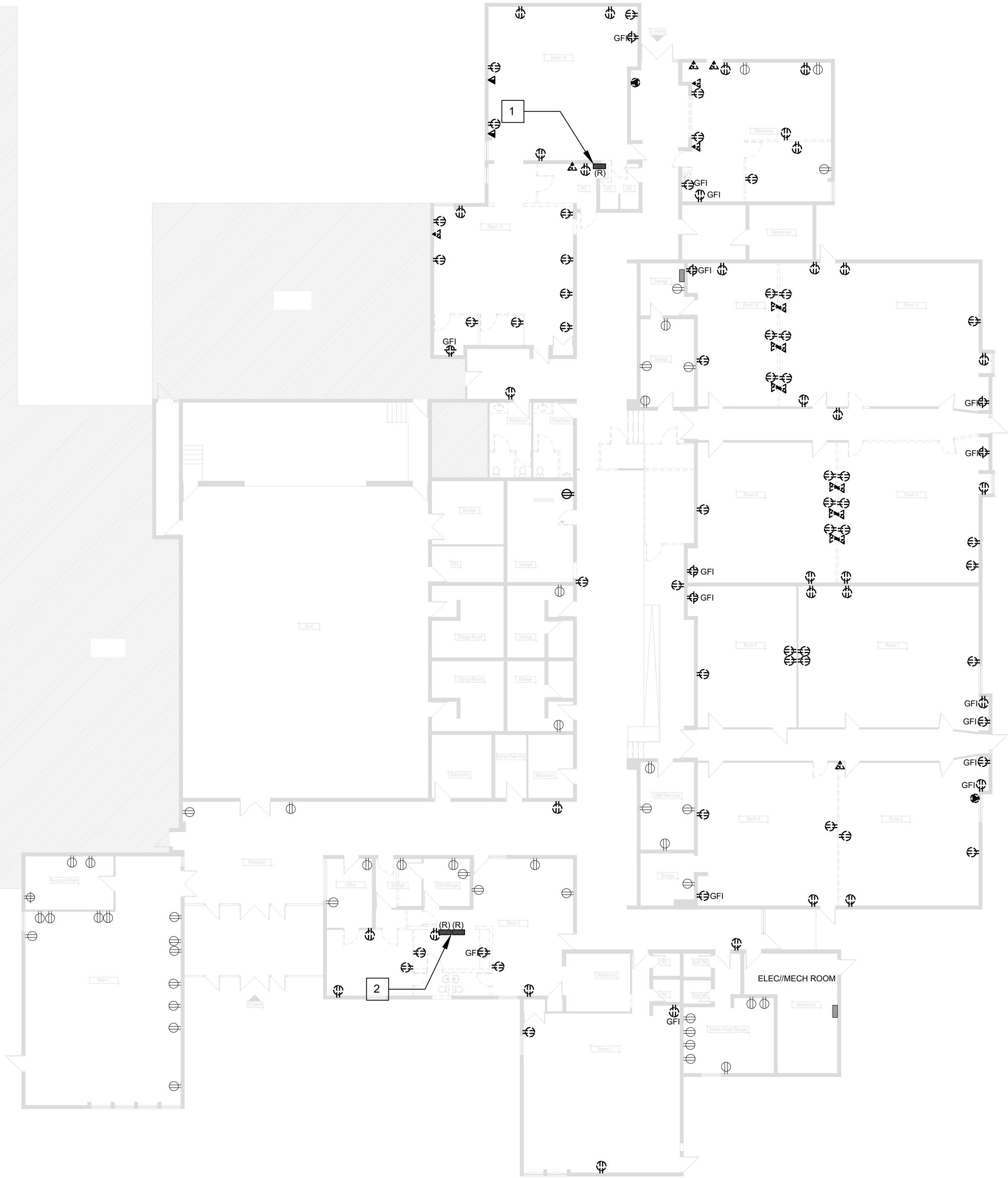
SYMBOLS & LEGENDS LIST	
POWER	
	DUPLEX RECEPTACLE 120V
	TAMPER-RESISTANCE RECEPTACLES
	RECEPTACLES MOUNTED OVER COUNTER
	HEAVY DUTY RECEPTACLE
	ELECTRICAL PANEL
LIGHTING	
	2'x4' LED CEILING PANEL LIGHT
	2'x4' FLUORESCENT CEILING PANEL LIGHT
	2'x2' LED CEILING PANEL LIGHT
	1'x4' FLUORESCENT CEILING STRIP LIGHT
	RECESSED LED LIGHT
	FIRE ALARM CONTROL PANEL
	EMERGENCY EXIT SIGN WITH LIGHT
	EMERGENCY LIGHT WITH BATTERY
	EMERGENCY LIGHT REMOTE HEAD
	SINGLE POLE TOGGLE SWITCH
	3-WAY SWITCH
	TAMPER-RESISTANCE SWITCH
FIRE ALARM	
	FIRE ALARM HORN
	FIRE ALARM SMOKE DETECTOR
	MANUAL FIRE ALARM STATION
COMMUNICATION	
	DATA/TELEPHONE OUTLET
ANNOTATION	
(R)	DENOTES EXISTING ELECTRICAL DEVICES/EQUIPMENT TO RELOCATE
(E)	DENOTES EXISTING ELECTRICAL DEVICES/EQUIPMENT TO REMAIN
GFI	GROUND FAULT INTERRUPTER

DEMOLITION GENERAL NOTES

- EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE DEMOLISHED IS SHOWN IN THICK DASHED LINES.
- EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.
- EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE RELOCATED IS SHOWN IN THICK SOLID LINES MARKED WITH "R"
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING INSTALLATION ON SITE AND CONFIRM ALL EXISTING CIRCUITS TO BE DEMOLISHED AND/OR REUSED.
- CONFIRM EXACT NUMBER OF ELECTRICAL DEVICES TO BE DEMOLISHED VIA SITE VISIT PRIOR TO COMMENCEMENT OF WORK. ALLOW FOR ADDITIONAL 10% OF DEVICES FROM WHAT IS SHOWN ON DRAWINGS.

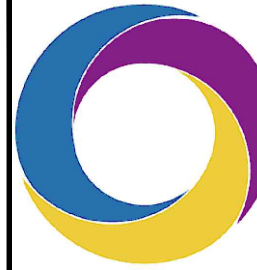
ELECTRICAL DRAWING NOTES

- EXISTING 120/208V PANELBOARD TO BE RELOCATED TO NEARBY STORAGE ROOM. SEE DRAWING E-03 FOR NEW LOCATION. PROTECT EXISTING FEEDERS, INTERCEPT AND EXTEND TO NEW LOCATION. REFER TO IMAGE #1 OF EXISTING PANELBOARD ON DRAWING E05.
- EXISTING TWO 120/208V PANELBOARDS TO BE RELOCATED TO NEARBY STORAGE ROOM. SEE DRAWING E-03 FOR NEW LOCATION. PROTECT EXISTING FEEDERS, INTERCEPT AND EXTEND TO NEW LOCATION. REFER TO IMAGES #2, #3 AND #4 OF EXISTING PANELBOARDS ON DRAWING E05.



