


MONTGOMERY SISAM ARCHITECTS INC.
ARCHITECTURAL

CROSSEY
ENGINEERING
A Salas O'Brien Company

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23511.E06

2S NURSE STATION

LAKESHORE LODGE
LONG-TERM CARE HOMES AND SERVICES
3197 LAKESHORE BLVD. W., ETOBICOKE



Long-Term Care Homes and Services Division

LL 2S NURSE STATION RENOVATION
3197 LAKESHORE BLVD. W., ETOBICOKE

GENERAL NOTES

- 1. THIS DRAWING IS A MASTER LEGEND DRAWING. SOME SYMBOLS MAY NOT APPEAR WITHIN THE DOCUMENTS NOR BE APPLICABLE TO THIS PROJECT. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO OBTAIN A FULL UNDERSTANDING OF THIS LEGEND.
- 2. ELECTRICAL DRAWINGS TO BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTURAL, STRUCTURAL, CIVIL, AND MECHANICAL PROJECT DOCUMENTS AT ALL TIMES. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE LATEST DOCUMENTS PRIOR TO BID SUBMISSION AND CONSTRUCTION COMMENCEMENT.
- 3. THE ELECTRICAL CONTRACTOR TO TAKE NOTE OF THE DRAWING SCALE[S] AND GOVERN THEMSELVES ACCORDINGLY.

SECURITY AND NURSE CALL SYSTEMS
GENERAL NOTES

- 1. ALL SECURITY AND NURSE CALL SYSTEMS WORK REQUIRED FOR THE PROJECT SHALL BE INCLUDED IN THE BASE BID PRICE:
 - a. THE SECURITY WORK MAY BE PERFORMED BY THE GENERAL CONTRACTOR'S ELECTRICAL OR SECURITY SUB-TRADE IN ACCORDANCE WITH CITY OF TORONTO APPROVED CORPORATE SECURITY VENDORS IN ACCORDANCE WITH CITY OF TORONTO STANDARDS. GENERAL CONTRACTOR TO COORDINATE THE SCOPE SPLIT BETWEEN ELECTRICAL AND SECURITY CONTRACTOR.
 - b. ALL SECURITY INTEGRATION AND COMMISSIONING SHALL BE PERFORMED BY ONE OF CITY OF TORONTO APPROVED CORPORATE SECURITY VENDORS.
 - c. ALL REMOVAL AND REINSTALLATION OF EXISTING NURSE CALL SYSTEM SHALL BE PERFORMED, TESTED AND VERIFIED BY ONE OF CITY OF TORONTO APPROVED NURSE CALL SUPPLIER/CONTRACTOR. REPROGRAM NURSE CALL SYSTEM AS REQUIRED.

ELECTRICAL DRAWING LIST

| Sheet Number | Sheet Name |
|--------------|--|
| E0.00 | |
| E0.00 | COVER PAGE |
| E0.01 | ELECTRICAL DRAWING LIST AND GENERAL NOTES |
| E0.02 | ELECTRICAL LEGEND PART 1 |
| E0.03 | ELECTRICAL LEGEND PART 2 |
| E0.04 | ELECTRICAL LEGEND PART 3 |
| E0.05 | ELECTRICAL SPECIFICATION PART 1 |
| E0.06 | ELECTRICAL SPECIFICATION PART 2 |
| E0.07 | ELECTRICAL SPECIFICATION PART 3 |
| E0.08 | ELECTRICAL SPECIFICATION PART 4 |
| E1.00 | |
| E1.01 | AREA OF WORK PLAN - LEVEL 2 |
| E1.02 | KEY PLAN - LEVEL 2 NURSE STATION |
| E2.00 | |
| E2.00 | ROOM 252 (EX FAMILY ROOM) - ELECTRICAL DEMOLITION LAYOUT |
| E2.01 | ROOM 253 (EX LOUNGE) - ELECTRICAL DEMOLITION LAYOUT |
| E2.02 | ROOM 256 (EX NURSE STATION) - ELECTRICAL DEMOLITION LAYOUT |
| E3.00 | |
| E3.00 | ROOM 252 (NEW MED RM) - ELECTRICAL LAYOUT |
| E3.01 | ROOM 253 (NEW NURSE STATION) - ELECTRICAL LAYOUT |
| E3.02 | ROOM 256 (NEW RESIDENT'S LOUNGE) - ELECTRICAL LAYOUT |
| E4.00 | |
| E4.00 | ELECTRICAL DETAILS |

| | | | |
|-----------|------------|------------------------------|----|
| 3 | 2024-04-26 | ISSUED FOR PERMIT AND TENDER | |
| 2 | 2024-04-12 | ISSUED FOR DESIGN SIGN-OFF | |
| 1 | 2023-11-24 | FOR OWNER'S REVIEW | |
| # | Date: | Revision: | By |
| revisions | | | |



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LL 2S NURSE STATION
RENOVATION



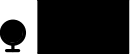




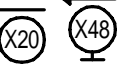



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ELECTRICAL DRAWING LIST
AND GENERAL NOTES






























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| scale: | N.T.S. |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |

drawing

E0.01

| LIGHTING LEGEND | |
|---|--|
|  | CEILING MOUNTED LUMINAIRE - REFER TO THE LUMINAIRE SCHEDULE |
|  | WALL MOUNTED LUMINAIRE - REFER TO THE LUMINAIRE SCHEDULE |
|  | LUMINAIRE CONNECTED TO EMERGENCY POWER CIRCUIT |
|  | LIGHT TRACK TYPE LT1. NUMBER IN BRACKETS DENOTES QUANTITY OF TRACK MOUNTED LUMINAIRES. |
|  | PENDANT LUMINAIRE |
|  | WALL WASHER LUMINAIRE |
|  | ACCENT LUMINAIRE |
|  | CEILING/WALL MOUNTED EXIT SIGN. 'X1''X55' DENOTES TYPE. REFER TO THE SPECIFICATION |
|  | SINGLE POLE, SINGLE THROW TOGGLE SWITCH ['3' DENOTES 3-WAY, 'LV' DENOTES LOW VOLTAGE, 'M' DENOTES MASTER, 'K' DENOTES KEY SWITCH] |
|  | GANGED TOGGLE SWITCHES - 2, 3, 4 GANG |
|  | DIMMER SWITCH ['F' DENOTES FLUORESCENT DIMMER] |

| POWER MISCELLANEOUS LEGEND | |
|----------------------------|--|
| SC | DENOTES SEPARATE CIRCUIT |
| SP | DENOTES SPLIT-WIRED |
| IG | DENOTES ISOLATED GROUND |
| GFI | DENOTES GROUNDED FAULT INTERRUPTER |
| TL | DENOTES TWISTLOCK |
| MW | DENOTES MOUNTED IN MILLWORK |
| CH | DENOTES DEVICE MOUNTED 150mm ABOVE COUNTER TOP |
| E | DENOTES EXISTING ITEM TO REMAIN |
| R | DENOTES EXISTING ITEM TO BE REMOVED |
| ER | DENOTES EXISTING ITEM TO BE RELOCATED |
| RE | DENOTES EXISTING ITEM IN RELOCATED POSITION |
| RW | DENOTES EXISTING DEVICE PROVIDED WITH NEW WIRING |
| ----- | HIDDEN LINE DENOTES EXISTING ITEM UNLESS OTHERWISE NOTED |

| POWER LEGEND | |
|---|---|
|  | 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED |
|  | 15/20A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE [T-SLOT], WALL MOUNTED |
|  | 15A-125V 2P-3W ISOLATED GROUND DUPLEX RECEPTACLE, WALL MOUNTED [SS-DENOTES SURGE SUPPRESSION TYPE] |
|  | 15A-125V 2P-3W GFI GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED |
|  | 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MOUNTED 150mm ABOVE COUNTER TOP |
|  | 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED |
|  | 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, SPLIT WIRED, WALL MOUNTED 150mm ABOVE COUNTER TOP |
|  | 15A-125V 2P-3W GROUNDED TWO [2] GANGED RECEPTACLES [QUADRUPLEX], WALL MOUNTED |
|  | 15A-125V 2P-3W GROUNDED DUPLEX RECEPTACLE, WALL MTD - DEDICATED CIRCUIT |
|  | 120V CONNECTION TO EQUIPMENT |
|  | 208V, 1PH CONNECTION TO EQUIPMENT |
|  | 208V, 3PH CONNECTION TO EQUIPMENT |
|  | DISCONNECT SWITCH |
|  | THERMOSTAT, SUPPLIED BY THE MECHANICAL CONTRACTOR, INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR |
|  | CONTACTOR c/w 120V POWER CONNECTION |
|  | PUSHBUTTON STATION, SUPPLIED BY OTHERS, SINGLE GANG BACKBOX AND FINAL TERMINATION BY THE ELECTRICAL CONTRACTOR [H/C DENOTES HANDICAPPED DOOR PUSHPLATE] |
|  | EMERGENCY POWER OFF BUTTON c/w CLEAR LEXAN PROTECTIVE COVER |
|  | PANELBOARD, RECESSED/SURFACE MOUNTED. REFER TO PANELBOARD SCHEDULES. |
| PP-2A1 | TYPICAL DESIGNATIONS FOR POWER PANEL ARE AS FOLLOWS: |
|  | FLOOR [B=BASEMENT 1=GROUND FLOOR, 2=SECOND FLOOR, S=SITE] |
|  | DESIGNATION [A-Z=NORMAL POWER, E,F,X,Y=EMERGENCY POWER, U=UPS] |
|  | VOLTAGE [2=120/208V, 4=277/480V, 6=347/600V] |
|  | MS - DENOTES MAIN SWITCHBOARD |
|  | DP - DENOTES DISTRIBUTION PANEL |
|  | MDP - DENOTES MECHANICAL DISTRIBUTION BOARD/PANEL |
|  | MCC - DENOTES MOTOR CONTROL CENTRE |
|  | LP - DENOTES LIGHTING PANEL |
|  | PP - DENOTES POWER/RECEPTACLE PANEL |
|  | RP - DENOTES RELAY PANEL |
|  | SP - DENOTES SPLITTER |

| | | | |
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LL 2S NURSE STATION





RENOVATION














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ELECTRICAL LEGEND PART 1

| | |
|----------|------------|
| scale: | N.T.S. |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |
| drawing | |

| SECURITY LEGEND | |
|---|--|
|  | 1 x LENSE SECURITY CAMERA, CEILING MOUNTED c/w 1 x UTP CABLE |
|  | 4 x LENSE SECURITY CAMERA - 360 DEGREE, CEILING MOUNTED c/w 1 x UTP CABLE |
|  | 1 x LENSE SECURITY CAMERA - 360 DEGREE FISH EYE, CEILING MOUNTED c/w 1 x UTP CABLE |
|  | ELECTRIC STRIKE |
|  | ELECTRIC LOCK |
|  | MAGNETIC LOCK |
|  | INTRUSION MOTION DETECTOR |
|  | DOOR RELEASE MOTION SENSOR |
|  | DOOR CONTACT |
|  | CARD READER - WALL MOUNTED |
|  | KEY PAD - WALL MOUNTED |
|  | CARD READER AND KEY PAD COMBINATION DEVICE - WALL MOUNTED |
|  | PUSH-TO-EXIT BUTTON - WALL MOUNTED |
|  | KEY SWITCH - WALL MOUNTED |
|  | PANIC BUTTON - WALL MOUNTED |

| AUDIO / VIDEO SYSTEM LEGEND | |
|---|--|
|  | CEILING MOUNTED SPEAKER. BACK BOX BY THE ELECRICAL CONTRACTOR |
|  | WALL MOUNTED SPEAKER. BACK BOX BY THE ELECRICAL CONTRACTOR |
|  | TV OUTLET - CEILING MOUNTED c/w 2 x UTP CABLES IN 27mm CONDUIT BACK TO NEAREST COMMUNICATION ROOM / CLOSET OR LOCAL CABLE TRAY |
|  | TV OUTLET - WALL MOUNTED c/w 2 x UTP CABLES IN 27mm CONDUIT BACK TO NEAREST COMMUNICATION ROOM / CLOSET OR LOCAL CABLE TRAY |

| TELECOMMUNICATION LEGEND | |
|---|--|
|  | TELECOMMUNICATION OUTLET - WALL MOUNTED c/w 27mm CONDUIT BACK TO NEAREST COMMUNICATION ROOM / CLOSET OR LOCAL CABLE TRAY |
|  | DATA OUTLET - WALL MOUNTED c/w 1 x UTP CABLE IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE. |
|  | DATA OUTLET - WALL MOUNTED c/w 2 x UTP CABLES IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE. |
|  | DATA OUTLET - WALL MOUNTED c/w 3 x UTP CABLES IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE. |
|  | DATA OUTLET - WALL MOUNTED c/w 4 x UTP CABLES IN CONDUIT BACK TO NEAREST TELECOMMUNICATION ROOM. SIZE CONDUIT, BASED ON 40% CONDUIT FILL. REFER TO CONDUIT FILL TABLE. |
|  | SURFACE MOUNTED DATA MULTI-OUTLET RACEWAY SYSTEM c/w CONDUIT BACK TO NEAREST COMMUNICATION ROOM / CLOSET OR LOCAL CABLE TRAY |
|  | SURFACE MOUNTED TEL/DATA MULTI-OUTLET RACEWAY SYSTEM c/w CONDUIT BACK TO NEAREST COMMUNICATION ROOM / CLOSET OR LOCAL CABLE TRAY |
|  | WIRELESS ACCESS POINT [DATA] c/w 2 x UTP CABLES, WALL MOUNTED |
|  | WIRELESS ACCESS POINT [DATA] c/w 2 x UTP CABLES, CEILING MOUNTED |
|  | WIRELESS ACCESS POINT [DATA] c/w ENCLOSURE TYPE 1 |
|  | WIRELESS ACCESS POINT [DATA] c/w ENCLOSURE TYPE 2 |
|  | WIRELESS ACCESS POINT [DATA] c/w ENCLOSURE TYPE 3 |
|  | DATA CABLING CONSOLIDATION POINT c/w 53mm CONDUIT, BACK TO NEAREST COMMUNICATION ROOM |

| NURSE CALL SYSTEM LEGEND | |
|---|--|
|  | NURSE CALL SYSTEM EMERGENCY/BATHROOM/WASHROOM STATION |
|  | NURSE CALL SYSTEM STAFF/DUTY STATION |
|  | NURSE CALL SYSTEM NURSE ASSIST STATION |
|  | NURSE CALL SYSTEM CONSOLE [MASTER STATION] |
|  | NURSE CALL SYSTEM CONTROL PANEL c/w POWER SUPPLY AND BACKUP POWER. |
|  | NURSE CALL ANNUNCIATOR STATION |
|  | DEDICATED PHONE LINE TO CENTRAL AMBULANCE DISPATCH |
|  | NURSE CALL DOME LIGHT CEILING MOUNTED |
|  | NURSE CALL DOME LIGHT WALL MOUNTED |

