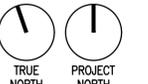
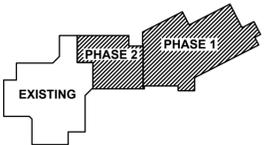


# MOUNTAIN INSTITUTION HEALTH CARE EXPANSION ISSUED FOR TENDER



LEGEND & SYMBOL SCHEDULE				
LIGHTING	POWER	COMMUNICATION	FIRE ALARM	SINGLE LINE
EMERGENCY NIGHT LIGHT LUMINAIRE	SINGLE RECEPTACLE	TELEPHONE OUTLET	SMOKE DETECTOR	FEEDER/CONDUCTOR
SURFACE MOUNTED LUMINAIRE	DUPLEX RECEPTACLE	FLOOR MOUNTED TELEPHONE OUTLET	DUCT MOUNTED SMOKE DETECTOR	BUSBAR/CDP
CEILING RECESSED LUMINAIRE	FOUR PLEX RECEPTACLE	PAY TELEPHONE OUTLET	120V SMOKE ALARM C/W BATTERY BACKUP	DRAW OUT BREAKER
CEILING SUSPENDED LINEAR LUMINAIRE	ABOVE COUNTER DUPLEX RECEPTACLE	CATV OUTLET	THERMAL DETECTOR	BREAKER
FLUORESCENT STRIP LIGHT	ABOVE COUNTER FOUR PLEX RECEPTACLE	FLOOR MOUNTED CATV OUTLET	DUCT MOUNTED SMOKE DETECTOR	KEY INTERLOCK SWITCH
SURFACE MOUNTED LUMINAIRE	5-20R DUPLEX RECEPTACLE (T-SLOT)	CEILING MOUNTED CATV OUTLET	FIRE ALARM PIEZO WITH SILENCE SWITCH	GANG OPERATED LOAD BREAK SWITCH
RECESSED DOWN LIGHT	ABOVE COUNTER 5-20R DUPLEX RECEPTACLE (T-SLOT)	COMBINATION COAXIAL/RJ45 OUTLET	FIRE ALARM HORN (WISTROBE)	MOTORIZED GANG OPERATED LOAD BREAK SWITCH
WALL MOUNTED DOWN LIGHT	1/2 SWITCHED DUPLEX RECEPTACLE	COMBINATION TELEPHONE AND DATA OUTLET WALL	FIRE ALARM BELL	GANG OPERATED DISCONNECT SWITCH
RECESSED STEP LIGHT	SPLIT DUPLEX RECEPTACLE	COMBINATION TELEPHONE AND DATA OUTLET ABOVE COUNTER	FIRE ALARM GONG	FUSE
PENDANT LUMINAIRE	ABOVE COUNTER SPLIT DUPLEX RECEPTACLE	COMBINATION TELEPHONE AND DATA OUTLET CEILING	FIRE ALARM GONG WISTROBE	RELAY
UNDER CUPBOARD STRIP/PUCK LIGHT	ISOLATED GROUND DUPLEX RECEPTACLE	COMBINATION TELEPHONE AND DATA OUTLET FLOOR	FIRE ALARM HORN	NORMALLY OPEN CONTACT
TRACK	ISOLATED GROUND FOUR PLEX RECEPTACLE	WIREMOLD MOUNTED DATA/TEL	FIRE ALARM HORN	NORMALLY CLOSE CONTACT
TRACK HEAD	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	WIREMOLD MOUNTED TEL OUTLET	FIRE ALARM STROBE	CABLE POTHEAD
SPOT LIGHT	GROUND FAULT INTERRUPTER FOUR PLEX RECEPTACLE	WIREMOLD MOUNTED TV OUTLET	FIRE ALARM REMOTE TROUBLE	LIGHTNING ARRESTER
POLE LUMINAIRE	ABOVE COUNTER GFCI DUPLEX RECEPTACLE	COMBINATION OUTLET	FIREFIGHTERS TELEPHONE	GROUND
TWO HEAD POLE LUMINAIRE	FLOOR MOUNTED DUPLEX RECEPTACLE	WIRELESS ACCESS POINT	CEILING MOUNTED FIRE ALARM SPEAKER	METERING TRANSFORMER
GRAPHICAL USER INTERFACE - LIGHTING CONTROL	FLOOR MOUNTED FOUR PLEX RECEPTACLE	VOLUME CONTROL	WALL MOUNTED FIRE ALARM SPEAKER	SERVICE PROVIDER METER
TIME CLOCK	CEILING MOUNTED DUPLEX RECEPTACLE	VOLUME CONTROL STATION	END OF LINE RESISTER	DIGITAL METERING UNIT
DIMMER SWITCH	CEILING MOUNTED FOUR PLEX RECEPTACLE	INTERCOM OUTLET	FIRE ALARM PANEL	OVERCURRENT GROUND RELAY
PHOTOCELL	SYSTEMS FURNITURE POWER WHIP CONNECTION	FLOOR MOUNTED INTERCOM OUTLET	FIRE ALARM ANNUNCIATOR	OVERCURRENT PHASE RELAY
THREE WAY TOGGLE SWITCH	SERVICE PAC POLE	CEILING MOUNTED SPEAKER	SPRINKLER FLOW SWITCH	TRANSFORMER (DRY TYPE)
SINGLE POLE TOGGLE SWITCH, GANGED AS SHOWN	JUNCTION BOX	WALL MOUNTED SPEAKER	SPRINKLER VALVE SUPERVISORY	DELTA-WYE TRANSFORMER
LOW VOLTAGE SWITCH, GANGED AS SHOWN	MECHANICAL EQUIPMENT DIRECT CONNECTION	PUBLIC ADDRESS HORN	CCTV	GENERATOR
OCCUPANCY SENSOR, CEILING MOUNTED	HARDWIRE EQUIPMENT CONNECTION	PROJECTOR	MAGNETIC DOOR HOLD OPEN	TRANSFER SWITCH
OCCUPANCY SENSOR, WALL MOUNTED	VARIABLE SPEED SWITCH	SYSTEM FURNITURE COMM TRANSITION WALL BOX	DOOR CONTACT	LONG, SHORT, INSTANTANEOUS, & GROUND TRIP UNIT
EXIT SIGN - ARROWS AS INDICATED	THERMOSTAT	SYSTEM FURNITURE COMM TRANSITION WALL BOX	CARD READER	FEED THROUGH
EXIT SIGN - SINGLE SIDED	BASEBOARD HEATER, WATTAGE AS NOTED ON PLANS	BELL	ELECTRIC STRIKE	TIME DELAY
EMERGENCY BATTERY PACK	FORCE FLOW HEATER	BUZZER	KEY PAD	LOW VOLTAGE LIGHTING RELAY CABINET
DUAL REMOTE EMERGENCY HEADS, CEILING MOUNTED	MECHANICAL MOTOR CONNECTION	HORN	REQUEST TO EXIT SENSOR	DOUBLE NEUTRAL
DUAL REMOTE EMERGENCY HEADS, WALL MOUNTED	DISCONNECT SWITCH	CLOCK OUTLET	MORTISE LOCK	
DUAL EMERGENCY HEADS COMPLETE WITH SELF CONTAINED BATTERY PACK, CEILING MOUNTED	MAGNETIC STARTER		GLASS BREAK DETECTOR	
DUAL EMERGENCY HEADS COMPLETE WITH SELF CONTAINED BATTERY PACK, WALL MOUNTED	CONTACTOR		INTRUSION MOTION DETECTOR 180°	
	MANUAL STARTER		INTRUSION MOTION DETECTOR 360°	
	GROUND BUS		INTRUSION MOTION DETECTOR WALL MOUNTED	
	PANEL BOARD		INTRUSION ALARM HORN	
	CONDUIT RUN UP			
	CONDUIT RUN DOWN			
	PUSH BUTTON			
	EMERGENCY PUSH BUTTON			

\*NOT ALL SYMBOLS ARE USED.

### GENERAL NOTES:

- PROJECT PHASING - PHASE 1 RELATES TO THE HEALTH CARE ADDITION AND PHASE 2 RELATES TO THE RENOVATION OF A SECTION (AS IDENTIFIED ON THE ELECTRICAL DRAWINGS) OF THE EXISTING HEALTH CARE.
- ALL WORK IN EXISTING HEALTH CARE BUILDING RELATED TO THE ADDITION SHALL BE DONE AFTER HOURS. THE WORKING HOURS OF THE EXISTING HEALTH CARE ARE 7AM TO 7PM, 7 DAYS PER WEEK.