01
E-01

EXISTING / DEMOLITION POWER AND SYSTEMS
SCALE: 1/16" = 1'-0"



ELECTRICAL ENGINEER:
ZIYUTEC INC.
#212-1390 PRINCE OF WALES
DRIVE OTTAWA, ON K2C 3N6
PH : 604-244-1786
EMAIL : INFO@ZIYUTEC.COM
WEBSITE: WWW.ZIYUTEC.COM

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PRACTICE PERMIT NUMBER:

1000258



8		
7		
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3	2026/10/02	RE-ISSUED FOR BUILDING PERMIT
2	2026/09/04	ISSUED FOR BUILDING PERMIT
1	2026/08/11	ISSUED FOR COORDINATION
NO.	YYYY/MM/DD	DESCRIPTION

PROJECT NAME:
DAYCARE RENOVATION

ADDRESS:
BRIDGE STREET, OTTAWA, ONTARIO

DRAWING TITLE:
EXISTING / DEMOLITION POWER AND SYSTEMS

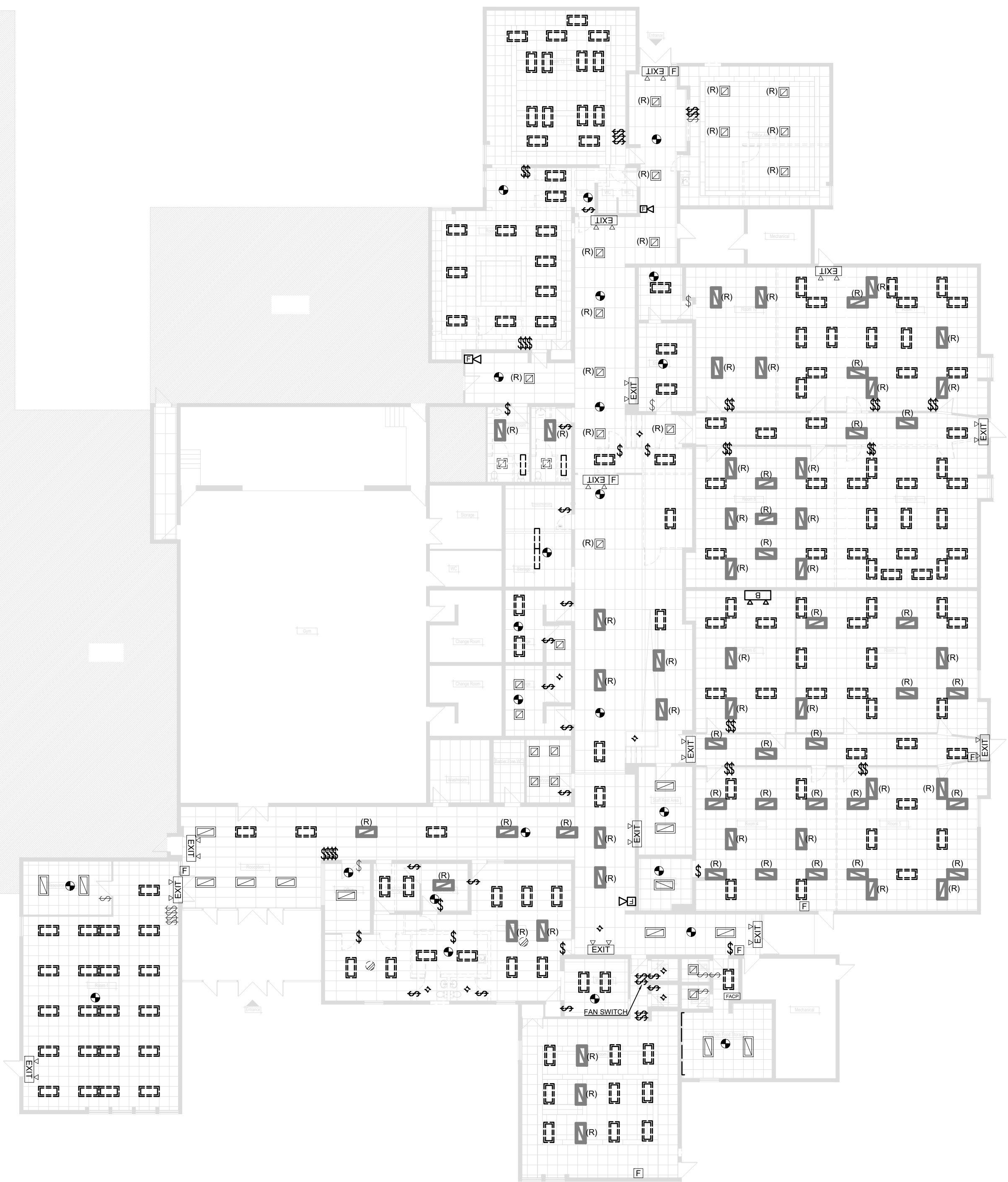
CLIENT PROJECT NO. N/A	ZIYUTEC PROJECT NO. Z2026-098
DESIGN BY TL	REVIEWED BY JD
DRAWN BY TL	APPROVED BY GF
DATE: 17/07/26	SCALE: AS NOTED

SHEET: # 1 OF 5

E-01

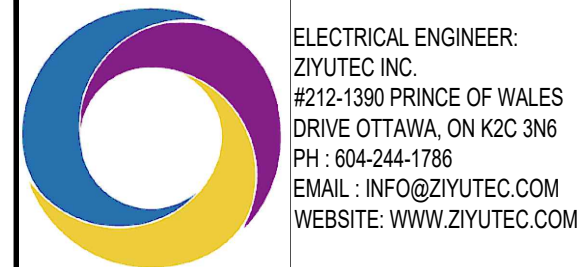
DEMOLITION GENERAL NOTES

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3. EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO BE RELOCATED IS SHOWN IN THICK SOLID LINES MARKED WITH "R".
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING INSTALLATION ON SITE AND CONFIRM ALL EXISTING CIRCUITS TO BE DEMOLISHED AND/OR REUSED.
5. CONFIRM EXACT NUMBER OF ELECTRICAL DEVICES TO BE DEMOLISHED VIA SITE VISIT PRIOR TO COMMENCEMENT OF WORK. ALLOW FOR ADDITIONAL 10% OF DEVICES FROM WHAT IS SHOWN ON DRAWINGS.



01
E-02
SCALE: 1/16" = 1'-0"

EXISTING / DEMOLITION LIGHTING AND FIRE ALARM



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DRAWING TITLE:
EXISTING / DEMOLITION LIGHTING AND FIRE ALARM

CLIENT PROJECT NO. N/A		ZIYUTEC PROJECT NO. Z2026-098	
DESIGN BY	TL	REVIEWED BY	JD
DRAWN BY	TL	APPROVED BY	GF
DATE: 17/07/26		SCALE: AS NOTED	
SHEET: # 2 OF 5		E-02	