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LL 2S NURSE STATION
RENOVATION

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ELECTRICAL LEGEND PART 2

| | |
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| scale: | N.T.S. |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |

drawing

E0.03

| MAXIMUM NUMBER OF DATA CABLES BASED UPON ALLOWABLE 40% FILL | | | | | | |
|---|--------------------------------------|------------|------------|------------|------------|-------------|
| CONDUIT TRADE SIZE | CABLE OUTER DIAMETER [OD], mm [inch] | | | | | |
| | 5.6 [0.22] | 6.1 [0.24] | 7.4 [0.29] | 7.9 [0.31] | 9.4 [0.37] | 13.5 [0.53] |
| 16 [1/2] | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 [3/4] | 4 | 3 | 2 | 2 | 1 | 0 |
| 27 [1] | 7 | 6 | 3 | 3 | 2 | 1 |
| 35 [1 1/4] | 12 | 10 | 6 | 4 | 3 | 1 |
| 41 [1 1/2] | 16 | 15 | 7 | 6 | 4 | 2 |
| 53 [2] | 22 | 20 | 14 | 12 | 7 | 4 |
| 63 [2 1/2] | 36 | 30 | 17 | 14 | 12 | 6 |
| 78 [3] | 50 | 40 | 20 | 20 | 17 | 7 |
| 91 [3 1/2] | - | - | - | - | 22 | 12 |
| 103 [4] | - | - | - | - | 30 | 14 |
| | | | | | | |

| OUTER DIAMETER OF DATA CABLES BY CATEGORY UNSHIELDED TWISTED PAIR [UTP] | | | | | | |
|---|--------|--------------|-----------|--------------|---------|-------------|
| CABLE TYPE | BELDEN | | COMMSCOPE | | PANDUIT | |
| | PART # | OD, mm [in] | PART # | OD, mm [in] | PART # | OD, mm [in] |
| CAT6A - 4 PAIR, UTP, PVC JKT, FT4 | 10GX12 | 7.5 [0.295] | CS44R | 7.2 [0.285] | TX6A | 6.6 [0.26] |
| CAT6A - 4 PAIR, UTP, PVC JKT, FT6 | 10GX13 | 7.5 [0.295] | CS44P | 7.2 [0.285] | TX6A | 5.8 [0.23] |
| CAT6 - 4 PAIR, UTP, PVC JKT, FT4 | 2412 | 5.69 [0.224] | CS30CM | 5.59 [0.22] | TX6000 | 6.2 [0.243] |
| CAT6 - 4 PAIR, UTP, PVC JKT, FT6 | 2413 | 5.69 [0.224] | CS34P | 5.46 [0.215] | TX6000 | 5.2 [0.205] |
| CAT5E - 4 PAIR, UTP, FT4 | 1583A | 4.83 [0.190] | CS24CM | 4.90 [0.193] | TX5E | 5.3 [0.21] |
| CAT5E - 4 PAIR, UTP, FT6 | 1585A | 4.83 [0.190] | CS24P | 4.88 [0.192] | TX5E | 4.8 [0.189] |

FIRE ALARM SYSTEM LEGEND (FOR REFERENCE)

- FIRE ALARM STROBE LIGHT - WALL MOUNTED
- FIRE ALARM STROBE LIGHT - CEILING MOUNTED
- FIRE ALARM SPEAKER - CEILING MOUNTED
- FIRE ALARM SPEAKER - WALL MOUNTED
- FIRE ALARM HORN SPEAKER - WALL MOUNTED
- FIRE ALARM HORN SPEAKER - CEILING MOUNTED
- FIRE ALARM MANUAL PULL STATION c/w AUXILIARY CONTACT AND CLEAR LEXAN PROTECTIVE COVER
- FIRE ALARM IONIZATION SMOKE DETECTOR - CEILING MOUNTED
- FIRE ALARM IONIZATION SMOKE DETECTOR - WALL MOUNTED
- FIRE ALARM 135 DEGREE RATE OF RISE THERMAL DETECTOR - CEILING MOUNTED
- FIRE ALARM 135 DEGREE RATE OF RISE THERMAL DETECTOR - WALL MOUNTED
- FIRE ALARM CENTRAL ALARM CONTROL FACILITY c/w POWER CONNECTIONS
- FIRE ALARM CONTROL PANEL c/w POWER CONNECTION
- FIRE ALARM ANNUNCIATOR c/w POWER CONNECTION
- FIRE ALARM SYSTEMS NODE PANEL c/w POWER CONNECTION
- FIRE ALARM CONNECTION TO ELECTRIC DOOR HOLDER. ELECTRIC DOOR HOLDER SUPPLIED BY DIV.8, INSTALLED AND WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR.

MISCELLANEOUS LEGEND

- r/l

DENOTES RAISE - LOWER SWITCH
- K

DENOTES KEY OPERATED
- PL

DENOTES ON/OFF SWITCH c/w PILOT LIGHT
- WG

DENOTES WIRE GUARD
- H/C

DENOTES HANDICAP PUSH BUTTON
- EC

DENOTES EMPTY CONDUIT
- RB

DENOTES RELAY BASE
- c/w

DENOTES COMPLETE WITH

| | | | |
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ELECTRICAL LEGEND PART 3

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| scale: | N.T.S. |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |

drawing

E0.04

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ELECTRICAL SPECIFICATION

ELECTRICAL GENERAL REQUIREMENTS

1. DIVISION 1 GENERAL INSTRUCTIONS SHALL BE READ IN CONJUNCTION WITH AND FORM PART OF THIS SPECIFICATION.
2. SUPPLY AND INSTALL ALL ITEMS, ARTICLES, MATERIAL, OPERATIONS AND INCLUDE ALL LABOUR, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE ALL INSTALLATIONS SHOWN ON THE DRAWINGS. RENDER A COMPLETE AND OPERATIONAL INSTALLATION. TEST AND VERIFY ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT AND INSTRUCT OWNER'S REPRESENTATIVE IN THE OPERATION OF THE EQUIPMENT.
3. WORKMANSHIP AND METHODS OF INSTALLATION SHALL BE OF BEST STANDARDS AND PRACTICE. WORK SHALL BE PERFORMED BY LICENSED TRADESMAN SKILLED IN THE TYPE OF WORK TO BE PERFORMED.
4. PROVIDE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE GOVERNMENT CODES, LOCAL BY-LAWS, UNDERWRITER'S REGULATIONS BASE BUILDING STANDARDS, CONTRACT DOCUMENTS AND ALL AUTHORITIES HAVING JURISDICTION. ALL MATERIALS & METHOD OF INSTALLATION TO CONFORM TO THE LATEST EDITION OF THE ELECTRICAL SAFETY CODE AND BULLETINS. APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, FEES, CONNECTIONS, INSPECTIONS, LICENSES CERTIFICATES FOR CHARGES NECESSARY INCLUDING ALL PROVINCIAL TAX AND HST BEFORE PROCEEDING WITH ANY WORK.
5. PRIOR TO TENDER SUBMISSION VISIT AND EXAMINE THE SITE, LOCAL CONDITIONS AND THE CONTRACT DOCUMENTS. MAKE ALLOWANCE FOR ANY RE-ROUTING OF EXISTING AND/OR NEW SERVICES AND EQUIPMENT IN THE TENDER PRICE. AFTER EXAMINING ALL THE ABOVE AGAINST THE PLANS, SPECIFICATIONS AND TERMS OF THE CONTRACT, THE CONTRACTOR MUST SATISFY HIMSELF THAT THE PROPOSED INSTALLATION CAN BE CARRIED OUT AS INTENDED. FAILURE TO OBSERVE THE ABOVE WILL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY.
6. THE DRAWINGS SHOW THE GENERAL INTENT OF THE WORK ONLY AND DO NOT SHOW ALL DETAILS OF THE INSTALLATION. DO NOT SCALE DRAWINGS. OBTAIN ALL DIMENSIONS OF THE DEVICES, FIXTURES EQUIPMENT, ETC., FROM FIELD MEASUREMENTS AND ARCHITECTURAL DRAWINGS.
7. REPORT TO THE CONSULTANT ALL AMBIGUITIES, DISCREPANCIES, OMISSIONS, ERRORS AND DEPARTURES FROM BUILDING CODE, ELECTRICAL CODE, BY-LAWS AND/OR FROM GOOD PRACTICE PRIOR TO TENDER CLOSING. THE TENDER DOCUMENTS SHALL BE READ IN CONJUNCTION WITH THE DOCUMENTS OF ALL TRADES TO PROVIDE A COMPLETE OVERVIEW OF THE ENTIRE SCOPE. WHERE DIFFERENCES OCCUR BETWEEN PLANS AND RISER DIAGRAMS OR SCHEMATICS, THE MAXIMUM CONDITIONS SHALL GOVERN.
8. COORDINATE THE ROUTING AND INSTALLATION OF ALL ELECTRICAL SERVICES WITH THE WORK AND COOPERATION OF ALL OTHER TRADES, STRUCTURAL INTERFERENCES AND EXISTING CONDITIONS PRIOR TO ROUGHING-IN DEVICES, CONDUIT, ETC., TO AVOID CONFLICT. IF THERE IS INTERFERENCE, RELOCATE DEVICES TO SUIT WITHOUT ADDITIONAL COST TO THE CONTRACT.
9. UPON COMPLETION OF THE WORK, SUBMIT DIGITAL ELECTRICAL AS-BUILT DRAWINGS IN AUTOCAD FORMAT TO THE CONSULTANT FOR REVIEW.
10. AT THE COMPLETION OF THE WORK, SUBMIT DIGITAL COPIES OF ELECTRICAL MAINTENANCE MANUALS TO THE CONSULTANT FOR REVIEW. ELECTRICAL MANUALS SHALL INCLUDE THE FOLLOWING; COPIES OF ALL REVIEWED SHOP DRAWINGS, WARRANTY CERTIFICATE, LIST OF SUPPLIERS AND CONTACT INFORMATION, FINAL ESA CERTIFICATE, FIRE ALARM VERIFICATION REPORT, AND ALL OTHER RELEVANT TEST REPORTS.
11. TENDER SHALL BE PREPARED ONLY ON THE BASIS OF SPECIFIED MATERIAL AND EQUIPMENT. ANY ALTERNATIVES SUGGESTED SHALL BE SUBMITTED PRIOR TO CONSTRUCTION AND SHALL BE ACCOMPANIED BY ALL DATA REQUIRED TO EVALUATE THE ALTERNATIVE. DURING CONSTRUCTION, ALTERNATIVES WILL ONLY BE CONSIDERED IF TENDERED PRODUCTS ARE UNOBTAINABLE AND WRITTEN PROOF IS SUBMITTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PERFORMANCE AND EXTRA COST OR LIABILITY OF ALL SUBSTITUTIONS AND ALTERNATIVES.
12. ANY PRODUCT NOT SPECIFICALLY SPECIFIED SHALL BE A QUALITY CONSISTENT WITH BASE BUILDING PRODUCTS AND THE CONTRACT DOCUMENTS.
13. PROVIDE A WRITTEN WARRANTY FOR ALL LABOUR, MATERIALS AND EQUIPMENT IN THIS CONTRACT, FOR A PERIOD OF TWO (2) YEAR COMMENCING AT COMPLETION OF CONTRACT. PROVIDE LABOUR AND MATERIALS TO REPAIR OR REPLACE ANY DEFECTS AT NO EXTRA COST TO THE OWNER.
14. ANY COSTS FOR PREMIUM TIME OUTSIDE THE NORMAL WORKING HOURS TO COMPLETE THE WORK ON SCHEDULE AND TO MAINTAIN ALL EXISTING ELECTRICAL SYSTEMS IN OPERATION SHALL BE INCLUDED IN THE TENDER PRICE.
15. PROVIDE A COMPLETE BREAKDOWN OF MATERIALS, EQUIPMENT AND LABOUR COSTS WITH EACH SUBMISSION FOR EXTRA OR DELETED WORK. EACH COMPONENT OF THE EXTRA OR CREDITED WORK SHALL BE SHOWN WITH INDIVIDUAL MATERIAL AND LABOUR COSTS AND SUBMITTED WITH THE BREAKDOWN.
16. ALL SHUTDOWNS OF EXISTING BASE BUILDING SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. INCLUDE COST OF PREMIUM TIME IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS NECESSARY TO PERFORM WORK DURING SHUTDOWNS AND PAY FOR ANY COSTS INCURRED. ALLOW 10 WORKING DAYS NOTICE FOR ALL ELECTRICAL SHUTDOWNS. RESCHEDULE SHUTDOWNS WHERE NECESSARY TO COORDINATE WITH OWNER'S REQUIREMENTS.
17. VERIFY ON SITE, EXISTING CIRCUITS USED, SPARE CIRCUITS AND SPACES AVAILABLE. PROVIDE ADDITIONAL BREAKERS AND CIRCUITS NECESSARY WHERE EXISTING PANELS ARE TO BE REUSED.
18. PROVIDE ALL CLEAN-UP, LIFTING, STORAGE, CUTTING, CORING, PATCHING AND FLASHING AS REQUIRED. OBTAIN PERMISSION AND COORDINATE ANY PENETRATIONS THROUGH FLOOR SLAB OR STRUCTURE.