### DRAWING LIST

DWG. No.	DESCRIPTION
E000	TITLE PAGE, DRAWING LIST, AND SYMBOL SCHEDULE
E001	PROPOSED SITE PLAN
E061	PHASE 2 - POWER, DATA, FIRE ALARM & BSCS DEMOLITION PLAN
E062	PHASE 2 - LIGHTING DEMOLITION PLAN
E100	PHASE 2 - LIGHTING PLAN
E101	PHASE 1 - LIGHTING PLAN
E200	PHASE 2 - POWER, DATA & FIRE ALARM PLAN
E201	PHASE 1 - POWER, DATA & FIRE ALARM PLAN
E202	SINGLE LINE DIAGRAM
E203	MECHANICAL AND LUMINAIRE SCHEDULES
E204	POWER PANEL SCHEDULE
E300	PHASE 2 - BSCS PLAN
E301	PHASE 1 - BSCS PLAN
E302	CRAWL SPACE AND SECOND FLOOR - POWER, DATA FIRE ALARM & BSCS PLAN
E303	LOW TENSION RISER DETAILS

Revision/Revision	Description/Description	Date/Date
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**CORRECTIONAL SERVICE OF CANADA**

Project title/Titre du projet  
**AGASSIZ, BRITISH COLUMBIA  
4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

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**PREETIPAL PAUL**

Drawing title/Titre du dessin

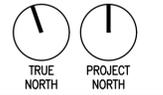
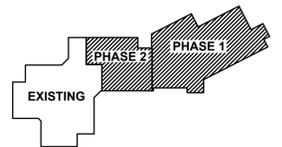
**TITLE PAGE, DRAWING LIST  
AND SYMBOL SCHEDULE**

Project No./No. du projet  
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Sheet/Feuille  
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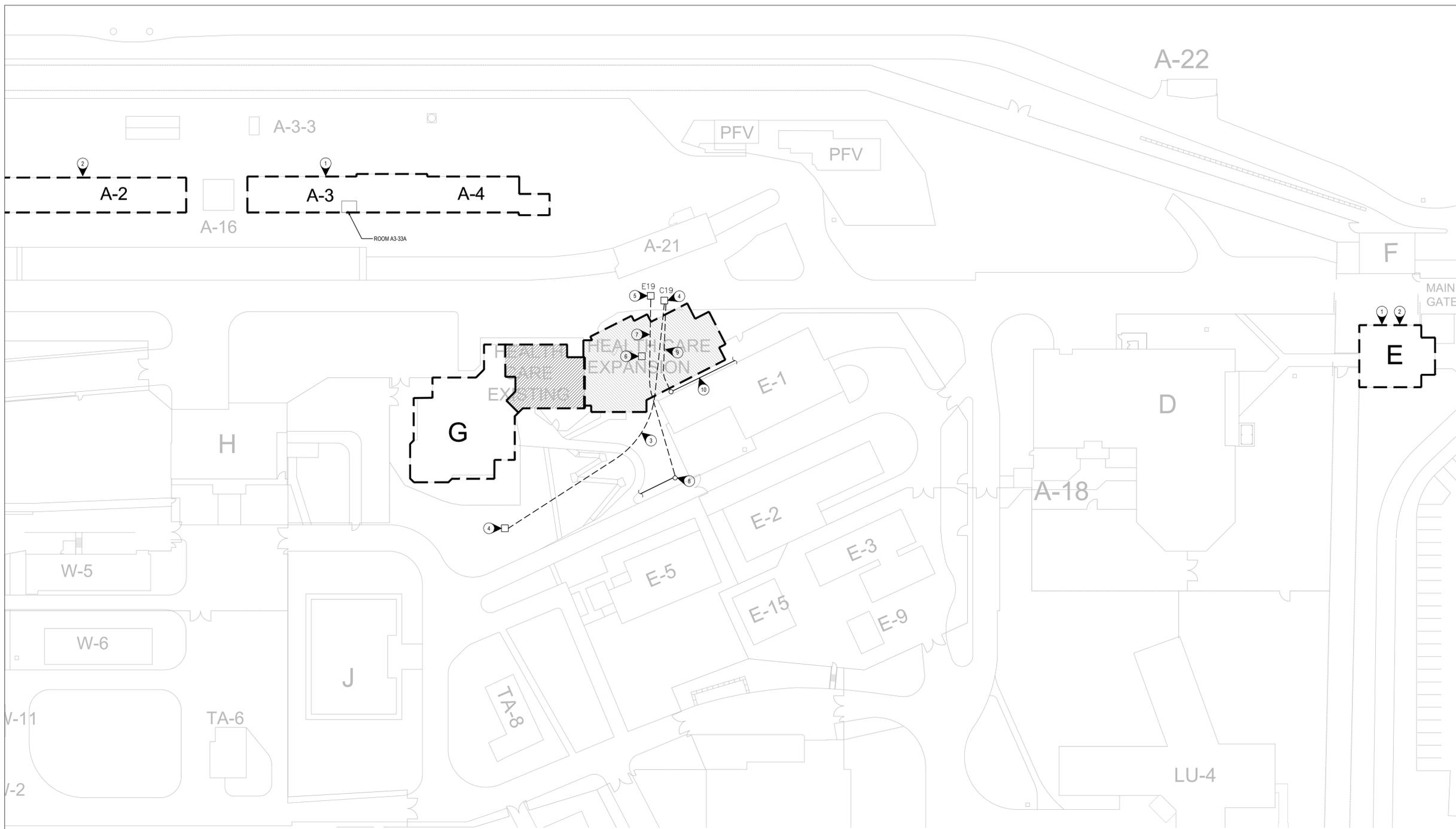
Drawing title/Titre du dessin  
**SITE PLAN**

Project No./No. du projet  
**R.077724.001**

Sheet/Feuille  
**E001**

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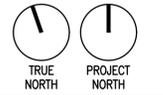
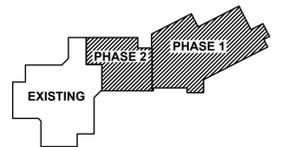


**DRAWING KEY NOTES:**

- 1 FIRE ALARM GRAPHICS RESIDING IN EDWARDS FIREWORKS COMPUTERS IN BUILDINGS 'A-3' AND 'E' SHALL BE UPDATED TO PICK UP ADDITIONAL DEVICES AND ZONES DUE TO THE HEALTH CARE EXPANSION WITHIN BUILDING 'G'.
- 2 THE EXISTING CARD ACCESS SYSTEM IS A LEVEL 'ONGUARD' SYSTEM. THE EXISTING CARD ACCESS SYSTEM SOFTWARE IS INSTALLED IN A PC SERVER LOCATED IN THE SERVER ROOM IN BUILDING A2. THERE IS ALSO A CARD ACCESS SYSTEM PC WORKSTATION IN THE SMO OFFICE ON THE 2ND FLOOR OF BUILDING 'E' THAT HOSTS THE ADMIN CLIENT SOFTWARE.
- 3 EXISTING COMMUNICATIONS DUCT SHALL REMAIN IN ITS CURRENT LOCATION.
- 4 EXISTING COMMUNICATIONS PULL BOX.
- 5 EXISTING POWER PULL BOX.
- 6 EXISTING PULL BOX AND REDUNDANT CABLES WITHIN IT TO BE REMOVED. CONTRACTOR TO ALLOW FOR A MINIMUM OF 8 HOURS WORK FOR 2 PEOPLE TO INVESTIGATE THE ORIGIN OF THE EXISTING REDUNDANT CABLES. THESE CABLES SHALL THEN BE PULLED ALL THE WAY BACK TO THEIR ORIGIN AND DISCONNECTED.
- 7 EXISTING POWER DUCT FOR SITE LIGHTING SHALL BE REMOVED AND REROUTED. NOTE, THE SITE LIGHTING MUST BE MAINTAINED I.E. STAY IN OPERATION DURING THE COURSE OF CONSTRUCTION.
- 8 EXISTING SITE LIGHTING LAMP STANDARD WITH A FEED COMING FROM PULL BOX E19.
- 9 EXISTING DUCT CONTAINING METER CABLING FOR BUILDING 'E-1'. THIS SHALL BE REMOVED AND REROUTED. NOTE, THE METERING CAN BE DISCONNECTED TO ALLOW FOR THE REROUTING OF THE DUCT HOWEVER THE CONTRACTOR SHOULD TRY TO KEEP THE TIME THAT THE METER IS OUT OF OPERATION TO A MINIMUM.
- 10 EXISTING CONDUIT UNDER SOFFIT IS THOUGHT TO RELATE TO DIGITAL METERING OF BUILDING E-1. CABLE/CONDUIT TO BE PROTECTED DURING CONSTRUCTION. CONTRACTOR TO ALLOW FOR A MINIMUM OR 4 HOURS WORK FOR 2 PEOPLE TO INVESTIGATE AND LOCATE THE TWO ENDS OF THIS CABLE AND TEST FOR CONTINUITY. ONCE THIS HAS BEEN ESTABLISHED, REPORT THE FINDINGS TO DEPARTMENT REPRESENTATIVE (DP).

**GENERAL NOTES:**

1. WHERE SITE TRENCHING IS REQUIRED, THE CONTRACTOR SHALL ALLOW FOR GPR SCANNING OF ANY NEW TRENCH ROUTING PRIOR TO DIGGING.



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**CORRECTIONAL SERVICE OF CANADA**

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**AGASSIZ, BRITISH COLUMBIA  
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**MOUNTAIN INSTITUTE  
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**PREETIPAL PAUL**