NEW PLAN GENERAL NOTES

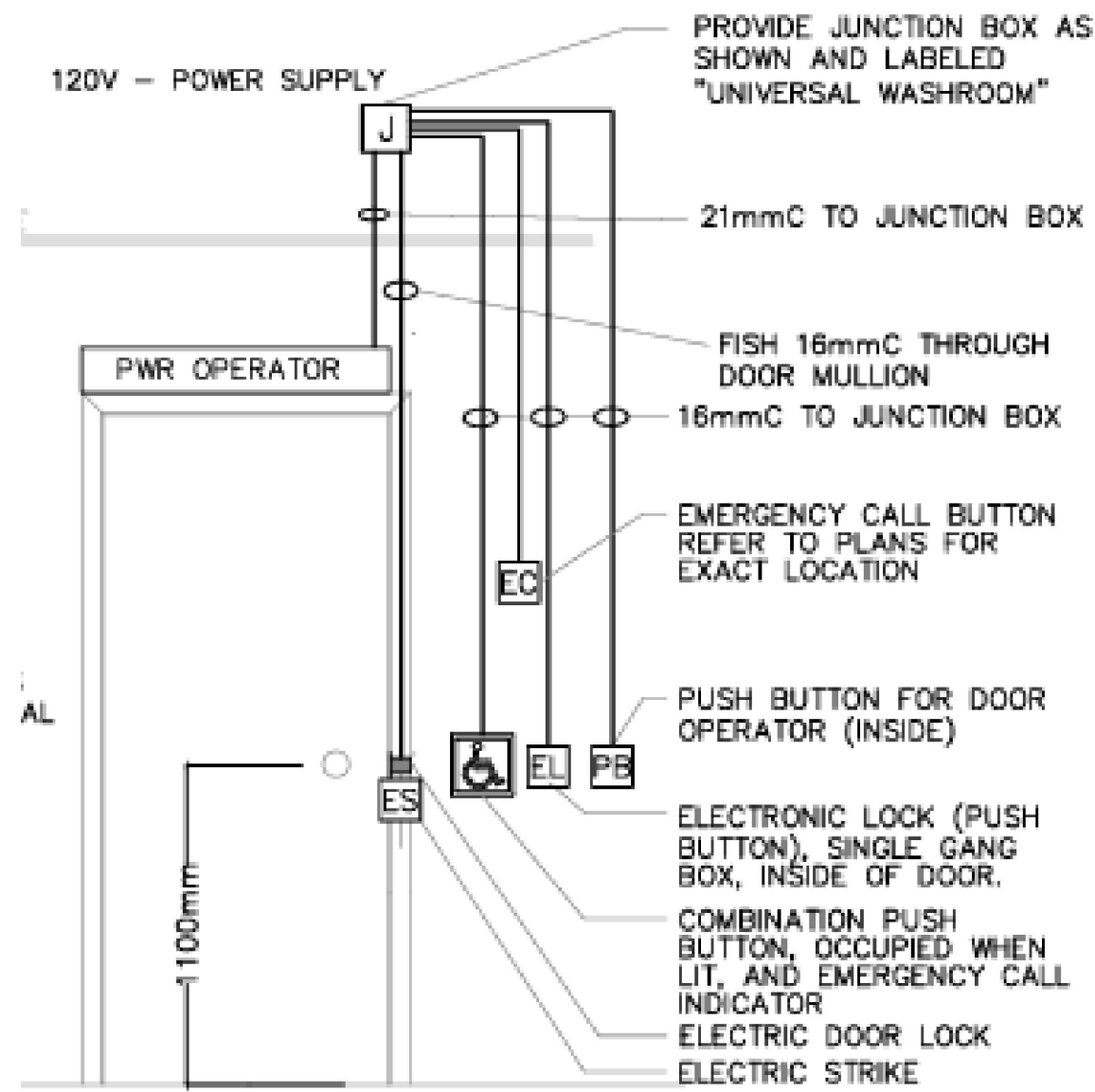
- EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.
- EXCEPT AS NOTED OTHERWISE, ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
- EXCEPT AS NOTED OTHERWISE, ALL EXISTING RELOCATED EQUIPMENT IS SHOWN IN THICK SOLID LINES MARKED WITH "R".
- TYPICAL CIRCUITING AS FOLLOWS: 5 GENERAL PURPOSE RECEPTACLES PER CIRCUIT, 4 WORKSTATION RECEPTACLES PER CIRCUIT AND 1 DEDICATED REC PER CIRCUIT. CONTRACTOR TO CONNECT NEW CIRCUITS TO EXISTING NEARBY PANELBOARDS. CONTRACTOR SHALL REUSE EXISTING CIRCUITS MADE AVAILABLE BY DEMOLITION WHERE APPLICABLE. CONTRACTOR TO PROVIDE P TOUCH LABEL ON ALL NEW ELECTRICAL RECEPTACLES AND PROVIDE UPDATED TYPEDWRITTEN PANELBOARD SCHEDULE TO REFLECT NEW CONDITIONS. CONTRACTOR TO MARK-UP ALL NEW CIRCUIT DESIGNATIONS ON AS BUILT DRAWINGS.

ELECTRICAL DRAWING NOTES

- EXACT LOCATION OF 120/208V PANELBOARD TO BE CONFIRMED ON SITE WITH CLIENT.
- EXACT LOCATION OF 2 120/208V PANELBOARDS TO BE CONFIRMED ON SITE WITH CLIENT.
- PROVIDE AND INSTALL A COMPLETE, OPERATIONAL EMERGENCY CALL SYSTEM, INCLUDING AUDIBLE AND VISUAL SIGNAL DEVICES INSIDE AND OUTSIDE THE UNIVERSAL WASHROOM, PUSH BUTTONS, PULL STRING, CONDUIT, WIRING AND ASSOCIATED HARDWARE IN ACCORDANCE WITH OBC DIVISION B, CLAUSE 3.8.3.12.(2). SIGNAGE BY OTHERS. REFER TO TYPICAL EMERGENCY CALL SYSTEM DETAIL FOR REFERENCE ONLY. COORDINATE FINAL REQUIREMENTS WITH THE SUPPLIED SYSTEM TO MEET OBC REQUIREMENTS.

POWER AND SYSTEM NOTES

- THE FOLLOWING ROOMS SHALL BE EQUIPPED WITH TAMPER RESISTANT RECEPTACLES: ROOMS 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 AND CHILD ACCESSIBLE CORRIDORS IN CHILDCARE AREAS.
- PROVIDE 120 V, 15 A POWER CONNECTION TO THE AUTOMATIC DOOR OPERATOR AT D14 IN ACCORDANCE WITH OBC DIVISION B, CLAUSE 3.8.3.12.(1)(i). PROVIDE COMMUNICATION CONDUIT AND ABOVE-CEILING JUNCTION BOX AS REQUIRED BY THE DOOR CONTRACTOR. COORDINATE EXACT REQUIREMENTS WITH THE DOOR CONTRACTOR.



