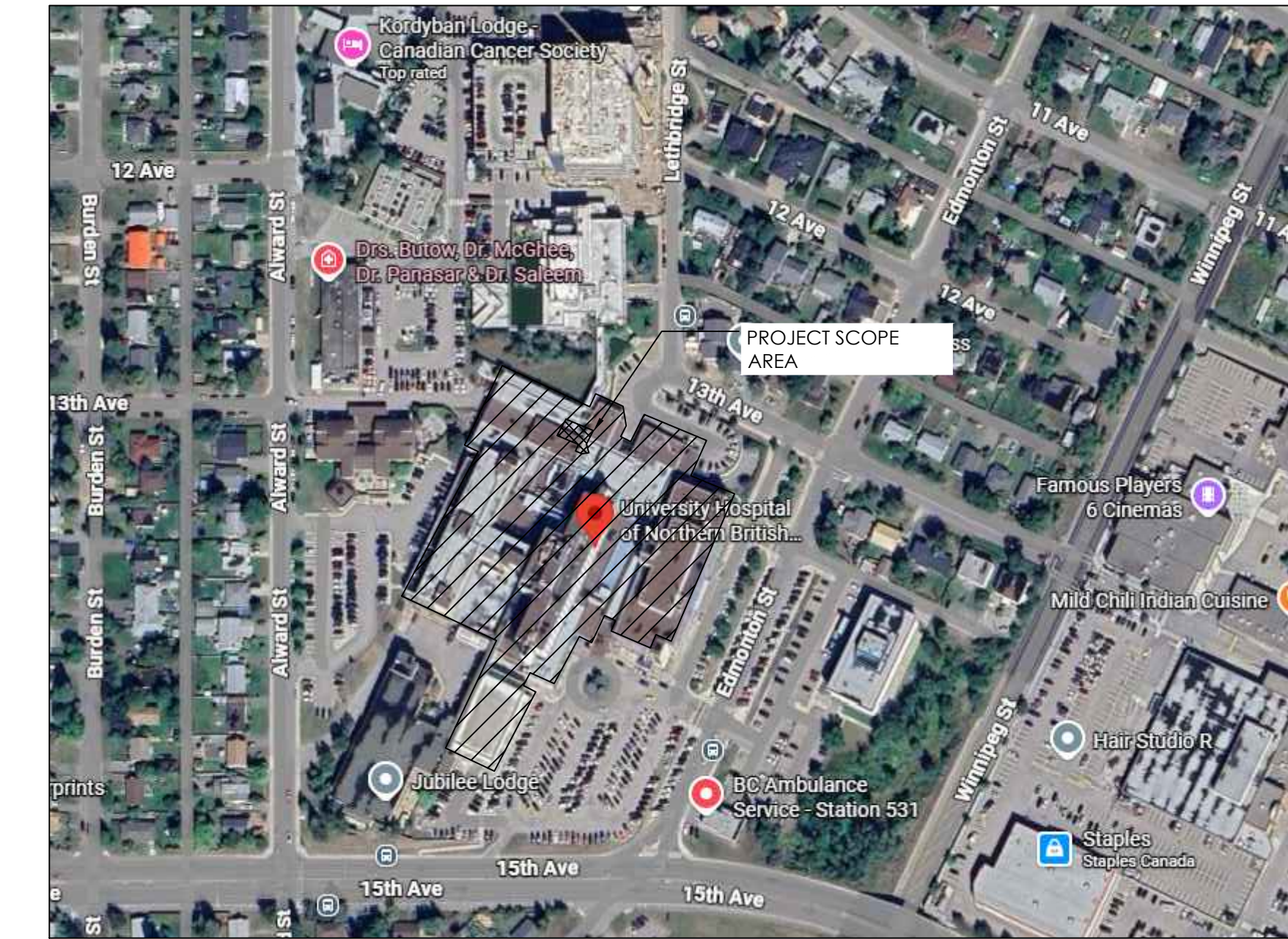


# UHN- DI CT 64 REPLACEMENT UNIVERSITY HOSPITAL OF NORTHERN BRITISH COLUMBIA

1475 EDMONTON ST, PRINCE GEORGE, BC0 V2M 1S2



1 SITE LOCATION  
E000 SCALE: N.T.S

LEGAL DESCRIPTION  
PID: 030-387-884  
LOT A, PLAN EPP61360, DISTRICT LOT 343, CARIBOO  
LAND DISTRICT, EXCEPT PLAN EPP61362  
ZONING: P3 & P7

## ELECTRICAL ENERGY DESIGN STATEMENT:

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| BC BUILDING CODE (BCBC):  | 2024                                                |
| CANADIAN ELECTRICAL CODE: | 2024 PART I (26TH EDITION)<br>CSA STANDARD C22.1.24 |
| ELECTRICAL DESIGN:        |                                                     |
| ENERGY STANDARD/CODE:     | ASHRAE 90.1-2016                                    |
| POWER COMPLIANCE PATH:    | PRESCRIPTIVE                                        |
| IN ACCORDANCE WITH:       | SECTION 8 (NC AND FIRST TI)                         |
| LIGHTING COMPLIANCE PATH: | PRESCRIPTIVE                                        |
| LIGHTING DESIGN METHOD:   | SPACE BY SPACE METHOD                               |
| IN ACCORDANCE WITH:       | SECTION 9 (NC AND FIRST TI)                         |
| OTHER EQUIPMENT PATH:     | PRESCRIPTIVE                                        |
| IN ACCORDANCE WITH:       | N/A                                                 |

| POWER AND COMMUNICATION OUTLETS                                                                                                                             |           |        |        |       |      |                                                                            |                |                      |                                                                                                                                                                                     |       |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|--------|-------|------|----------------------------------------------------------------------------|----------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------------------|
|                                                                                                                                                             |           | POWER  |        |       |      |                                                                            |                | PWR & COMM COMBO     |                                                                                                                                                                                     |       |                      |
|                                                                                                                                                             |           | SINGLE | DUPLEX | SPLIT | QUAD | CORD REEL DROP                                                             | SPE-<br>CIALTY | STRUCTURED<br>OUTLET | DATA                                                                                                                                                                                | VOICE | STRUCTURED<br>OUTLET |
| WALL                                                                                                                                                        | 5-1SR     |        |        |       |      | -                                                                          |                | -                    |                                                                                                                                                                                     |       |                      |
|                                                                                                                                                             | 5-1SR GFI |        |        |       |      | -                                                                          | -              | -                    | -                                                                                                                                                                                   | -     | -                    |
|                                                                                                                                                             | 5-20R     |        |        |       |      | -                                                                          | -              | -                    | -                                                                                                                                                                                   | -     | -                    |
|                                                                                                                                                             | 5-20R GFI |        |        |       |      | -                                                                          | -              | -                    | -                                                                                                                                                                                   | -     | -                    |
| FLOOR                                                                                                                                                       | 5-1SR     | -      |        | -     |      | -                                                                          | -              |                      |                                                                                                                                                                                     |       |                      |
|                                                                                                                                                             | 5-20R     | -      |        | -     |      | -                                                                          | -              |                      |                                                                                                                                                                                     |       | -                    |
| CEILING                                                                                                                                                     | 5-1SR     | -      |        | -     |      | -                                                                          | -              | -                    |                                                                                                                                                                                     |       |                      |
|                                                                                                                                                             | 5-20R     | -      |        | -     |      | -                                                                          | -              | -                    | -                                                                                                                                                                                   | -     | -                    |
|                                                                                                                                                             | W/ RCPT   | -      | -      | -     | -    |                                                                            |                | -                    | -                                                                                                                                                                                   | -     | -                    |
|                                                                                                                                                             | W/O RCPT  | -      | -      | -     | -    | -                                                                          |                | -                    | -                                                                                                                                                                                   | -     | -                    |
|                                                                                                                                                             |           | -      | -      | -     | -    | -                                                                          |                | -                    | -                                                                                                                                                                                   | -     | -                    |
| RECEPTACLE ABBREVIATIONS                                                                                                                                    |           |        |        |       |      | COMMUNICATION ABBREVIATIONS                                                |                |                      | COMMUNICATION NOTES:                                                                                                                                                                |       |                      |
| USB: C/W DUAL MIN. 3.1A USB PORTS.<br>IG: C/W ISOLATED GROUND<br>HP: HOSPITAL GRADE<br>WP: WEATHER PROOF<br>HK: HOUSE KEEPING<br>ARC: ARC FAULT PROTECTION. |           |        |        |       |      | WAP: WIRELESS ACCESS POINT.<br>C: CATV.<br>D: DATA<br>H: HDMI<br>V: VOICE. |                |                      | COMMUNICATION OUTLETS TO BE ANNOTATED<br>AS: #C FOR COAXIAL, #D FOR DATA, #V FOR<br>VOICE AND #H FOR HDMI DROPS.<br>IE: 1C/2D/2V/H INDICATES 1 CCTV, 2 DATA, 2<br>VOICE AND 1 HDMI. |       |                      |

| POWER |                                                                                  |
|-------|----------------------------------------------------------------------------------|
|       | PACPOLE BY ELECTRICAL CONTRACTOR                                                 |
|       | FURNITURE POLE SUPPLIED BY FURNITURE SUPPLIER,<br>WIRED BY ELECTRICAL CONTRACTOR |
|       | FURNITURE WHIP CONNECTION - POWER                                                |
|       | FURNITURE WHIP CONNECTION - COMMUNICATION                                        |
|       | JUNCTION BOX - WALL / FLOOR / CEILING                                            |
|       | PULL BOX - WALL / FLOOR / CEILING                                                |
|       | DIRECT EQUIPMENT CONNECTION                                                      |
|       | MOTOR CONNECTION                                                                 |
|       | MOTOR CONNECTION C/W DISCONNECT                                                  |
|       | MOTOR CONNECTION C/W DISCONNECT & MAGNETIC STARTER                               |
|       | DISCONNECT SWITCH                                                                |
|       | FUSED DISCONNECT SWITCH                                                          |
|       | DISCONNECT SWITCH C/W MAGNETIC STARTER                                           |
|       | MAGNETIC STARTER                                                                 |
|       | MOTOR RATED DISCONNECT SWITCH                                                    |
|       | CONDUIT RUN UP                                                                   |
|       | CONDUIT RUN DOWN                                                                 |
|       | CONDUIT STUB-OUT                                                                 |
|       | PUSH BUTTON                                                                      |
|       | THERMOSTAT                                                                       |
|       | GROUND BUS                                                                       |
|       | PANEL RECESSED                                                                   |
|       | PANEL SURFACE                                                                    |
|       | TRANSFORMER (SIZE VARY)                                                          |
|       | ROOM REFERENCE GROUND BUS                                                        |
|       | VARIOUS FREQUENCY DRIVE                                                          |
|       | ELECTRIC BASEBOARD HEATER                                                        |
|       | INDICATES ABOVE COUNTER                                                          |

| COMMUNICATIONS |                         |
|----------------|-------------------------|
|                | CLOCK - WALL / CEILING  |
|                | MEDIA PANEL             |
|                | INDICATES ABOVE COUNTER |

| SINGLE LINE DIAGRAM |                                                 |
|---------------------|-------------------------------------------------|
|                     | CIRCUIT BREAKER - 600V OR LESS                  |
|                     | DISCONNECT                                      |
|                     | DISCONNECT - FUSED                              |
|                     | FUSE - 600V OR LESS                             |
|                     | CURRENT TRANSFORMER                             |
|                     | POTENTIAL TRANSFORMER                           |
|                     | TRANSFORMER                                     |
|                     | DELTA-WYE / DELTA-DELTA CONNECTION              |
|                     | DELTA / WYE / GROUND CONNECTION                 |
|                     | JUNCTION BOX                                    |
|                     | PULL BOX                                        |
|                     | LIGHTNING ARRESTER                              |
|                     | UTILITY METER                                   |
|                     | DIGITAL METERING UNIT                           |
|                     | MOTOR OPERATOR FOR CIRCUIT BREAKERS OR SWITCHES |
|                     | INTERLOCK                                       |
|                     | PANELBOARD                                      |

| LIGHTING                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | TRACK LIGHTS TRACK / HEAD / TRACK & HEAD                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LED TAPE / 90°, 120°, 135°                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SURFACE 2x2                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SURFACE 4x1                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SURFACE 4x2                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SURFACE LINEAR (LENGTH VARY)                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RECESSED 2x2                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RECESSED 4x1                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RECESSED 4x2                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RECESSED LINEAR (LENGTH VARY)                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SUSPENDED 2x2                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SUSPENDED 4x1                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SUSPENDED 4x2                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | SUSPENDED LINEAR (LENGTH VARY)                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STRIP 2FT / 4FT / LINEAR (LENGTH VARY) - CEILING        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | STRIP 2FT / 4FT / LINEAR (LENGTH VARY) - WALL MOUNTED   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CEILING MOUNTED SURFACE (ARROW INDICATES DIRECTION)     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RECESSED - CEILING (ARROW INDICATES DIRECTION)          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RECESSED - UNDER CABINET MOUNTED                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | CEILING MOUNTED PENDANT / LINEAR (LENGTH VARY)          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WALL MOUNTED SURFACE                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WALL RECESSED LIGHT                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EM / NL - EMERGENCY OR NON-SWITCHED LIGHT AS INDICATED  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LINE VOLTAGE SWITCH - SINGLE GANG BOX                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LINE VOLTAGE SWITCH - DOUBLE GANG BOX                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LINE VOLTAGE SWITCH - TRIPLE GANG BOX                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LOW VOLTAGE SWITCH - SINGLE ZONE                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LOW VOLTAGE SWITCH - DUAL ZONES                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LOW VOLTAGE SWITCH - # INDICATE NUMBER OF CONTROL ZONES |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OCCUPANCY / VACANCY SENSOR - CEILING MOUNTED            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DAYLIGHT SENSOR - CEILING MOUNTED                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PHOTOCELL - CEILING OR WALL MOUNTED                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LIGHTING RELAY PANEL RECESSED                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LIGHTING RELAY PANEL SURFACE                            |
| LIGHTING WALL SWITCH AND LIGHTING ABBREVIATIONS                                                                                                                                                                                                                                                                                                                                                                                                              |                                                         |
| 3: 3 WAY SWITCH<br>OS: OCCUPANCY SENSOR.<br>ZOS: DUAL POLE OCCUPANCY SENSOR SWITCH (POLE a AUTO-ON / POLE b MANUAL-ON)<br>VS: VACANCY SENSOR<br>D: DIMMING<br>D-D: DIMMING AND OCCUPANCY SENSOR COMBO<br>DVS: DIMMING AND VACANCY SENSOR COMBO<br>T: TIME CONTROL SWITCH<br>MS: MASTER SWITCH<br>SB: SWITCH BANK<br>EM: EMERGENCY POWER SOURCE<br>NL: NIGHT LIGHT (NON-SWITCHED).<br>K: KEY SWITCH.<br>* ALL SENSORS SHALL BE SET 15 MINUTES OFF TIME DELAY. |                                                         |

| EMERGENCY LIGHTING |                                                                                      |
|--------------------|--------------------------------------------------------------------------------------|
|                    | EXIT SIGN WALL - FRONT FACE (ARROW INDICATES DIRECTION)                              |
|                    | EXIT SIGN WALL SIDE - SINGLE FACE (ARROW INDICATES DIRECTION)                        |
|                    | EXIT SIGN WALL SIDE - DOUBLE FACES (ARROW INDICATES DIRECTION)                       |
|                    | EXIT SIGN CEILING - SINGLE SIDED (ARROW INDICATES DIRECTION)                         |
|                    | EXIT SIGN CEILING - DOUBLE SIDED (ARROW INDICATES DIRECTION)                         |
|                    | WALL MOUNTED REMOTE HEADS - SINGLE OR TWIN.                                          |
|                    | CEILING MOUNTED REMOTE HEADS - SINGLE OR TWIN.                                       |
|                    | WALL MOUNTED BATTERY PACK                                                            |
|                    | WALL MOUNTED BATTERY PACK C/W TWIN HEADS                                             |
|                    | BATTERY PACK C/W TWIN HEADS AND EXIT SIGN (FRONT FACE)<br>- WALL OR CEILING MOUNTED  |
|                    | BATTERY PACK C/W TWIN HEADS AND EXIT SIGN (DIRECTIONAL)<br>- WALL OR CEILING MOUNTED |
|                    | WALL MOUNTED ZONE SENSING CONTROL BOX                                                |