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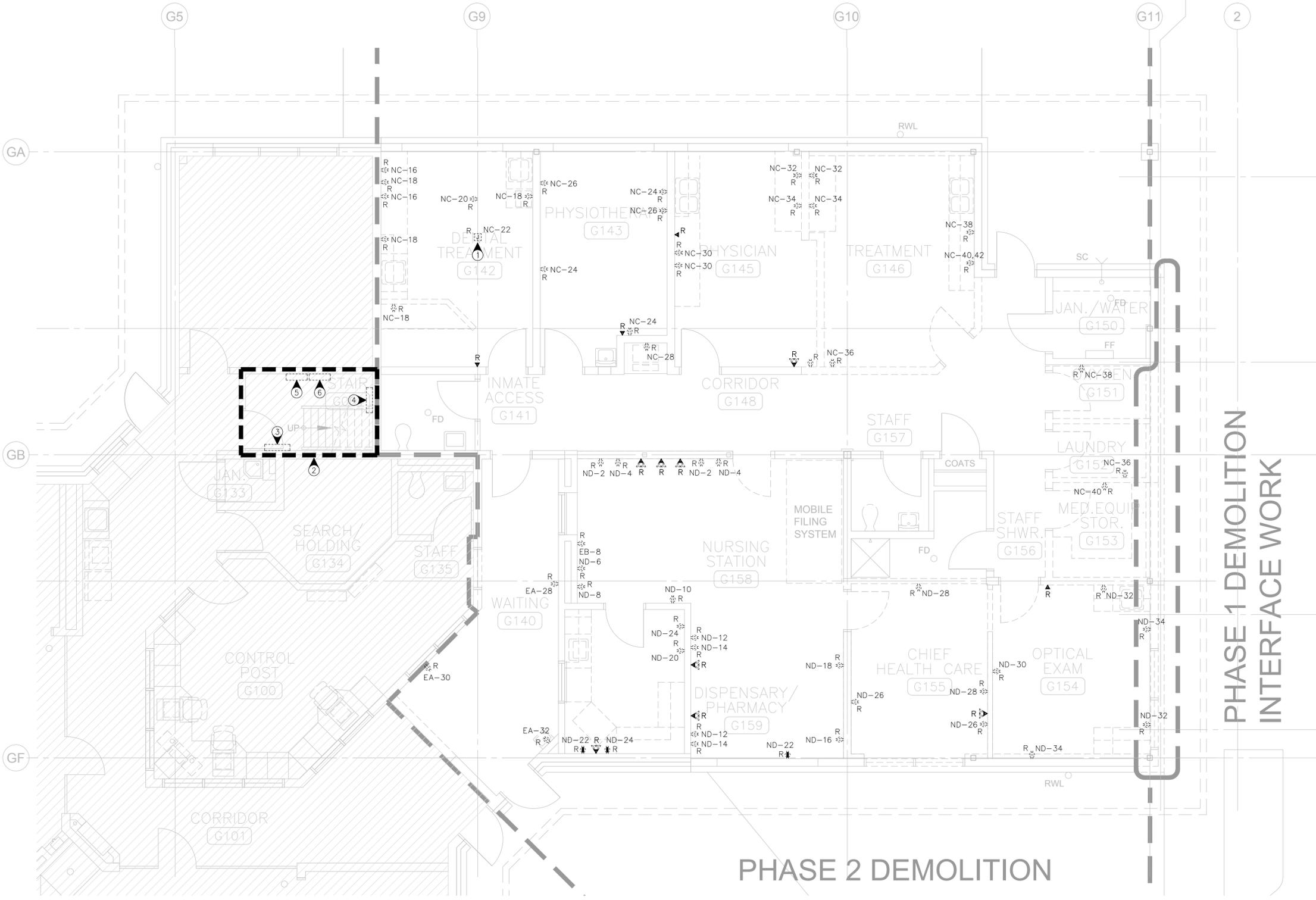
**PHASE 2 - POWER, DATA,  
FIRE ALARM & BSCS  
DEMOLITION PLAN**

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**MAIN FLOOR ELECTRICAL DEMOLITION PLAN - POWER & LOW TENSION**

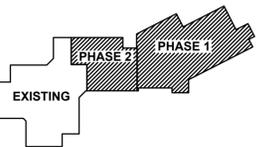


**DRAWING KEY NOTES:**

- ① JUNCTION BOX FOR CHAIR LIGHT.
- ② REFER TO DRAWING E200 FOR DETAILS OF EXISTING ELECTRICAL CIRCUITS ASSOCIATED WITH PANELS 'EA', 'NC' AND 'ND' WHICH SHALL BE RE-USED TO SUPPLY POWER TO NEW DEVICES IN THE PHASE 2 RENOVATION AREA.
- ③ ESSENTIAL POWER PANEL 'GSEA'.
- ④ NORMAL POWER PANEL 'GSPA'.
- ⑤ NORMAL POWER PANEL 'NC'.
- ⑥ NORMAL POWER PANEL 'ND'.

**GENERAL NOTES:**

1. UNLESS OTHERWISE INDICATED, WHERE A CIRCUIT IS FEEDING A SINGLE DEVICE THAT IS MARKED FOR REMOVAL, THE CONTRACTOR SHALL PULL ALL WIRING BACK TO THE PANEL AND DISCONNECT. REFER TO GENERAL NOTE 6.
2. UNLESS OTHERWISE INDICATED, WHERE A CIRCUIT IS FEEDING MULTIPLE DEVICES WITH ONLY SOME DEVICES ON THAT CIRCUIT BEING REMOVED, THE CONTRACTOR SHALL PULL THE CIRCUIT WIRING BACK TO THE NEAREST EXISTING (TO REMAIN) DEVICE. REFER TO GENERAL NOTE 6.
3. ANY CIRCUIT BREAKER THAT WILL NOT BE RE-USED SHALL BE LEFT IN THE PANEL AND NOTED AS 'SPARE' IN THE PANEL DIRECTORY. CONTRACTOR TO ENSURE THAT ALL SPARE BREAKERS ARE LEFT IN THE 'OFF' POSITION.
4. FOR ANY EQUIPMENT THAT IS BEING REMOVED, IF THE ASSOCIATED CONNECTION POINT OR DEVICE IS IN A FLUSH MOUNTED BOX IN THE WALL WHICH IS NOT BEING REMOVED, THE CONTRACTOR SHALL PROVIDE A STAINLESS STEEL COVER PLATE AFTER THE REMOVAL OF THE DEVICE.
5. INFORMATION SHOWN ON THE DRAWING THAT RELATES TO EXISTING CIRCUITING WAS OBTAINED FROM A VISUAL SURVEY AND AS-BUILT DRAWINGS. THE CONTRACTOR SHALL CONFIRM ALL CIRCUITING PRIOR TO STARTING WORK.
6. REFER TO DRAWING E200 FOR EXISTING CIRCUIT BREAKERS AND ASSOCIATED CONDUIT AND WIRING THAT ARE TO BE RE-USED.



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MOUNTAIN INSTITUTE**

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HEALTH CARE EXPANSION**

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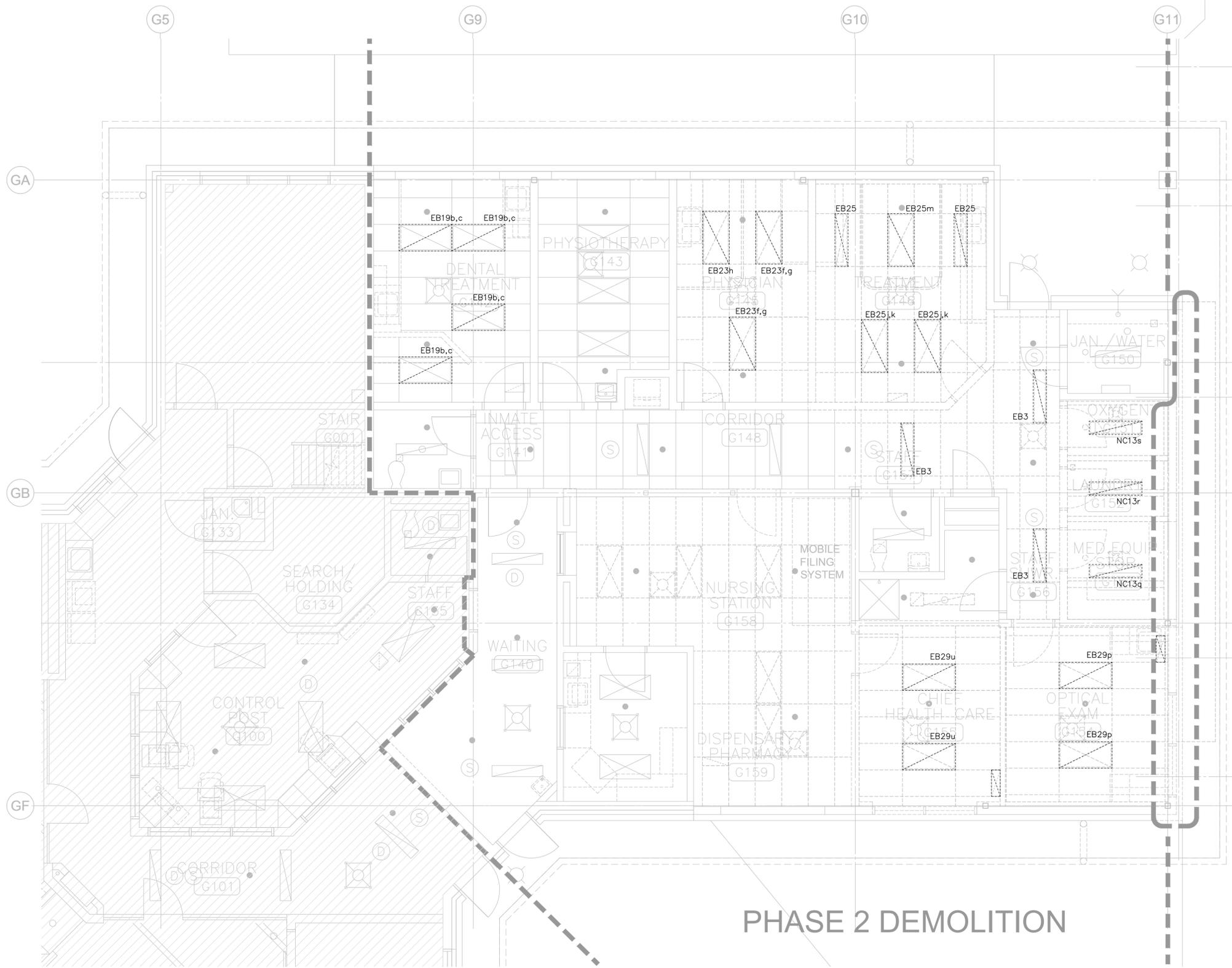
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**PREETIPAL PAUL**

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**PHASE 2 - LIGHTING  
DEMOLITION PLAN**

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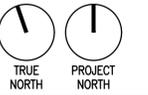
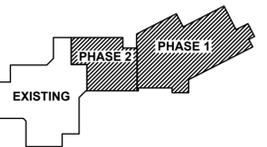


**MAIN FLOOR RCP ELECTRICAL DEMOLITION PLAN - LIGHTING**



**GENERAL NOTES:**

- EXISTING LUMINAIRES IDENTIFIED WITH CIRCUIT NUMBERS TO BE PERMANENTLY REMOVED. PULL ALL CIRCUIT WIRING BACK TO THE NEAREST ASSOCIATED JUNCTION BOX AND MAKE SAFE OR DEPENDING ON THE WIRING SETUP, PULL BACK TO AN EXISTING (TO REMAIN) LUMINAIRE ON THE SAME CIRCUIT. CONTRACTOR TO CONFIRM WITH DP IF THE REMOVED LUMINAIRES SHOULD BE REMOVED FROM SITE OR HANDED OVER TO DEPARTMENT REPRESENTATIVE (DP).
- NEW LUMINAIRES TO RE-USE EXISTING CIRCUITS. FOR NEW LIGHTING LAYOUT REFER TO DRAWING E102.
- INFORMATION SHOWN ON THE DRAWING THAT RELATES TO EXISTING CIRCUITING WAS OBTAINED FROM A VISUAL SURVEY AND AS-BUILT DRAWINGS. THE CONTRACTOR SHALL CONFIRM ALL CIRCUITING PRIOR TO STARTING WORK.