02 TYPICAL EMERGENCY CALL SYSTEM DETAIL
E-03 SCALE: NTS

01 EXISTING / NEW POWER AND SYSTEMS
E-03 SCALE: 1/16" = 1'-0"



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DAYCARE RENOVATION

ADDRESS:
BRIDGE STREET, OTTAWA, ONTARIO

DRAWING TITLE:
EXISTING / NEW POWER AND SYSTEMS

CLIENT PROJECT NO.
N/A

ZIYUTEC PROJECT NO.
Z2026-008

DESIGN BY TL

REVIEWED BY JD

DRAWN BY TL

APPROVED BY GF

DATE: 17/07/26

SCALE: AS NOTED

SHEET: # 3 OF 5

E-03

NEW PLAN GENERAL NOTES

- EXCEPT AS NOTED OTHERWISE, ALL EXISTING EQUIPMENT TO REMAIN IS SHOWN IN THIN SOLID LINES.
- EXCEPT AS NOTED OTHERWISE, ALL NEW EQUIPMENT IS SHOWN IN THICK SOLID LINES.
- EXCEPT AS NOTED OTHERWISE, ALL EXISTING RELOCATED EQUIPMENT IS SHOWN IN THICK SOLID LINES MARKED WITH "R".
- TYPICAL CIRCUITING AS FOLLOWS: 5 GENERAL PURPOSE RECEPTACLES PER CIRCUIT, 4 WORKSTATION RECEPTACLES PER CIRCUIT AND 1 DEDICATED REC PER CIRCUIT. CONTRACTOR TO CONNECT NEW CIRCUITS TO EXISTING NEARBY PANELBOARDS. CONTRACTOR SHALL REUSE EXISTING CIRCUITS MADE AVAILABLE BY DEMOLITION WHERE APPLICABLE. CONTRACTOR TO PROVIDE P TOUCH LABEL ON ALL NEW ELECTRICAL RECEPTACLES AND PROVIDE UPDATED TYPEDWRITTEN PANELBOARD SCHEDULE TO REFLECT NEW CONDITIONS. CONTRACTOR TO MARK-UP ALL NEW CIRCUIT DESIGNATIONS ON AS BUILT DRAWINGS.
- SECTIONS OF CORRIDOR LIGHTING SYSTEM SHALL BE CONNECTED TO EXISTING NON-SWITCHED NIGHT LIGHT CIRCUIT. EXACT LIGHT FIXTURES TO BE CONNECTED TO NIGHT LIGHT CIRCUIT SHALL BE CONFIRMED BY ENGINEER/CLIENT.

ELECTRICAL DRAWING NOTES

- PROVIDE FIRE ALARM MONITORING TO TRANSMIT SIGNALS TO THE FIRE DEPARTMENT AND PROVIDE A CERTIFICATE OF COMPLIANCE TO CAN/ULC-S561 IN ACCORDANCE WITH OBC DIVISION B, SENTENCE 3.2.4.7.(4). THE FOLLOWING WORK SHALL BE PROVIDED:

A. INSTALL A DEDICATED FIRE MONITORING PANEL SEPARATE FROM THE SECURITY ALARM SYSTEM POINTS.

B. INSTALL A FIRE-RATED CABINET COMPLETE WITH THE REQUIRED KEYPAD.

C. PROVIDE A DEDICATED, HARDWIRED 120 V CIRCUIT DIRECTLY TO THE FIRE MONITORING PANEL.

D. CLEARLY IDENTIFY THE DEDICATED BREAKER AT THE ELECTRICAL PANEL AND FIRE ALARM MONITORING PANEL.

E. PROVIDE DUAL-PATH COMMUNICATIONS TO THE MONITORING STATION USING BOTH CELLULAR AND IP COMMUNICATIONS.

F. PROVIDE THE REQUIRED MONITORING CALL-IN INFORMATION, INCLUDING THE MONITORING STATION AND SERVICE CONTACT NUMBERS.

CONFIGURE AND TEST THE SYSTEM TO MEET THE APPLICABLE ULC MONITORING REQUIREMENTS. COORDINATE ALL MONITORING SYSTEM REQUIREMENTS WITH THE BUILDING MONITORING SYSTEM PROVIDER, SECURITY.CA.
- PROVIDE NEW MOTION/OCCUPANCY SENSOR TO CONTROL LIGHTING IN THE UNIVERSAL WASHROOM IN ACCORDANCE WITH OBC DIVISION B, CLAUSE 3.8.3.12.(1)(k).

LIGHTING NOTES

- THE FOLLOWING ROOMS SHALL BE EQUIPPED WITH TAMPER RESISTANT LIGHT SWITCHES: ROOMS 2 AND WASHROOMS, 3 AND WASHROOMS, 4, 5, 6, 7, 8, 9, 10, 11, 12 AND WASHROOMS, 13 AND WASHROOMS AND GENERAL CHILD ACCESSIBLE CORRIDORS AND WASHROOMS IN CHILDCARE AREAS.
- EXISTING RELOCATED AND NEW LED LIGHT FIXTURES SHALL BE PROGRAMMED TO MEDIUM OUTPUT AND 3500K COLOUR SETTINGS.

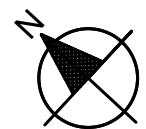
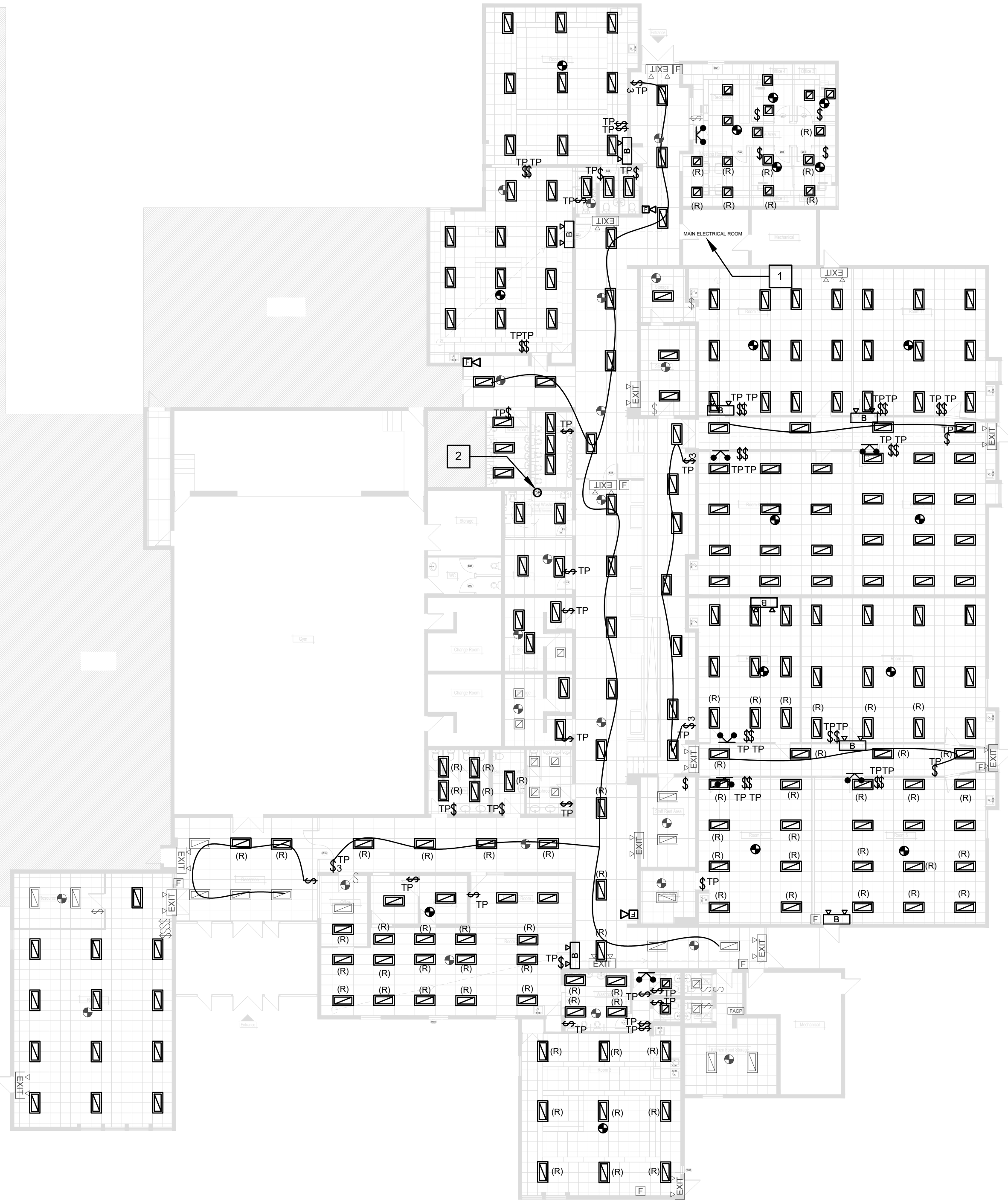
FIRE ALARM NOTES