ABBREVIATIONS: DW = DISHWASHER  
E = EXISTING EQUIPMENT TO REMAIN  
R = REMOVE EXISTING EQUIPMENT AND ASSOCIATED WIRING AND DEVICES  
ER = EXISTING EQUIPMENT TO BE RELOCATED  
ERR = EXISTING EQUIPMENT TO BE RELOCATED AND REPLACED WITH NEW  
RP = EXISTING EQUIPMENT IN RELOCATED POSITION  
RN = EXISTING EQUIPMENT TO BE REPLACED WITH NEW  
RE/RE = REMOVE AND REINSTALL EXISTING EQUIPMENT  
HE = HIGH ELEVATION (TO BE CONFIRMED WITH ARCHITECT)  
BP# = BATTERY PACK (# INDICATES BP NUMBER)  
GFCI = GROUND FAULT CIRCUIT INTERRUPTER  
WP = WEATHERPROOF  
ADO = AUTOMATIC DOOR OPERATOR  
+XX = DIMENSIONED HEIGHT ABOVE FINISHED FLOOR  
+FF = ABOVE FINISHED FLOOR  
RI = ROUGH-IN  
HK = HOUSEKEEPING RECEPTACLE  
EM = EMERGENCY POWERED DEVICE  
FR = FRIDGE (DEDICATED RECEPTACLE)  
MW = MICROWAVE (DEDICATED RECEPTACLE)

| DRAWING LIST |                                             |
|--------------|---------------------------------------------|
| NUM.         | TITLE                                       |
| E000         | COVER PAGE                                  |
| E010         | PARTIAL SINGLE LINE DIAGRAM                 |
| E020         | EXISTING AND NEW POWER AND LOW TENSION PLAN |
| E025         | EXISTING AND NEW LIGHTING PLAN              |
| E030         | ELECTRICAL DETAILS 1                        |
| E031         | ELECTRICAL DETAILS 2                        |

| FIRE ALARM |                                                         |
|------------|---------------------------------------------------------|
|            | FIRE ALARM IN-SUITE MINI HORN - WALL                    |
|            | FIRE ALARM IN-SUITE MINI HORN C/W SILENCE BUTTON - WALL |
|            | FIRE ALARM BELL                                         |
|            | FIRE ALARM HORN - WALL / CEILING MOUNTED                |
|            | FIRE ALARM HORN AND STROBE - WALL / CEILING MOUNTED     |
|            | FIRE ALARM STROBE - WALL / CEILING MOUNTED              |
|            | MANUAL PULL STATION                                     |
|            | SMOKE ALARM                                             |
|            | SMOKE DETECTOR                                          |
|            | DUCT SMOKE DETECTOR WITH TWO AUXILIARY CONTACTS         |
|            | FIRE ALARM CONTROL PANEL                                |
|            | ANNUNCIATOR PANEL                                       |
|            | DOOR HOLDER                                             |
|            | ISOLATION MODULE                                        |
|            | MONITOR MODULE                                          |
|            | INDIVIDUAL ADDRESSABLE MODULE                           |
|            | KITCHEN HOOD SYSTEM                                     |
|            | RELAY MODULE                                            |
|            | MAG-LOCK BYPASS                                         |
|            | FIRE ALARM BYPASS                                       |

| SECURITY AND DURESS CALL            |                                                                   |
|-------------------------------------|-------------------------------------------------------------------|
| VIDEO SURVEILLANCE                  |                                                                   |
|                                     | CCTV CAMERA (90 DEG / 180 DEG / 270 DEG) - WALL / CEILING MOUNTED |
|                                     | CCTV CAMERA (90 / 180 / 270 / 360 DEG) - CEILING MOUNTED          |
|                                     | CCTV CAMERA (90 / 270 DEG) - POLE MOUNTED                         |
|                                     | DOOR BUZZER - BELL                                                |
|                                     | CARD READER                                                       |
|                                     | CARD READER C/W KEY PAD                                           |
|                                     | REQUEST TO EXIT PUSH BUTTON                                       |
|                                     | REQUEST TO EXIT (BY DOOR HARDWARE CONSULTANT)                     |
|                                     | DOOR CONTACT                                                      |
|                                     | WINDOW CONTACT                                                    |
|                                     | ELECTRIC STRIKE                                                   |
|                                     | ELECTRIC HARDWARE                                                 |
|                                     | SECURITY DOOR ALARM MAGNETIC LOCK                                 |
|                                     | MAGNETIC LOCK RESET KEY SWITCH                                    |
|                                     | EMERGENCY LOCK DOWN                                               |
|                                     | ALARM CONTROL PANEL                                               |
|                                     | DOOR ACCESS CONTROL PANEL                                         |
|                                     | INTERCOM UNIT                                                     |
|                                     | MASTER INTERCOM AND DIRECTORY UNIT                                |
|                                     | SECURITY STROBE - WALL / CEILING MOUNTED                          |
|                                     | SECURITY ALARM - WALL / CEILING MOUNTED                           |
|                                     | SECURITY ALARM AND STROBE - WALL / CEILING MOUNTED                |
|                                     | PANIC ALARM PUSH BUTTON (WALL MOUNTED / UNDER DESK)               |
|                                     | MOTION DETECTOR - WALL / CEILING MOUNTED                          |
|                                     | GLASS BREAK DETECTOR - WALL / CEILING MOUNTED                     |
|                                     | SECURITY KEY PAD                                                  |
| SECURITY ABBREVIATIONS              |                                                                   |
| PTZ: PAN/TILT/ZOOM.<br>ML: MAG-LOCK |                                                                   |

| GENERAL |                                            |
|---------|--------------------------------------------|
|         | KEY NOTE - CIRCLE                          |
|         | KEY NOTE - HEXAGON                         |
|         | KEY NOTE - SQUARE                          |
|         | REVISION TRIANGLE                          |
|         | TEXT BOX                                   |
|         | GENERAL TAG BOX                            |
|         | MECHANICAL EQUIPMENT TAG / SLD FEEDER SIZE |
|         | LUMINAIRE TAG                              |
|         | PROCESS EQUIPMENT TAG                      |
|         | BRACKET                                    |
|         | BREAK / CONTINUATION MARK                  |

architect

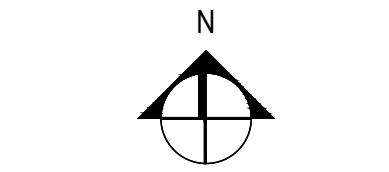
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Vancouver Montreal

|   |          |                   |     |
|---|----------|-------------------|-----|
| 5 | 26-08-14 | ISSUED FOR TENDER | A   |
| 4 | 26-07-17 | ISSUED FOR PERMIT | A   |
| 3 | 26-07-03 | ISSUED FOR 90% CD | A   |
| 2 | 26-02-12 | ISSUED FOR 60% CD | A   |
| 1 | 26-01-16 | ISSUED FOR 30% CD | A   |
| # | Date     | Description       | Rev |

Issue  
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Permit to Practice: #1051261



1475 EDMONTON ST  
PRINCE GEORGE, BC- V2M 1S2

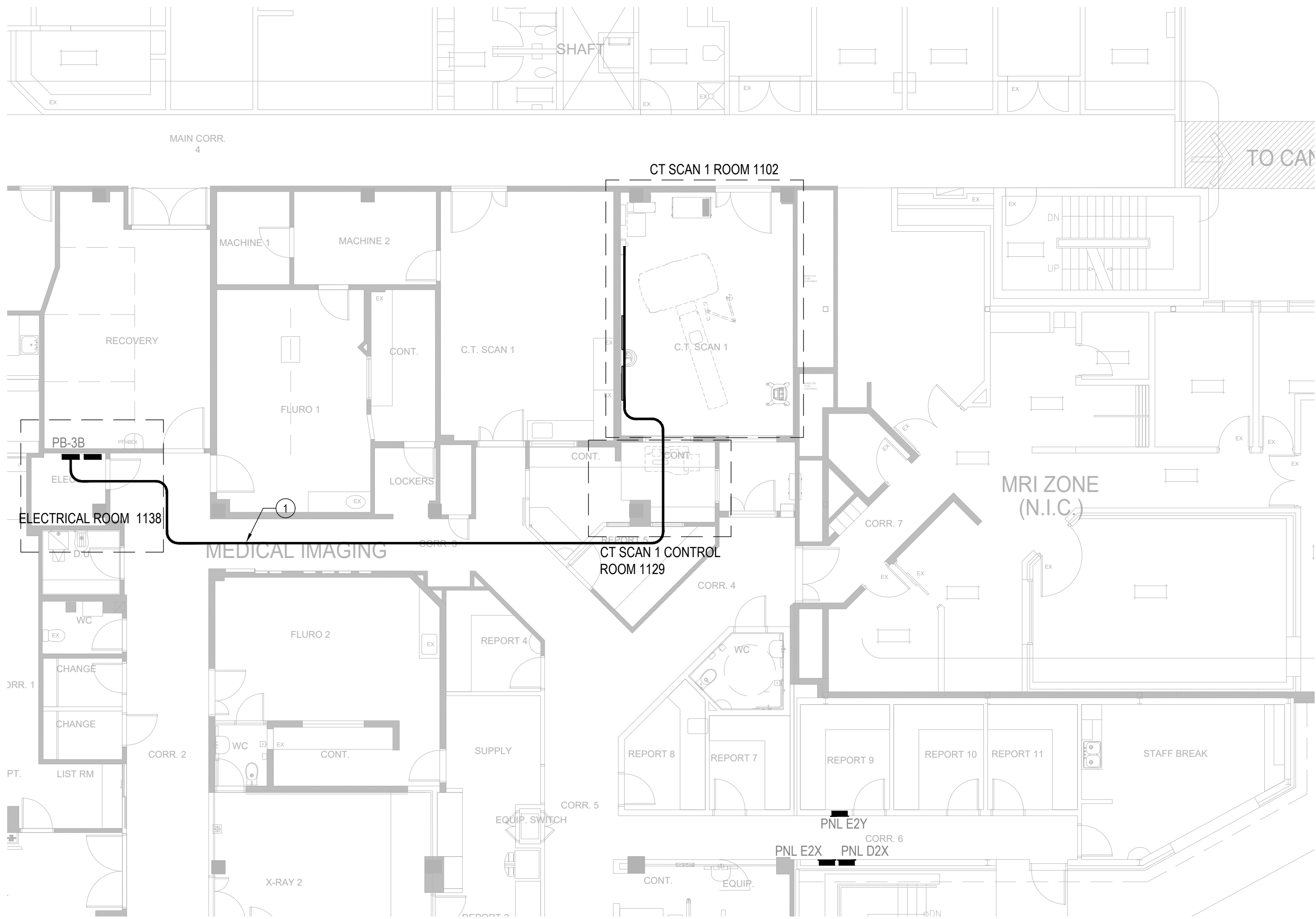


project number 25-642  
sheet title

COVER PAGE

|            |            |              |      |
|------------|------------|--------------|------|
| date       | 2026-01-07 | sheet number | E000 |
| scale      | AS SHOWN   | drawn by     | KL   |
| checked by | HY         | rev no.      | 01   |

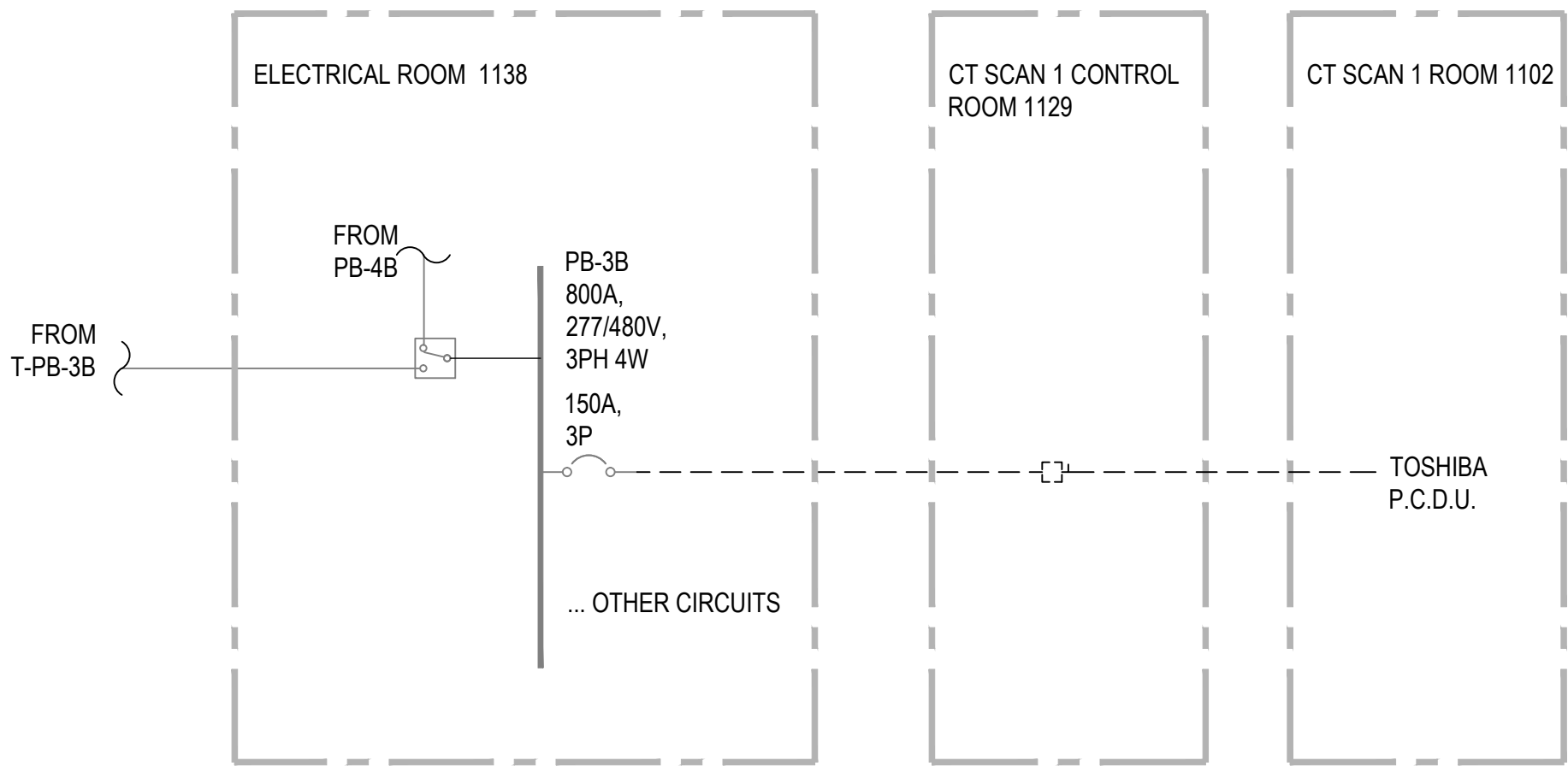
Drawing Name: S:\Proposals & Projects\2025\25-642 Nho Uhn DI CT 64 Replacement\3 Drawings\25-642\_E010\_SLD.dwg  
Plot Date : July 3, 2026 - 5:28 PM  
Last Saved By: ---



**1**  
E010  
**KEY PLAN**  
SCALE: 1:100

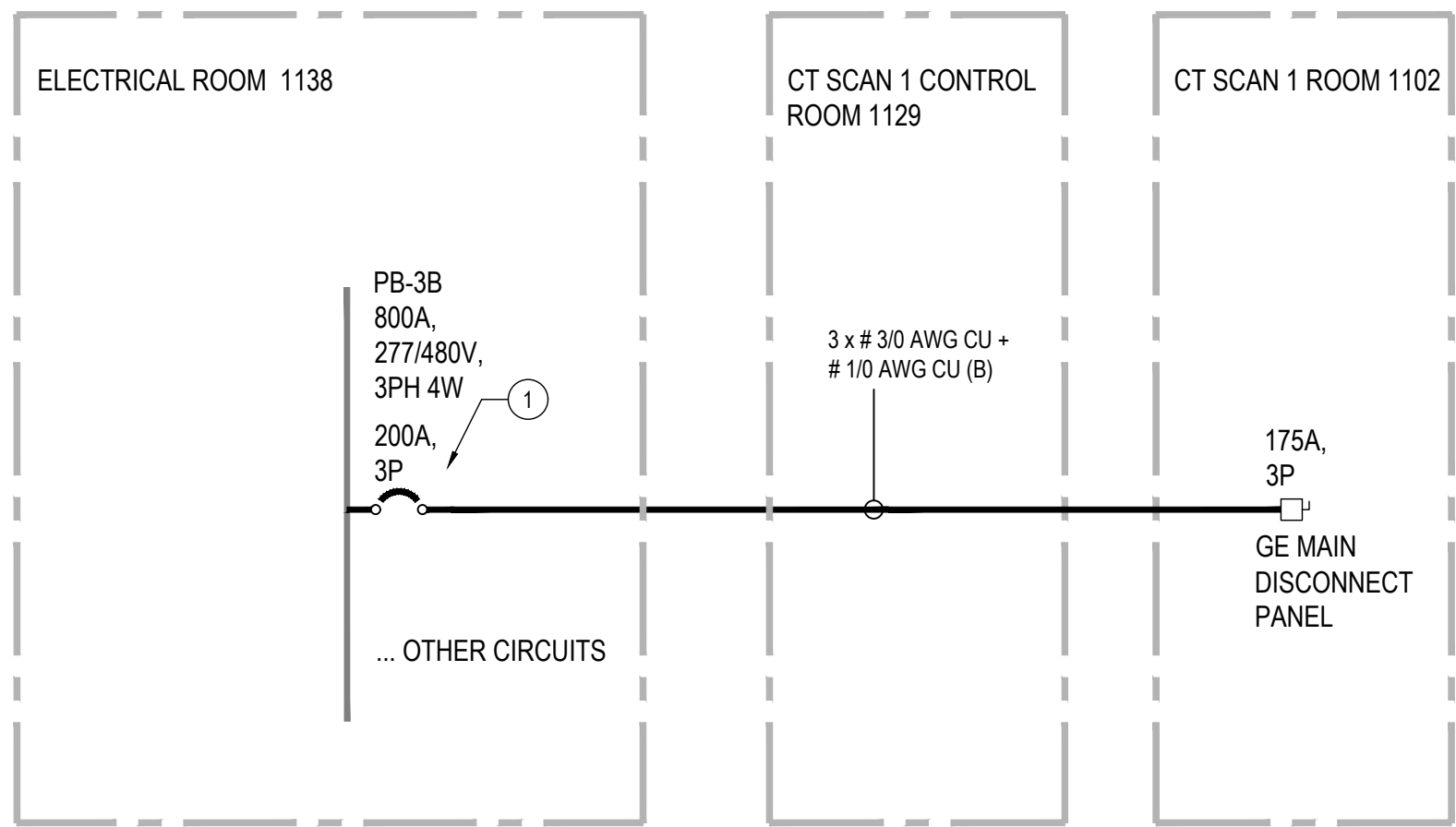
**DRAWING KEY NOTES:**

- CABLE ROUTING FOR THE NEW CT EQUIPMENT SHALL BE INSTALLED ABOVE THE CEILING, UTILIZING EXISTING CABLE TRAYS WHEREVER POSSIBLE. THE CONTRACTOR MUST VERIFY SITE CONDITIONS AND THE VIABILITY OF THE PROPOSED PATH PRIOR TO THE COMMENCEMENT OF THE CONSTRUCTION.