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Project title/Titre du projet: **AGASSIZ, BRITISH COLUMBIA 4732 CEMETERY ROAD PO BOX 1600 MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE HEALTH CARE EXPANSION**

Consultant Signature Only

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PSPC Project Manager/Administrateur de Projets SPAC: **TONY TANG**

Regional Manager, Architectural and Engineering Services: **PREETIPAL PAUL**

Drawing title/Titre du dessin: **PHASE 2 - LIGHTING PLAN**

Project No./No. du projet: <b>R.077724.001</b>	Sheet/Feuille: <b>E100</b>	Revision no./La Révision no.: <b>0</b>
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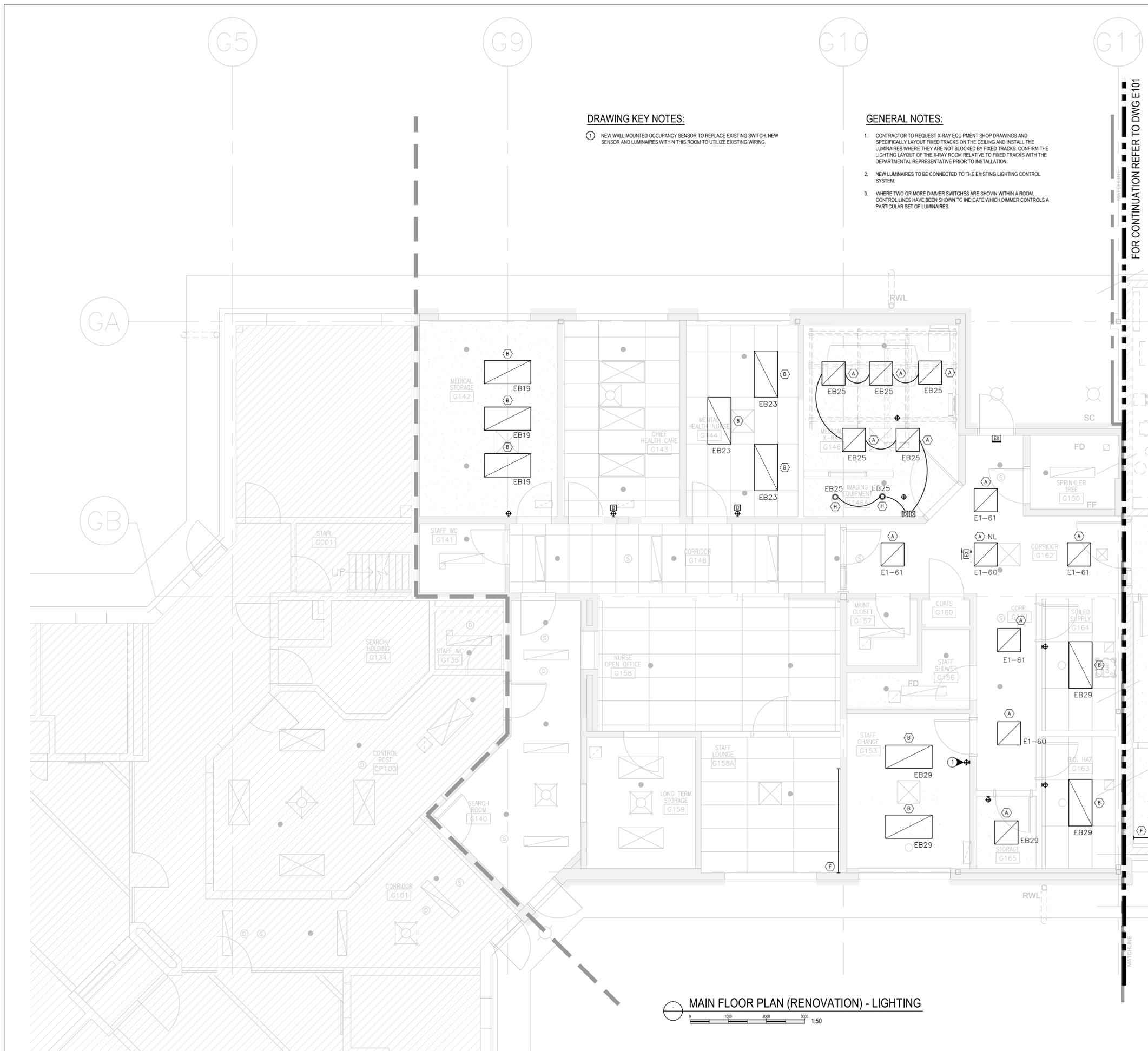
**DRAWING KEY NOTES:**

- ① NEW WALL MOUNTED OCCUPANCY SENSOR TO REPLACE EXISTING SWITCH. NEW SENSOR AND LUMINAIRES WITHIN THIS ROOM TO UTILIZE EXISTING WIRING.

**GENERAL NOTES:**

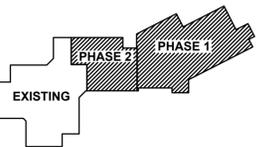
- CONTRACTOR TO REQUEST X-RAY EQUIPMENT SHOP DRAWINGS AND SPECIFICALLY LAYOUT FIXED TRACKS ON THE CEILING AND INSTALL THE LUMINAIRES WHERE THEY ARE NOT BLOCKED BY FIXED TRACKS. CONFIRM THE LIGHTING LAYOUT OF THE X-RAY ROOM RELATIVE TO FIXED TRACKS WITH THE DEPARTMENTAL REPRESENTATIVE PRIOR TO INSTALLATION.
- NEW LUMINAIRES TO BE CONNECTED TO THE EXISTING LIGHTING CONTROL SYSTEM.
- WHERE TWO OR MORE DIMMER SWITCHES ARE SHOWN WITHIN A ROOM, CONTROL LINES HAVE BEEN SHOWN TO INDICATE WHICH DIMMER CONTROLS A PARTICULAR SET OF LUMINAIRES.

FOR CONTINUATION REFER TO DWG E101



**MAIN FLOOR PLAN (RENOVATION) - LIGHTING**





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**AGASSIZ, BRITISH COLUMBIA  
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**PHASE 1 - LIGHTING PLAN**

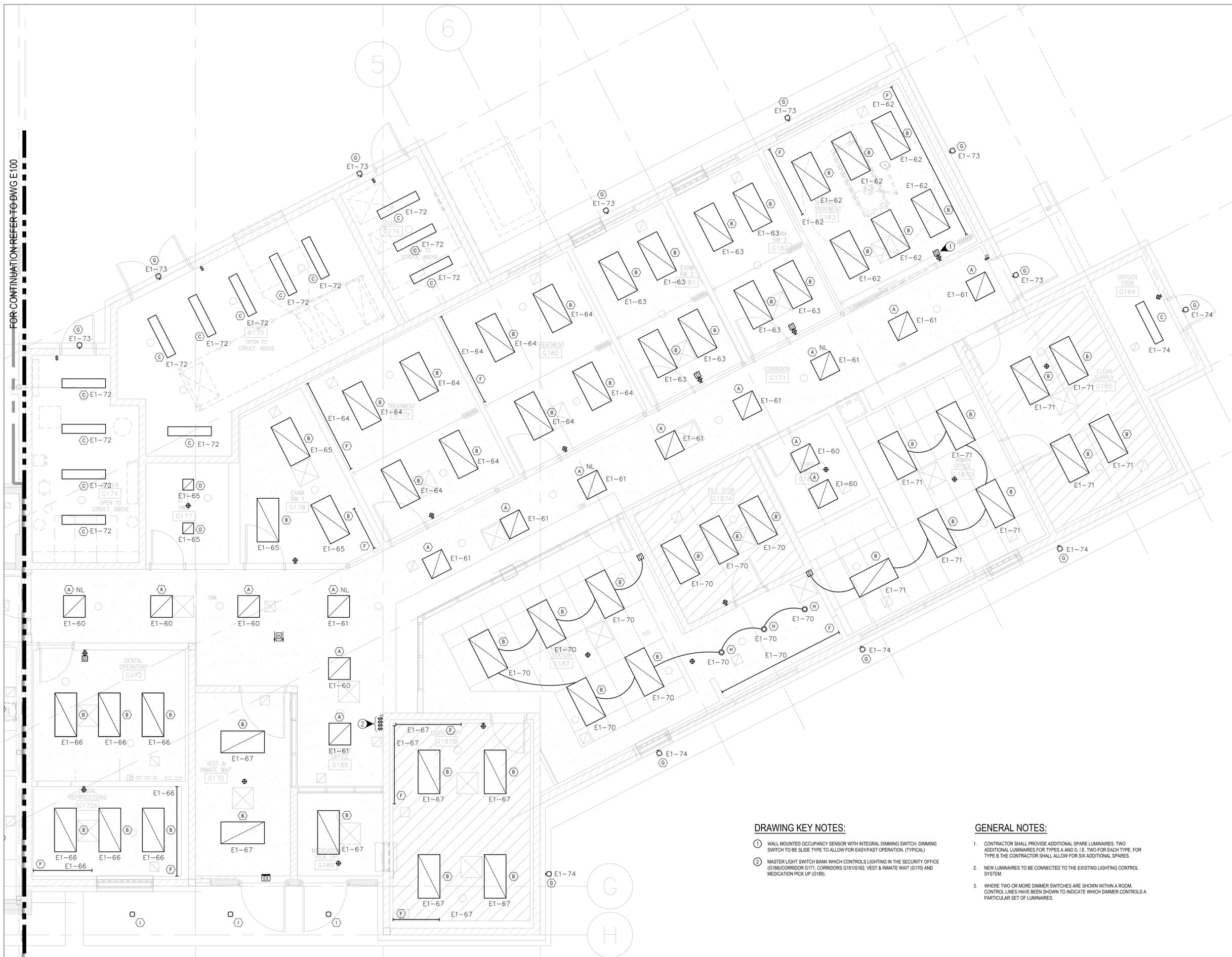
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FOR CONTINUATION REFER TO DWG E100