- PROVIDE FIRE ALARM SYSTEM REVISIONS AS INDICATED. CONNECT TO EXISTING CIRCUIT. WIRING AND CONDUIT SIZE TO BE AS PER MANUFACTURER'S RECOMMENDATIONS. INSTALL TO CAN/ULC-S524 (INSTALLATION OF FIRE ALARM SYSTEMS). VERIFICATION TO BE PERFORMED BY FIRE ALARM TECHNICIAN. RECORD SYSTEM PERFORMANCE AS PER CAN/ULC-S537 (VERIFICATION OF FIRE ALARM SYSTEMS), AND SUBMIT REPORT TO ELECTRICAL CONSULTANT FOR REVIEW. INCLUDE ADDITIONAL VERIFICATION TO BE WITNESSED BY AUTHORITIES HAVING JURISDICTION. ALL FIRE ALARM DEVICES SHALL BE PROVIDED BY BASE BUILDING'S FIRE ALARM SYSTEM SERVICE PROVIDER.
- MANUFACTURER SHALL MAKE AN INSPECTION OF FIRE ALARM EQUIPMENT, DISTURBED BY THIS WORK, INCLUDING THOSE COMPONENTS NECESSARY TO DIRECT OPERATION OF SYSTEM, SUCH AS MANUAL STATIONS, THERMAL DETECTORS AND CONTROLS AS PER CAN/ULC-S537.
- ON COMPLETION OF INSPECTION AND WHEN ALL ABOVE CONDITIONS HAVE BEEN COMPLIED WITH, MANUFACTURER SHALL ISSUE TO THE OWNER:

a. COPY OF INSPECTING TECHNICIAN'S REPORT SHOWING LOCATION OF EACH DEVICE AND CERTIFYING TEST RESULTS OF EACH DEVICE.

b. CERTIFICATE OF VERIFICATION CONFIRMING THAT INSPECTION HAS BEEN COMPLETED AND SHOWING CONDITIONS UPON WHICH SUCH INSPECTION AND CERTIFICATION HAVE BEEN RENDERED.

c. PROOF OF LIABILITY INSURANCE FOR INSPECTION.
- INFORM GENERAL TRADE/OWNER OF ANY FIRE ALARM ZONE OR DEVICE WHICH IS DISCONNECTED OR RENDERED INOPERATIVE. TO PREVENT FALSE ALARMS, AT THE BEGINNING OF THE WORK DAY, RECONNECT ALL FIRE ALARM ZONES AND DEVICES AT END OF WORK DAY AND INFORM GENERAL TRADE/OWNER.
- FIRE ALARM SYSTEM: COMPLY WITH CAN/CSA-S524 (INSTALLATION OF FIRE ALARM SYSTEMS), CAN/CSA-S537 (VERIFICATION OF FIRE ALARM SYSTEMS), AND OBC.



01
E-04

EXISTING / NEW LIGHTING AND FIRE ALARM

SCALE: 1/16" = 1'-0"



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PROJECT NAME:
DAYCARE RENOVATION

ADDRESS:
BRIDGE STREET, OTTAWA, ONTARIO

DRAWING TITLE:
EXISTING / NEW LIGHTING AND FIRE ALARM

CLIENT PROJECT NO. N/A ZIYUTEC PROJECT NO. Z2026-008

DESIGN BY TL REVIEWED BY JD

DRAWN BY TL APPROVED BY GF

DATE: 17/07/26 SCALE: AS NOTED

SHEET: # 4 OF 5 E-04

SPECIFICATIONS:

1.0 GENERAL ELECTRICAL CONDITIONS

- 1. PROVIDE ALL NECESSARY MATERIAL, EQUIPMENT AND LABOUR FOR A COMPLETE AND OPERATIONAL INSTALLATION AS MENTIONED HEREIN OR INDICATED ON THE DRAWINGS.
- 2. THE WORK SHALL BE IN ACCORDANCE WITH LATEST RULES AND REGULATIONS OF ALL AUTHORITIES HAVING LEGAL JURISDICTION OVER THE WORK. INCLUDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.
- 3. THE ENGINEER RESERVES THE RIGHT TO APPROVE THE QUALITY OF MATERIAL AND WORKMANSHIP. ALSO TO CALL FOR ANY TESTS, WHICH HE DEEMS NECESSARY DURING THE PROGRESS OF THE WORK AND A COMPLETE TEST OF EACH SYSTEM AT THE COMPLETION OF THE WORK. THE COST OF SUCH TESTS IS NOT TO BE CONSIDERED AS ADDITIONAL TO CONTRACT (EXTRA).
- 4. ALL ITEMS OR SPECIFICATIONS RELATED TO THE SERVICES INDICATED ON THE DRAWINGS SHALL APPLY TO THE PROJECT.

2.0 CODES

- 1. WORK TO MEET OR EXCEED THE MINIMUM STANDARDS OF THE FOLLOWING:
 - A. ONTARIO ELECTRICAL SAFETY CODE, 2024, CSA STANDARDS AS ADOPTED AND AMENDED BY THE PROVINCIAL REGULATIONS AND ONTARIO BUILDING CODE 2024. ADHERE TO THE LATEST REVISED COPIES AND UPDATES.
 - B. LOCAL ELECTRICAL SUPPLY UTILITY CODES AND REGULATIONS.
 - C. CANULC-S524, STANDARDS FOR INSTALLATION OF FIRE ALARM SYSTEMS.
 - D. CANULC-S536, STANDARDS FOR TESTING AND INSECTION OF FIRE ALARM SYSTEMS.
 - E. CANULC-S537, STANDARDS FOR VERIFICATION OF FIRE ALARM SYSTEMS.
- 2. THE ABOVE CODES AND ANY ADDITIONAL REQUIREMENTS OF THE LOCAL OR PROVINCIAL AUTHORITY SHALL FORM AN INTEGRAL PART OF THIS SPECIFICATION AS IF WRITTEN IN FULL.

3.0 PERMITS AND INSPECTIONS

- 1. BE RESPONSIBLE TO APPLY FOR AND OBTAIN ALL PERMITS, INSPECTIONS, EQUIPMENT APPROVALS ETC. AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION (AHJ) OVER THIS WORK AND PAY FOR SAME. THESE COSTS SHALL BE INCLUDED IN THE TENDER PRICE.
- 2. DELIVER ALL PERMITS TO THE OWNER'S REPRESENTATIVE AS SOON AS THEY BECOME AVAILABLE.
- 3. EMPLOY QUALIFIED PERSONNEL ONLY.
- 4. ARRANGE FOR INSPECTION OF ALL ELECTRICAL BY THE ELECTRICAL SAFETY AUTHORITY INSPECTION DEPARTMENT ON COMPLETION OF THE WORK. PRESENT, TO THE OWNER, THE FINAL UNCONDITIONAL CERTIFICATE OF APPROVAL.