**2**  
E010  
**EXISTING SINGLE LINE DIAGRAM (PARTIAL)**  
SCALE: NTS

| LINE TYPE LEGEND |            |
|------------------|------------|
| ---              | DEMOLITION |
| —                | NEW        |
| - - -            | EXISTING   |



**3**  
E010  
**NEW SINGLE LINE DIAGRAM (PARTIAL)**  
SCALE: NTS

**DRAWING KEY NOTES:**

- PROVIDE AND INSTALL THE NEW 200 CIRCUIT BREAKER COMPATIBLE WITH THE EXISTING ELECTRICAL PANEL.

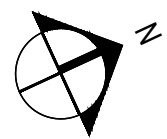
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| # | Date     | Description       | Rev |
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| 5 | 26-08-14 | ISSUED FOR TENDER | A   |
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| 1 | 26-01-16 | ISSUED FOR 30% CD | A   |

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PRINCE GEORGE, BC- V2M 1S2

seal

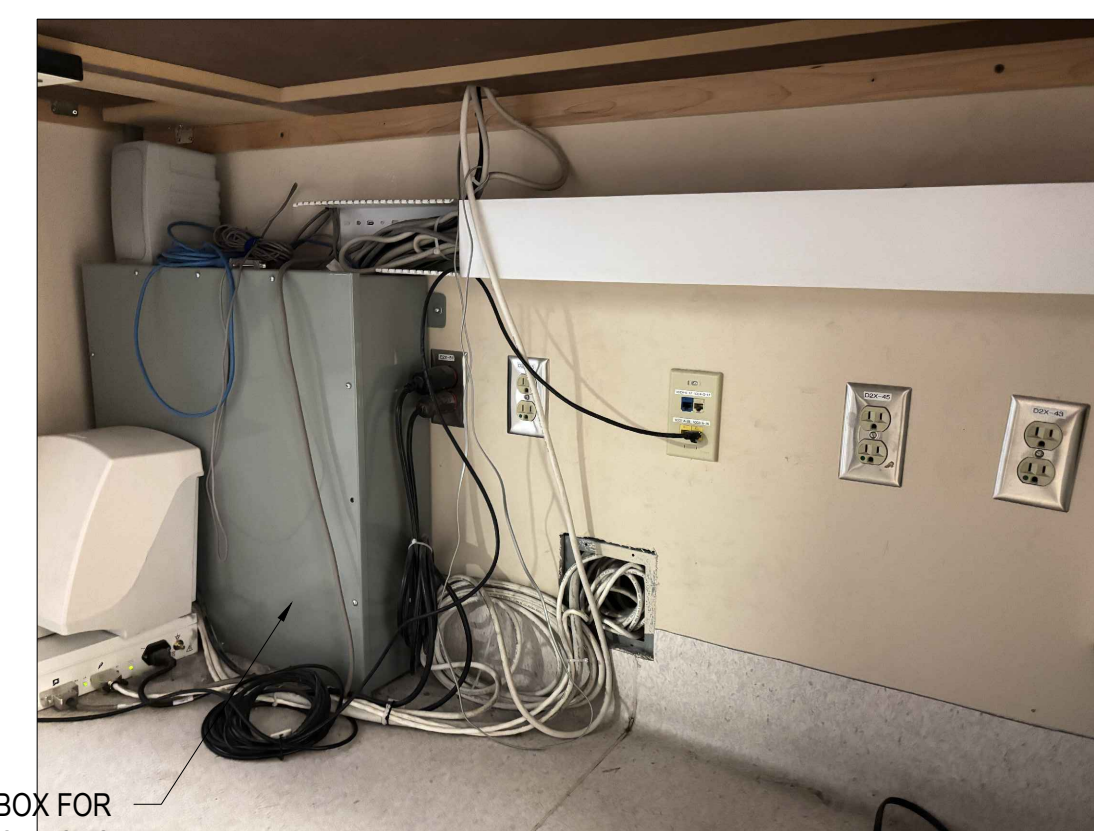
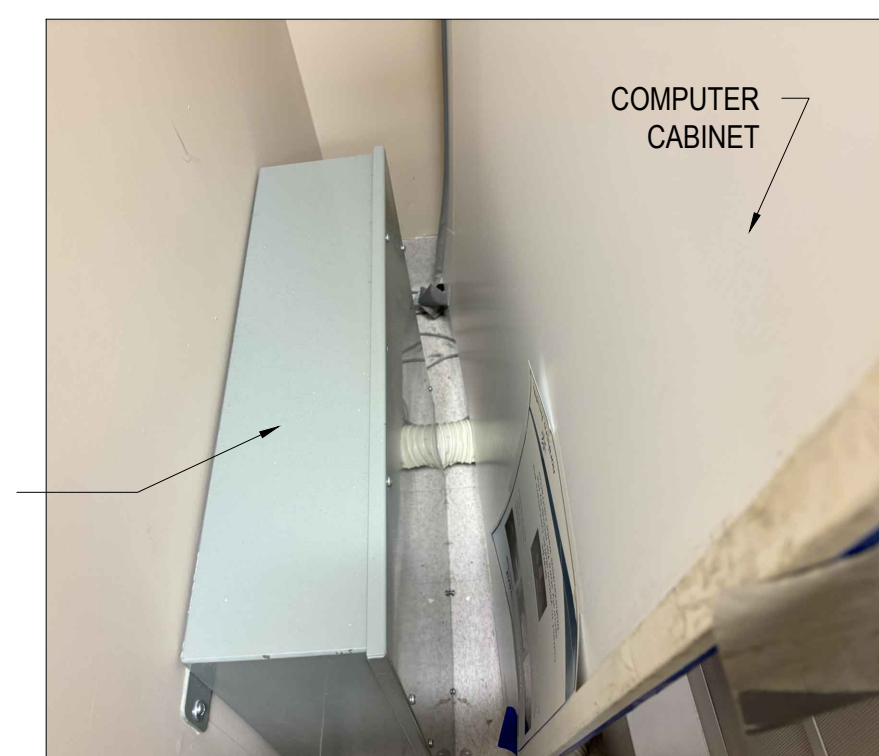
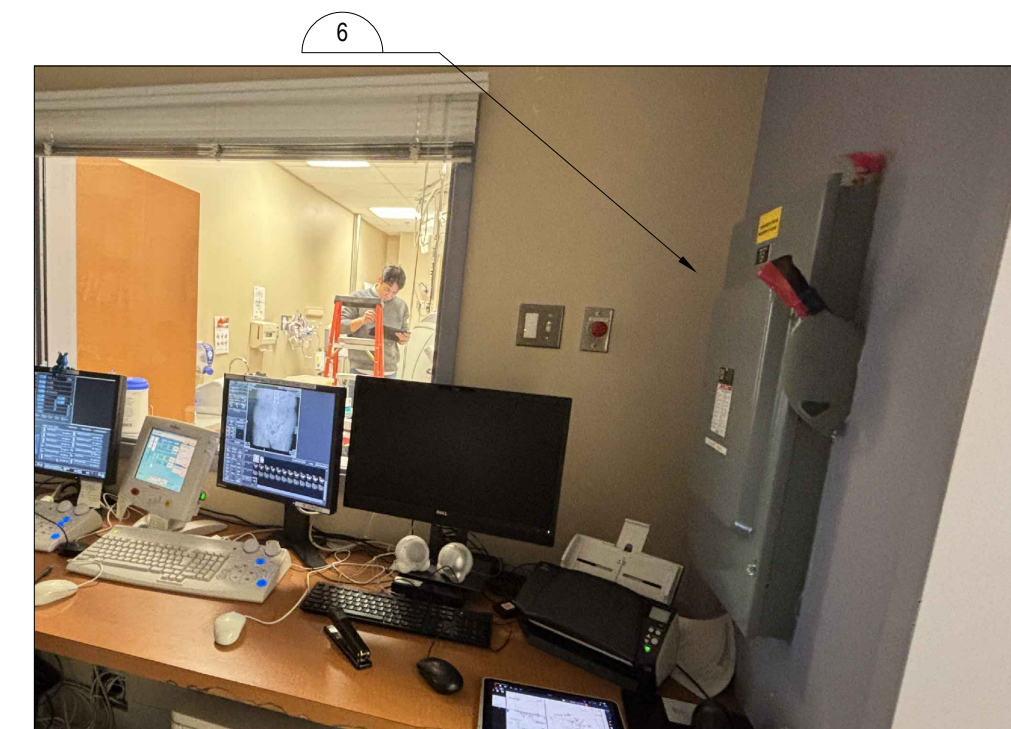
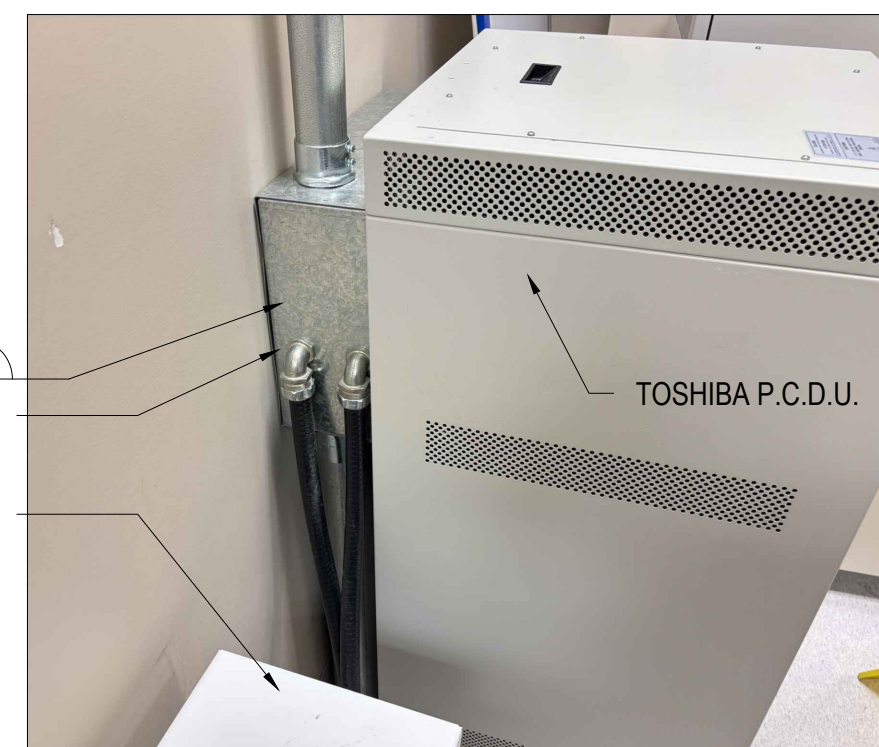
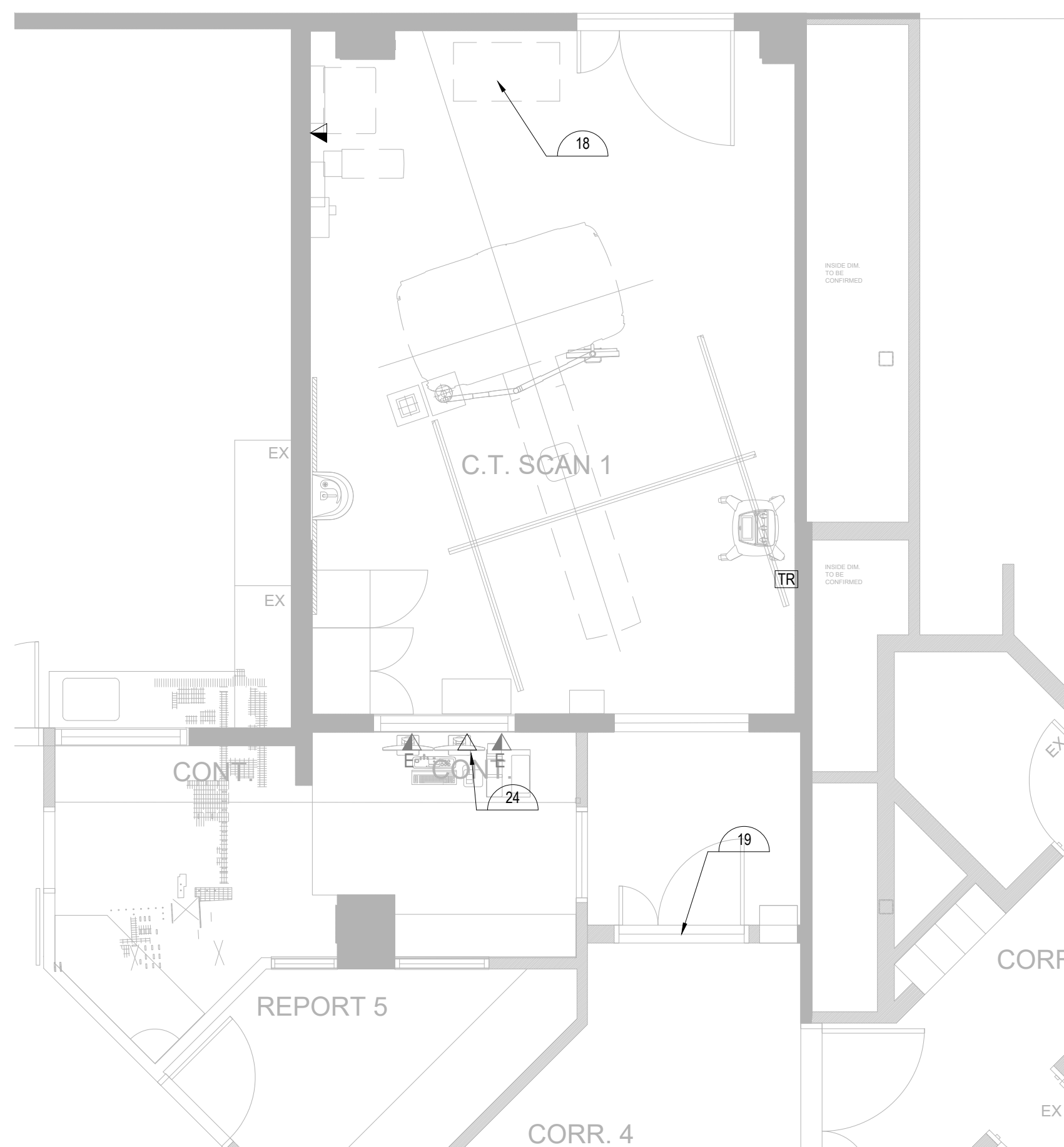
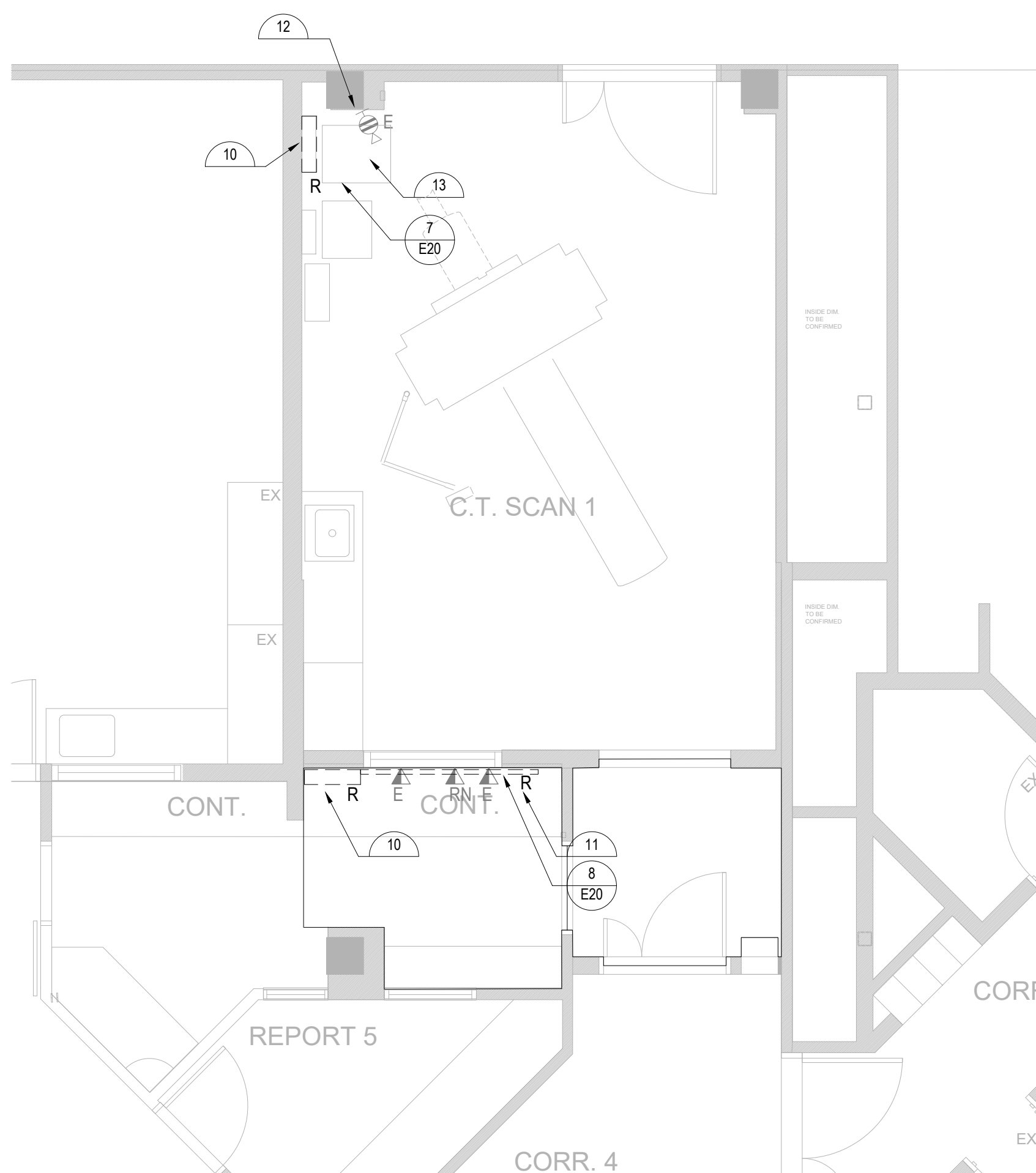
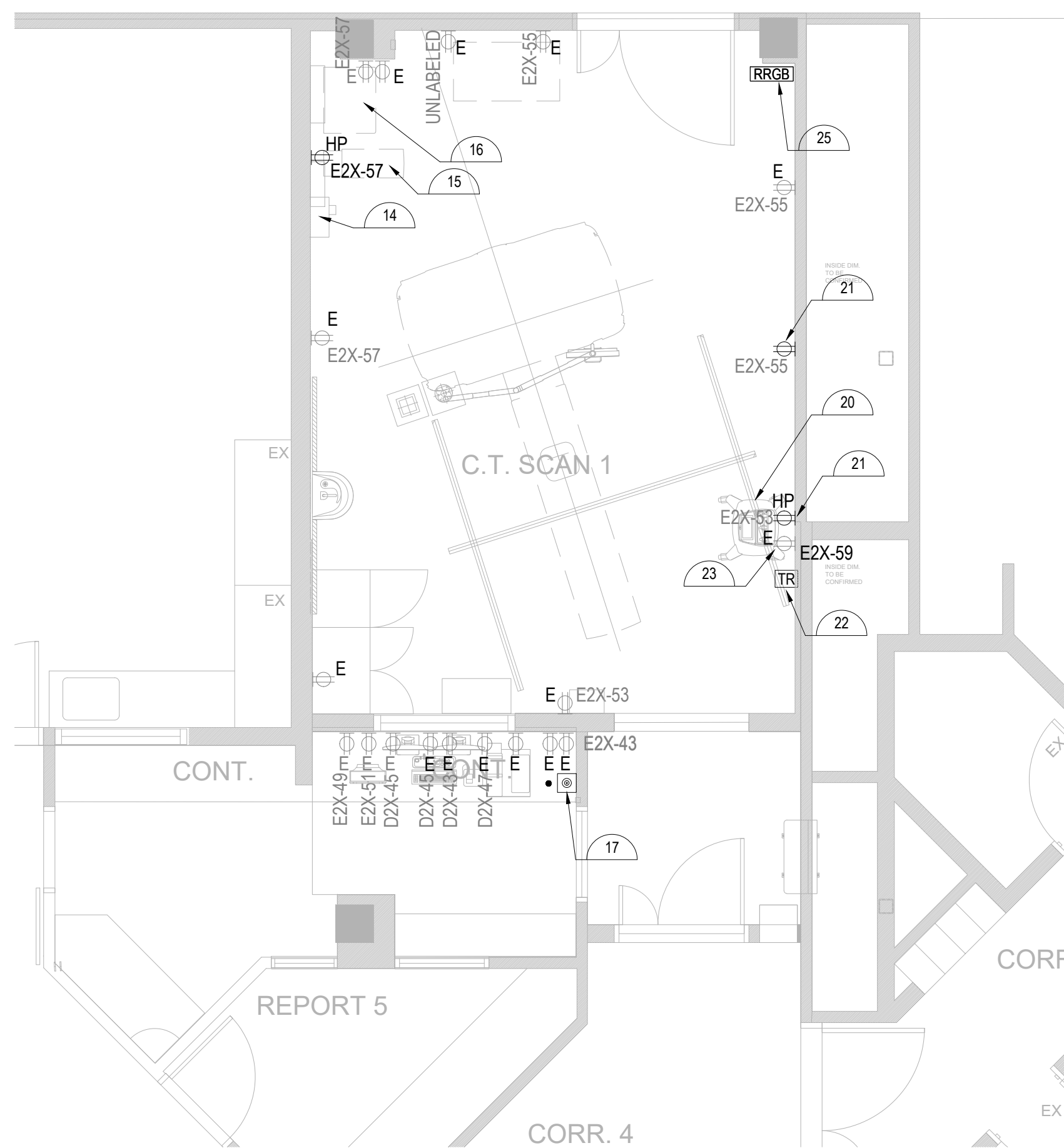
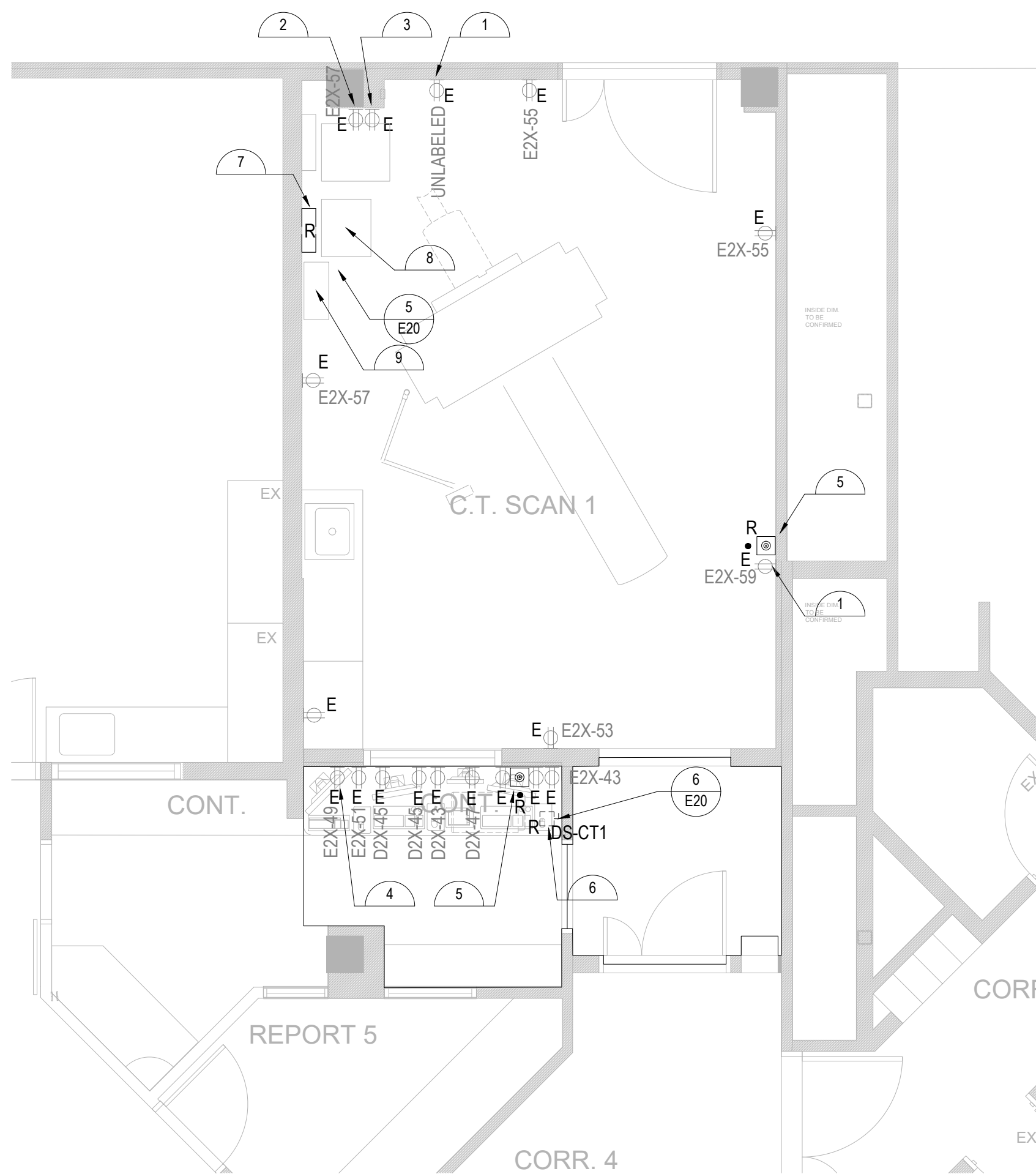