**DRAWING KEY NOTES:**

- 1 WALL MOUNTED OCCUPANCY SENSOR WITH INTEGRAL DIMMING SWITCH. DIMMING SWITCH TO BE SLIDE TYPE TO ALLOW FOR EASY/FAST OPERATION. (TYPICAL)
- 2 MASTER LIGHT SWITCH BANK WHICH CONTROLS LIGHTING IN THE SECURITY OFFICE (G186) CORRIDOR G171, CORRIDORS G151/G162, VEST & INMATE WAIT (G170) AND MEDICATION PICK UP (G189).

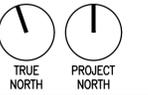
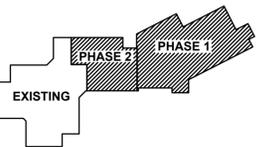
**GENERAL NOTES:**

1. CONTRACTOR SHALL PROVIDE ADDITIONAL SPARE LUMINAIRES. TWO ADDITIONAL LUMINAIRES FOR TYPES A AND D, I.E. TWO FOR EACH TYPE. FOR TYPE B THE CONTRACTOR SHALL ALLOW FOR SIX ADDITIONAL SPARES.
2. NEW LUMINAIRES TO BE CONNECTED TO THE EXISTING LIGHTING CONTROL SYSTEM.
3. WHERE TWO OR MORE DIMMER SWITCHES ARE SHOWN WITHIN A ROOM, CONTROL LINES HAVE BEEN SHOWN TO INDICATE WHICH DIMMER CONTROLS A PARTICULAR SET OF LUMINAIRES.

**MAIN FLOOR PLAN (ADDITION) - LIGHTING**







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**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**PHASE 1 - POWER, DATA & FIRE ALARM PLAN**

Project No./No. du projet  
**R.077724.001**

Sheet/Feuille  
**E201**

Revision no./La Révision no.  
**0**

8 OF 15

**Z32 AND CEC SECTION 24 NOTES:**

- ISOLATED GROUND RECEPTACLES ARE NOT PERMITTED TO BE USED IN PATIENT CARE AREAS. ELECTRICAL CONTRACTOR TO ENSURE THAT THE GROUNDING PIN OF THE EACH RECEPTACLE IS CONNECTED TO THE BONDING SCREW OF THE OUTLET BOX. THIS MUST BE COMPLIED WITH IN ORDER TO MEET WITH Z32 AND CEC SECTION 24.
- ALL ESSENTIAL RECEPTACLES TO BE RED IN COLOUR IN PATIENT CARE AREAS.

**GENERAL NOTES:**

- CONTRACTOR TO CONFIRM EXACT LOCATIONS AND HEIGHT FOR ALL MEDICAL EQUIPMENT IN ALL TREATMENT AND EXAM ROOMS (SPECIFICALLY IN ROOM G183) WITH MEDICAL EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- CONNECT NEW FIRE ALARM DEVICES TO THE EXISTING FIRE ALARM SYSTEM.

PATIENT CARE AREA ENCLOSED BY DASHED LINE. REFER TO Z32 AND CEC SECTION 24 NOTES FOR DETAILS.

**ELECTRICAL ROOM KEY NOTES:**

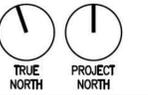
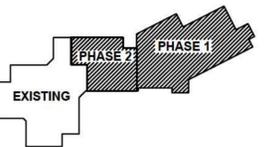
- 120/208V ESSENTIAL DOUBLE TUB POWER PANEL 'E1'.
- 120/208V NORMAL POWER PANEL 'N1'.
- 600:120/208V 45 kVA TRANSFORMER 'TX-G6EA1' ON HOUSEKEEPING PAD.
- 600:277/480V 112.5 kVA TRANSFORMER 'TX-XRAY' ON HOUSEKEEPING PAD.
- 347/600V ESSENTIAL POWER PANEL 'G6EA1'.

**DRAWING KEY NOTES:**

- RECEPTACLE OUTLET FOR PORTABLE SUCTION UNIT. AT HIGH LEVEL.
- RECEPTACLE OUTLET FOR ICE DISPENSER.
- JUNCTION BOX FOR SPECIALTY TREATMENT EXAM LIGHT MOUNTED ABOVE FINISHED CEILING. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS.
- CLEAN SUPPLY BLOOD FRIDGE ON DEDICATED ESSENTIAL SUPPLY CIRCUIT.
- BLOOD FRIDGE ON DEDICATED ESSENTIAL SUPPLY CIRCUIT.
- COMPARTMENTAL CABLE TRAY RUNNING THE LENGTH OF THE CORRIDOR (G148, G162 AND G171) ABOVE THE CEILING. THIS SHALL BE UTILIZED TO CARRY CABLES WHICH ARE COMING FROM THE T&E ROOM G202 VIA THE COMMUNICATION PULL BOXES.
- RECEPTACLE FOR MONITOR.
- RECEPTACLE FOR DIAGNOSTIC PANEL MOUNTED AT HIGH LEVEL.
- RECEPTACLE FOR WALL MOUNTED SCOPE, MOUNTED AT HIGH LEVEL.
- ABOVE COUNTER RECEPTACLE FOR MONITOR.
- RECEPTACLE FOR PHOROPTER.
- RECEPTACLE FOR PROJECTOR.
- ABOVE COUNTER RECEPTACLE FOR LENS METER.
- RECEPTACLE FOR EXAM LIGHT.
- ABOVE COUNTER RECEPTACLE FOR INCUBATOR.
- ABOVE COUNTER RECEPTACLE FOR CENTRIFUGE.
- RECEPTACLE FOR DEFIBRILLATOR LOCATED AT HIGH LEVEL NEXT TO WALL MOUNTED CABINET.
- RECEPTACLE FOR ECG MONITOR.
- RECEPTACLE FOR NIBP MONITOR.
- RECEPTACLE FOR LAMP BOX.
- RECEPTACLE FOR PRINTER.
- RECEPTACLE FOR SHEDDER.
- RECEPTACLE FOR PRINTER.
- ABOVE COUNTER RECEPTACLE FOR VIEW BOX.
- ABOVE COUNTER RECEPTACLE FOR AUTOCLAVE.
- RECEPTACLE FOR WATER PURIFIER.
- ABOVE COUNTER RECEPTACLE FOR PERI PRO.
- ABOVE COUNTER RECEPTACLE FOR READER.
- ABOVE COUNTER RECEPTACLE FOR VIBRATOR.
- ABOVE COUNTER RECEPTACLE FOR GRINDER.
- ABOVE COUNTER RECEPTACLE FOR MIXER.
- EXAM ROOM 1 CHAIR AND STAND RECEPTACLE.
- DENTAL CHAIR POWER CONNECTION.
- RECEPTACLE FOR ULTRA-SONIC CLEANER.
- 120V FOR MOTORIZED DAMPERS.

**MAIN FLOOR PLAN (ADDITION) - POWER**

FOR CONTINUATION REFER TO DWG E200



Revision/	Description/Description	Date/Date
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0	ISSUED FOR TENDER	17/09/01

Client/client  
**CORRECTIONAL SERVICE OF CANADA**

Project title/Titre du projet  
**AGASSIZ, BRITISH COLUMBIA  
4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

Consultant Signature Only

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**MARK HEFFERNAN/ROBERT MINSKI (AES ENGINEERING)**

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PSPC Project Manager/Administrateur de Projets SPAC  
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**PREETPAL PAUL**

Drawing title/Titre du dessin  
**SINGLE LINE DIAGRAM**

### EXPANSION PRELIMINARY LOAD CALCULATION

EXPANSION PRELIMINARY LOAD CALCULATION

BASIC LOADS – (354M<sup>2</sup> x 50W)  
TOTAL NEW AREA @ 50W/M<sup>2</sup> 17.7kW

MECH LOADS @ 75% (20kW x 75%) 15kW

X-RAY MAX INTERMITTENT @ 100% 80kW

TOTAL 112.7kW  
112.7 X 1.25=141kW

LOAD DATA FROM 2014 INDICATES A MAXIMUM OF 28kW ON G6NA LEAVING 132kW OF CAPACITY  
64kW ON G6EA LEAVING 96kW OF CAPACITY

THE MAJORITY OF LOAD IN THE EXPANSION WILL BE ON ESSENTIAL POWER. HOWEVER WITH THE X-RAY SUPPLIED BY NON ESSENTIAL POWER THERE IS CAPACITY TO SUPPLY THE HEALTH CARE EXPANSION FROM NK-3 VIA THE EXISTING PANELS G6NA AND G6EA