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LL 2S NURSE STATION RENOVATION

3197 LAKESHORE BLVD. W., ETOBICOKE

ELECTRICAL SPECIFICATION PART 1

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| scale: | N.T.S. |
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| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |

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ELECTRICAL SPECIFICATION (CONTINUATION)

19. PROVIDE X-RAY OF SLAB PRIOR TO SAWCUTTING OR CORE-DRILLING. ALL X-RAYING SHALL BE DONE AFTER HOURS AND ONLY BY PERSONNEL QUALIFIED IN THE USE OF THE TYPE OF EQUIPMENT. NO ALLOWANCE WILL BE MADE LATER FOR EXPENSES INCURRED THROUGH THE FAILURE OF PERFORMING THESE X-RAYS. ALL FLOOR SAWCUTTING AND DRILLING REQUIRED FOR ELECTRICAL SERVICES ARE TO BE PERFORMED WITHIN HOURS APPROVED BY THE OWNER. PRIOR WRITTEN NOTICE OF 48-HOURS MUST BE GIVEN TO THE OWNER. CONFIRM LOCATION WITH ARCHITECTURAL AND STRUCTURAL PRIOR TO ANY X-RAYING OR CUTTING. PATCH AND SEAL ALL OPENINGS IN FLOOR, WALLS AND PARTITIONS. IF FLOORS, WALL OR PARTITIONS ARE FIRE RATED, PATCH AND SEAL PENETRATIONS WITH FIRE RESISTANT INSULATION AND APPROVED FIRE STOP SYSTEM.
20. BE RESPONSIBLE FOR CARE OF THE BUILDING. CONTRACTOR SHALL SEAL OFF EACH AREA AS WORK IS BEING PERFORMED, SO AS NOT TO DISTURB DAY TO DAY OPERATION. ACCESS TO WASHROOMS, ELEVATORS, STAIRS, ETC. MUST REMAIN OPEN. CLEAN UP ALL DEBRIS DAILY AND REMOVE FROM THE SITE ON OR BEFORE COMPLETION OF CONTRACT.
21. ALL MATERIALS ARE TO BE NEW SPECIFICATION GRADE AND HAVE CSA APPROVAL LABELS.
22. ELECTRICAL EQUIPMENT SHALL BE PROVIDED WITH SUITABLE ENCLOSURES FOR SPRINKLERED AREAS.
23. CONTRACTOR TO MAKE GOOD ANY SURFACES OR FINISHES DAMAGED AS A RESULT OF ELECTRICAL ALTERATIONS. REPLACE CEILING TILES DAMAGED BY CONSTRUCTION WITH NEW TO MATCH EXISTING.
24. PROVIDE A COMPLETE TYPED-OUT DIRECTORY OF CONNECTED LOADS TO ALL NEW AND EXISTING PANELS BEING USED. CIRCUIT NUMBERS SHOWN ON DRAWINGS ARE FOR GROUPING PURPOSES ONLY. BALANCE LOADS ON PANELS TO WITHIN 10 % ACROSS PHASES.
25. PROVIDE LAMACOID NAMEPLATES WITH WHITE LETTERS ON BLACK BACKGROUND FOR ALL EQUIPMENT ON NORMAL POWER AND LAMACOID NAMEPLATES WITH WHITE LETTERS ON RED BACKGROUND FOR ALL EQUIPMENT ON EMERGENCY POWER.
26. PROVIDE LAMACOID NAMEPLATES INDICATING PANEL NAME AND CIRCUIT NUMBER ON ALL RECEPTACLES.
27. ALL ELECTRICAL OUTLET BOXES, JUNCTION BOXES, ETC. SHALL BE LOCATED IN ACCESSIBLE CEILING. WHERE EXISTING DEVICES AND/OR OUTLET BOXES ARE TO REMAIN ABOVE DRYWALL CEILING, RELOCATE DEVICES OR PROVIDE ACCESS HATCH(ES) (WHICHEVER METHOD IS ACCEPTABLE TO ARCHITECT). PROVIDE ACCESS HATCH(ES) WHERE REQUIRED FOR NEW EQUIPMENT BEING PROVIDED.
28. PROVIDE FLUSH MOUNTED ACCESS PANELS FOR ALL CONCEALED ELECTRICAL EQUIPMENT REQUIRING ACCESS. FINISH OF ACCESS PANELS SHALL BE SUITABLE FOR WALL OR CEILING FINISHES WHERE ACCESS PANELS ARE TO BE INSTALLED. REVIEW LOCATIONS OF ALL ACCESS PANELS WITH CONSULTANT PRIOR TO INSTALLATION.

MECHANICAL EQUIPMENT WIRING

1. ALL ELECTRICAL DISCONNECT SWITCHES AND ALL MANUAL OR AUTOMATIC STARTERS FOR MECHANICAL EQUIPMENT SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. CO-ORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ALL DEVICES TO AVOID ANY CONFLICT. IF THERE IS CONFLICT, RELOCATE DEVICES WITHOUT EXTRA COST TO THE OWNER.
2. ALL LINE AND LOAD SIDE POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT AND MOTORS. ALL CONTROL WIRING SHALL BE BY MECHANICAL CONTRACTOR..
3. ALL VARIABLE FREQUENCY DRIVES SHALL BE PROVIDED BY MECHANICAL CONTRACTOR ALL LINE AND LOAD SIDE POWER WIRING SHALL BE BY THE ELECTRICAL CONTRACTOR. PROVIDE LOCAL DISCONNECT SWITCHES FOR ALL MECHANICAL EQUIPMENT AND MOTORS. COORDINATE LOCATIONS OF ALL VFD'S WITH MECHANICAL CONTRACTOR.
4. WIRING BETWEEN VFD'S AND MOTORS SHALL BE VFD TYPE CABLE (NEXANS DRIVERX).

FIRE SEAL

1. MAINTAIN THE INTEGRITY OF ALL FIRE SEPARATIONS. PROVIDE ALL NECESSARY CSA AND ULC LISTED PRODUCTS WHICH ARE REQUIRED TO GO IN AND AROUND CONDUITS OR CABLES THROUGH FIRE RATED ASSEMBLIES, TO RETAIN THE FIRE RATING OF THESE ASSEMBLIES.
2. WHERE CONDUITS OR SLEEVES PENETRATE FIRE RATED ASSEMBLIES SUCH AS BETWEEN THE CORRIDOR AND ANY ROOM PROVIDE FIRE STOPPING SEALS.
3. PACK THE SLEEVES, CONDUITS AND AROUND THE CONDUITS FOR A COMPLETE SEAL.
4. ACCEPTED FIRE SEAL LIQUID OR PUTTY TYPE SHALL ONLY BE PROVIDED BY DOW CORNING, 3M OR TREMCO. MINERAL WOOL FIBRE SHALL NOT BE USED.

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RENOVATION

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ELECTRICAL SPECIFICATION
PART 2

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CONDUIT AND WIRING

1. PROVIDE CONCEALED CONDUIT FOR ALL WIRING UNLESS OTHERWISE NOTED. SECURE CONDUIT TO UNDERSIDE OF FLOOR SLAB, STRUCTURE OR OTHER MEANS OF INDEPENDENT SUPPORT, DO NOT USE CEILING SYSTEM TO SUPPORT CONDUITS.
2. AC90 (BX) CABLE CAN BE USED IN DRYWALL PARTITIONS, AND FOR FINAL CONNECTION TO LIGHTING FIXTURES IN CEILING SPACE. MAXIMUM LENGTH OF DROP CABLE TO LIGHTING FIXTURE SHALL NOT EXCEED 1500mm.
3. ALL WIRING SHALL BE COPPER RATED 90C, RW90 TYPE AND MINIMUM WIRE SIZE FOR BRANCH WIRING SHALL BE #12 AWG COPPER, #10 AWG TO BE USED IF DISTANCE BETWEEN PANEL AND FIRST OUTLET EXCEEDS 25M. MAXIMUM VOLTAGE DROP TO BE NO MORE THAN 3%.
4. PROVIDE A SEPARATE GROUND WIRE FOR EACH CONDUIT.
5. PROVIDE A SEPARATE NEUTRAL WIRE FOR EACH CIRCUIT INDICATED.
6. ALL ADDITIONAL CONDUITS AND WIRING REQUIRED FOR THIS MODIFICATION SHALL BE NEW. DO NOT REUSE REMOVED CONDUITS AND WIRING UNLESS APPROVED BY CONSULTANT AND OWNERS REPRESENTATIVE.
7. CONDUIT SHALL BE TYPE EMT C/W STEEL SETSCREW CONNECTORS. MINIMUM SIZE OF CONDUIT IS 21mm IN DIAMETER UNLESS OTHERWISE NOTED.
8. RIGID GALVANIZED CONDUITS AND ALL WEATHERPROOF FITTINGS SHALL USED FOR ALL EXTERIOR CONDUIT RUNS.
9. PROVIDE LIQUID TIGHT FLEXIBLE METALLIC CONDUIT AND FITTINGS FOR FINAL CONNECTIONS TO ALL MOTORS.
10. EMT CONDUITS COULD BE USED IN THE CEILING SPACE, ABOVE THE SUSPENDED CEILING, IF ANY.
11. ALL WIRING SHALL BE SIZED A MINIMUM OF #12 AWG COPPER CONDUCTOR. BRANCH CIRCUITS RUNNING FROM THE SOURCE PANEL EXCEEDING 22M SHALL BE #10 AWG WIRING OR LARGER TO THE FIRST ELECTRICAL DEVICE IN ORDER TO MAINTAIN THE VOLTAGE DROP IN THE BRANCH CIRCUITS NOT EXCEEDING 3% OF THE RATED VOLTAGE.

COMBINATION MAGNETIC STARTERS

- .1 ALL MAGNETIC STARTERS TO BE THE COMBINATION, CIRCUIT BREAKER TYPE UNLESS OTHERWISE NOTED.

.2 COMBINATION TYPE STARTERS TO INCLUDED DISCONNECT SWITCH WITH A VERTICALLY MOVING OPERATING LEVER ON THE OUTSIDE OF ENCLOSURE TO CONTROL DISCONNECT SWITCH AND

PROVISION FOR:

.1 LOCKING IN OFF POSITION WITH UP TO 3 PADLOCKS

.2 LOCKING IN ON POSITION

.3 INDEPENDENT LOCKING OF ENCLOSURE DOOR

.4 AVOIDABLE INTERLOCK TO PREVENT THE STARTER DOOR FROM BEING OPEN WHEN THE DISCONNECT SWITCH IS IN THE ON POSITION AND TO PREVENT SWITCHING THE DISCONNECT SWITCH TO THE ON POSITION WHEN THE STARTER DOOR IS OPEN.

.5 PROVIDE AS PART OF CMS TYPE STARTER ALL ITEMS AS SPECIFIED

.6 PROVIDE INTEGRAL CONTROL TRANSFORMER
- .3 ALL STARTERS SHALL BE PROVIDED WITH THE FOLLOWING INDICATING LED PILOT LIGHTS

.1 GREEN LED PILOT LIGHT DENOTES - RUNNING

.2 RED LED PILOT LIGHT DENOTES - STOPPED

.3 AMBER RED LED PILOT LIGHT DENOTES - TRIPPED
- .4 PROVIDE TWO SETS OF NORMALLY OPEN AND NORMALLY CLOSED CONTACTS

.5 ALL STARTERS SHALL BE EEMAC/NEMA RATED. IEC RATED STARTERS ARE NOT ACCEPTABLE

.6 ALL STARTERS SHALL BE COMPLETE WITH INDICATING LIGHTS FOR RUN AND OFF INDICATION AND "PUSH TO TEST" LAMP TEST BUTTON

.7 PROVIDE SCHEMATIC WIRING PERMANENTLY AFFIXED TO THE INSIDE DOOR

.8 PROVIDE DEFEAST MECHANISM TO ACCESS STARTER WITHOUT HAVING TO DE-ENERGIZE STARTER

.9 ENCLOSURE SHALL BE SPRINKLER-PROOF

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RENOVATION

3197 LAKESHORE BLVD. W., ETOBICOKE

ELECTRICAL SPECIFICATION
PART 3

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| job | 23511.E06 |
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ELECTRICAL SPECIFICATION (CONTINUATION)

MATERIALS

1. PANELBOARDS SHALL BE RATED 120/208V, 3PHASE, 4 WIRE. ALL BUS WORK SHALL BE COPPER. PANELBOARDS SHALL BE RATED FOR A MINIMUM OF 10KA FOR 208V PANELBOARDS MOULDED CASE BREAKERS SHALL BE BOLT-ON, QUICK MAKE, QUICK BREAK RATED FOR 40°C. PANEL TRIMS SHALL BE COMPLETE WITH DIRECTORIES, LOCKABLE DOORS AND NAMEPLATES. PANELBOARDS SHALL BE MANUFACTURED BY SCHNEIDER, CUTLER-HAMMER OR SIEMENS. SURFACE PANELBOARDS SHALL BE SPRINKLER PROOF.
2. SOLID STATE TRIP BREAKERS DESIGN TYPE D: PROVIDE MOLDED CASE CIRCUIT BREAKERS TO OPERATE BY MEANS OF A SOLID STATE TRIP UNIT WITH ASSOCIATED CURRENT MONITORS AND SELF POWERED SHUNT TRIP DEVICES TO PROVIDE AN INVERSE TIME VS CURRENT TRIP CHARACTERISTIC UNDER OVERLOAD CONDITIONS, AND LONG TIME SHORT TIME INSTANTANEOUS TRIPPING FOR PHASE GROUND FAULT SHORT CIRCUIT PROTECTION. THE TRIP UNIT SHALL BE FULLY ADJUSTABLE CURRENT AND TIME CHARACTERISTICS. ALL BREAKERS 400 A ABOVE SHALL BE SOLID STATE TYPE (LSIG).
3. DISTRIBUTION PANELS SHALL BE RATED 208V OR 600V, 3PHASE, 3 OR 4 WIRE. ALL BUS WORK SHALL BE COPPER. BREAKERS SHALL BE BOLT-ON, QUICK MAKE, QUICK BREAK RATED FOR 40°C WITH INDIVIDUAL NAMEPLATES. DISTRIBUTION PANELS SHALL BE MANUFACTURED BY SCHNEIDER, CUTLER-HAMMER OR SIEMENS. SURFACE PANELS SHALL BE SPRINKLER PROOF. DISTRIBUTION PANELS AND BREAKERS SHALL BE RATED FOR MINIMUM FAULT CURRENTS AS FOLLOWS UNLESS OTHERWISE NOTED; 600V - 24kA, 120/208V - 14kA, UNLESS OTHERWISE NOTED.
4. FUSES SHALL BE HRC TYPE `J' 200KA INTERRUPTING RATING.
5. FUSED AND NON-FUSED DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH QUICK-MAKE, QUICK-BREAK SWITCHING ACTION. SWITCHES SHALL BE PROVIDED WITH CSA ENCLOSURES TO SUIT THE ENVIRONMENT WHERE THE SWITCH IS LOCATED WITH VOIDABLE INTERLOCK TO PREVENT THE DOOR OPENING WHEN THE SWITCH IS IN THE ON POSITION. SWITCHES SHALL BE HAVE PROVISION FOR PADLOCKING IN THE ON OR OFF POSITION.