project number  
25-642

sheet title

PARTIAL SINGLE LINE  
DIAGRAM

|            |            |              |      |
|------------|------------|--------------|------|
| date       | 2026-01-07 | sheet number | E010 |
| scale      | AS SHOWN   | drawn by     | KL   |
| checked by | HY         | rev no.      | 01   |



GENERAL NOTES:

- A. ALL EXISTING RECEPTACLES LOCATED ABOUT 350 MM ABOVE THE FLOOR.
- B. ALL ELECTRICAL OUTLET BOXES AND TOTALLY ENCLOSED RACEWAYS THAT PARTLY OR WHOLLY PENETRATE AN ASSEMBLY REQUIRED TO HAVE A FIRE-RESISTANCE RATING WILL BE NONCOMBUSTIBLE. THIS INCLUDES ALL BACK BOXES FOR NEW AND EXISTING FIXTURES AND RECEPTACLES.
- C. ALL DEVICES SHOWN OUTSIDE OF THE CONSTRUCTION AREA ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. ENSURE DEVICES TO REMAIN CONTINUE TO WORK AND AREN'T IMPACTED. DO NOT REMOVE ANY CABLE/WIRING FOR OUTLETS OR EQUIPMENT THAT ARE NOT WITH THE CURRENT CONSTRUCTION SCOPE OF WORK AREA.
- D. ALL CABLEING THAT NEEDS MOVING OR TERMINATIONS REMOVED WILL BE LABELED PRIOR TO ANY WORK AND WILL BE RE-USED IF APPROPRIATE, OTHERWISE NEW CABLES WILL BE INSTALLED.
- E. THE INTENT OF THESE DRAWINGS IS TO AID BIDDING CONTRACTORS IN DETERMINING THE APPROXIMATE EXTENT OF THE EXISTING EQUIPMENT TO BE REMOVED AND THE EQUIPMENT TO BE RE-USED. THESE DRAWING ARE PROVIDED FOR THE BIDDING PROCESS AND ARE FOR INFORMATION PURPOSES ONLY. EXACT COUNTS AND EXTENT OF WORK TO BE REMOVED, RE-USED, RE-LOCATED IS TO BE DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR SHALL ALLOW FOR RELOCATION, RE-WIRING OF OUTLETS AND DEVICES WHICH ARE NOT SHOWN ON DRAWING BUT WHICH MAY BE FOUND AS WORK PROCEEDS. CONTRACTOR TO USE HIS EXPERIENCE AND BEST JUDGMENT FROM SITE VISIT AND WORK OF A SIMILAR NATURE TO DETERMINE HOW MUCH WORK THIS WILL entail. MAKE ALLOWANCE IN TENDER PRICE AS NECESSARY. THE CONTRACTOR IS TO ALLOW FOR SITE VISITS, PRIOR TO SUBMITTING TENDER, TO VERIFY ALL ITEMS THAT ARE TO BE REMOVED, REINSTALLED AND TO REMAIN OPERATIONAL.
- F. NEW PENETRATIONS AND CORING WILL BE REQUIRED. CT SCANNING IS REQUIRED FOR ALL PENETRATIONS AND CORING. CT SCANNING REPORTS TO BE REVIEWED AND APPROVED BY STRUCTURAL ENGINEER PRIOR TO ANY PENETRATIONS AND CORING.
- B. CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWING TO DETERMINE THE EXACT EXTENT OF THE BUILDING DEMOLITION WORK BEING DONE.
- C. ALL REDUNDANT, UNUSED WIRING AND JUNCTION BOXES, INCLUDING ANY WIRING IN THE CEILING SPACE SHALL BE REMOVED BY THIS CONTRACTOR. ALL UNUSED WIRING SHALL BE REMOVED BACK TO SOURCE AND MADE SAFE.
- D. ALL DEVICES SHOWN WITHIN THE DEMOLITION AREA INDICATED TO BE REMOVED & REINSTALLED ARE TO BE REMOVED AND STORED FOR REUSE, & REINSTALLED DURING RENOVATION. UNLESS OTHERWISE NOTED, THE CONTRACTOR IS TO REVIEW ARCHITECTURAL DRAWING AND REVIEW THE SITE IN DETAIL, TO DETERMINE THE EXACT QUANTITIES AND LOCATIONS OF ELECTRICAL EQUIPMENT INCLUDED IN THE DEMOLITION AREA. ALLOW FOR REMOVAL AND REINSTALLATION OF PANELS, DEVICES AND ALL ASSOCIATED WIRING & CONDUIT.
- E. FOR ALL ITEMS INDICATED TO BE REMOVED, REMOVE ITEMS INCLUDING CONDUIT AND WIRING ALL THE WAY BACK TO THE NEAREST PANELBOARD OR SOURCE AND MAKE IT SAFE. DISPOSE OF WASTE MATERIALS APPROPRIATELY, OR RECYCLE AS APPLICABLE. STORE ITEMS FOR REUSE, SUCH AS LUMINAIRES, FIRE ALARM DEVICES, SECURITY DEVICES, AND PANELBOARD WHERE INDICATED. HAND OVER ITEM TO OWNER FOR REUSE, IF REQUIRED BY OWNER.
- F. FIRE ALARM AND OTHER LIFE SAFETY SYSTEM DEVICES SHALL BE PROPERLY PROTECTED AND REMAIN OPERATIONAL DURING AND AFTER DEMOLITION. WHERE FIRE ALARM DEVICES ARE REQUIRED TO BE RELOCATED TO FACILITATE CONSTRUCTION ACTIVITIES, RECONNECT AND PERFORM RE-VERIFICATION AS REQUIRED.