#### 600V - 208V TRANSFORMER BREAKER, FEEDER AND CONDUIT SIZING

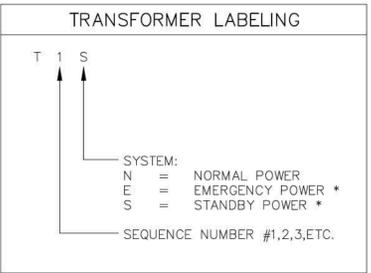
TRANSFORMER PRIMARY BREAKER (A)	PRIMARY CONDUCTORS PER PHASE	PRIMARY FEEDER + GND WIRE	3C CONDUIT mm (INCH)	TRANSFORMER RATING (KVA)	SECONDARY CONDUCTORS PER PHASE	SECONDARY FEEDER + GND WIRE	3C CONDUIT mm (INCH)	4C CONDUIT mm (INCH)	5c CONDUIT mm (INCH)
20-3P	1	#12AWG+G	21mm (3/4)	15	1	#6AWG+G	27mm (1)	35mm (1 1/4)	35mm (1 1/4)
40-3P	1	#8AWG+G	27mm (1)	30	1	#1AWG+G	41mm (1 1/2)	53mm (2)	53mm (2)
60-3P	1	#6AWG+G	27mm (1)	45	1	#2/OAWG+G	53mm (2)	53mm (2)	63mm (2 1/2)
90-3P	1	#3AWG+G	35mm (1 1/4)	75	1	300kcmil+G	78mm (3)	78mm (3)	91mm (3 1/2)
150-3P	1	#1/OAWG+G	53mm (2)	112.5	2	#4/OAWG+G	63mm (2 1/2)	63mm (2 1/2)	78mm (3)
175-3P	1	#2/OAWG+G	53mm (2)	150	2	250kcmil+G	78mm (3)	78mm (3)	78mm (3)
275-3P	1	300kcmil+G	78mm (3)	225	3	300kcmil+G	78mm (3)	78mm (3)	91mm (3 1/2)
400-3P	2	#3/OAWG+G	53mm (2)	300	4	350kcmil+G	78mm (3)	91mm (3 1/2)	91mm (3 1/2)
600-3P	2	350kcmil+G	78mm (3)	500	5	500kcmil+G	91mm (3 1/2)	103mm (4)	103mm (4)

NOTE: ALL FEEDER RUNS ARE BASED ON 100' OF COPPER CONDUCTORS.

#### BREAKER, FEEDER + CONDUIT SIZING

BREAKER RATING (A)	CONDUCTORS PER PHASE	FEEDER + GND WIRE	3C CONDUIT mm (INCH)	4C CONDUIT mm (INCH)	5C CONDUIT mm (INCH)
15-3P	1	#12AWG+G	21mm (3/4)	21mm (3/4)	21mm (3/4)
20-3P	1	#12AWG+G	21mm (3/4)	21mm (3/4)	21mm (3/4)
25-3P	1	#12AWG+G	21mm (3/4)	21mm (3/4)	21mm (3/4)
30-3P	1	#10AWG+G	21mm (3/4)	21mm (3/4)	21mm (3/4)
35-3P	1	#10AWG+G	21mm (3/4)	21mm (3/4)	21mm (3/4)
40-3P	1	#8AWG+G	27mm (1)	27mm (1)	27mm (1)
45-3P	1	#8AWG+G	27mm (1)	27mm (1)	27mm (1)
50-3P	1	#8AWG+G	27mm (1)	27mm (1)	27mm (1)
60-3P	1	#6AWG+G	27mm (1)	35mm (1 1/4)	35mm (1 1/4)
70-3P	1	#4AWG+G	27mm (1)	35mm (1 1/4)	35mm (1 1/4)
80-3P	1	#4AWG+G	35mm (1 1/4)	35mm (1 1/4)	35mm (1 1/4)
90-3P	1	#3AWG+G	35mm (1 1/4)	35mm (1 1/4)	41mm (1 1/2)
100-3P	1	#3AWG+G	35mm (1 1/4)	35mm (1 1/4)	41mm (1 1/2)
110-3P	1	#2AWG+G	35mm (1 1/4)	41mm (1 1/2)	41mm (1 1/2)
125-3P	1	#1AWG+G	41mm (1 1/2)	53mm (2)	53mm (2)
150-3P	1	#1/OAWG+G	53mm (2)	53mm (2)	53mm (2)
175-3P	1	#2/OAWG+G	53mm (2)	53mm (2)	63mm (2 1/2)
200-3P	1	#3/OAWG+G	53mm (2)	63mm (2 1/2)	63mm (2 1/2)
225-3P	1	#4/OAWG+G	63mm (2 1/2)	63mm (2 1/2)	78mm (3)
250-3P	1	250kcmil+G	78mm (3)	78mm (3)	78mm (3)
300-3P	1	350kcmil+G	78mm (3)	91mm (3 1/2)	91mm (3 1/2)
350-3P	1	500kcmil+G	91mm (3 1/2)	103mm (4)	103mm (4)
400-3P	2	#3/OAWG+G	53mm (2)	63mm (2 1/2)	63mm (2 1/2)
450-3P	2	#4/OAWG+G	63mm (2 1/2)	63mm (2 1/2)	78mm (3)
500-3P	2	250kcmil+G	78mm (3)	78mm (3)	78mm (3)
600-3P	2	350kcmil+G	78mm (3)	91mm (3 1/2)	91mm (3 1/2)
800-3P	3	300kcmil+G	78mm (3)	78mm (3)	91mm (3 1/2)
1000-3P	3	400kcmil+G	78mm (3)	91mm (3 1/2)	103mm (4)
1200-3P	4	350kcmil+G	78mm (3)	91mm (3 1/2)	91mm (3 1/2)
1600-3P	5	400kcmil+G	78mm (3)	91mm (3 1/2)	103mm (4)
2000-3P	6	400kcmil+G	78mm (3)	91mm (3 1/2)	103mm (4)

NOTE: ALL FEEDER RUNS ARE BASED ON 100' OF COPPER CONDUCTORS.

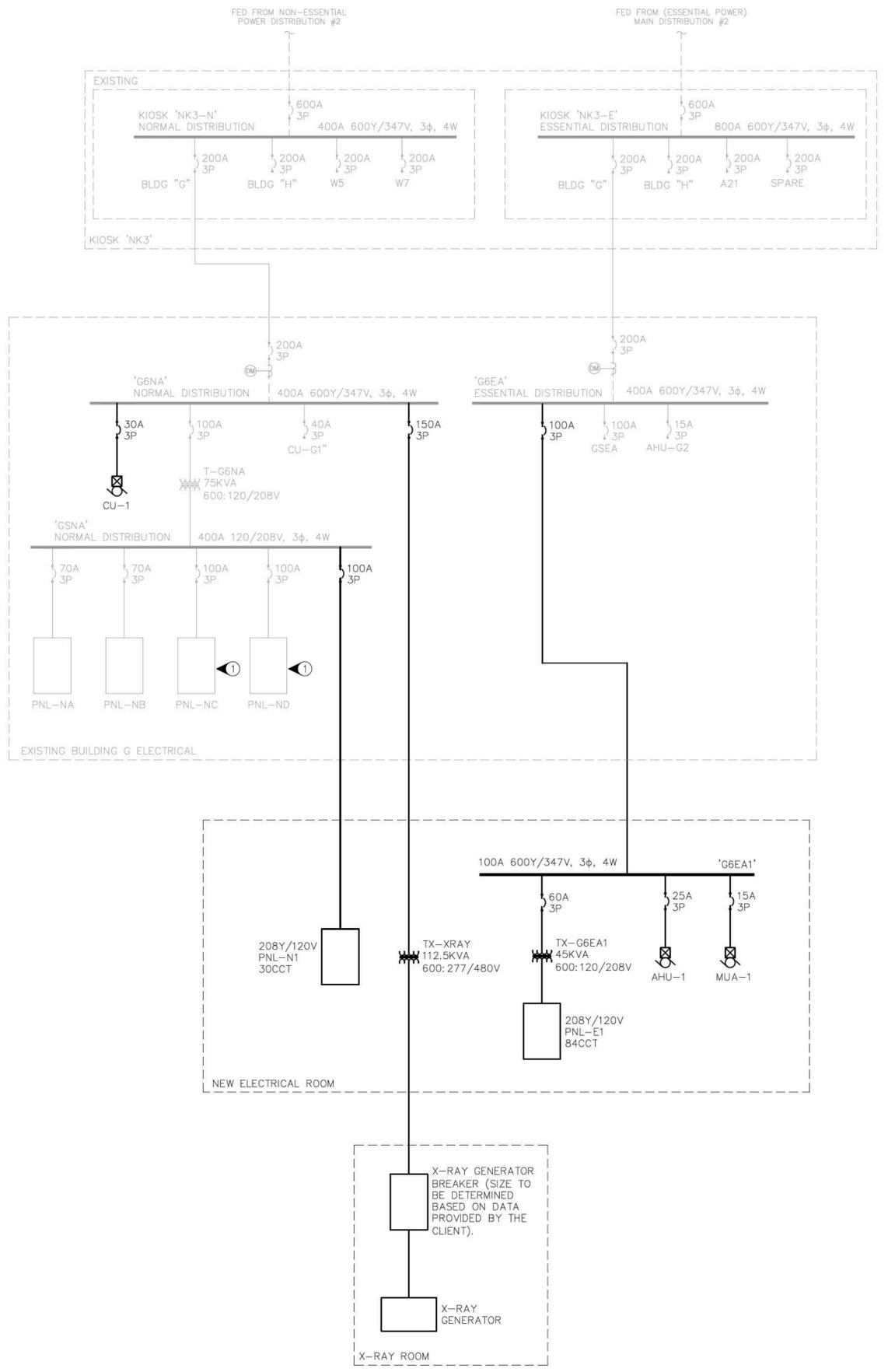


**GENERAL NOTES:**

- EXISTING SWITCHBOARDS "G6NA" AND "G6EA" ARE FEDERAL PIONEER TYPE. CONTRACTOR SHALL MAKE SURE THAT THE NEW CIRCUIT BREAKERS TO BE INSTALLED ARE COMPATIBLE WITH THESE SWITCHBOARDS.
- NOTE, REGARDING THE X-RAY MACHINE AND ASSOCIATED EQUIPMENT, THE FINAL POWER REQUIREMENTS ARE TO BE BASED ON THE CSC ACCEPTED EQUIPMENT MANUFACTURER.