WIRING DEVICES

1. COORDINATE ALL RECEPTACLES SUCH THAT THEY ARE INSTALLED TO MATCH THE REQUIRED EQUIPMENT PLUG CONFIGURATIONS. MAKE CHANGES TO SUIT AT NO EXTRA COST.
2. PROVIDE WIRING DEVICES AS INDICATED ON DRAWINGS. ALL WIRING DEVICES SHALL BE MANUFACTURED BY HUBBELL, LEVITON, PASS & SEYMOUR OR BRYANT.
3. CONVENIENCE DUPLEX RECEPTACLES SHALL BE FINISHED IN WHITE HUBBELL CAT. 5262 SERIES. SURGE SUPPRESSION TYPE DUPLEX OUTLETS SHALL BE FINISHED IN BLUE, HUBBELL CAT. 8062 SERIES.
4. DUPLEX RECEPTACLES CONNECTED TO EMERGENCY POWER SHALL BE FINISHED IN RED.
5. 120V LIGHT SWITCHES SHALL BE FINISHED IN WHITE RATED 20A, HUBBELL CAT. 1220 SERIES.
6. ALL COVER RATES SHALL BE FINISHED IN VERTICALLY BRUSHED STAINLESS STEEL.

TESTING

1. AT COMPLETION OF INSTALLATION, CONDUCT GROUNDING RESISTANCE TEST, VOLTAGE TEST, ETC. AND MAKE ALL CORRECTION WHERE NECESSARY AND AS DIRECTED.
2. VOLTAGE PROVIDED TO EQUIPMENT IN INSTALLATION SHALL NOT EXCEED MINIMUM AND MAXIMUM PERMISSIBLE LIMITS REQUIRED BY ELECTRICAL SAFETY CODE.
3. TEST PERFORMANCE OF ALL EQUIPMENT, DEVICES AND OUTLETS IN RENOVATED AND AFFECTED AREAS. MAKE ADJUSTMENTS AND RECTIFICATIONS NECESSARY.
4. FURNISH LABOUR, MATERIALS, INSTRUMENTS, AND BEAR ALL COSTS IN CONNECTION WITH ALL TESTS, OBTAIN REQUIRED CERTIFICATES OF APPROVAL, ACCEPTANCE, AND COMPLIANCE WITH REGULATIONS OF AGENCIES HAVING JURISDICTION AND AS SPECIFIED.
5. WORK SHALL NOT BE DEEMED COMPLETE AND FINAL CERTIFICATE OF ACCEPTANCE WILL NOT BE ISSUED, UNTIL SUCH CERTIFICATES HAVE BEEN DELIVERED TO CONSULTANT.

LIGHTING

1. LIGHTING LUMINAIRES AND ACCESSORIES SHALL NOT BE SECURED TO OR SUSPENDED IN ANYWAY FROM MECHANICAL PIPES, DUCTS OR OTHER COMPONENTS. IF NECESSARY, ADDITIONAL SUPPORT SHALL BE INSTALLED TO BRIDGE THE EQUIPMENT.
2. ALL LIGHTING (RELOCATED AND NEW) WHICH ARE LOCATED IN SUSPENDED CEILING SHALL BE SUPPORTED BY APPROVED WIRES AND CHAINSWHICH WILL ALLOW LUMINAIRES TO BE SUPPORTED PROPERLY AND INDEPENDENT OF THE CEILING SYSTEM. ALL SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

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RENOVATION

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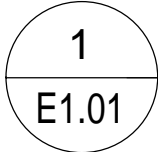
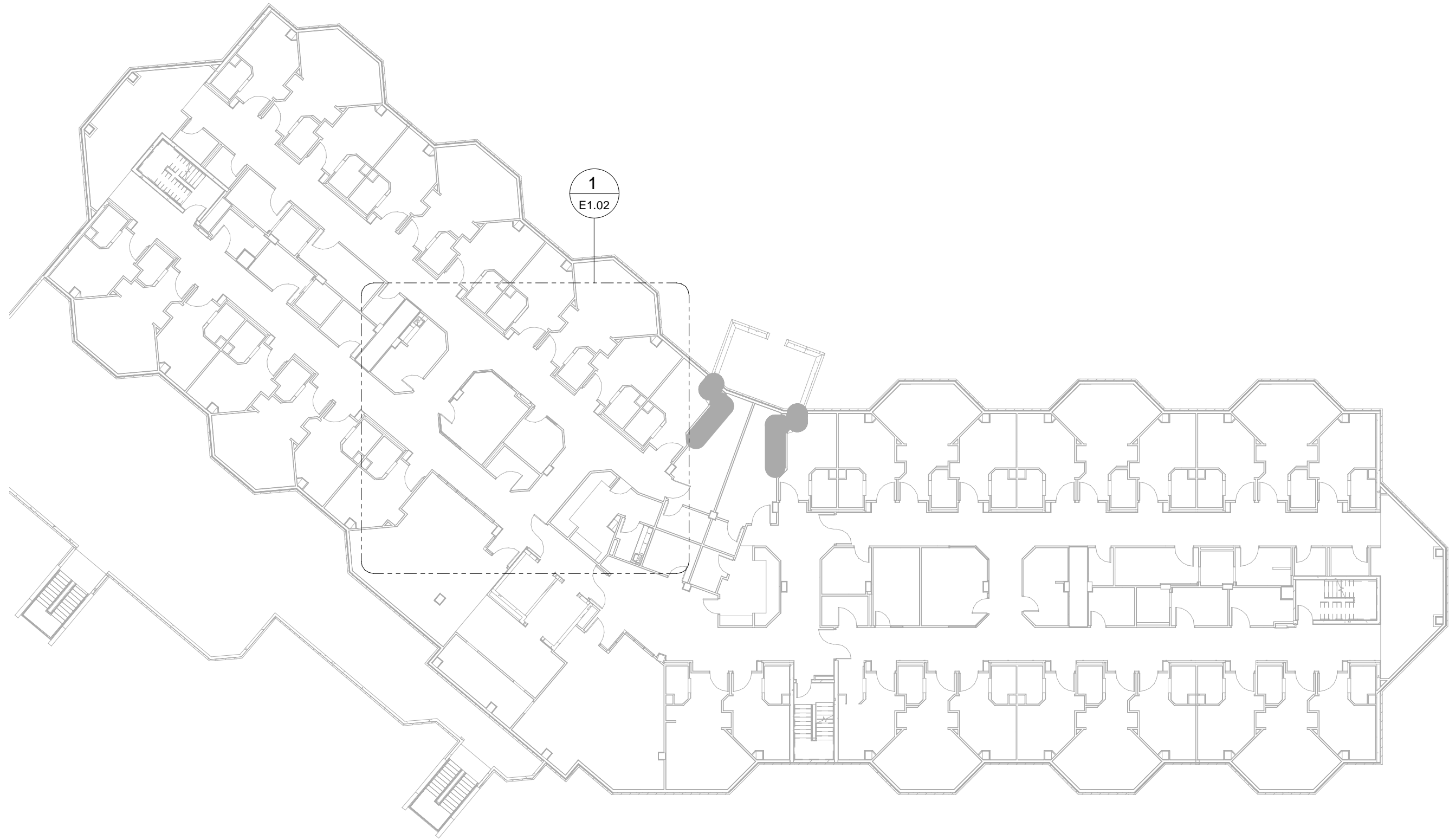
ELECTRICAL SPECIFICATION
PART 4

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| scale: | N.T.S. |
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| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |

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AREA OF WORK PLAN - LEVEL 2

1 : 250

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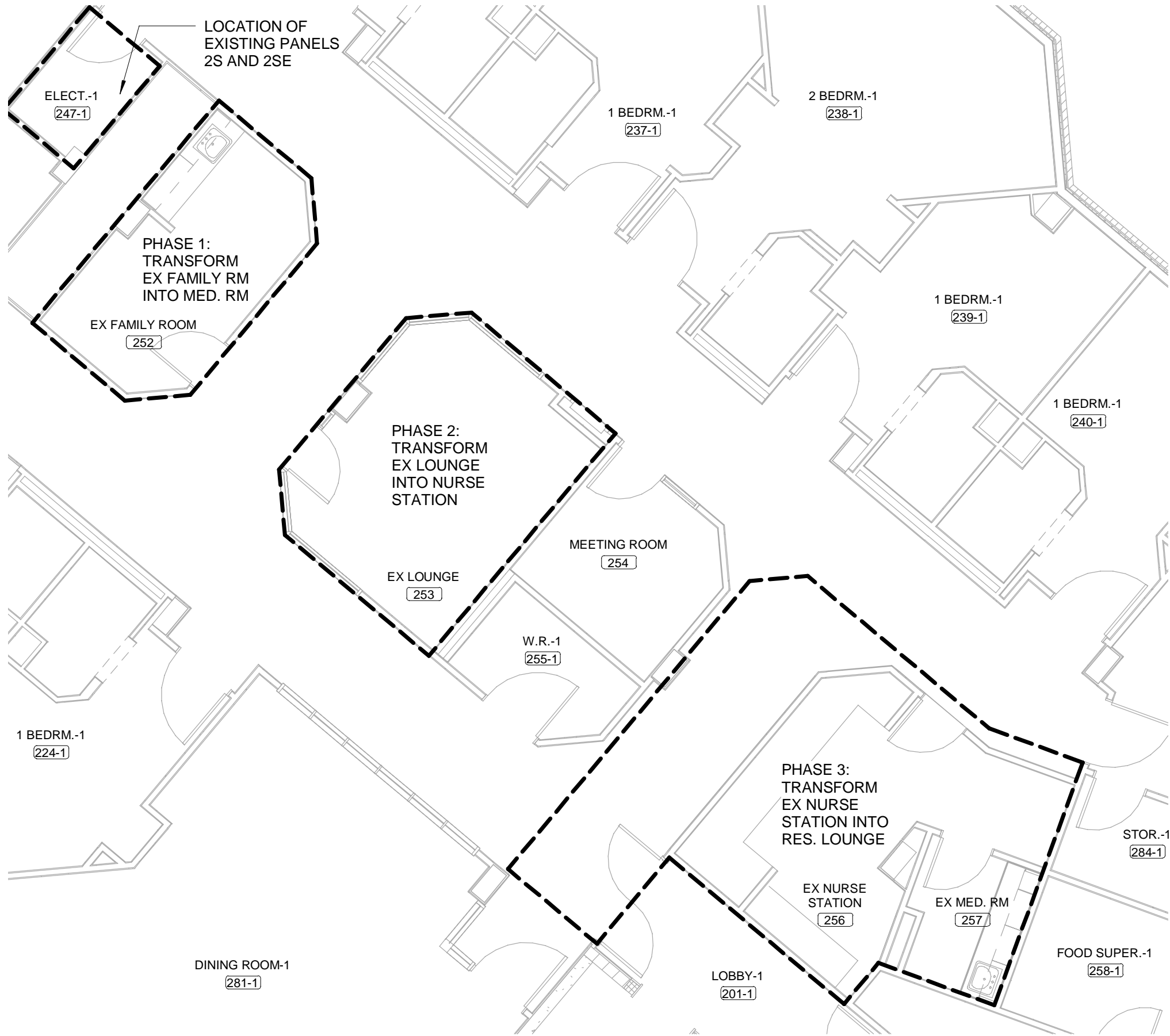
AREA OF WORK PLAN -
LEVEL 2

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KEY PLAN - LEVEL 2 (NURSE STATION)

1 : 75

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KEY PLAN - LEVEL 2 NURSE STATION