DRAWING KEY NOTES:

1. EXISTING RECEPTACLE LOCATED ABOUT 200MM BELOW THE CEILING.
2. EXISTING CAMERA RECEPTACLE RELOCATED ABOUT 1850MM ABOVE THE FLOOR.
3. EXISTING PATIENT LIFT RECEPTACLE LOCATED ABOUT 200MM BELOW THE CEILING.
4. EXISTING MONITOR RECEPTACLE LOCATED ABOUT 200MM BELOW THE CEILING.
5. EXISTING PUSH BUTTON FOR EMERGENCY POWER SHUT DOWN LOCATED ABOUT 1200MM ABOVE THE FLOOR.
6. EXISTING DISCONNECT OF EXISTING CT FEED FROM PB-3B IN ELECTRICAL ROOM 113B.
7. EXISTING PULL BOX (305x476.25x152mm) FOR POWER WIRES.
8. EXISTING TOSHIBA MAIN POWER BOX (P.C.D.U.).
9. EXISTING TOSHIBA UPS.
10. EXISTING PULL BOX (609x609x152mm) FOR COMMUNICATION WIRES.
11. EXISTING COMMUNICATION RACEWAY UNDER THE DESK.
12. EXISTING CAMERA.
13. EXISTING TOSHIBA COMPUTER CABINET (RECONSTRUCTION).
14. NEW GE CT MAIN DISCONNECT PANEL (MDP) FEED FROM PB-3B IN ELECTRICAL ROOM 113B.
15. NEW GE PARTIAL UPS
16. NEW GE POWER DISTRIBUTION UNIT
17. NEW GE EMERGENCY OFF BUTTON
18. NEW GE COMPUTER CABINET
19. NEW CT ROOM SIGNAGE (LOW VOLTAGE, REFER TO GE DRAWINGS FOR DETAILS)
20. NEW CENTAGO INJECTOR
21. NEW RECEPTACLE 450MM ABOVE THE FLOOR
22. NEW GULDMANN PATIENT LIFT TRANSFORMER
23. EXISTING RECEPTACLE LOCATES ABOUT 200MM BELOW THE CEILING FOR THE NEW PATIENT LIFT
24. DEDICATED TELEPHONE LINE
25. ROOM REFERENCE GROUND LOCATION SHOULD BE CONFIRMED ONSITE BY THE CONTRACTOR. REUSE THE EXISTING REFERENCE GROUND WHERE AVAILABLE

Drawing Name: S:\projects & Projects\2025\25-642 Nha Dn Ct 14 Replacement\3 Drawings\25-642\_E020\_PLANS.dwg  
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#### GENERAL NOTES:

- ALL ELECTRICAL OUTLET BOXES AND TOTALLY ENCLOSED RACEWAYS THAT PARTLY OR WHOLLY PENETRATE AN ASSEMBLY REQUIRED TO HAVE A FIRE-RESISTANCE RATING WILL BE NONCOMBUSTIBLE. THIS INCLUDES ALL BACK BOXES FOR NEW AND EXISTING FIXTURES AND RECEPTACLES.
- NEW LIGHTS ARE TO UTILIZED EXISTING LIGHTING CIRCUITS WITH UPDATED LIGHTING CONTROL SYSTEM. EXTEND WIRING AND CONDUIT AS REQUIRED TO NEW LIGHTS. PROVIDE ROOM CONTROLLER, LOW VOLTAGE SWITCHES AND OCCUPANCY / VACANCY SENSOR AS REQUIRED.
- CONTRACTOR SHALL REVIEW AND COORDINATE WITH ARCHITECTURAL DRAWING TO DETERMINE THE EXACT EXTENT OF THE BUILDING DEMOLITION WORK BEING DONE.
- ALL REDUNDANT, UNUSED WIRING AND JUNCTION BOXES, INCLUDING ANY WIRING IN THE CEILING SPACE SHALL BE REMOVED BY THIS CONTRACTOR. ALL UNUSED WIRING SHALL BE REMOVED BACK TO SOURCE AND MADE SAFE.
- ALL DEVICES SHOWN OUTSIDE OF THE DEMOLITION AREA ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE. ENSURE DEVICES TO REMAIN CONTINUE TO WORK AND ARE NOT IMPACTED. DO NOT REMOVE ANY CABLING/WIRING FOR OUTLETS OR EQUIPMENT THAT ARE NOT WITH THE CURRENT CONSTRUCTION SCOPE OF WORK AREA.
- ALL DEVICES SHOWN WITHIN THE DEMOLITION AREA INDICATED TO BE REMOVED & REINSTALLED ARE TO BE REMOVED AND STORED FOR REUSE, AND REINSTALLED DURING RENOVATION, UNLESS OTHERWISE NOTED. THE CONTRACTOR IS TO REVIEW ARCHITECTURAL DRAWING AND REVIEW THE SITE IN DETAIL TO DETERMINE THE EXACT QUANTITIES AND LOCATIONS OF ELECTRICAL EQUIPMENT INCLUDED IN THE DEMOLITION AREA. ALLOW FOR REMOVAL AND REINSTALLATION OF PANELS, DEVICES AND ALL ASSOCIATED WIRING & CONDUIT.

#### DRAWING KEY NOTES:

- THE LIGHTING FIXTURES SHALL BE CONNECTED TO THE EXISTING LIGHTING CIRCUIT POWERING THE EXISTING LIGHTS (E2Y-1 FOR TYPE L2 LIGHTS AND E2Y-3 FOR TYPE L1).
- THE LIGHTING FIXTURES SHALL BE CONNECTED TO THE EXISTING LIGHTING CIRCUIT POWERING THE EXISTING LIGHTS (E2Y-9 FOR TYPE L1).
- THE LIGHTING FIXTURES SHALL BE CONNECTED TO THE EXISTING LIGHTING CIRCUIT POWERING THE EXISTING LIGHTS (E2Y-3).

- FOR ALL EXISTING DEVICES INDICATED AS EXISTING TO REMAIN, OR NOT INDICATED TO BE REMOVED, REMOVE AND REINSTALL AS REQUIRED TO ALLOW FOR DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE WITH OTHER TRADES FOR THIS WORK. LUMINAIRES AND OTHER CEILING MOUNTED DEVICES, WHICH ARE TO REMAIN, SHALL REMAIN OPERATIONAL AND SHALL BE PROPERLY SUPPORTED AFTER DEMOLITION.
- FOR ALL ITEMS INDICATED TO BE REMOVED, REMOVE ITEMS INCLUDING CONDUIT AND WIRING ALL THE WAY BACK TO THE NEAREST PANELBOARD OR SOURCE AND MAKE IT SAFE. DISPOSE OF WASTE MATERIALS APPROPRIATELY, OR RECYCLE AS APPLICABLE. STORE ITEMS FOR REUSE, SUCH AS LUMINAIRES, FIRE ALARM DEVICES, SECURITY DEVICES, AND PANELBOARD WHERE INDICATED. HAND OVER ITEM TO OWNER FOR REUSE, IF REQUIRED BY OWNER.
- THE INTENT OF THESE DRAWING IS TO AID BIDDING CONTRACTORS IN DETERMINING THE APPROXIMATE EXTENT OF THE EXISTING EQUIPMENT TO BE REMOVED AND THE EQUIPMENT TO BE RE-USED. THESE DRAWING ARE PROVIDED FOR THE BIDDING PROCESS AND ARE FOR INFORMATION PURPOSES ONLY. EXACT COUNTS AND EXTENT OF WIRING TO BE REMOVED, RE-USED, RELOCATED IS TO BE DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR SHALL ALLOW FOR RELOCATION, RE-WIRING OF OUTLETS AND DEVICES WHICH ARE NOT SHOWN ON DRAWING BUT WHICH MAY BE FOUND AS WORK PROCEEDS. CONTRACTOR TO USE HIS EXPERIENCE AND BEST JUDGMENT FROM SITE VISIT AND WORK OF A SIMILAR NATURE TO DETERMINE HOW MUCH WORK THIS WILL ENTAIL. MAKE ALLOWANCE IN TENDER PRICE AS NECESSARY. THE CONTRACTOR IS TO ALLOW FOR SITE VISITS, PRIOR TO SUBMITTING TENDER, TO VERIFY ALL ITEMS THAT ARE TO BE REMOVED, REINSTALLED AND TO REMAIN OPERATIONAL.
- ALL CABLING THAT NEEDS MOVING OR TERMINATIONS REMOVED WILL BE LABELED PRIOR TO ANY WORK AND WILL BE RE-USED IF APPROPRIATE, OTHERWISE NEW CABLES WILL BE INSTALLED.

3  
E025 LUMINAIRE SCHEDULE  
SCALE: N.T.S.

| LUMINAIRE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                     |                                                    |                  |                                                        |                |                   |           |                  |                       |                  |                       |        |                   |         |          |           |                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|------------------|--------------------------------------------------------|----------------|-------------------|-----------|------------------|-----------------------|------------------|-----------------------|--------|-------------------|---------|----------|-----------|---------------------------------------------------------------------------------------------|
| TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IMAGE                                                                               | GENERAL DESCRIPTION                                | PRODUCT DETAILS  |                                                        | SOURCE DETAILS |                   |           |                  | ELECTRONICS / CONTROL |                  |                       |        |                   | GENERAL |          |           | NOTES                                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     |                                                    | MANUFACTURER     | CATALOGUE NUMBER                                       | TYPE           | COLOR TEMPERATURE | CRI (MIN) | DELIVERED LUMENS | VOLTAGE               | DIMMING PROTOCOL | MINIMUM DIMMING LEVEL | LOAD   | INTEGRAL CONTROLS | FINISH  | MOUNTING | IP RATING | NOTES                                                                                       |
| L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 2'x4' LED RECESSED PANEL                           | METALUX          | 24CGTX55HE-L940                                        | LED            | 4000K             | 90        | 5500             | 120V                  | 0-10V            | 10%                   | 41.3 W | N/A               | WHITE   | RECESSED | N/A       |                                                                                             |
| L2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 2'x4' LED RECESSED PANEL WITH COMBINATION PATTERNS | MAC'S I AGENCIES | CVEN-24-4-LD2-UNV-EDD1-CLOUD3-124-MS04-PK              | LED            | 4000K             | 80        | 6700             | 120V                  | 0-10V            | 10%                   | 67 W   | N/A               | WHITE   | RECESSED | N/A       | 2' x 4' PICTURE LIGHT; IMAGES TO BE ORDERED FOR FUTURE CHANGES: TREE3, TREES, CLOUD3, PALM4 |
| L3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 4' LED DOWN LIGHT                                  | LIGHTHEAD        | FIXTURE: 2-120-T-01-BLO-BRO40-35-9008 HOUSING: D4B-F-R | LED            | 3500K             | 90        | 800              | 120V                  | 0-10V            | 10%                   | 9 W    | N/A               | WHITE   | RECESSED | N/A       | CONFIRM FLANGE FINISH AND REFLECTOR FINISH PRIOR TO ORDERING.                               |
| L4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 1'x4' LED RECESSED PANEL                           | METALUX          | 14CGTX42HE-L940                                        | LED            | 4000K             | 90        | 4200             | 120V                  | 0-10V            | 10%                   | 31.9 W | N/A               | WHITE   | RECESSED | N/A       |                                                                                             |
| <p>GENERAL NOTES:</p> <p>A) ALL CATALOGUE NUMBERS SHALL BE VERIFIED WITH MANUFACTURER PRIOR TO ORDERING.</p> <p>A) ALL LUMINAIRE FINISHES SHALL BE REVIEWED AND APPROVED BY ARCHITECT PRIOR TO ORDERING.</p> <p>B) ALL JUNCTION BOXES FOR SURFACE MOUNT LUMINAIRES SHALL NOT BE WIDER THAN THE LUMINAIRE MOUNTING PLATE.</p> <p>C) COORDINATE MOUNTING HEIGHT OF ALL WALL MOUNTED LUMINAIRES WITH ARCHITECT PRIOR TO ROUGH-IN. COORDINATE SUSPENSION HEIGHT OF ALL SUSPENDED LUMINAIRES WITH ARCHITECT PRIOR TO INSTALLATION.</p> <p>D) ELECTRICAL CONTRACTOR SHALL ALLOW A MINIMUM OF 10 BUSINESS DAYS FOR INITIAL REVIEW OF ENTIRE LIGHTING SHOP DRAWING PACKAGE. NO DELAY CLAIMS WILL BE ALLOWED FOR ANY SUBSEQUENT REVIEW TIME REQUIRED DUE TO INCORRECT SHOP DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE LUMINAIRES ARE DELIVERED IN A TIMELY MANNER TO THE SITE. NO EXTRAS</p> <p>E) WILL BE ALLOWED FOR SUBSTITUTIONS OR RUSH CHARGES REQUIRED TO MEET PROJECT SCHEDULE AND MUST BE ALLOWED FOR IN TENDER PRICE</p> <p>F) ALL CONTROLS INTEGRATED WITH LUMINAIRES TO BE COMMISSIONED ON SITE AFTER INSTALL. CONTRACTOR TO ENSURE THAT ALLOWANCE IS MADE FOR ADJUSTING AND COMMISSIONING OF ALL CONTROLS AS REQUIRED.</p> <p>G) TYPE OF CONSTRUCTION FOR ALL CEILINGS SHALL BE COORDINATED WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING MOUNTING KITS. CONTRACTOR TO OBTAIN A SET OF IFC ARCHITECTURAL DRAWINGS AND COORDINATE MOUNTING WITH CEILING TYPES SHOWN. NO EXTRAS WILL BE ALLOWED FOR RE-ORDERING OF LUMINAIRES OR MOUNTING KITS TO MATCH CEILING TYPES SHOWN ON ARCHITECTURAL PLANS. MOUNTING HEIGHT OF ALL SUSPENDED LUMINAIRES TO BE ADJUSTABLE ON SITE, AND CONTRACTOR TO COORDINATE ON SITE UNDER DIRECTION OF CONSULTANT.</p> <p>H) FUNCTIONAL COMMISSIONING TESTING SHALL BE CONDUCTED BY A THIRD PARTY THAT IS NOT DIRECTLY INVOLVED IN EITHER THE DESIGN OR CONSTRUCTION OF THE PROJECT AND SHALL PROVIDE DOCUMENTATION CERTIFYING THAT THE INSTALLED LIGHTING CONTROLS MEET OR EXCEED ALL DOCUMENTED PERFORMANCE CRITERIA. CERTIFICATION SHALL BE IN CONFORMANCE WITH ASHRAE 90.1-2019 - FUNCTIONAL TESTING.</p> <p>CONTRACTOR SHALL PROPERLY MOUNT ALL LUMINAIRES AS PER MANUFACTURERS RECOMMENDATIONS AND PROVIDE PROPER SEISMIC SUPPORT. PROVIDE SEISMIC ENGINEERS REVIEW AND SCHEDULES AFTER INSTALLATION.</p> <p>SEISMIC RESTRAINTS OF FIXTURES PER FHA'S REQUIREMENTS.</p> |                                                                                     |                                                    |                  |                                                        |                |                   |           |                  |                       |                  |                       |        |                   |         |          |           |                                                                                             |

4  
E025 LIGHTING CONTROL SCHEDULE  
SCALE: N.T.S.

| LIGHTING SEQUENCE OF OPERATIONS |                                                              |                                         |                                                                     |
|---------------------------------|--------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------|
| AREA                            | LIGHTING CONTROL TECHNOLOGY                                  | MEANS TO TURN ON LUMINAIRE              | MEANS TO TURN OFF LUMINAIRE                                         |
| CT SCAN ROOM                    | - DIMMING CONTROL<br>- WALL MOUNTED, ON/OFF SWITCHES         | - MANUAL ON<br>- MANUAL DIMMING CONTROL | - MANUAL OFF                                                        |
| CT CONTROL ROOM                 | - DIMMING CONTROL<br>- LOCAL WALL MOUNTED, ON/OFF SWITCHES   | - MANUAL ON                             | - AUTOMATICALLY OFF AFTER 20 MINS OF VACANCY<br>- MANUAL OFF        |
| HALLWAY                         | - OCCUPANCY SENSORS<br>- LOCAL WALL MOUNTED, ON/OFF SWITCHES | - AUTO FULL ON<br>- MANUAL FULL ON      | - AUTOMATICALLY DIM TO 50% AFTER 20 MINS OF VACANCY<br>- MANUAL OFF |

architect

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Vancouver Montreal

| # | Date     | Description       | Rev |
|---|----------|-------------------|-----|
| 5 | 26-08-14 | ISSUED FOR TENDER | A   |
| 4 | 26-07-17 | ISSUED FOR PERMIT | A   |
| 3 | 26-07-03 | ISSUED FOR 90% CD | A   |
| 2 | 26-02-12 | ISSUED FOR 60% CD | A   |
| 1 | 26-01-16 | ISSUED FOR 30% CD | A   |