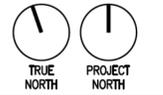
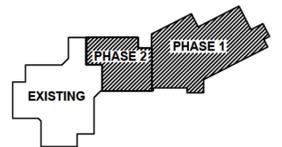
**DRAWING KEY NOTES:**

- EXISTING NORMAL POWER PANELS BEING REVISED AS PART OF THE HEALTH CARE EXPANSION.



1 SINGLE LINE DIAGRAM  
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Revision/	Description/Description	Date/Date
Client/client		

**CORRECTIONAL SERVICE OF CANADA**

Project title/Titre du projet  
**AGASSIZ, BRITISH COLUMBIA  
4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

**MOUNTAIN INSTITUTE  
HEALTH CARE EXPANSION**

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Designed by/Concept par  
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Drawn by/Dessiné par  
**LUISITO TUD (AES ENGINEERING)**  
PSPC Project Manager/Administrateur de Projets SPAC  
**TONY TANG**  
Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architecture et de génie, SPAC  
**PREETPAL PAUL**  
Drawing title/Titre du dessin

**POWER PANEL SCHEDULE**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>R.07724.001</b>	<b>E204</b>	<b>0</b>
	OF 15	

**EXISTING PANEL 'NC' (NORMAL POWER)**

DESCRIPTION	kW	BKR	CIRCUIT NO.	BKR	kW	DESCRIPTION
RM #132 INTERVIEW (LIGHTING)	-	15A	1	2	15A	RM #131 WASHER
DRUGLOO (CONTROL PANEL)	-	15A	3	4	30A	RM #131 COFFEE MACHINE
SPARE	-	15A	5	6	2P	
SPARE	-	15A	7	8	15A	RM #131 COUNTER (RECEPTACLE)
			9	10	15A	RM #131 COUNTER (RECEPTACLE)
			11	12	15A	RM #132 INTERVIEW (RECEPTACLE)
RM #151, 152, 153 (LIGHTING)	-	15A	13	14	15A	RM #132 INTERVIEW (RECEPTACLE)
RM #156, 157 (LIGHTING)	-	15A	15	16	15A	RM #142 DENTAL (RECEPTACLE)
RM #148 CORRIDOR (LIGHTING)	-	15A	17	18	15A	RM #142 DENTAL (RECEPTACLE)
SPARE	-	15A	19	20	15A	RM #142 DENTAL CHAIR (RECEPTACLE)
SPARE	-	15A	21	22	15A	RM #142 DENTAL LIGHT (RECEPTACLE)
SPARE	-	15A	23	24	15A	RM #143 PHYSIO (RECEPTACLE)
SPARE	-	15A	25	26	15A	RM #143 PHYSIO (RECEPTACLE)
SPARE	-	15A	27	28	15A	RM #148 ICE MACHINE (RECEPTACLE)
SPARE	-	15A	29	30	15A	RM #145 PHYSICIAN (RECEPTACLE)
SPARE	-	15A	31	32	15A	RM #145 & 146 COUNTER (RECEPTACLE)
SPARE	-	15A	33	34	15A	RM #145 & 146 BED (RECEPTACLE)
SPARE	-	15A	35	36	15A	RM #146 TREATMENT (RECEPTACLE)
SPARE	-	15A	37	38	15A	RM #146 TREATMENT (RECEPTACLE)
SPARE	-	15A	39	40	15A	RM #146 TREATMENT (RECEPTACLE)
SPARE	-	15A	41	42	15A	RM #146 TREATMENT (RECEPTACLE)

MAINS: - VOLTS: -  
MOUNTING: - LOCATION: -  
MAIN BKR.: - FED FROM: -

**EXISTING PANEL 'ND' (NORMAL POWER)**

DESCRIPTION	kW	BKR	CIRCUIT NO.	BKR	kW	DESCRIPTION
SPARE	-	15A	1	2	15A	RM #158 NURSE STATION (RECEPTACLE)
SPARE	-	15A	3	4	15A	RM #158 NURSE STATION (RECEPTACLE)
SPARE	-	15A	5	6	15A	RM #158 NURSE STATION (RECEPTACLE)
AHU-G1	-	20A	7	8	15A	RM #158 NURSE STATION (RECEPTACLE)
			9	10	15A	RM #158 NURSE STATION (RECEPTACLE)
			11	12	15A	RM #158 NURSE STATION (RECEPTACLE)
CU-G40, CU-G31	-	3P	13	14	15A	RM #158 NURSE STATION (RECEPTACLE)
			15	16	15A	RM #158 NURSE STATION (RECEPTACLE)
			17	18	15A	RM #158 NURSE STATION (RECEPTACLE)
CU-G30, CU-G41	-	15A	19	20	15A	RM #159 PHARMACY (RECEPTACLE)
			21	22	15A	RM #159 PHARMACY (RECEPTACLE)
			23	24	15A	RM #159 PHARMACY (RECEPTACLE)
DENTAL COMPRESSOR	-	15A	25	26	15A	RM #155 HEALTH CARE (RECEPTACLE)
			27	28	15A	RM #155 HEALTH CARE (RECEPTACLE)
			29	30	15A	RM #154 OPTICAL (RECEPTACLE)
DENTAL VACUUM	-	15A	31	32	15A	RM #154 OPTICAL (RECEPTACLE)
			33	34	15A	RM #154 OPTICAL (RECEPTACLE)
			35	36	15A	RM #152 LAUNDRY (RECEPTACLE)
SPARE	-	15A	37	38	15A	RM #151 OXYGEN (RECEPTACLE)
SPARE	-	15A	39	40	15A	RM #153 & 148 CORRIDOR (RECEPTACLE)
SPARE	-	15A	41	42	15A	RM #200 MECHANICAL (RECEPTACLE)

MAINS: - VOLTS: -  
MOUNTING: - LOCATION: -  
MAIN BKR.: - FED FROM: -

**DOUBLE TUB PANEL 'E1' (ESSENTIAL POWER)**

DESCRIPTION	kW	BKR	CIRCUIT NO.	BKR	kW	DESCRIPTION
WORK STATION RECEPTS G183	-	15A	1	2	15A	WORK STATIONS RECEPTS G181/G182
WORK STATION RECEPTS G180	-	15A	3	4	15A	WORK STATIONS RECEPTS G179
WORK STATION RECEPTS G178/G172A	-	15A	5	6	15A	NORTH WORK STATIONS RECEPTS G187D
SOUTH WORK STN&SHEDDER RECEPTS G187C/G187D	-	15A	7	8	15A	NORTH WORK STATIONS RECEPTS G187
SOUTH WORK STATION RECEPTS G187	-	15A	9	10	15A	WORK STATIONS RECEPTS G187B/G188
EAST WORK STN REC G158	-	15A	11	12	15A	WEST WORK STATIONS RECEPTS G158
SOUTH WORK STN REC G144	-	15A	13	14	15A	PRINTER/COPIER G187D
NORTH WORK STATION RECEPTS G143/G144	-	15A	15	16	15A	BLOOD FRIDGE G187B
PRINTER/COPIER G187C	-	20A	17	18	15A	BIOHAZARD FREEZER G163
AUTOClave G172A	-	15A	19	20	15A	MICROWAVE G158A
FRIDGE G158A	-	15A	21	22	15A	GRINDER G172A
DISHWASHER G158A	-	15A	23	24	15A	READER, PERI PRO & WATER PURIFIER G172A
MIXER & VIBRATOR G172A	-	15A	25	26	15A	SUCTION, SCOPE & MONITOR G178
DENTAL CHAIR G172	-	15A	27	28	15A	PHROPTER, LAMP, PROJECTOR&LENSMETER G178
EXAM ROOM 1, CHAIR AND STAND RECEPTS G178	-	15A	29	30	15A	DIAGNOSTIC PANEL & MONITOR G181/G182
DIAGNOSTIC PANEL AND MONITOR G179/G180	-	15A	31	32	15A	EKG MONITOR AND NIBP MONITOR G183
SUCTION, DIAGNOSTIC PANEL, DEFIBRILLATOR G183	-	15A	33	34	15A	CENTRIFUGE & DEFIBRILLATOR G180
SPECIALTY TREATMENT EXAM ROOM G183	-	15A	35	36	15A	ABOVE COUNTER RECEPT G179/G180
GENERAL RECEPTS G178/G179	-	15A	37	38	15A	ABOVE COUNTER RECEPT G181/G182
GENERAL RECEPTS G180/G181	-	15A	39	40	15A	ABOVE COUNTER RECEPT G183
GENERAL RECEPTS G182/G183	-	15A	41	42	15A	ABOVE COUNTER RECEPT G164/G165
PORTABLE SUCTION & A/C RECEPTS G143/G144	-	20A	43	44	15A	GRINDER G172
MIXER, ULTRASONIC CLEANER & VIEWBOX G172	-	15A	45	46	15A	GENERAL RECEPTS G172
GENERAL RECEPTS G172A	-	15A	47	48	15A	ABOVE COUNTER RECEPT G158A
ABOVE COUNTER RECEPT G158A	-	15A	49	50	15A	JUNCTION BOX IN G153
ABOVE COUNTER RECEPT G158A	-	15A	51	52	15A	WORK STATIONS RECEPTS G142
PPA RECEIVER	-	15A	53	54	15A	CLEAN SUPPLY BLOOD FRIDGE
MOTORIZED DAMPERS	-	15A	55	56	15A	SPARE
SPARE	-	15A	57	58	15A	SPARE
SPARE	-	15A	59	60	15A	LTG- CORRIDORS G162/G171 AND SECURITY OFFICE G188