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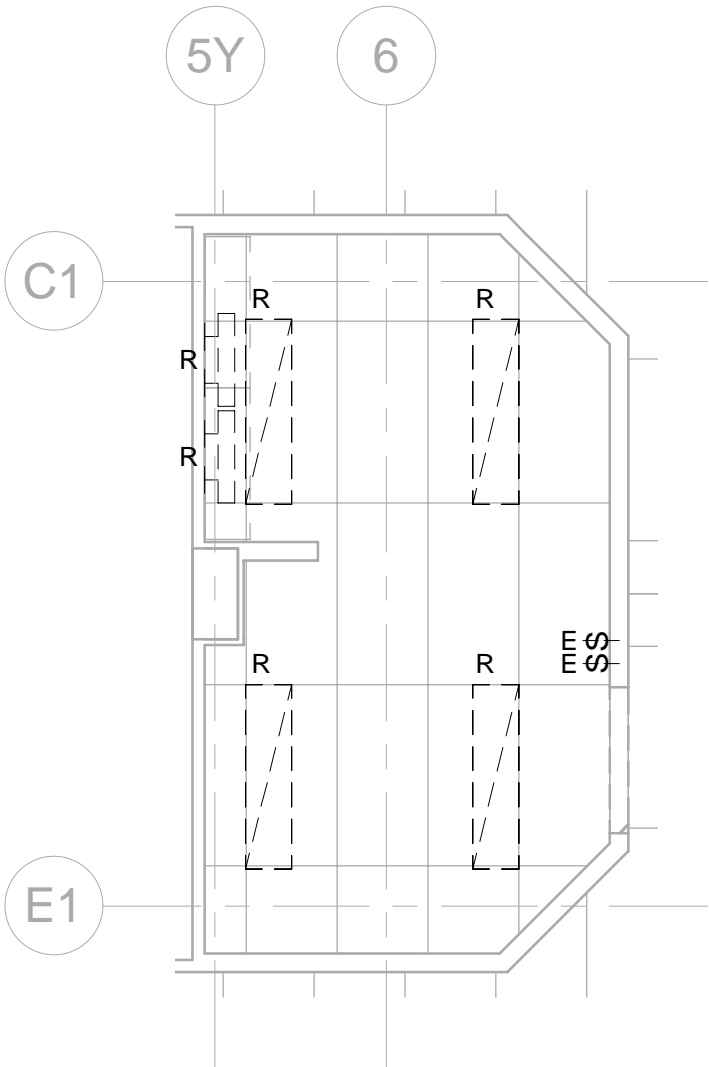
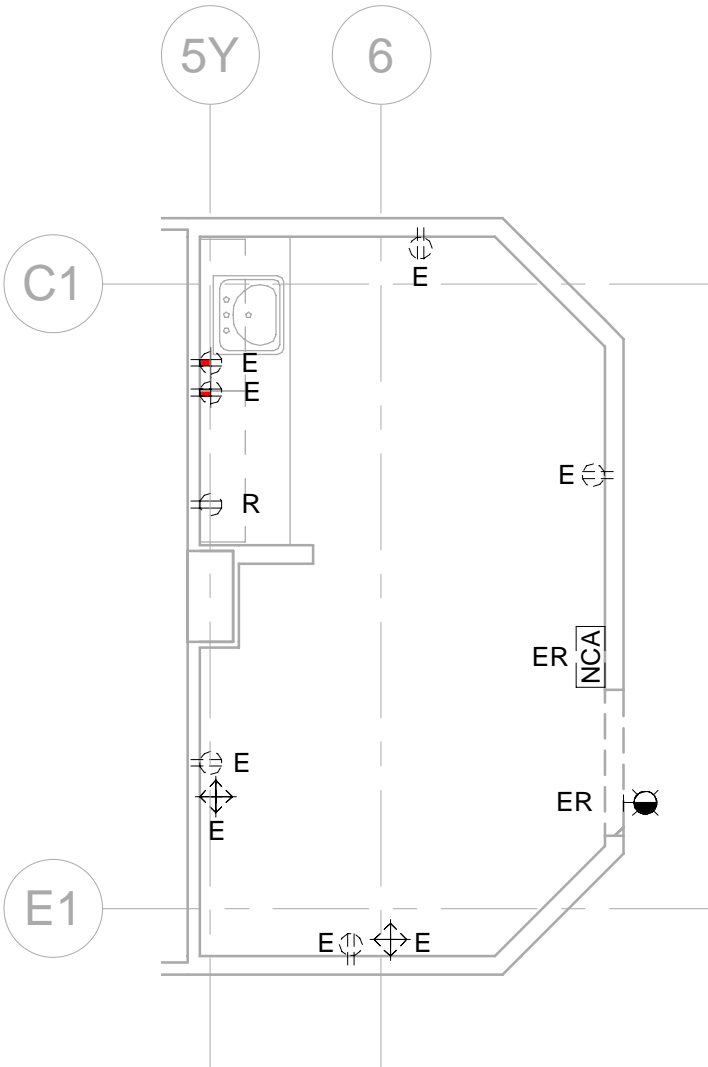
LL 2S NURSE STATION
RENOVATION

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ROOM 252 (EX FAMILY ROOM)
- ELECTRICAL DEMOLITION
LAYOUT

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| job | 23511.E06 |
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GENERAL NOTES - DEMO

1. EXISTING ELECTRICAL DEVICES TO REMAIN UNLESS OTHERWISE NOTED.

1

E2.00

LEVEL 2 (EX FAMILY ROOM) - ELEC DEMO PLAN

1 : 50

2

E2.00

LEVEL 2 (EX FAMILY ROOM) - LIGHTING DEMO PLAN

1 : 50

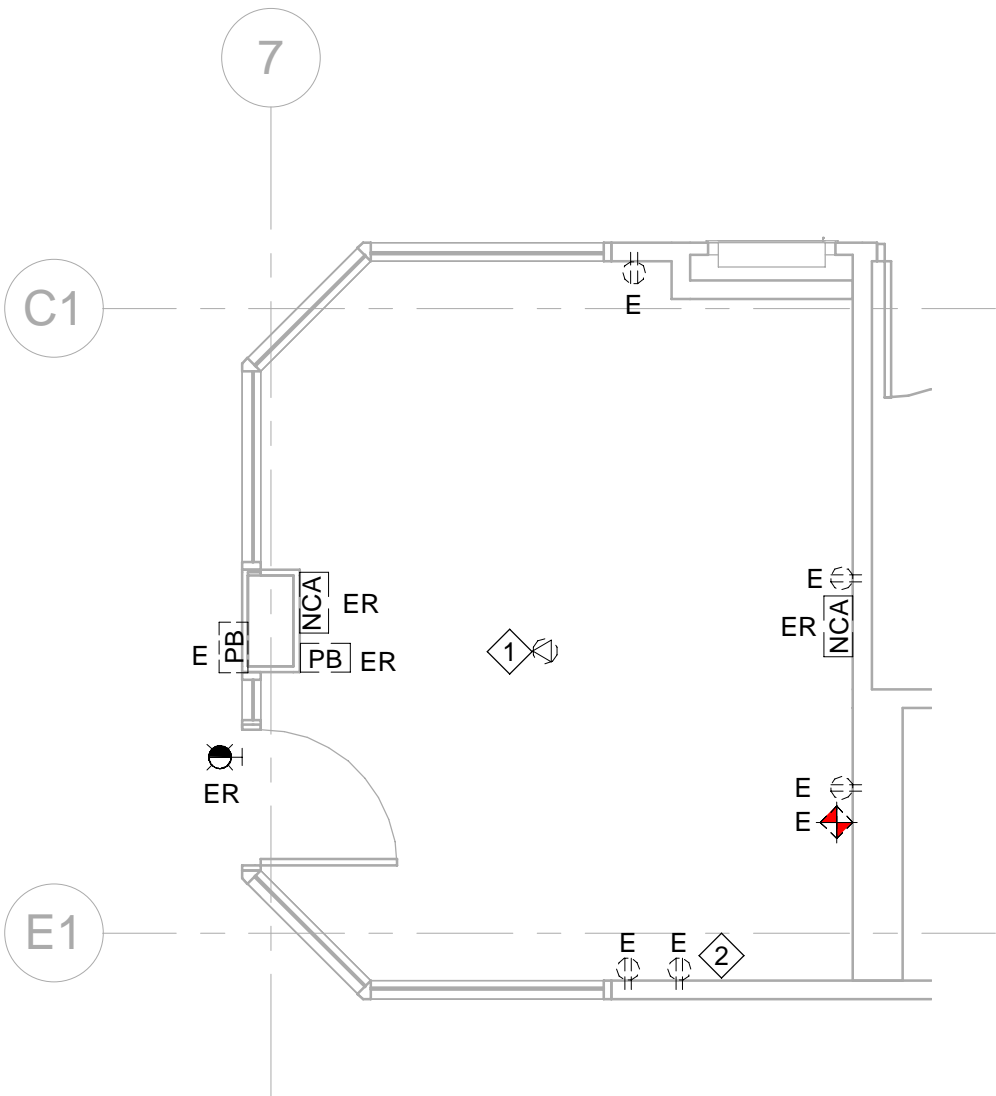
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LEVEL 2 (EX LOUNGE) - POWER DEMO PLAN

1 : 50

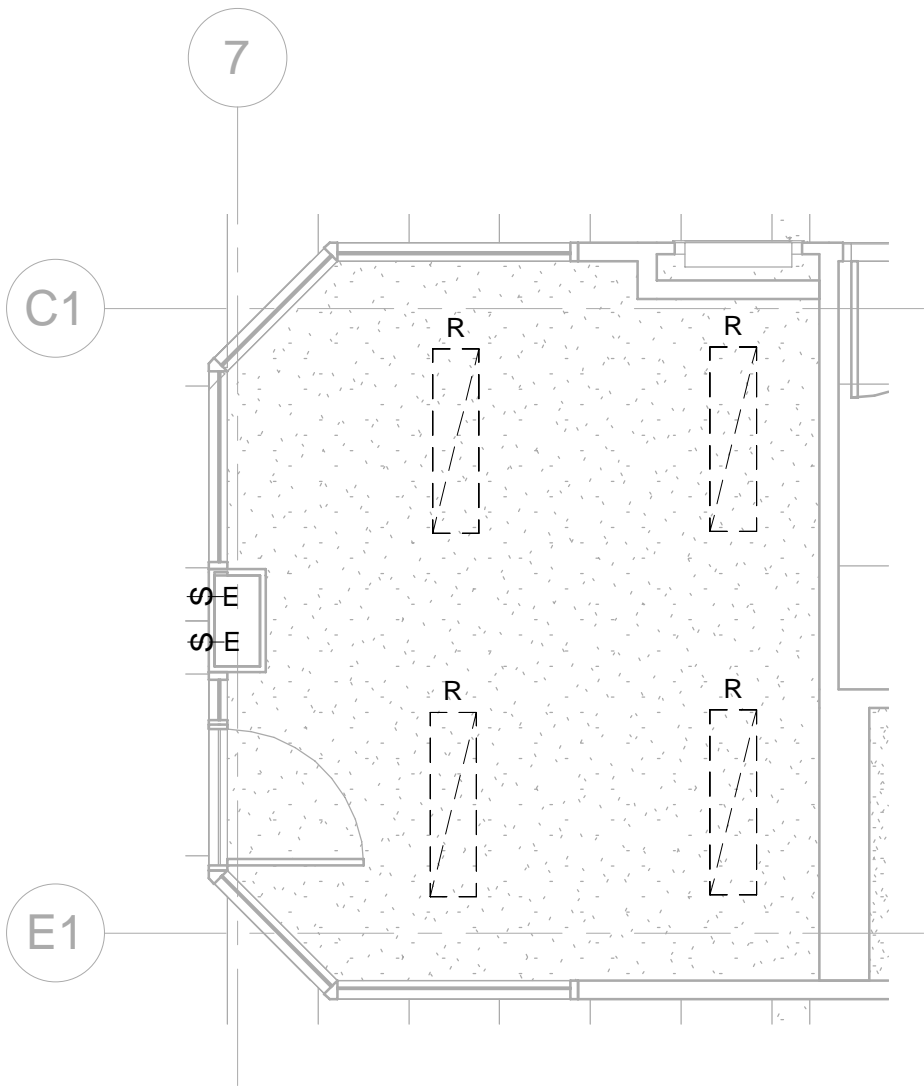


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LEVEL 2 (EX LOUNGE) - LIGHTING DEMO PLAN

1 : 50



| KEYNOTES (SHOWN AS ◇) E2.01 | |
|-----------------------------|--|
| No. | Description |
| 1 | REMOVE POWER CONNECTION/DISCONNECT SWITCH OF EXISTING EXHAUST FAN AND MAKE SAFE. REUSE EXISTING CIRCUIT FOR NEW RECEPTACLES, REFER TO E3.01 FOR LAYOUT. PROVIDE A TYPED UPDATED PANEL DIRECTORY. |
| 2 | CONFIRM SOURCE LOCATION FOR EXISTING COAXIAL TV CABLE PRIOR TO REMOVAL. REFER TO DRAWING E3.02 FOR NEW TV LOCATION IN RESIDENT LOUNGE. |