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1475 EDMONTON ST  
PRINCE GEORGE, BC- V2M 1S2

seal



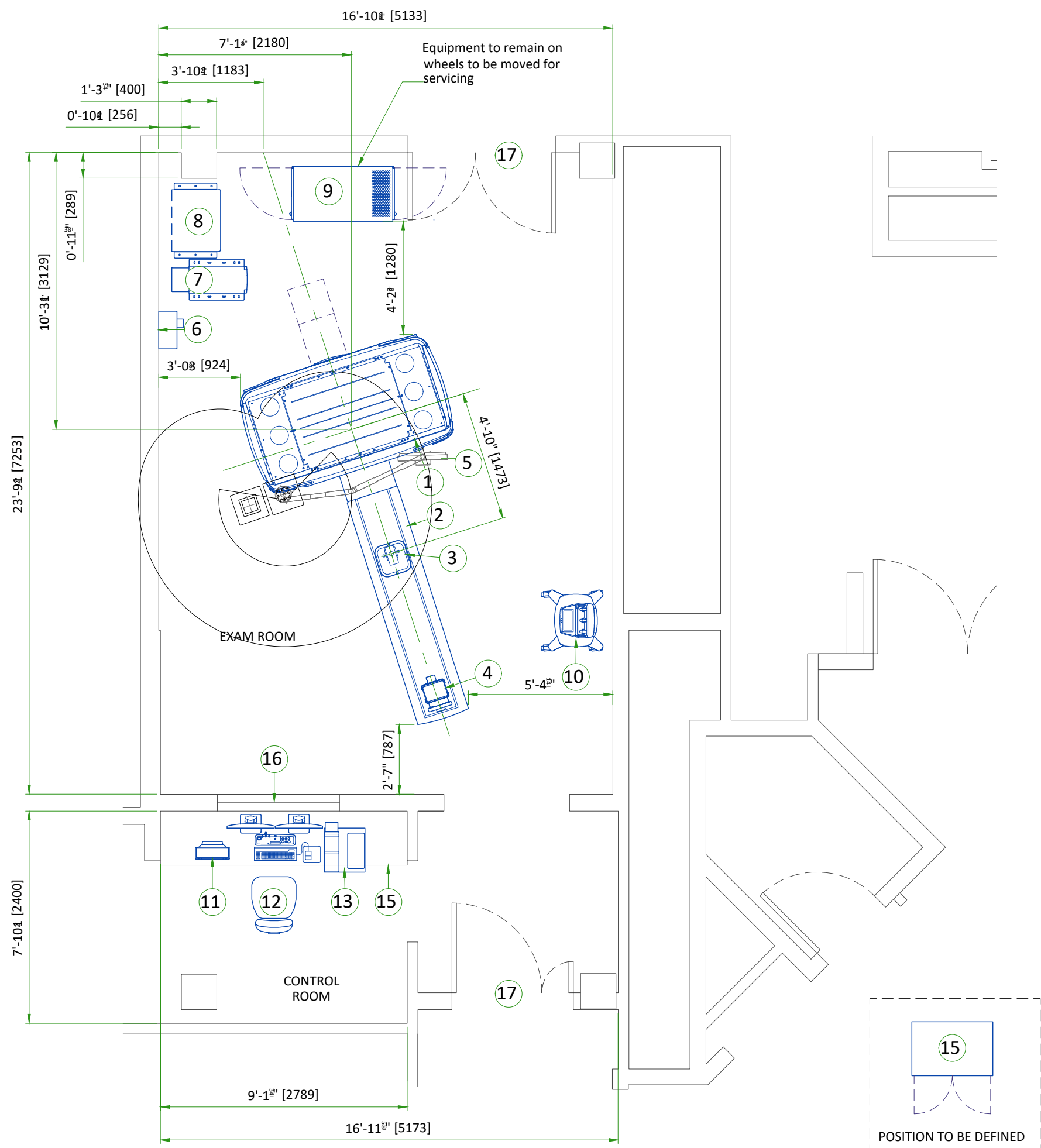
project number 25-642

sheet title

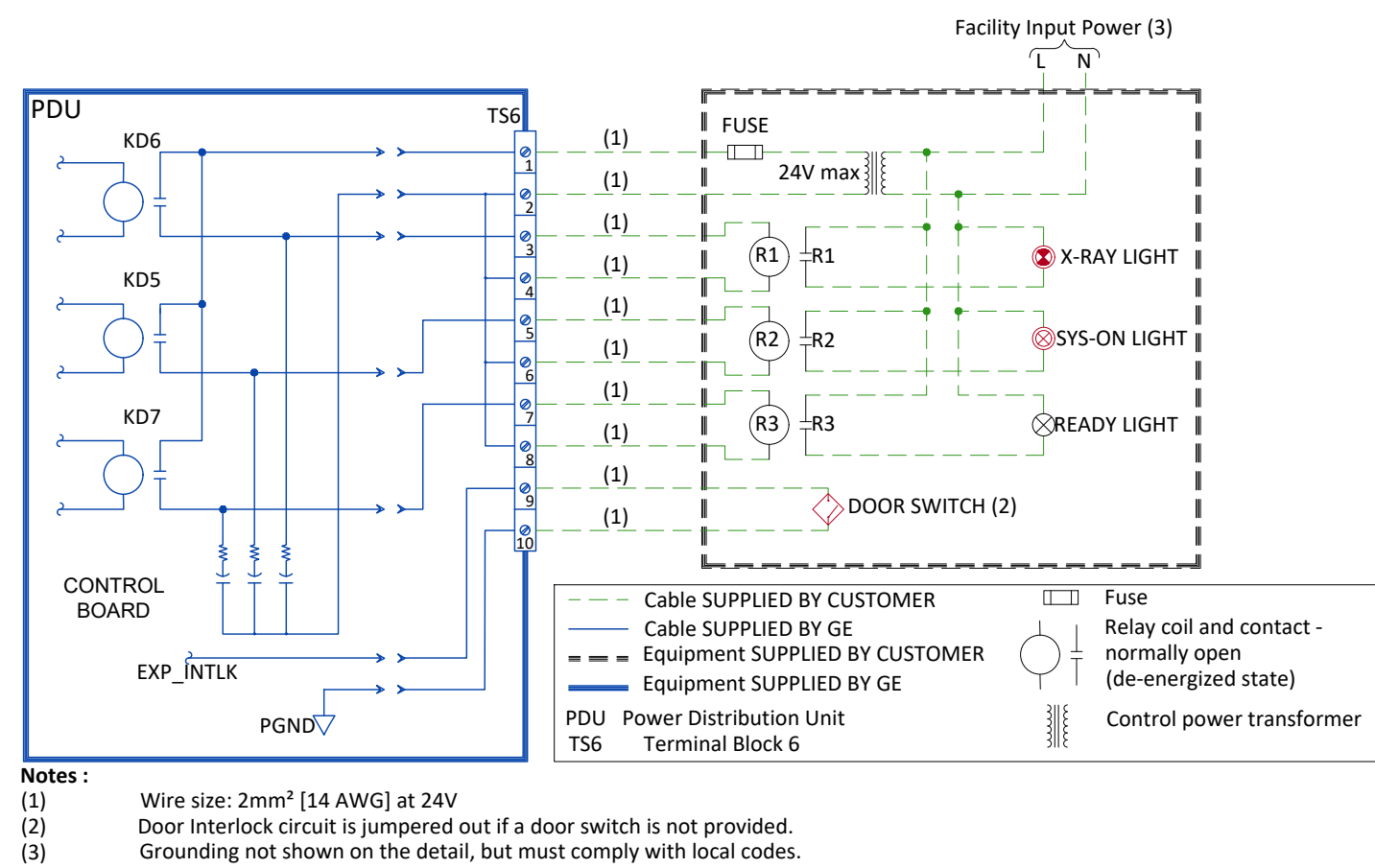
EXISTING AND NEW  
LIGHTING PLANS

date 2026-01-07  
scale AS SHOWN  
drawn by KL  
checked by HY  
sheet number E025  
rev no. 01

Drawing Name: S:\projects\2025\25-642 Nho Dn CT 64 Replacement\3 Drawings\25-642 E020 PLANS.dwg  
Plot Date : August 13, 2026 - 4:12 PM  
Last Saved By: ---



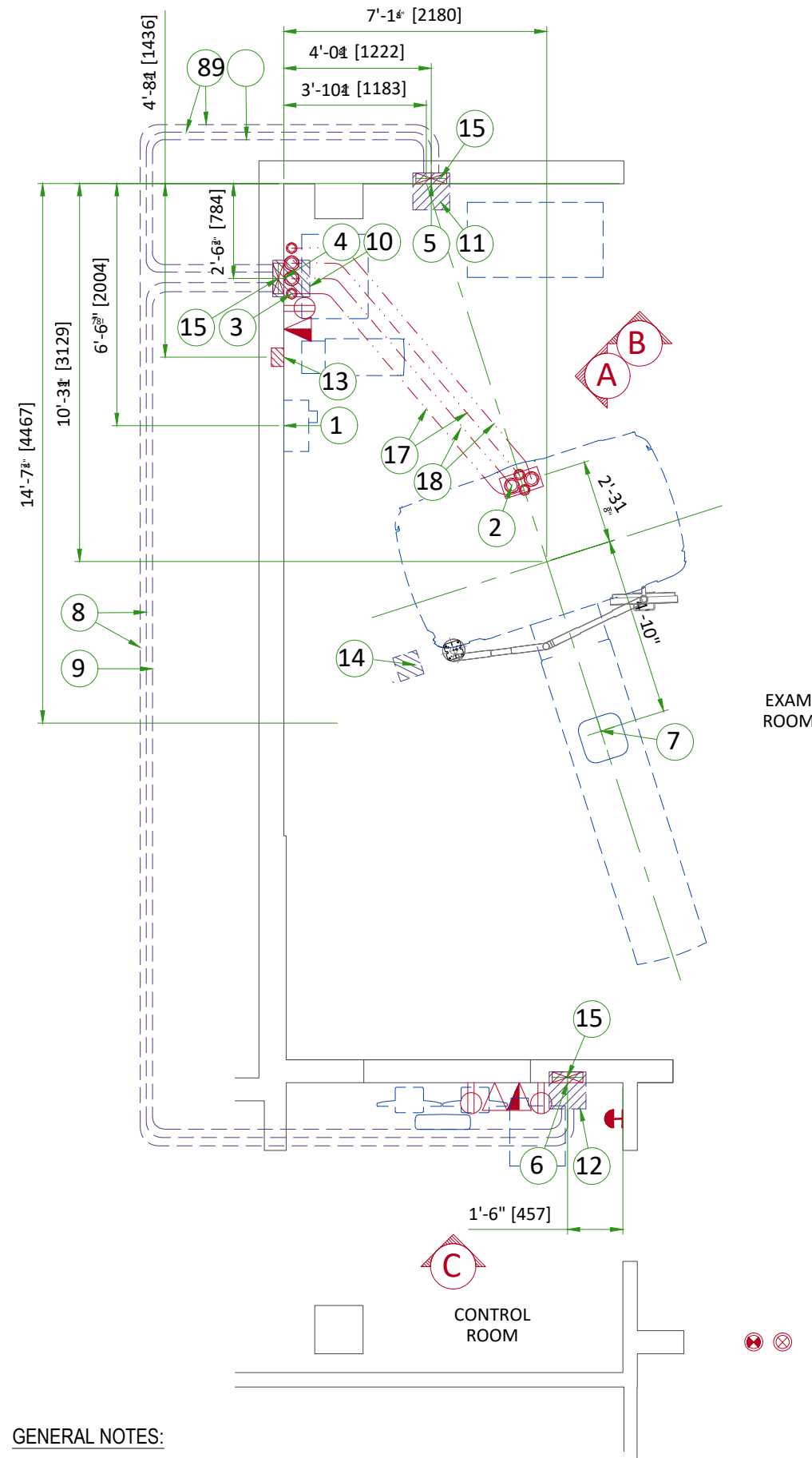
1 CT SCAN 1 EQUIPMENT PLAN  
SCALE: N.T.S.



3 CT SCAN ROOM  
WARNING LIGHT AND DOOR INTERLOCK DETAIL  
SCALE: N.T.S.

| LEGEND |                                            |                                                                                                                             |                         |                                          |                     |             |
|--------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------|---------------------|-------------|
| A      | GE SUPPLIED                                |                                                                                                                             | D                       | AVAILABLE FROM GE                        |                     |             |
| B      | GE SUPPLIED/CONTRACTOR INSTALLED           |                                                                                                                             | E                       | EQUIPMENT EXISTING IN ROOM               |                     |             |
| C      | CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED |                                                                                                                             | *                       | ITEM TO BE REINSTALLED FROM ANOTHER SITE |                     |             |
| BY     | ITEM                                       | DESCRIPTION                                                                                                                 | MAX HEAT OUTPUT (BTU/h) | WEIGHT (lbs)                             | MAX HEAT OUTPUT (W) | WEIGHT (kg) |
| A      | 1                                          | GANTRY                                                                                                                      | 27125                   | 5901                                     | 7950                | 2676.2      |
| D      | 2                                          | NG-1700SV TABLE                                                                                                             | -                       | 1455                                     | -                   | 660         |
| A      | 3                                          | AUTO PATIENT POSITIONING DEPTH CAMERA                                                                                       | -                       | 7                                        | -                   | 3.2         |
| D      | 4                                          | INTEGRATED CARDIAC MODULE (ICM)                                                                                             | -                       | -                                        | -                   | -           |
| A      | 5                                          | LCD MONITOR ON CEILING                                                                                                      | 171                     | 68                                       | 50                  | 30.9        |
| B      | 6                                          | MAIN DISCONNECT PANEL (MDP)                                                                                                 | -                       | 90                                       | -                   | 41          |
| A      | 7                                          | PARTIAL UPS 14.4 KVA                                                                                                        | 5122                    | 609                                      | 1501.1              | 276         |
| A      | 8                                          | POWER DISTRIBUTION UNIT (NGPDU-92)                                                                                          | 1201                    | 1074                                     | 352                 | 487         |
| A      | 9                                          | SYSTEM CABINET VII                                                                                                          | 10577                   | 410                                      | 3100                | 186         |
| A      | 10                                         | MEDRAD CENTARGO INJECTOR                                                                                                    | -                       | 165                                      | -                   | 75          |
| A      | 11                                         | INJECTOR CONTROL ROOM UNIT                                                                                                  | -                       | 16                                       | -                   | 7.2         |
| A      | 12                                         | OPERATOR'S CHAIR                                                                                                            | -                       | -                                        | -                   | -           |
| A      | 13                                         | SCANNER DESKTOP V                                                                                                           | 5118                    | 80                                       | 1500                | 36.42       |
| A      | 14                                         | GE STORAGE CABINET                                                                                                          | -                       | 150                                      | -                   | 68          |
| A      | 15                                         | COUNTER TOP FOR EQUIPMENT- PROVIDE GROMMETTED OPENINGS AS REQUIRED TO ROUTE CABLES                                          |                         |                                          |                     |             |
| C      | 16                                         | LEAD GLASS WINDOW                                                                                                           |                         |                                          |                     |             |
| C      | 17                                         | MINIMUM OPENING FOR EQUIPMENT DELIVERY IS 1168 mm x 1980 mm [46 in x 78 in], CONTINGENT ON A 2438 mm [96 in] CORRIDOR WIDTH |                         |                                          |                     |             |

| EXAM ROOM HEIGHT              |                |
|-------------------------------|----------------|
| FINISHED FLOOR TO SLAB HEIGHT | TBD            |
| FALSE CEILING HEIGHT          | 9'-4" [2847mm] |