4.0 INSURANCE

- 1. CONTRACTOR SHALL MAINTAIN SUCH INSURANCE TO FULLY PROTECT BOTH THE OWNER AND THE CONTRACTOR FROM ANY AND ALL CLAIMS UNDER THE WORKMAN'S COMPENSATION ACT.

5.0 DISCREPANCIES

- 1. REVIEW ELECTRICAL AND OTHER DIVISION DOCUMENTS, VISIT THE SITE AND CHECK WORK SHOWN ON THE DRAWINGS AGAINST EXISTING CONDITIONS. IF DISCREPANCIES ARE NOTED BETWEEN DRAWINGS AND SITE CONDITIONS OBTAIN RULING FROM THE ELECTRICAL CONSULTANT BEFORE THE PRICING IS SUBMITTED OR ALLOW FOR THE MOST EXPENSIVE ALTERNATIVE IN THE TENDER PRICE.

6.0 AS BUILT DRAWINGS

- 1. MAINTAIN A SEPARATE SET OF WHITE PRINTS ON THE SITE. NOTE ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL DESIGN. TWO SETS OF THESE DRAWINGS WITH MARKUPS SHOWING THE "AS-BUILT" CONDITIONS SHALL BE FORWARDED TO THE OWNER AT THE COMPLETION OF THIS CONTRACT AND BEFORE APPLYING FOR FINAL PAYMENT.

7.0 SHOP DRAWINGS

- 1. SUBMIT ELECTRONIC COPIES OF THE MANUFACTURER'S SHOP DRAWINGS TO PROJECT MANAGER FOR REVIEW. THESE SHOP DRAWINGS SHALL CONSIST OF DISTRIBUTION EQUIPMENT, DISCONNECT SWITCHES, RECEPTACLES, FIRE ALARM DEVICES AND LIGHTING LUMINAIRES AND ANY OTHER SPECIAL SYSTEMS INCLUDING DEVICES AND WIRING DEVICES.
- 2. REVIEW OF THE SHOP DRAWINGS BY THE ENGINEER SHALL NOT ALLEVIATE THE ELECTRICAL CONTRACTOR FROM HIS CONTRACTUAL RESPONSIBILITY FOR ITS CORRECTNESS AND COMPLIANCE WITH THE CONTRACT DOCUMENTS, DIMENSIONS AND DESIGN DETAILS.

8.0 EXAMINATION OF SITE

- 1. VISIT THE SITE OF THE PROJECT AND FAMILIARIZE YOURSELF WITH ALL CONDITIONS PERTAINING TO THE WORK PRIOR TO SUBMITTING PRICING. NO ALLOWANCE WILL BE MADE FOR OBVIOUS CONSIDERATIONS WHICH MAY BE OVERLOOKED.
- 2. REPORT ANY DEVIATION OR DISCREPANCY AND/OR CONFLICTS TO THE ENGINEER IN WRITING PRIOR TO SUBMITTING TENDER.
- 3. SCHEDULE AND PERFORM ALL WORK TO MEET THE COMPLETION DATES AS SET OUT BY THE OWNER. COSTS OF ANY OVERTIME TO MEET THE SCHEDULE SHALL BE DEEMED TO BE INCLUDED IN THE TENDER PRICE.

9.0 CLEAN UP

- 1. BE RESPONSIBLE TO REMOVE ALL DEBRIS AND TO KEEP THE SITE CLEAN. STORE ALL WORK-RELATED EQUIPMENT AND MATERIALS OUT OF THE "PUBLIC EYE" AT THE END OF EACH WORKDAY.

10.0 RESPONSIBILITY

- 1. BE RESPONSIBLE FOR ELECTRICAL WORK UNTIL COMPLETION AND FINAL ACCEPTANCE, BY OWNER, FOR REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.

11.0 TESTING

- 1. PERFORM TEST ON EACH SYSTEM TO THE SATISFACTION OF THE ENGINEER AND SUBMIT TEST RESULTS FOR APPROVAL PRIOR TO THE FINAL ACCEPTANCE OF THE WORK.
- 2. GROUNDING SHALL BE AS REQUIRED BY ELECTRICAL SAFETY AUTHORITY CODE AND LOCAL UTILITY REQUIREMENTS.
- 3. FIRE ALARM SYSTEM SHALL BE TESTED AND INSPECTED AS PER CANULC-S536.
- 4. FIRE ALARM SYSTEM SHALL BE VERIFIED AS PER CANULC-S537.

12.0 GROUNDING

- 1. THE ELECTRICAL SYSTEM SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO ELECTRICAL CODE AND LOCAL UTILITY REQUIREMENTS.
- 2. WHERE TRANSFORMERS ARE USED, THE NEUTRAL POINT OF THE TRANSFORMER SHALL BE GROUNDED WITH AN INSULATED WIRE AS WELL AS THE ENCLOSURE.
- 3. PROVIDE A SEPARATE CODE GAUGE, SUPPLEMENTARY GROUND CONDUCTOR RUN IN EACH CONDUIT, TERMINATING AT GROUND BLOCK IN THE PANEL BOARD.
- 4. ENSURE GROUND CLAMP IS MECHANICALLY PROTECTED FROM ACCIDENTAL DAMAGE.

13.0 IDENTIFICATION

- 1. IDENTIFY ALL MAJOR PIECES OF EQUIPMENT SUCH AS PANELS, MOTOR STARTERS, SWITCHES, ETC WITH LAMACOID NAMEPLATES.
- 2. FOR PANELS, PROVIDE TYPED SCHEDULE IDENTIFYING BREAKER LOADS, PROVIDE LAMACOID NAMEPLATE ON THE PANEL COVER IDENTIFYING NAME, VOLTAGE, MAINS RATING AND SOURCE.
- 3. IDENTIFY BRANCH CIRCUIT WIRES AS PER CODE REQUIREMENTS.
- 4. FOR ALL RECEPTACLES AND LIGHT SWITCHES, PROVIDE LABEL ON COVERPLATE IDENTIFYING BRANCH CIRCUIT ASSIGNMENT.

14.0 GUARANTEE

- 1. CARRY OUT REMEDIAL WORK AT NO COST FOR ANY DEFECT IN MATERIAL, WORKMANSHIP AND/OR INSTALLATION.
- 2. RECTIFY ANY CODE VIOLATIONS WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

15.0 MATERIALS

- 1. ALL EQUIPMENT AND MATERIAL, UNLESS SPECIFICALLY NOTED OTHERWISE, SHALL BE NEW AND FREE OF BLEMISH OR DEFECT. ALL MATERIAL AND EQUIPMENT SHALL BE OF THE TYPE SUBJECT TO FACTORY MUTUAL UNDERWRITER'S LABORATORIES OF CANADA AND/OR CANADIAN STANDARDS ASSOCIATION INSPECTION AND SHALL BEAR UL/C OR CSA LABELS.