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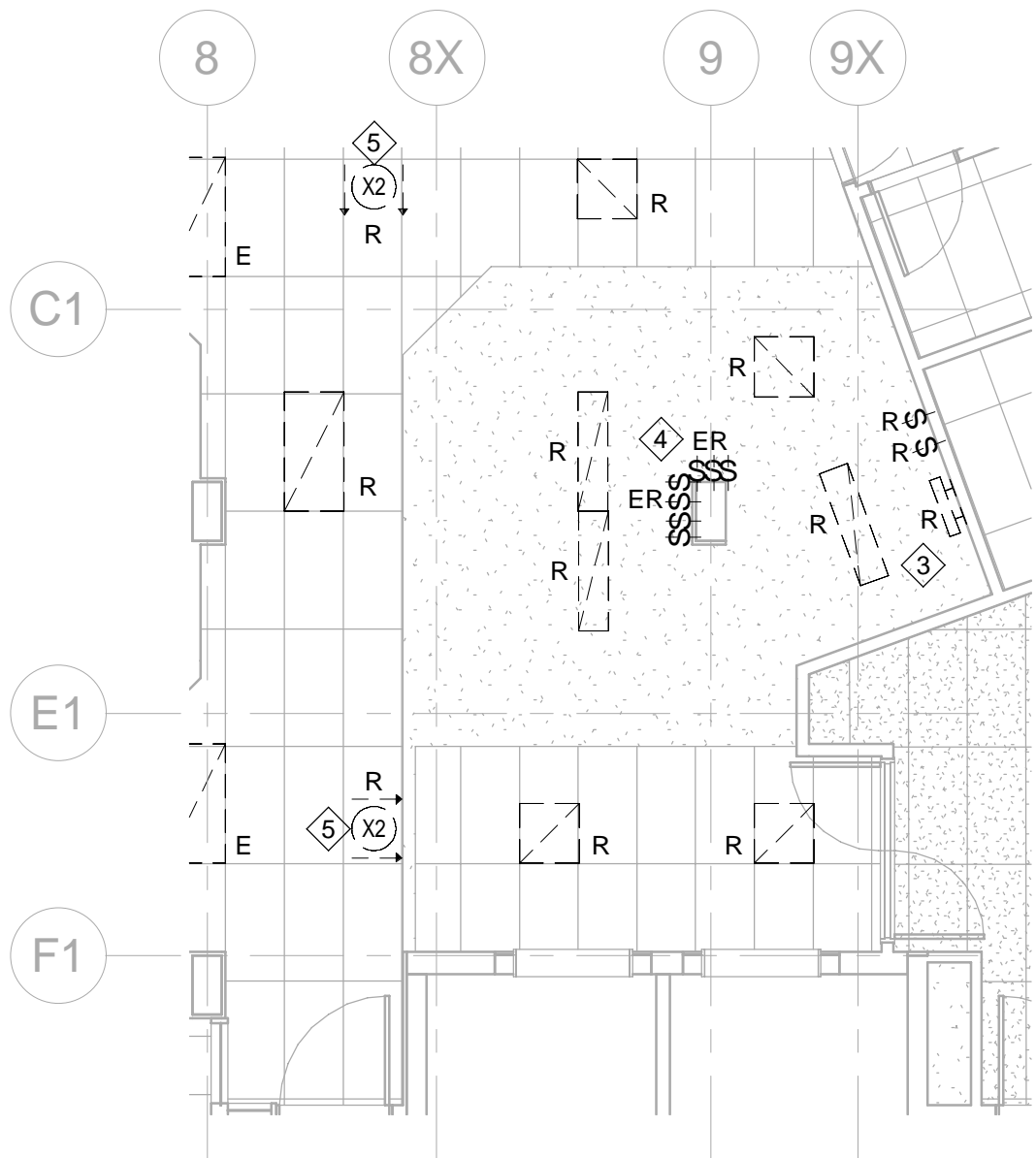
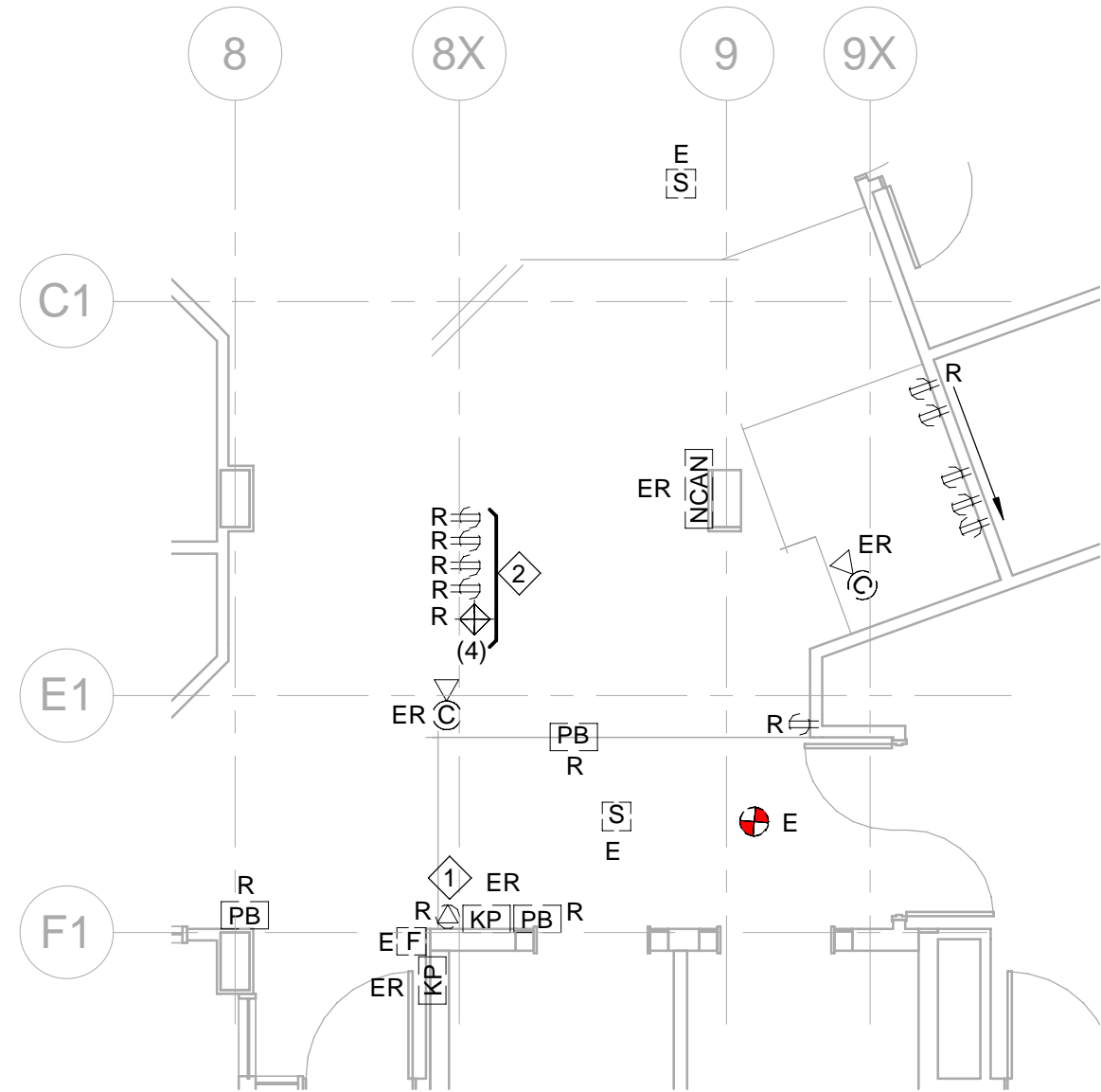
ROOM 253 (EX LOUNGE) - ELECTRICAL DEMOLITION LAYOUT

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| scale: | 1 : 50 |
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E2.01

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KEYNOTES (SHOWN AS ♦) E2.02

| No. | Description |
|-----|--|
| 1 | DUE TO THE REMOVAL OF EXISTING MAGLOCK DOOR, REMOVE ALL ELECTRICAL COMPONENTS AT THE DOUBLE DOOR INCLUDING MAGLOCKS, KEYPADS, PUSH BUTTONS AND DOOR HOLDERS AS REQUIRED. |
| 2 | DUE TO THE REMOVAL OF EXISTING NURSE STATION, REMOVE ALL NURSE CALL, POWER AND DATA DEVICES AS NEEDED AND MAKE GOOD FINISH. MAKE THESE EXISTING POWER CIRCUITS AS SPARE AND RE-USE THEM FOR NEW RECEPTACLES IN NEW NURSING STATION AS REQUIRED. REFER TO E3.01 FOR NEW LAYOUT. |
| 3 | REMOVE ALL CEILING AND UNDER COUNTER LIGHT FIXTURES AND LIGHT SWITCHES IN MEDICAL ROOM AS REQUIRED. |
| 4 | RELOCATE EXISTING LIGHT SWITCHES AS REQUIRED TO NEW NURSING STATION AREA, REFER TO DRAWING E3.01. NEW LIGHTS IN AREA TO BE CONTROLLED WITH DIMMERS, REFER TO E3.02 FOR NEW LAYOUT. |
| 5 | ALL EXISTING EXIT LIGHTS IN THE AREA OF WORK SHOWN ON DRAWING E1.02 TO BE REPLACED WITH EQUIVALENT GREEN RUNNING MAN TYPE. |

1
E2.02

LEVEL 2 (EX NURSE STATION) - POWER DEMO PLAN

1 : 75

2
E2.02

LEVEL 2 (EX NURSE STATION) - LIGHTING DEMO PLAN

1 : 75

| | | | |
|-----------|------------|------------------------------|----|
| 3 | 2024-04-26 | ISSUED FOR PERMIT AND TENDER | |
| 2 | 2024-04-12 | ISSUED FOR DESIGN SIGN-OFF | |
| 1 | 2023-11-24 | FOR OWNER'S REVIEW | |
| # | Date: | Revision: | By |
| revisions | | | |



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LL 2S NURSE STATION RENOVATION

3197 LAKESHORE BLVD. W., ETOBICOKE

ROOM 256 (EX NURSE STATION) - ELECTRICAL DEMOLITION LAYOUT

| | |
|----------|------------|
| scale: | 1 : 75 |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |
| drawing | |

E2.02

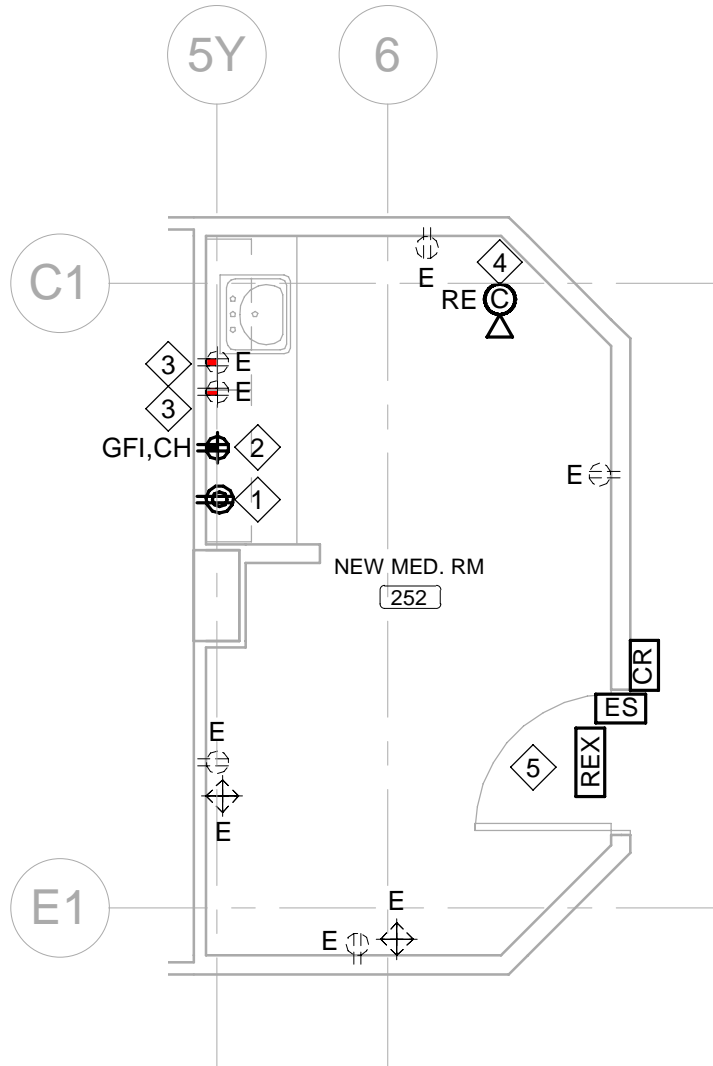
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1

E3.00

LEVEL 2 (NEW MED RM) - ELEC PLAN

1 : 50

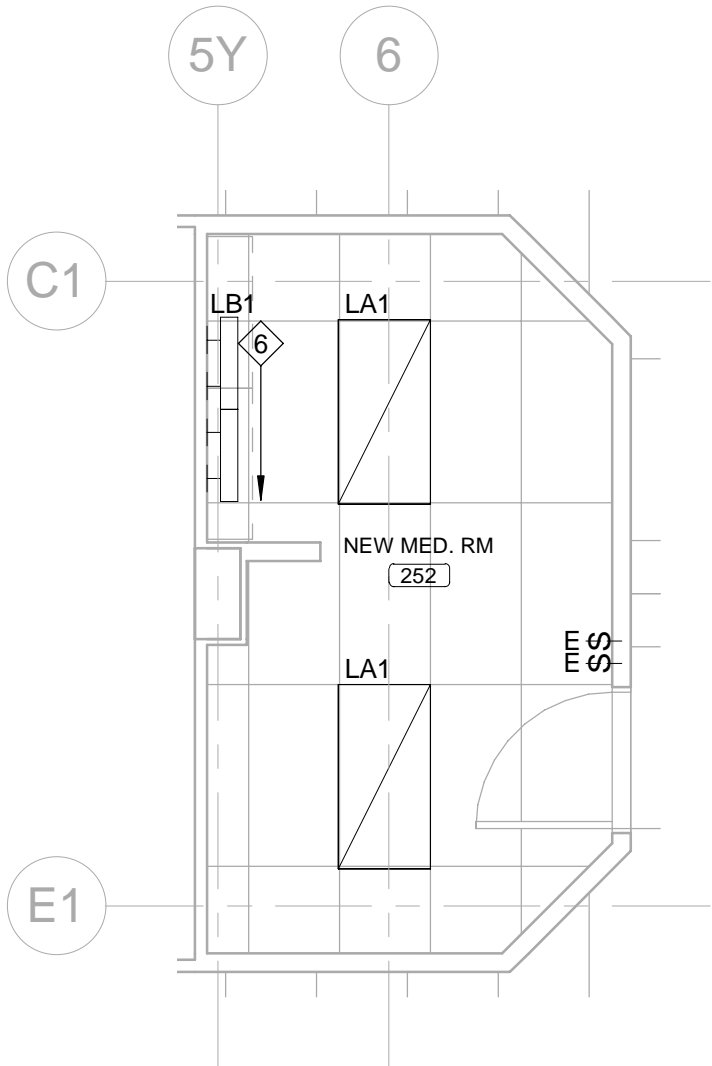


2

E3.00

LEVEL 2 (EX MED ROOM) - LIGHTING PLAN

1 : 50



KEYNOTES (SHOWN AS ◇) E3.00

| No. | Description |
|-----|--|
| 1 | PROVIDE A DEDICATED CIRCUIT RECEPTACLE FOR UNDER COUNTER MEDICAL FRIDGE AND CONNECT IT TO EXISTING EMERGENCY PANEL PP-2SE. REFER TO KEYPLAN FOR LOCATION OF THE PANEL. |
| 2 | PROVIDE A 20A CIRCUIT IN THE EXISTING EMERGENCY PANEL FOR THE RECEPTACLE. PROVIDE A TYPED UPDATED PANEL DIRECTORY. |
| 3 | PROVIDE GFI RECEPTACLE IF EXISTING RECEPTACLE IS NOT. |
| 4 | RELOCATE THE CAMERA FROM EXISTING MEDICAL ROOM TO NEW MEDICAL ROOM 252. REFER TO E2.02 AND SECURITY GENERAL NOTES E0.01 FOR DETAILS. |
| 5 | REFER TO E4.00 FOR DOOR DETAILS. |
| 6 | REPLACE EXISTING UNDERCABINET LIGHT FIXTURE WITH NEW FIXTURE TYPE LB1, AND CONNECT IT TO EXISTING LIGHTING CONTROL. FIXTURE LENGTH TO BE DETERMINED ON SITE. |

| | | | |
|-----------|------------|------------------------------|----|
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| # | Date: | Revision: | By |
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LL 2S NURSE STATION
RENOVATION