1 CT SCAN 1 CONDUITS PLAN  
SCALE: N.T.S.

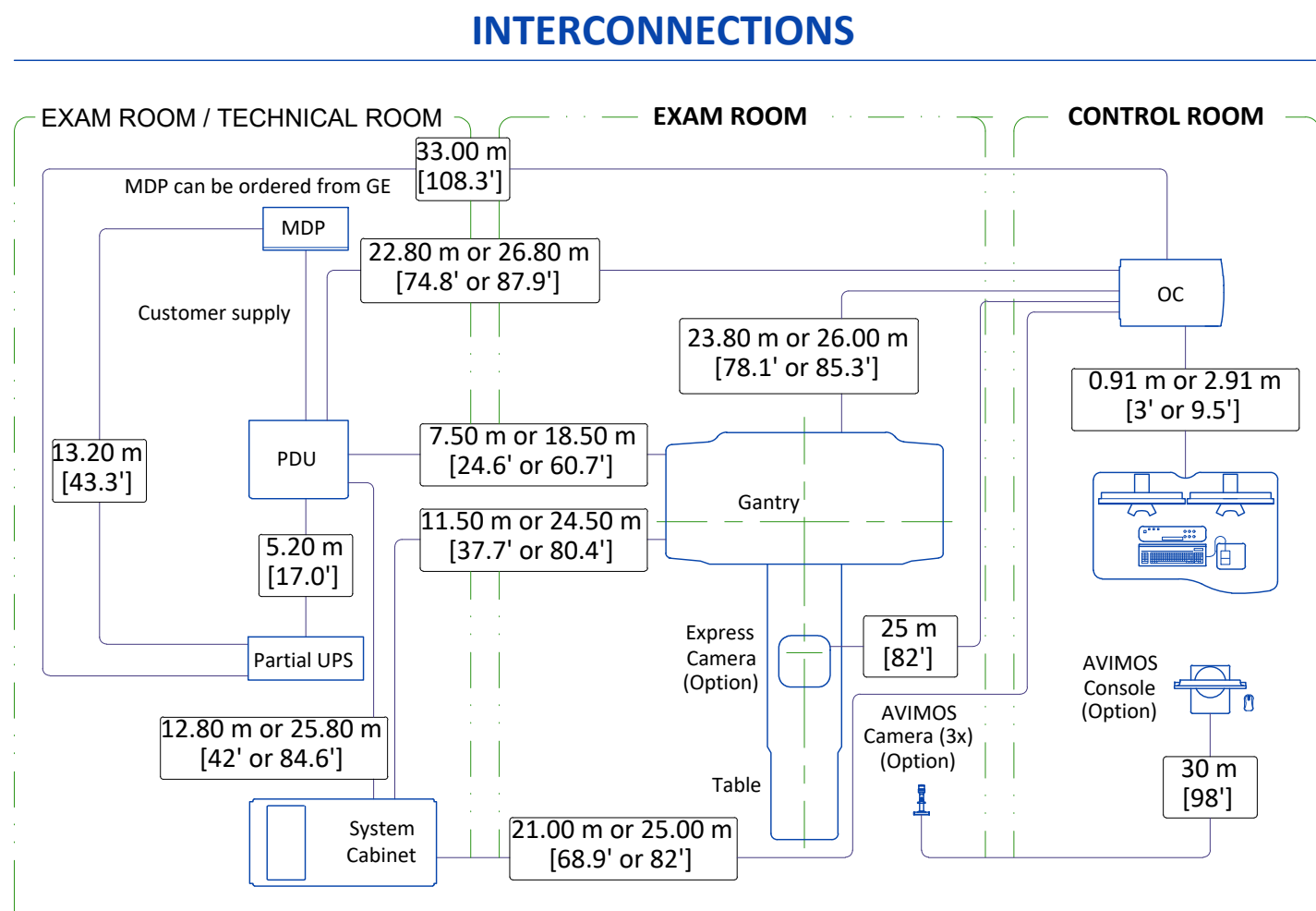
| Item | Electrical Layout Item List                                                                                     |
|------|-----------------------------------------------------------------------------------------------------------------|
| 1    | Main disconnect panel (MDP)                                                                                     |
| 2    | Suitable bushings & lock nuts, refer to Anchoring/Loading Distribution to the Floor detail on sheet S3 (Gantry) |
| 3    | Suitable bushings & lock nuts (Power Distribution Unit)                                                         |
| 4    | Grommetted opening (Power Distribution Unit)                                                                    |
| 5    | Grommetted opening (PARC)                                                                                       |
| 6    | Grommetted opening (Operator's Console)                                                                         |
| 7    | Cable inlet above ceiling (Express Camera)                                                                      |
| 8    | 2 1/2" [64] conduit above ceiling                                                                               |
| 9    | 3 1/2" [89] conduit above ceiling                                                                               |
| 10   | Box above ceiling - size per local code (Exam Room/ PDU)                                                        |
| 11   | Box above ceiling - size per local code (PARC)                                                                  |
| 12   | Box above floor - size per local code (Control Room)                                                            |
| 13   | 6" x 6" x 4" [150 x 150 x 100] box (Partial UPS)                                                                |
| 14   | 8" x 8" x 6" [200 x 200 x 150] box above ceiling (SmartView monitor)                                            |
| 15   | 10" x 3 1/2" [250 x 100] flush wall duct with minimum 2 dividers                                                |
| 17   | Existing 2 1/2" [64] conduit below floor                                                                        |
| 18   | Existing 3 1/2" [89] conduit below floor                                                                        |

| ITEM | QTY | Electrical Outlet Legend                                                                                                                                 |
|------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|      |     | Customer/contractor supplied and installed items unless otherwise specified.<br>Height above floor determined by local codes unless otherwise specified. |
|      |     | Duplex hospital grade, dedicated wall outlet 120-v, single phase power                                                                                   |
|      |     | Dedicated telephone line(s)                                                                                                                              |
|      |     | Network outlet                                                                                                                                           |
|      |     | System emergency off (SEO), (recommended height 1.2m [48"] above floor)                                                                                  |
|      |     | X-Ray room warning light control panel                                                                                                                   |
|      |     | X-Ray ON lamp (L1) - 24V                                                                                                                                 |
|      |     | Door interlock switch (needed only if required by state/local codes)                                                                                     |

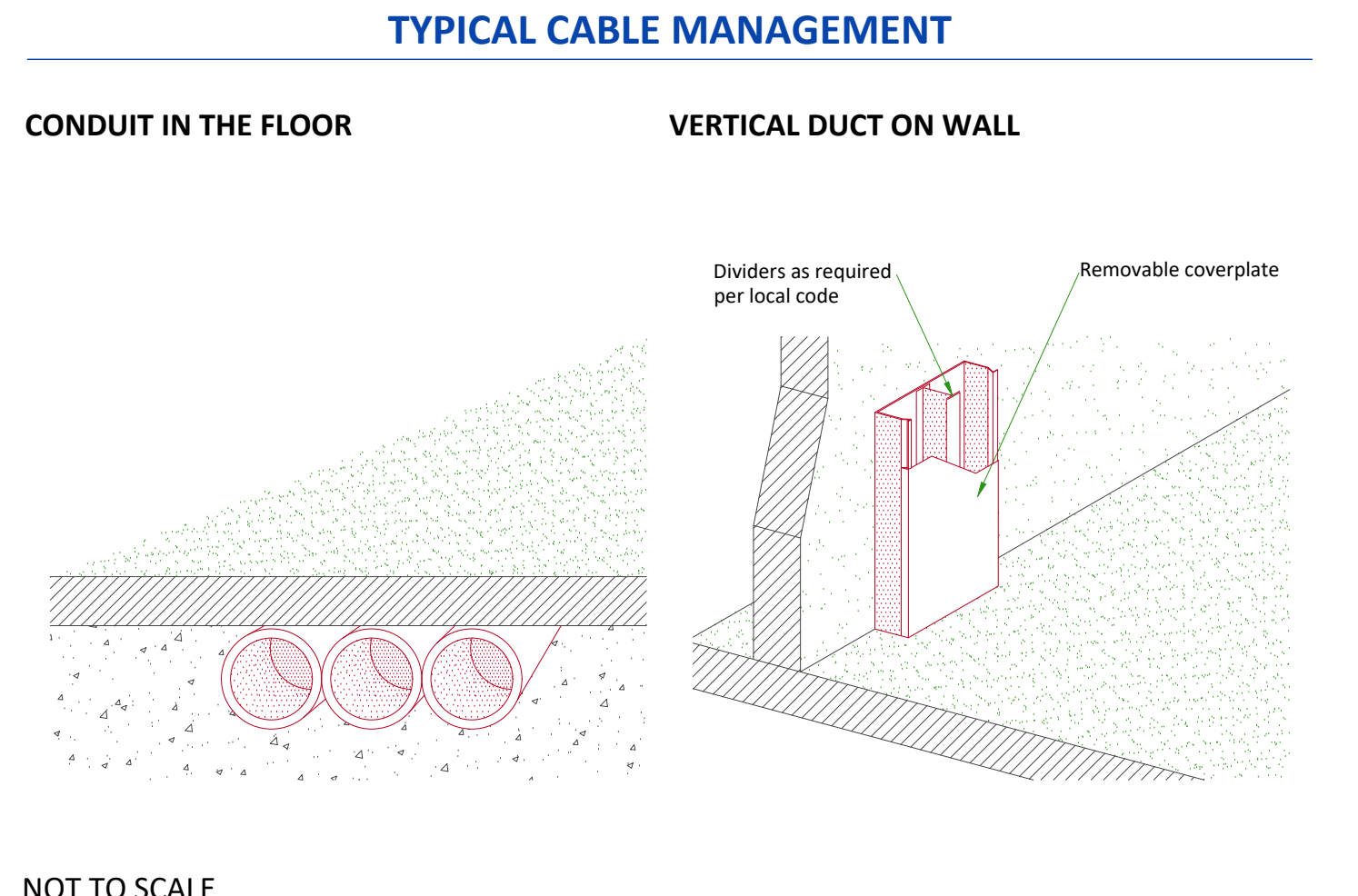
Existing Electrical Note:  
Use existing duct/conduits where possible. Additional duct/conduit runs may be necessary if existing system is inadequate in size and/or location for this installation. Verify existing size and location.

Cable Length Note:  
Routing of cable ductwork, conduits, etc., must run direct as possible otherwise may result in the need for greater than standard cable lengths (refer to the interconnection diagram for maximum usable lengths point to point).

| Additional Conduit Runs<br>(Contractor Supplied and Installed) |                            |     |                |          |
|----------------------------------------------------------------|----------------------------|-----|----------------|----------|
| From<br>(Bubble # / Item)                                      | To<br>(Bubble # / Item)    | Qty | Size<br>In. mm |          |
| 3 Phase Power                                                  | 1 Main Disconnect Panel    | 1   | As req'd       | As req'd |
|                                                                | Emergency Off              | 1   | 1/2            | 13       |
| 1 Main Disconnect Panel                                        | 10 Power Distribution Unit | 1   | As req'd       | As req'd |
|                                                                | Door Switch                | 1   | 1/2            | 13       |
| 10 Power Distribution Unit                                     |                            | 1   | 1/2            | 13       |
|                                                                | Warning Light              | 1   | 1/2            | 13       |
|                                                                | Warning Light Control      | 1   | 1/2            | 13       |
| 1 Phase Power                                                  |                            | 1   | 1/2            | 13       |
| 7 Express Camera                                               | 12 Operator's Console      | 1   | 1 1/2          | 38       |
| 1 Main Disconnect Panel                                        | 13 Partial UPS             | 1   | 1 1/4          | 30       |
| 12 Operator's Console                                          | 13 Partial UPS             | 1   | 1              | 25       |
|                                                                |                            | 1   | 1              | 25       |
| 14 SmartView Monitor                                           | 12 Operators Console       | 1   | 2              | 50       |



4 CT SCAN INTERCONNECTIONS DETAIL  
SCALE: N.T.S.



5 CT SCAN TYPICAL CABLE MANAGEMENT DETAIL  
SCALE: N.T.S.

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Plot Date : August 13, 2026 - 4:12 PM  
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## POWER REQUIREMENTS

|                                   |                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------|
| POWER SUPPLY                      | 3 PHASES+G (4-Wire Wye system, neutral not used)<br>380/400/420/440/460/480 V ± 10% |
| FREQUENCIES                       | 50/60 Hz ± 3Hz                                                                      |
| MAXIMUM POWER DEMAND              | 200 kVA                                                                             |
| AVERAGE (CONTINUOUS) POWER DEMAND | 11 kVA                                                                              |
| POWER FACTOR                      | 0.85                                                                                |

- Power supply should come into a main disconnect panel (MDP) containing the protective units and controls.
- Governing electrical codes may require a neutral wire. If present, neutral must be terminated in MDP.
- The section of the supply cable should be calculated in accordance with its length and the maximum permissible voltage drops.
- There must be discrimination between supply cable protective device at the beginning of the installation (main low-voltage transformer side) and the protective devices in the MDP.

### SUPPLY CHARACTERISTICS

- Power input must be separate from any others which may generate transients (elevators, air conditioning, radiology rooms equipped with high speed film changers...).
- All equipment (lighting, power outlets, etc...) installed with GE system components must be powered separately.
- Phase imbalance 2% maximum.
- Transients must be less than 1500V peak. (on a 400V line)
- Maximum source regulation allowable is 6%. The combination of daily voltage variation (no load) and source regulation under full load shall not exceed + 10/-13% of nominal.

### GROUND SYSTEM

- System of equipotential grounding.
- Equipotential: The equipotential link will be by means of an equipotential bar. This equipotential bar should be connected to the protective earth conductors in the ducts of the non GE cableways and to additional equipotential connections linking up all the conducting units in the rooms where GE system units are located.

### CABLES

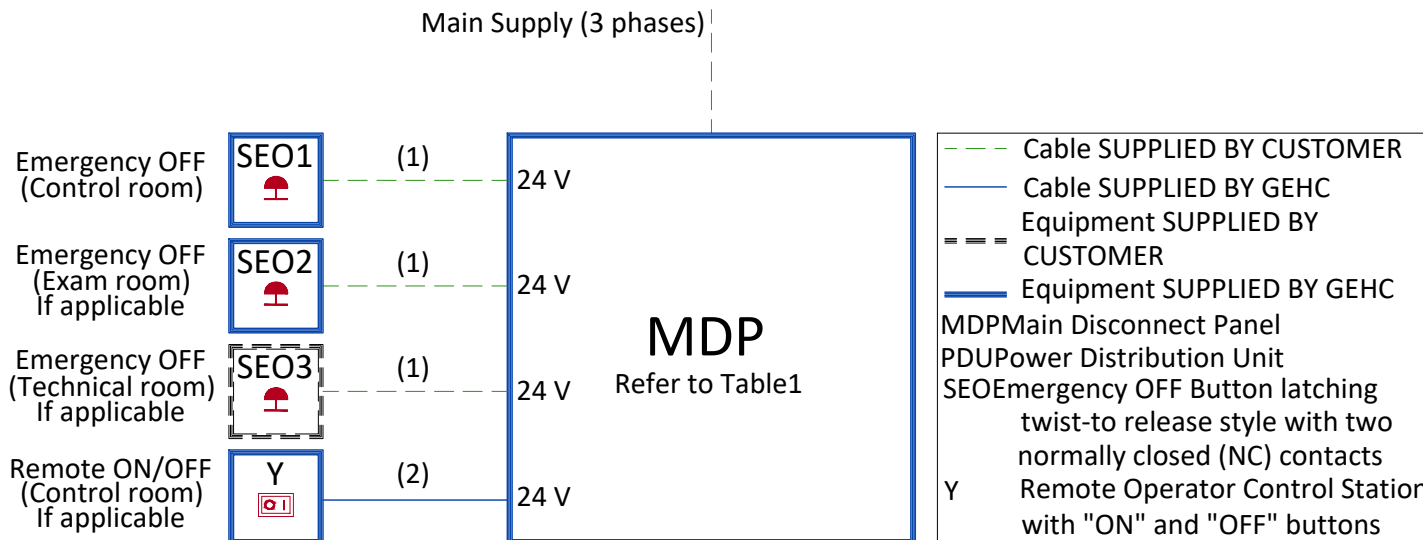
- Power and cable installation must comply with the distribution diagram.
- All cables must be isolated and flexible, cable color codes must comply with standards for electrical installation.
- The cables from signaling and remote control (Y, SEO, L...) will go to MDP with a pigtail length of 1.5m [4.9 ft], and will be connected during installation. Each conductor will be identified and isolated (screw connector).

### CABLEWAYS

The general rules for laying cableways should meet the conditions laid down in current standards and regulations, with regard to:

- Protecting cables against water (cableways should be waterproof).
- Protecting cables against abnormal temperatures (proximity to heating pipes or ducts).
- Protecting cables against temperature shocks.
- Replacing cables (cableways should be large enough for cables to be replaced).
- Metal cableways should be grounded.

## POWER DISTRIBUTION



| Region                        | CAT number     | Amps | Power Configuration |
|-------------------------------|----------------|------|---------------------|
| Global except EMEA(440~480 V) | E4502BE        | 125  | Power Pro/Core      |
|                               | E4502BG        | 175  | Power Xstream       |
| Global except EMEA(380~420 V) | E4502BF        | 150  | Power Pro/Core      |
| EMEA(400 V)                   | E45021BC(4)160 |      | Power Pro/Core      |
|                               | E45021BG(4)200 |      | Power Xstream       |
| China, EMEA                   | B7921MD(5)150  |      | Power Pro/Core      |
|                               | B7920MD(5)200  |      | Power Xstream       |

Table2:

### Feeder Table

The information below assumes the use of copper wire, rated 75 °C and run in steel conduit. All ampacity is determined in accordance with the National Electrical Code (NFPA 70), Table 310-16 (2002). The ampacity of the circuit protection device listed above determines the minimum feeder size, except where total source regulation limits require a larger size. If the wire size does not match the list below, please select the nearest wire size as per local standards.

| Sub-Feeder length from MDP to PDU<br>- Ft (m)                                                                                                                                                     | 380 VAC  | 400 VAC  | 420 VAC  | 440 VAC  | 460 VAC  | 480 VAC  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|
| 50 (15)                                                                                                                                                                                           | 3/0 (95) | 3/0 (95) | 3/0 (95) | 2/0 (70) | 2/0 (70) | 2/0 (70) |
| Grounding                                                                                                                                                                                         |          |          |          |          |          |          |
| Run a dedicated 1/0 [50 mm²] or larger insulated copper ground wire from the power source to the MDP and from MDP to the PDU. Run the ground wire in the same raceway with the three-phase wires. |          |          |          |          |          |          |

### Notes :

- Wire size: 4x2mm² [14AWG] and 1x2mm² [14AWG] GND
- Power control cable: 3 meter [10 ft], multi-conductor, 24V DC
- Optional for Revolution CT systems
- GEHC supplied MDP option E45021BC/BG includes a 10 meter long PDU power cable (H07RN-F) with wire size 4x50mm² and a 50 meter long control cable with wire size 2x1.5mm²
- GEHC supplied MDP options B7920MD/B7921MD include a 11 meter long PDU power cable and 4 SEO pushbuttons.