16.0 WIRE AND CABLE

- 1. UNLESS OTHERWISE NOTED CONDUCTORS FOR FEEDER AND BRANCH WIRING SHALL BE COPPER RW90. WIRE RATING SHALL BE AS REQUIRED ON SITE AND AS DICTATED BY ELECTRICAL SAFETY CODE. ALUMINIUM CONDUCTORS SHALL NOT BE USED.
- 2. THE MINIMUM PERMISSIBLE SIZE FOR BRANCH CIRCUIT WIRING SHALL BE #12 AWG.
- 3. WIRE #10 AWG AND SMALLER SHALL BE SOLID COPPER AND #8 AWG AND LARGER SHALL BE COPPER STRANDED.
- 4. ALL WIRING SHALL BE COLOUR CODED AS INDICATED AND SHALL BE IDENTIFIED SHOWING SIZE, VOLTAGE RATING AND INSULATION TYPE.
- 5. BRANCH CIRCUIT BREAKERS IN PANELS SHALL HAVE INTERRUPTING CAPACITY TO MEET OR EXCEED AVAILABLE SHORT CIRCUIT CURRENT LEVELS. BREAKERS PROTECTING FEEDER WIRING TO BE INSTALLED IN EXISTING PANELS SHALL MATCH PANEL TYPE AND MEET OR EXCEED AVAILABLE SHORT CIRCUIT CURRENT LEVELS.

17.0 CONDUIT AND FITTINGS

- 1. CONDUIT SIZES SHALL BE AS PER ONTARIO ELECTRICAL CODE AND SHALL NOT BE REDUCED WITHOUT AUTHORIZATION. CONDUITS IN FINISHED AREAS SHALL BE CONCEALED.
- 2. UNLESS OTHERWISE NOTED, CONDUITS FOR PANEL FEEDERS AND BRANCH CIRCUIT WIRING SHALL BE THINWALL (EMT). CONDUIT IN UNFINISHED AREAS SHALL BE RIGID GALVANIZED WHEN EMBEDDED USE APPROVED CONCRETE TIGHT FITTINGS.
- 3. CONDUITS INSTALLED OUTDOORS OR IN DAMP LOCATIONS SHALL BE LIQUIDTIGHT FLEXIBLE METAL CONDUIT AND SHALL BE PROVIDED WITH SEALING FITTINGS WHERE CONDUIT PASSES THROUGH OUTSIDE WALL AND OR ROOF. PVC CONDUITS SHALL NOT BE PERMITTED FOR THIS APPLICATION.
- 4. CLEAN INTERIOR OF ALL CONDUITS TO REMOVE ALL DEBRIS AND WATER AND REMOVE ANY BURRS PRIOR TO PULLING WIRES.
- 5. USE FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS, TRANSFORMERS AND ANY EQUIPMENT SUBJECT TO VIBRATION OR MOVEMENT.
- 6. PROVIDE SEPARATE INSULATED GROUND CONDUCTOR IN ALL CONDUITS, REGARDLESS OF TYPE.
- 7. FIRESTOPPING IS REQUIRED WHERE HOLES ARE DRILLED THROUGH FLOORS OR WALLS. HOLES SHALL BE PACKED AROUND CONDUIT (OR RACEWAY) AND SEALED WITH AN APPROVED CAULKING COMPOUND. ALL PENETRATIONS THROUGH FIRE SEPARATIONS TO BE FIRE STOPPED AS PER CBC. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL FIRE STOP ASSEMBLIES.
- 8. MINIMUM CONDUIT SIZE SHALL BE 13mm UNLESS OTHERWISE NOTED.
- 9. CONDUITS IN ACCESSIBLE SUSPENDED CEILING SPACE, IN STUD WALL CONSTRUCTION TO SUSPENDED CEILING SPACES (MAXIMUM 20 INCHES (0.5M) RUN PERMITTED) MAY BE "BX" TYPE, AC-90 FLEXIBLE ARMoured CABLE WITH "RW-90" CONDUCTORS AND BARE COPPER GROUND CONDUCTOR TO CSA C22.2 NO. 51. PROVIDE PROPER SQUEEZE TYPE CONNECTORS AND PLASTIC ANTI-SHORT BUSHINGS AT TERMINATIONS. SUPPORT "BX" IN CEILING SPACES AND IN STUD WALL CONSTRUCTION WITH STEEL 2 HOLE CABLE STRAPS TO CODE REQUIREMENTS.

18.0 PULL AND JUNCTION BOXES

- 1. BOXES SHALL BE CODE GAUGE AND SIZES TO MEET ELECTRICAL CODE REQUIREMENTS, NONCOMBUSTIBLE METAL OUTLET BOXES CONFORMING WITH CBC SHALL BE USED. THROUGHWALL AND "UTILITY TYPE" BOXES SHALL NOT BE USED.
- 2. PROVIDE BARRIERS IN BOXES WHERE DIFFERENT VOLTAGES ARE USED.
- 3. PROVIDE PULL BOXES ON CONDUIT RUNS AT 15.25M INTERVALS.
- 4. BOXES SHALL BE SUPPORTED INDEPENDENTLY OF CONDUIT.
- 5. BOXES INSTALLED OUTDOORS SHALL BE WEATHERPROOF TYPE WITH GASKET.
- 6. IDENTIFY ALL ELECTRICAL BOXES OF DIFFERENT SYSTEMS WITH A DIFFERENT COLOUR.

19.0 SUPPORT, BASES AND HANGERS

- 1. SUPPLY AND ERECT ANY SPECIAL STRUCTURAL WORK REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT. MOUNT EQUIPMENT REQUIRED TO BE SUSPENDED ABOVE FLOOR LEVEL ON A FRAME OR PLATFORM BRACKETED FROM THE WALL OR SUSPENDED ABOVE THE STRUCTURE OR CEILING. CARRY SUPPORTS TO EITHER THE CEILING OR THE FLOOR OR BOTH AS REQUIRED.
- 2. EMPLOY THE SERVICES OF A STRUCTURAL ENGINEER TO VERIFY THE STRENGTH OF WALL OR CEILING IN QUESTION.
- 3. HANGERS FOR ELECTRICAL CONDUITS SHALL BE GALVANIZED AFTER FABRICATION. DO NOT USE PERFORATED STRAPPING (GRABBER BARS) TO HANG CONDUITS.
- 4. EXPLOSIVE FASTENERS SHALL NOT BE USED WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER.

20.0 POWER DISTRIBUTION EQUIPMENT

- 1. THE POWER DISTRIBUTION EQUIPMENT SHALL BE AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- 2. DISCONNECT SWITCH SHALL BE QUICK BREAK, VOIDABLE COVER INTERLOCK LOOKABLE IN THE "OFF" POSITION WITH NEUTRAL BAR WHERE REQUIRED.
- 3. WITHSTAND RATING SHALL BE 8 TIMES THE CONTINUOUS CURRENT BREAK AT RATED VOLTAGE.

21.0 LUMINAIRES

- 1. PERFORM LIGHTING INSTALLATION AS INDICATED ON DRAWINGS.
- 2. 2x4 LED LIGHT FIXTURE COOPER 24CGTS-NUV SERIES (VOLTAGE TO BE CONFIRMED PRIOR TO ORDER).
- 3. 2x2 LED LIGHT FIXTURE COOPER HT FIXTURE COOPER 22CGTS-NUV SERIES (VOLTAGE TO BE CONFIRMED PRIOR TO ORDER).
- 4. EXIT SIGNS SHALL MEET ONTARIO BUILDING CODE REQUIREMENT. LED TYPE AND POWER CONSUMPTION SHALL BE NOT EXCESS 5W.