3197 LAKESHORE BLVD. W., ETOBICOKE

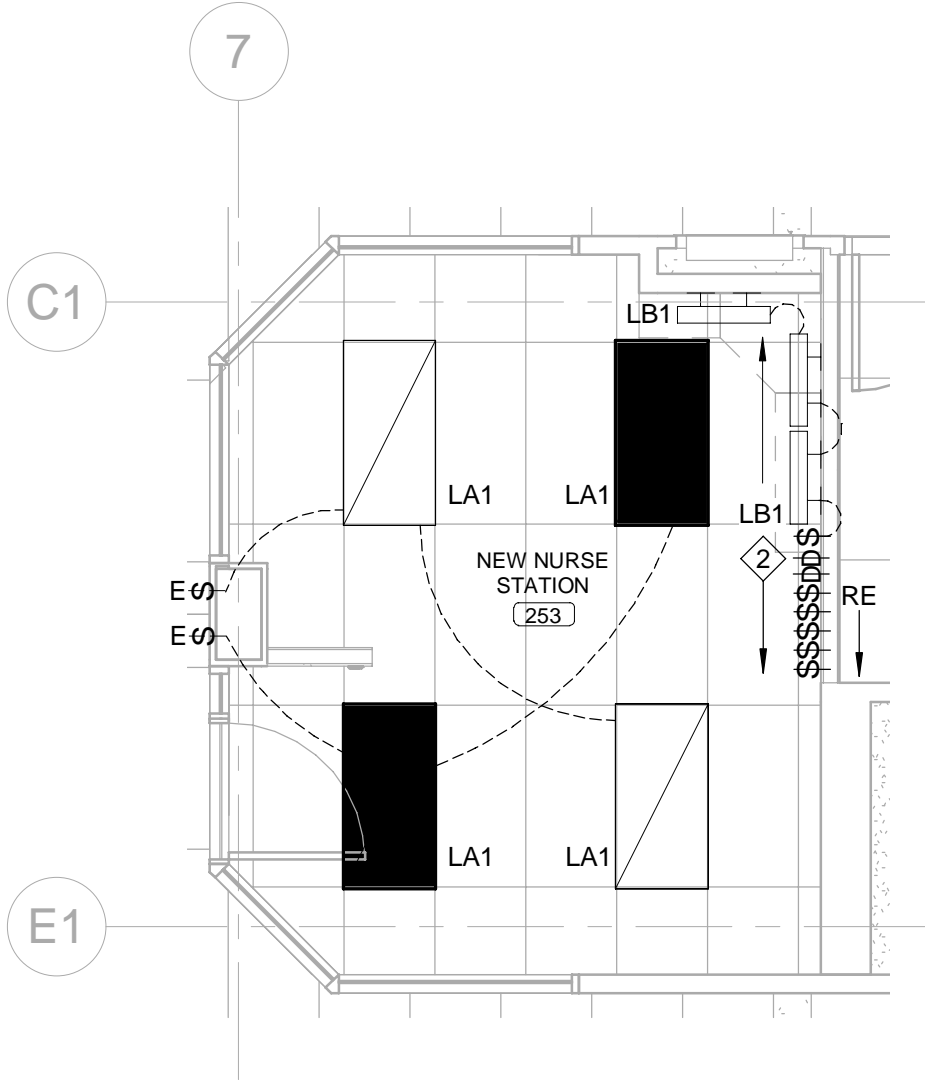
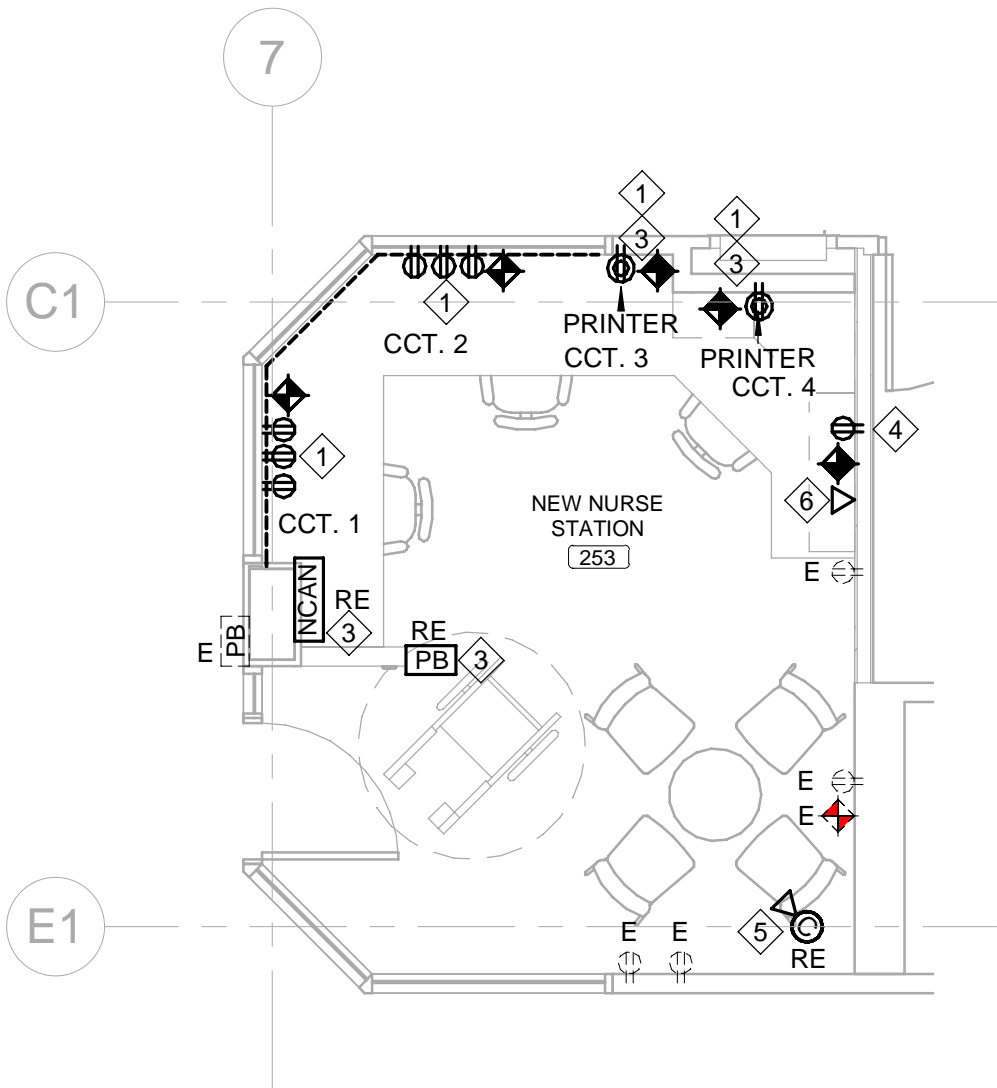
ROOM 252 (NEW MED RM) -
ELECTRICAL LAYOUT

| | |
|----------|------------|
| scale: | 1 : 50 |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |

drawing

E3.00

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KEYNOTES (SHOWN AS ◇) E3.01

| No. | Description |
|-----|---|
| 1 | ALL THE NEW OUTLETS SHALL BE MOUNTED ON ARCHITECTURAL COVER PANEL. RE-USE SPARE CIRCUITS FROM EXISTING NURSE STATION REMOVAL, OR PROVIDE NEW CIRCUIT BREAKERS IN EXISTING AVAILABLE ADJACENT PANEL FOR NEW OUTLETS AS REQUIRED . REFER TO KEYNOTE 2/E2.02. PROVIDE A TYPED UPDATED PANEL DIRECTORY. |
| 2 | EXISTING SWITCHES RELOCATED FROM PREVIOUS NURSE STATION LOCATION AS REQUIRED. PROVIDE TWO (2), NEW 0-10V SLIDER STYLE DIMMERS TO CONTROL LIGHTING IN NEW RESIDENT LOUNGE AREA. |
| 3 | EXACT LOCATION OF DEVICES TO BE DETERMINED ON SITE. |
| 4 | CONNECT IT TO EXISTING RECEPTACLE CIRCUIT AND ENSURE IT IS NOT OVERLOADED. |
| 5 | RELOCATE EXISTING CAMERA UNDER NEW BULKHEAD. EXACT LOCATION TO BE DETERMINED ON SITE. REFER TO SECURITY GENERAL NOTES ON E0.01 FOR DETAILS. |
| 6 | NEW ANALOG PHONE LINE FROM NEAREST TELECOM ROOM. |

1

E3.01

LEVEL 2 (NEW NURSE STATION) - ELEC PLAN

1 : 50

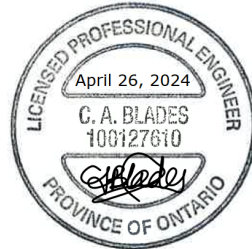
2

E3.01

LEVEL 2 (EX LOUNGE) - LIGHTING PLAN

1 : 50

| | | | |
|-----------|------------|------------------------------|----|
| 3 | 2024-04-26 | ISSUED FOR PERMIT AND TENDER | |
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| # | Date: | Revision: | By |
| revisions | | | |



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LL 2S NURSE STATION RENOVATION

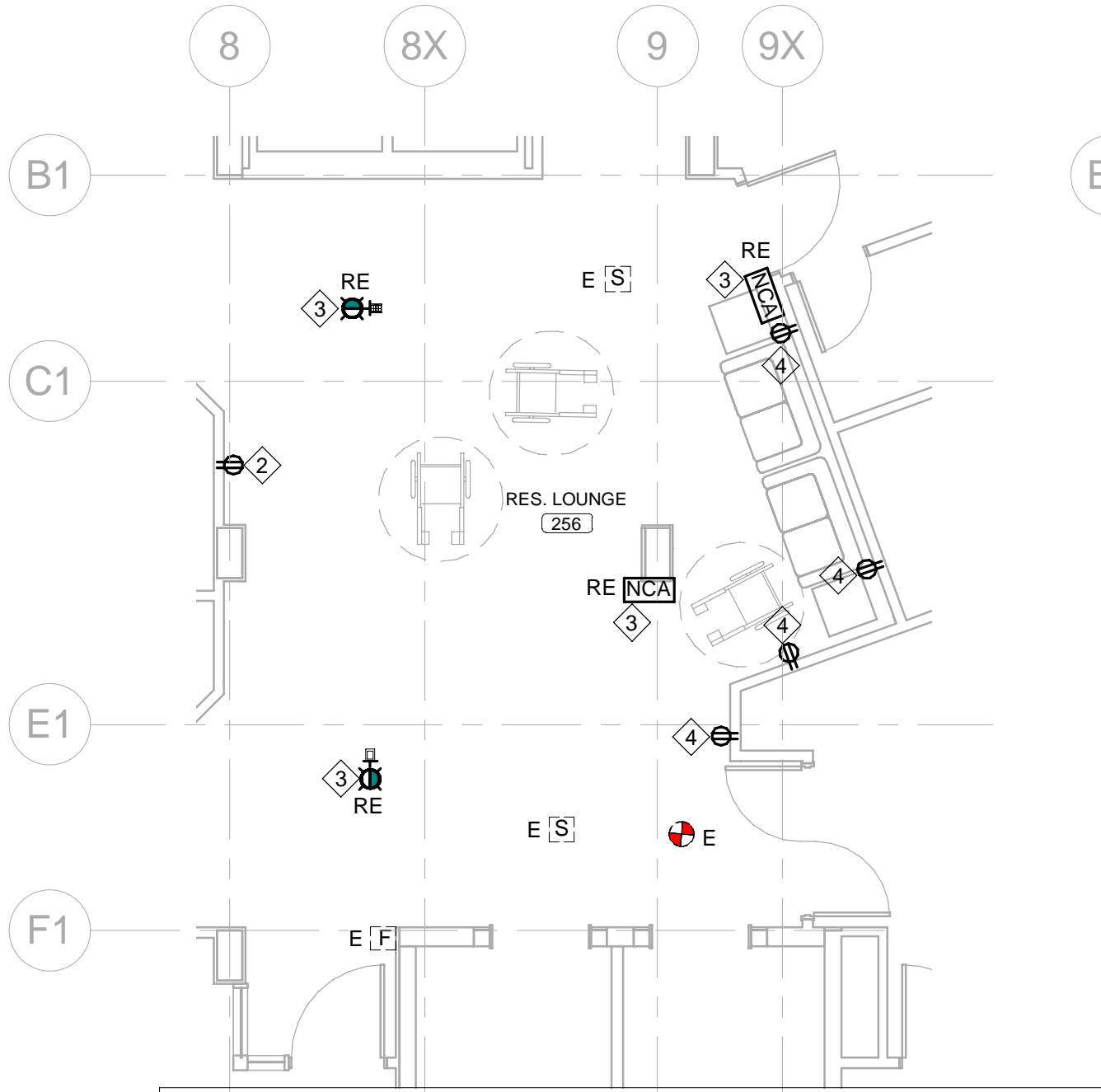
3197 LAKESHORE BLVD. W., ETOBICOKE

ROOM 253 (NEW NURSE STATION) - ELECTRICAL LAYOUT

| | |
|----------|------------|
| scale: | 1 : 50 |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |
| drawing | |