## CT SCAN POWER REQUIREMENTS

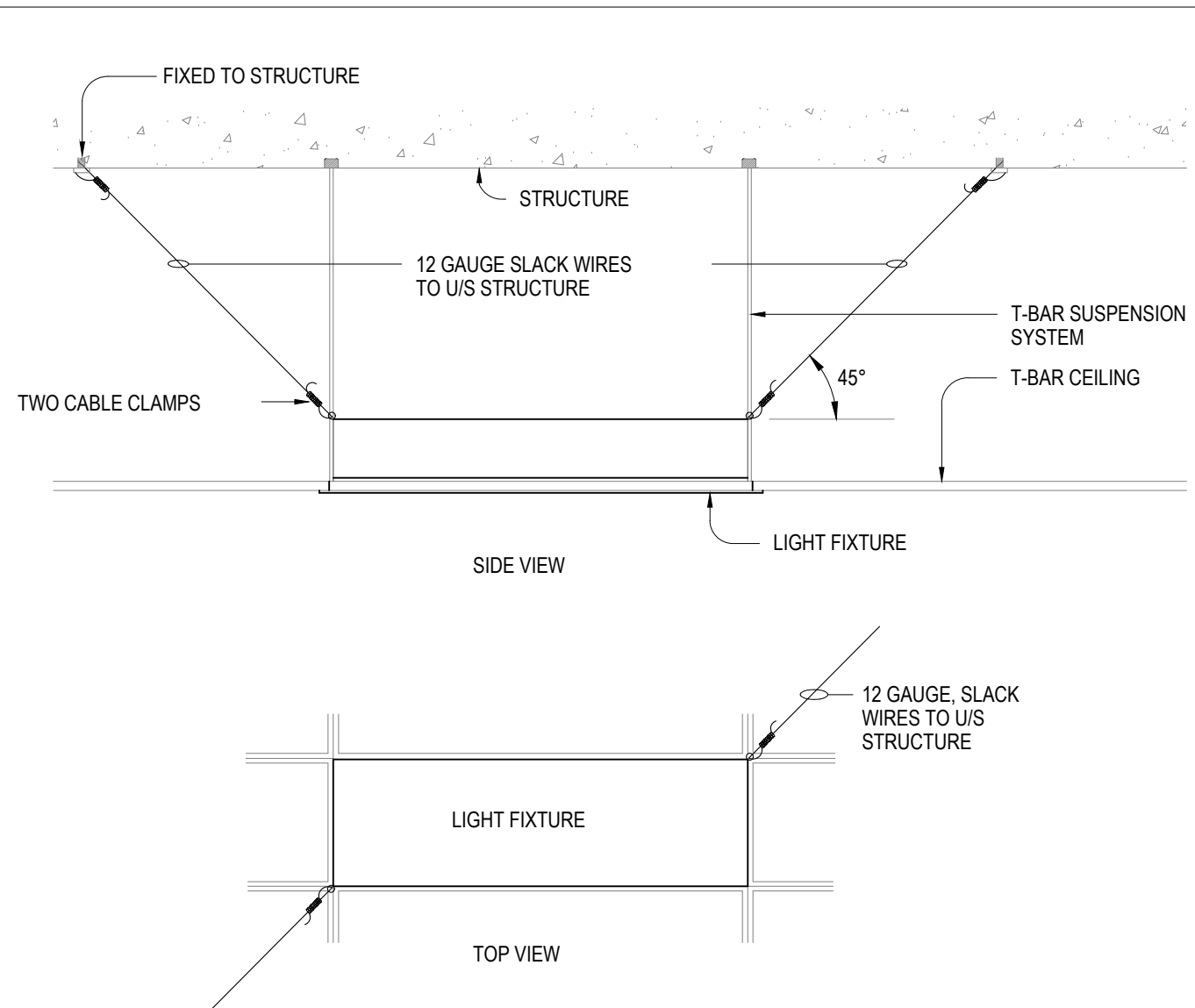
SCALE: N.T.S.

## CT SCAN POWER DISTRIBUTION

SCALE: N.T.S.

## TYPICAL MOUNTING HEIGHT DETAILS

SCALE: N.T.S.

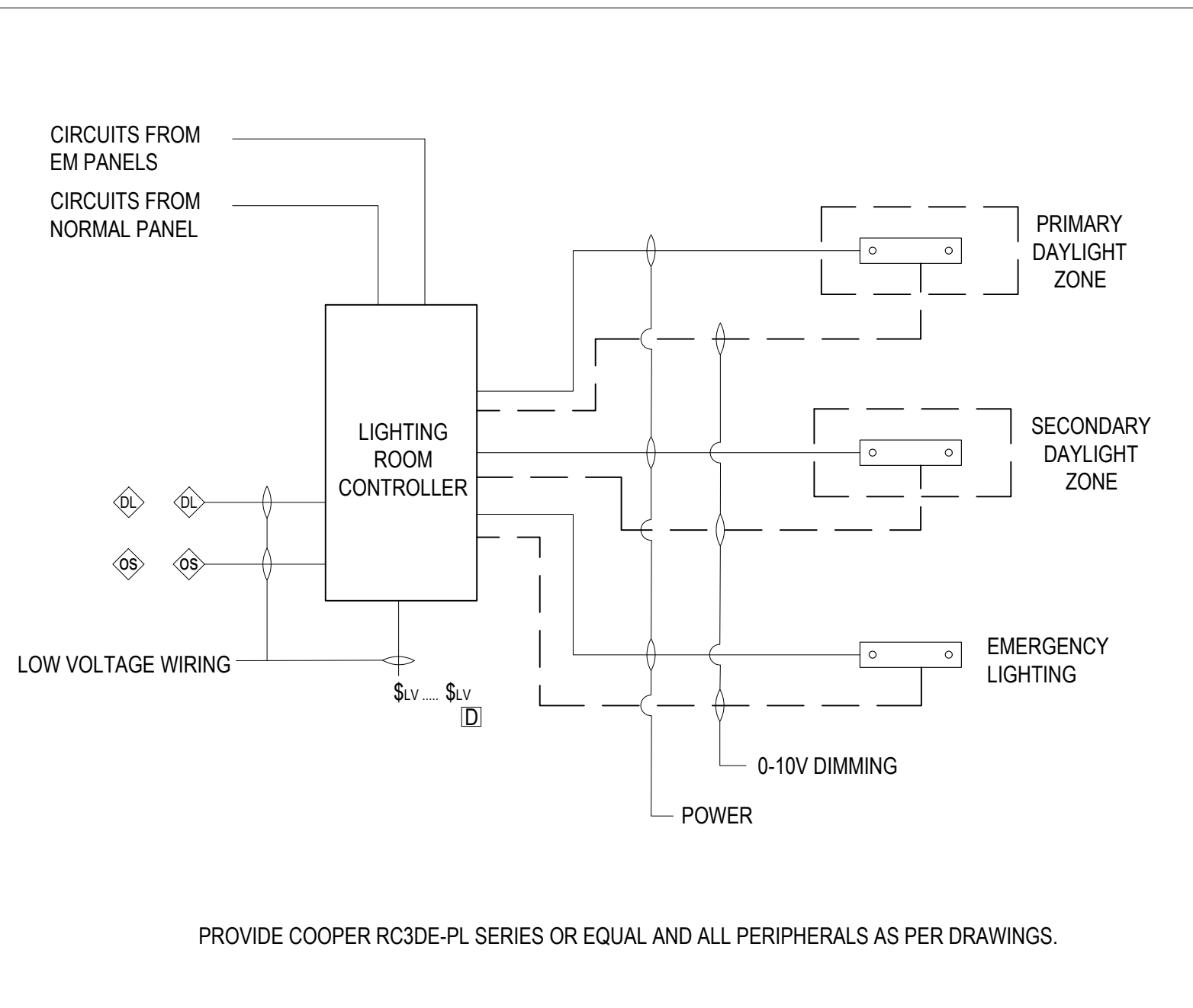


### NOTES:

- USE FIXINGS AT STRUCTURE INDEPENDANT OF TEE-BAR CEILING FIXINGS, REGARDLESS OF HOW CLOSE TEE-BAR CEILING FIXINGS MAY BE.
- RETAIN SERVICES OF A SEISMIC ENGINEER REGISTERED IN BRITISH COLUMBIA WITH THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF BRITISH COLUMBIA TO PROVIDE LETTER OF ASSURANCE WITH REGARD TO LIGHT FIXTURE SUSPENSION. CONFIRM WITH SEISMIC ENGINEER PRIOR TO INSTALLATION. PROVIDE THIS LETTER OF ASSURANCE PRIOR TO SUBSTANTIAL PERFORMANCE.

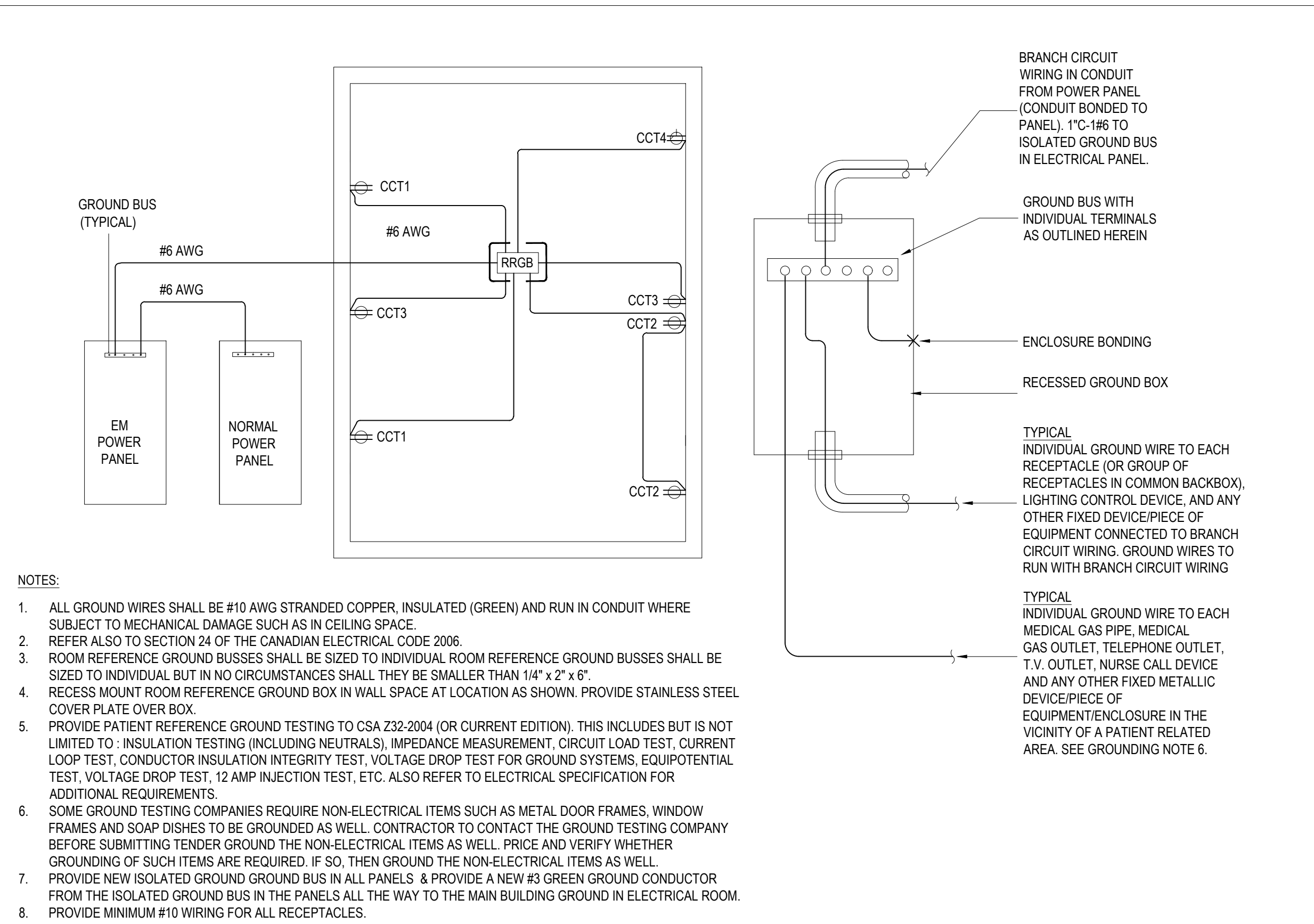
## TYPICAL LIGHT FIXTURE SUSPENSION DETAIL

SCALE: N.T.S.



## TYPICAL LIGHTING CONTROLS SEHEMATIC

SCALE: N.T.S.



### NOTES:

- ALL GROUND WIRES SHALL BE #10 AWG STRANDED COPPER, INSULATED (GREEN) AND RUN IN CONDUIT WHERE SUBJECT TO MECHANICAL DAMAGE SUCH AS IN CEILING SPACE.
- REFER ALSO TO SECTION 24 OF THE CANADIAN ELECTRICAL CODE 2006.
- ROOM REFERENCE GROUND BUSES SHALL BE SIZED TO INDIVIDUAL ROOM REFERENCE GROUND BUSES SHALL BE SIZED TO INDIVIDUAL BUT IN NO CIRCUMSTANCES SHALL THEY BE SMALLER THAN 1/4" x 2" x 6".
- RECESS MOUNT ROOM REFERENCE GROUND BOX IN WALL SPACE AT LOCATION AS SHOWN. PROVIDE STAINLESS STEEL COVER PLATE OVER BOX.
- PROVIDE PATIENT REFERENCE GROUND TESTING TO CSA Z32-2004 (OR CURRENT EDITION). THIS INCLUDES BUT IS NOT LIMITED TO: INSULATION TESTING (INCLUDING NEUTRALS), IMPEDANCE MEASUREMENT, CIRCUIT LOAD TEST, CURRENT LOOP TEST, CONDUCTOR INSULATION INTEGRITY TEST, VOLTAGE DROP TEST FOR GROUND SYSTEMS, EQUIPOTENTIAL TEST, VOLTAGE DROP TEST, 12 AMP INJECTION TEST, ETC. ALSO REFER TO ELECTRICAL SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
- SOME GROUND TESTING COMPANIES REQUIRE NON-ELECTRICAL ITEMS SUCH AS METAL DOOR FRAMES, WINDOW FRAMES AND SOAP DISHES TO BE GROUNDED AS WELL. CONTRACTOR TO CONTACT THE GROUND TESTING COMPANY BEFORE SUBMITTING TENDER GROUND THE NON-ELECTRICAL ITEMS AS WELL. PRICE AND VERIFY WHETHER GROUNDED OF SUCH ITEMS ARE REQUIRED. IF SO, THEN GROUND THE NON-ELECTRICAL ITEMS AS WELL.
- PROVIDE NEW ISOLATED GROUND GROUND BUS IN ALL PANELS & PROVIDE A NEW #3 GREEN GROUND CONDUCTOR FROM THE ISOLATED GROUND BUS IN THE PANELS ALL THE WAY TO THE MAIN BUILDING GROUND IN ELECTRICAL ROOM.
- PROVIDE MINIMUM #10 WIRING FOR ALL RECEPTACLES.

## ROOM REFERENCE GROUNDING DETAILS

SCALE: N.T.S.

architect

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| # | Date     | Description       | Rev |
|---|----------|-------------------|-----|
| 5 | 26-08-14 | ISSUED FOR TENDER | A   |
| 4 | 26-07-17 | ISSUED FOR PERMIT | A   |
| 3 | 26-07-03 | ISSUED FOR 90% CD | A   |
| 2 | 26-02-12 | ISSUED FOR 60% CD | A   |
| 1 | 26-01-16 | ISSUED FOR 30% CD | A   |

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2026-08-15

project number 25-642  
sheet title

ELECTRICAL DETAILS 2

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checked by HY  
sheet number E031  
rev no. 01