22.0 FIRE ALARM SYSTEM

- 1. THE NEW FIRE ALARM DEVICES SHALL BE THE SAME PRODUCT AS THE EXISTING FIRE ALARM SYSTEM AND SHALL BE FULLY COMPATIBLE WITH THE EXISTING BUILDING FIRE ALARM SYSTEM.
- 2. THE NEW INSTALLED FIRE ALARM DEVICES AND ASSOCIATED WIRING SHALL BE INSTALLED AS PER ULC-S524, THE ONTARIO ELECTRICAL CODE AND MANUFACTURER'S RECOMMENDATIONS.

23.0 INSTALLATION

- 1. CONFIRM DEVICE FINISHES, LOCATIONS AND MOUNTING HEIGHTS (PER ONTARIO ELECTRICAL CODE) WITH PROJECT COORDINATOR ON SITE PRIOR TO INSTALLATION.
- 2. BE RESPONSIBLE FOR PATCHING AND REPAIR OR EXISTING FINISHED SURFACES ASSOCIATED WITH THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT, CONDUIT ETC.
- 3. THE DRAWINGS ACCOMPANYING THIS SPECIFICATION ARE PRODUCED AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. DRAWINGS ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIM FOR EXTRA PAYMENT ON ACCOUNT OF THE DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS SHALL BE ALLOWED.
- 4. COORDINATE EXACT LOCATION AND RATING OF ALL MOTORS AND STARTERS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF CONDUIT AND OTHER REQUIREMENTS.

24.0 OPERATION AND MAINTENANCE MANUAL

- 1. AT CLOSE OF CONTRACT, PRIOR TO COMMISSIONING, PROVIDE BOTH ELECTRONIC PDF COPY AND A THREE-RING BINDER CONTAINING A LISTING OF ALL MAJOR ITEMS OF EQUIPMENT IN PROJECT (AND RELEVANT CATALOG NUMBERS).
- 2. LIST ADDRESSES AND TELEPHONE NUMBERS OF SUPPLIERS, WHERE APPLICABLE. INCLUDE MANUFACTURER DRAWINGS, SPECIFICATIONS, MAINTENANCE AND OPERATING INSTRUCTIONS AND RECOMMENDATIONS.
- 3. IDENTIFY NAME OF PROJECT AND ZIYUTEC PROJECT NUMBER, IN BOLD LETTERS, ON FRONT AND SPINE OF BINDER.

END OF SPECIFICATION



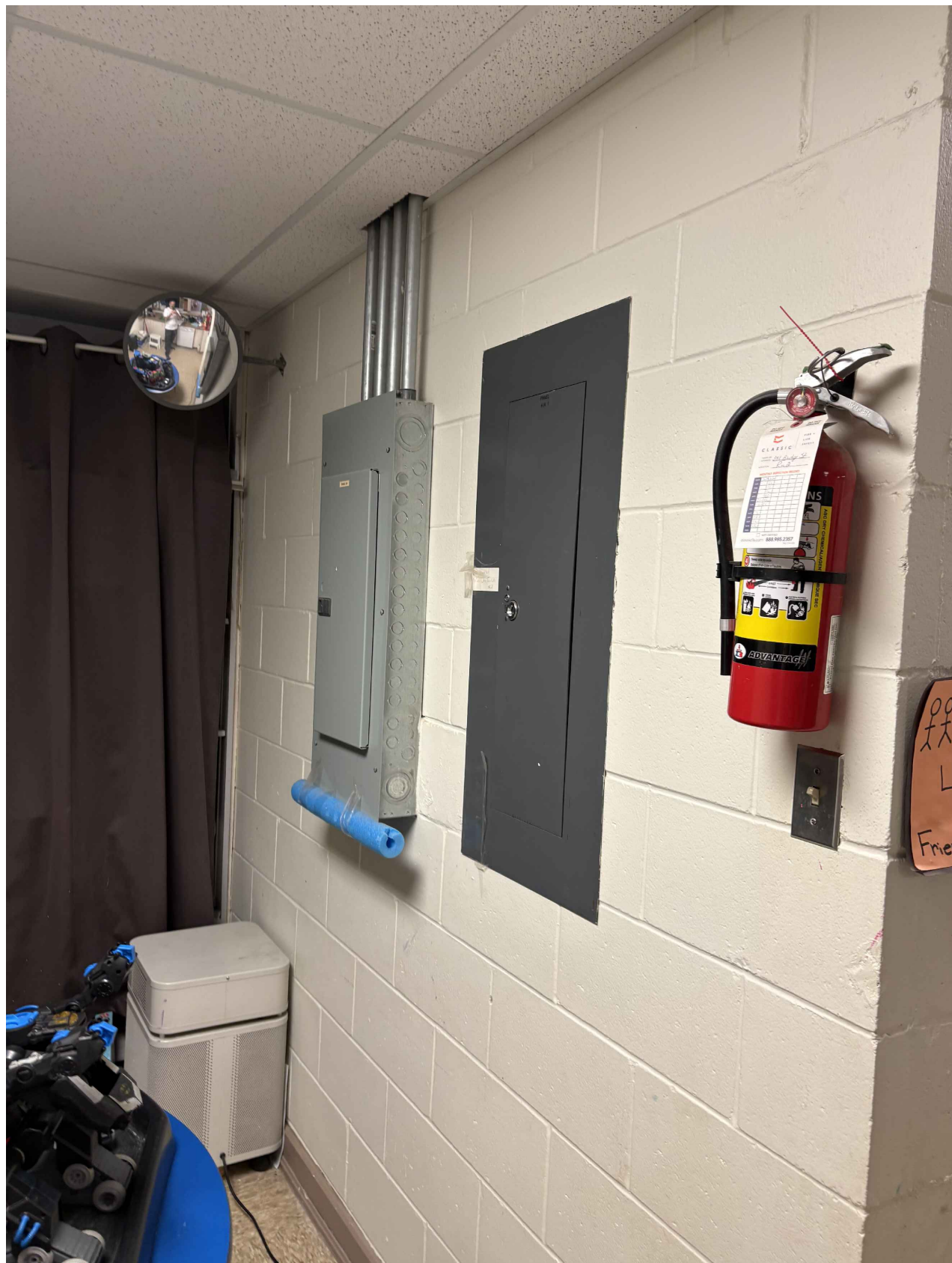
01
E-05
PANEL - NOTE 1
SCALE: NTS



03
E-05
PANEL NOTE 2 - PANEL 2 OF 2
SCALE: NTS



02
E-05
PANEL NOTE 2 - PANEL 1 OF 2
SCALE: NTS



04
E-05
PANEL NOTE 2 - VIEW OF BOTH PANELS
SCALE: NTS

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PRACTICE PERMIT NUMBER:
1000258



8		
7		
6		
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3	2026/10/02	RE-ISSUED FOR BUILDING PERMIT
2	2026/09/04	ISSUED FOR BUILDING PERMIT
1	2026/08/11	ISSUED FOR COORDINATION
NO.	YYYY/MM/DD	DESCRIPTION

PROJECT NAME:
DAYCARE RENOVATION

ADDRESS:
BRIDGE STREET, OTTAWA, ONTARIO

DRAWING TITLE:
ELECTRICAL SPECIFICATION

CLIENT PROJECT NO.	ZIYUTEC PROJECT NO.
N/A	Z2026-098
DESIGN BY TL	REVIEWED BY JO
DRAWN BY TL	APPROVED BY GF
DATE: 17/07/26	SCALE: AS NOTED
SHEET: # 5 OF 5	E-05