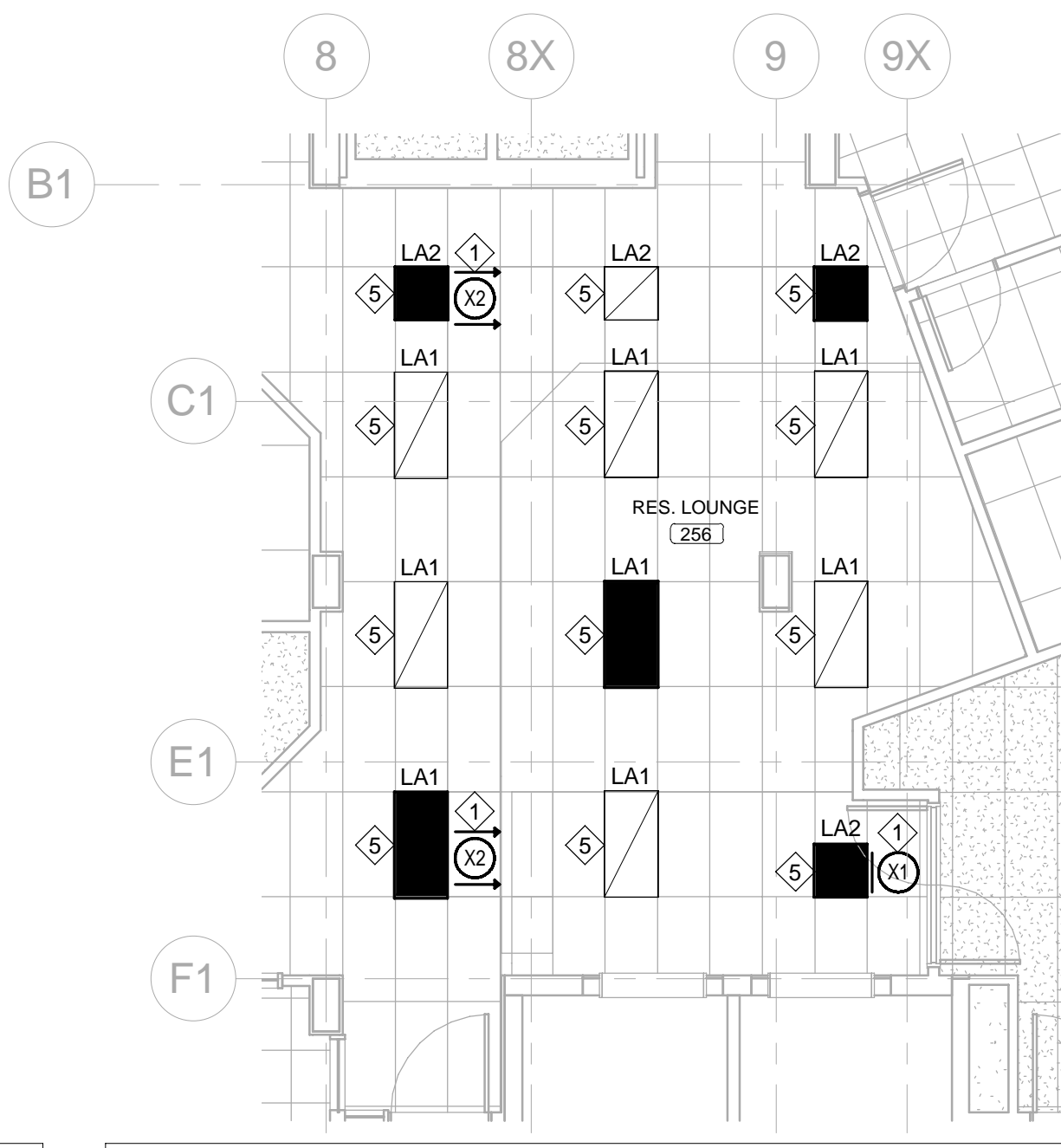
E3.01

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KEYNOTES (SHOWN AS ◇) E3.02

| No. | Description |
|-----|--|
| 1 | ALL EXISTING EXIT LIGHTS IN THE AREA OF WORK SHOWN ON DRAWING E1.02 TO BE REPLACED WITH EQUIVALENT GREEN RUNNING MAN TYPE. CONNECT NEW EXIT LIGHT TO EXISTING EXIT LIGHT CIRCUIT IN AREA. |
| 2 | APPROXIMATE LOCATION OF RESIDENT LOUNGE TV, CONFIRM MOUNTING WITH ARCHITECTURAL DRAWINGS. FEED RECEPTACLE FROM EXISTING ADJACENT POWER PANEL AND PROVIDE NEW COAXIAL CABLE FOR TV FROM SOURCE OF ORIGINAL RESIDENT LOUNGE TV CONNECTION. |
| 3 | RELOCATE EXISTING NURSE CALL DEVICES FROM EXISTING LOUNGE AND FAMILY ROOM TO THESE POSITIONS. EXACT LOCATION TO BE DETERMINED ON SITE. REFER TO NURSE CALL GENERAL NOTES ON E.01 FOR DETAILS. |



KEYNOTES (SHOWN AS ◇) E3.02

| No. | Description |
|-----|--|
| 4 | CONNECT NEW CONVENIENT OUTLETS TO ADJACENT EXISTING RECEPTACLES CIRCUIT. |
| 5 | CONNECT NEW LIGHT FIXTURES TO EXISTING EMERGENCY AND NORMAL LIGHTING CIRCUITS AS INDICATED. RELOCATE EXISTING JUNCTION BOXES/FEEDERS/CONDUITS IF REQUIRED FOR NEW INSTALLATION. ALL SWITCHES IN AREA TO BE RELOCATED TO NEW NURSING STATON. PROVIDE NEW DIMMERS (2) FOR CONTROL OF LA1 & LA2 FIXTURES IN AREA. |

| | | | |
|-----------|------------|------------------------------|----|
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| 1 | 2023-11-24 | FOR OWNER'S REVIEW | |
| # | Date: | Revision: | By |
| revisions | | | |



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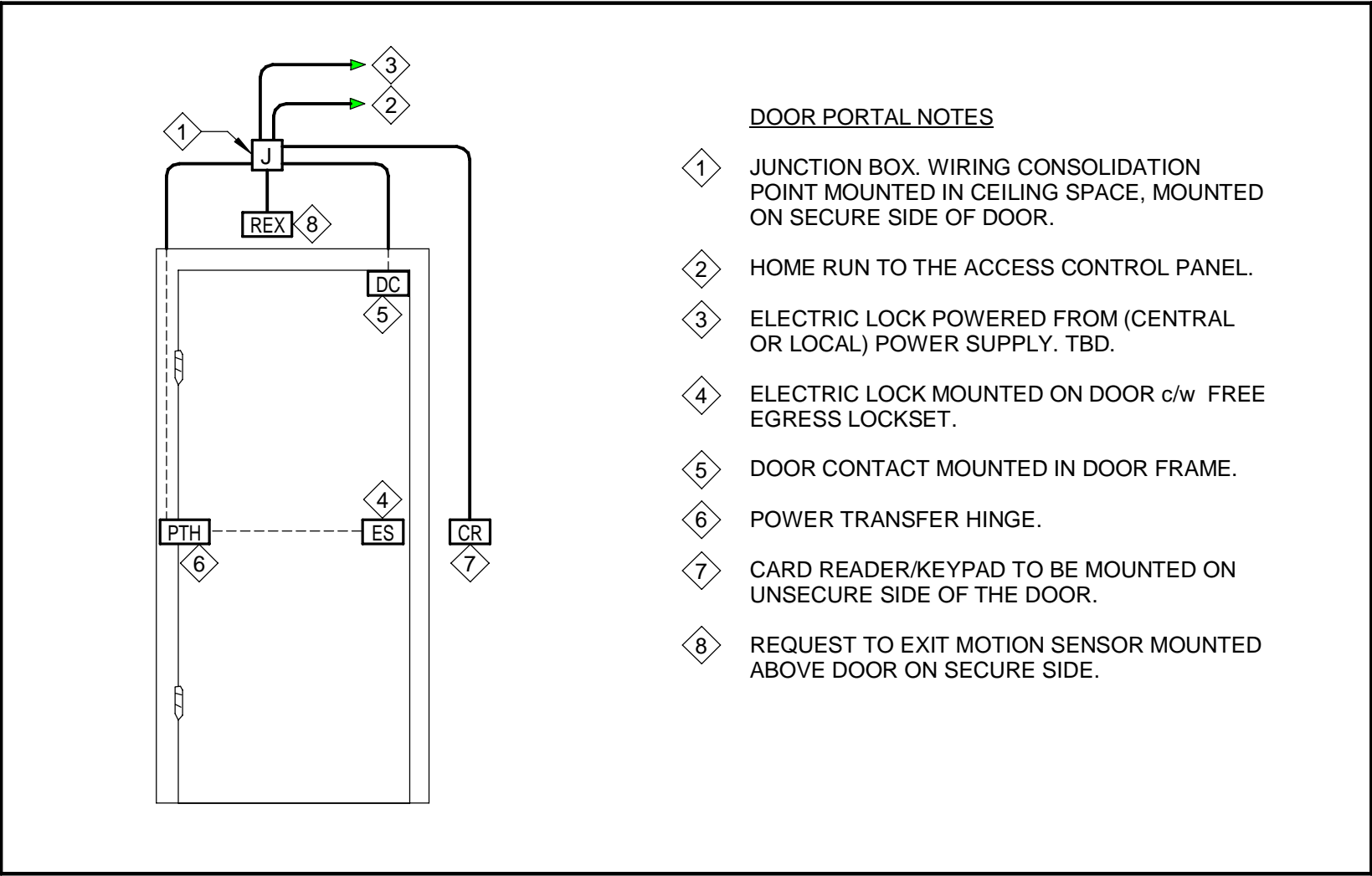
LL 2S NURSE STATION RENOVATION

3197 LAKESHORE BLVD. W., ETOBICOKE

ROOM 256 (NEW RESIDENT'S LOUNGE) - ELECTRICAL LAYOUT

| | |
|----------|------------|
| scale: | 1 : 75 |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |
| drawing | |

E3.02



GENERAL NOTES

1. READ THE DOOR DETAIL IN CONJUNCTION WITH ARCHITECTURAL AND ELECTRICAL FLOOR PLANS. IT IS THE CONTRACTOR RESPONSIBILITY TO OBTAIN THE LATEST DOCUMENTS PRIOR TO BID SUBMISSION AND CONSTRUCTION COMMENCEMENT.

THE DOOR SECURITY SCOPE OF WORK SHALL BE RESPONSIBLE AS FOLLOWS:

A. ACCESS CONTROL PANEL SHALL BE BY SECURITY CONTRACTOR

B. ELECTRIC STRIKE, DOOR CONTACTS, CARD READERS/KEYPADS, PUSH BUTTONS SHALL BE BY SECURITY CONTRACTOR.

C. CABLING AND TERMINATIONS SHALL BE BY SECURITY CONTRACTOR.

D. ELECTRICAL CONTRACTOR IS TO PROVIDE:

- EMERGENCY POWER FOR ACCESS CONTROL PANEL
- PROVIDE EMPTY CONDUITS MINIMUM 3/4" TO SUIT REQUIREMENTS BY ELECTRICAL
- PROVIDE BACKBOXES & JUNCTION BOXES AS REQUIRED.
- FOR NEW CONDUIT INSTALLATION, CEILING SHALL BE RESTORED TO MATCH ORIGINAL CONDITION.

| | | |
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LL 2S NURSE STATION
RENOVATION

3197 LAKESHORE BLVD. W., ETOBICOKE

ELECTRICAL DETAILS

| | |
|----------|--------------|
| scale: | As indicated |
| drawn | LN |
| reviewed | CD/SH |
| job | 23511.E06 |
| plot | 2023-09-25 |
| drawing | |

E4.00

| LUMINAIRE SCHEDULE | | | | | | | | | |
|--------------------|---|---------------|-------------|-------------------|--------------------------------|--------------|-----------------|----------|---|
| LUMINAIRE TYPE | MANUFACTURERS | ELECTRICAL | | | OPTICAL AND COLOUR COORDINATES | MOUNTING | | | NOTES |
| DESIGNATION | LUMINAIRE DESCRIPTION | INPUT VOLTAGE | WATTAGE [W] | LIGHT SOURCE TYPE | CCT °K | CEILING TYPE | METHOD TYPE | | |
| | | | | | | OTHER | TYPE | METHOD | |
| LA1 | DAY-BRITE CFI - 2FPZ43L840-4-DS-UNV-DIM | 120 V | 30W | LED | 4000 K | T-BAR GRID | CEILING MOUNTED | RECESSED | 2' X 4' |
| LA2 | DAY-BRITE CFI - 2FPZ38L840-2-DS-UNV-DIM | 120 V | 34W | LED | 4000 K | T-BAR GRID | CEILING MOUNTED | RECESSED | 2' X 2' |
| LB1 | LUMINII KENDO - KS-40K-SO-HF-FC-SA-E-1 | 120 V | 17W/Lamp | LED | 4000 K | UNDERCABINET | WALL MOUNTED | SURFACE | UNDERCABINET MED ROOM FIXTURE |
| X1 | LDE1AFAC | 120 V | 2.5W | LED | | T-BAR GRID | CEILING MOUNTED | | SINGLE FACE EDGE-LIT, GREEN RUNNING MAN STYLE EXIT LIGHT |
| X2 | LDEAAFAC | 120 V | 2.5W | LED | | T-BAR GRID | CEILING MOUNTED | | DOUBLE FACE CW ARROWS, EDGE-LIT, GREEN RUNNING MAN STYLE EXIT LIGHT |

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