MAINS: - VOLTS: -  
MOUNTING: - LOCATION: -  
MAIN BKR.: - FED FROM: -

**PANEL 'N1' (NORMAL POWER)**

DESCRIPTION	kW	BKR	CIRCUIT NO.	BKR	kW	DESCRIPTION
GENERAL RECEPTS G174/G175/G176	-	15A	1	2	15A	GENERAL RECEPTS G171/G190
GENERAL RECEPTS G185	-	15A	3	4	15A	GENERAL RECEPTS G188/G189
ICE DISPENSER G171	-	15A	5	6	15A	EXTERIOR RECEPTS (NORTH)
EXTERIOR RECEPTS (SOUTH)	-	15A	7	8	15A	X-RAY SYSTEMS CABINET
SPARE	-	15A	9	10	15A	GENERAL RECEPTS G187/G187C/G187D
GENERAL RECEPTS G153/G157/G163/G165/G164	-	15A	11	12	15A	GENERAL RECEPTS G140/G148/G151
GENERAL RECEPTS G142/G143/G144	-	15A	13	14	15A	GENERAL RECEPTS & WORK STATION G146
GENERAL RECEPTS G158/G158A/G159	-	15A	15	16	15A	CRAWL SPACE RECEPT
GENERAL RECEPTS G170/G187B/G189	-	15A	17	18	15A	GENERAL RECEPTS G178 /G179/G180/G181/G182/183
BASEBOARD HEATERS BB-2, BB-3 & BB-4	-	15A	19	20	15A	BASEBOARD HEATERS BB-1 & BB-5
SPARE	-	15A	21	22	15A	SPARE
SPARE	-	15A	23	24	15A	SPARE
SPARE	-	15A	25	26	15A	SPARE
SPARE	-	15A	27	28	15A	SPARE
SPARE	-	15A	29	30	15A	SPARE

MAINS: - VOLTS: -  
MOUNTING: - LOCATION: -  
MAIN BKR.: - FED FROM: -

**DOUBLE TUB PANEL 'E1' (ESSENTIAL POWER)**

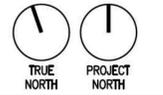
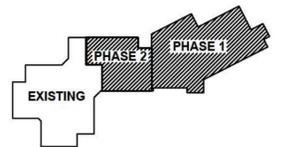
DESCRIPTION	kW	BKR	CIRCUIT NO.	BKR	kW	DESCRIPTION
LTG- CORRIDORS G162/G171 AND SECURITY OFFICE G188	-	15A	61	62	15A	LTG-G183
LTG-G181/G182	-	15A	63	64	15A	LTG-G179/G180
LTG-G177/G178	-	15A	65	66	15A	LTG-G172/G172A
LTG-G170/G187B/G184	-	15A	67	68	15A	SPACE
SPARE	-	15A	69	70	15A	LTG-G187/G187A
LTG-G185/G187D	-	15A	71	72	15A	LTG-G174/G175/G176
EXTERIOR LTG (NORTH)	-	15A	73	74	15A	EXTERIOR LTG (SOUTH)
LTG-G170/G187B/G184	-	15A	75	76	15A	LTG - CRAWL SPACE
LTG-G170/G187B/G184	-	15A	77	78	15A	SPARE
SPARE	-	15A	79	80	15A	SPARE
SPARE	-	15A	81	82	15A	SPARE
SPARE	-	15A	83	84	15A	SPARE
SPARE	-	15A	85	86	15A	SPARE
SPARE	-	15A	87	88	15A	SPARE
SPARE	-	15A	89	90	15A	SPARE
SPARE	-	15A	91	92	15A	SPARE
SPARE	-	15A	93	94	15A	SPARE
SPARE	-	15A	95	96	15A	SPARE
SPARE	-	15A	97	98	15A	SPARE
SPARE	-	15A	99	100	15A	SPARE
SPARE	-	15A	101	102	15A	SPARE
SPARE	-	15A	103	104	15A	SPARE
SPARE	-	15A	105	106	15A	SPARE
SPARE	-	15A	107	108	15A	SPARE
SPARE	-	15A	109	110	15A	SPARE
SPARE	-	15A	111	112	15A	SPARE
SPARE	-	15A	113	114	15A	SPARE
SPARE	-	15A	115	116	15A	SPARE
SPARE	-	15A	117	118	15A	SPARE
SPARE	-	15A	119	120	15A	SPARE

MAINS: - VOLTS: -  
MOUNTING: - LOCATION: -  
MAIN BKR.: - FED FROM: -

**GENERAL NOTES:**

- EXISTING PANELS 'NC' AND 'ND' SHOWN FOR REFERENCE PURPOSES ONLY. CONTRACTOR TO VERIFY ON SITE, THAT THE CIRCUITS SHOWN ARE CORRECT.





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**AGASSIZ, BRITISH COLUMBIA  
4732 CEMETERY ROAD PO BOX 1600  
MOUNTAIN INSTITUTE**

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HEALTH CARE EXPANSION**

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Designed by/Concept par  
**MARK HEFFERNAN/ROBERT MINSKI (AES ENGINEERING)**

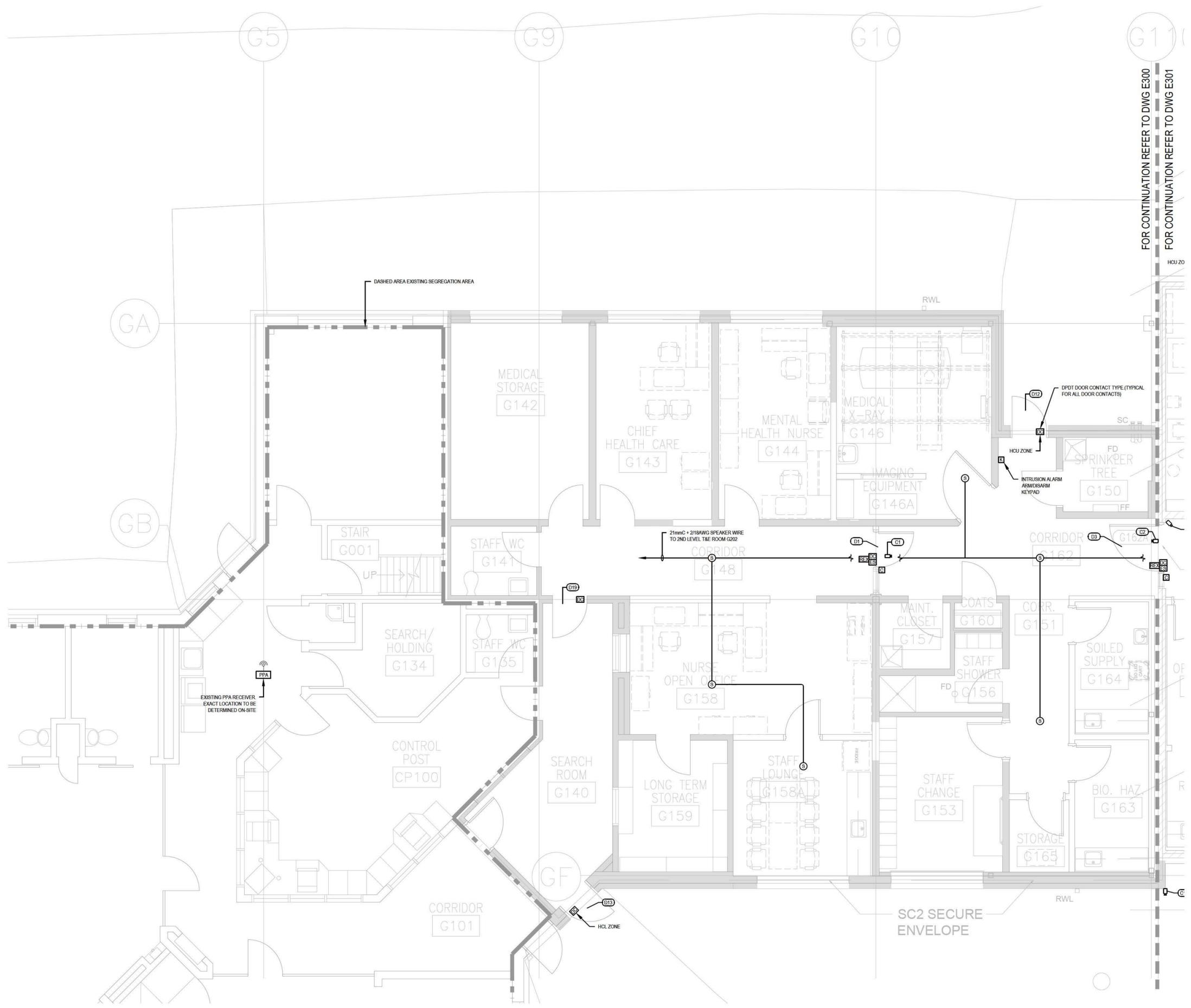
Drawn by/Dessiné par  
**LUISITO TUD (AES ENGINEERING)**

PSPC Project Manager/Administrateur de Projets SPAC  
**TONY TANG**

Regional Manager, Architectural and Engineering Services  
Gestionnaire régionale, Services d'architecture et de génie, SPAC  
**PREETIPAL PAUL**

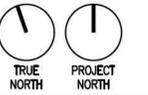
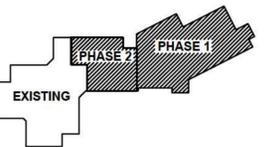
Drawing title/Titre du dessin  
**PHASE 2 - BSCS PLAN**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
<b>R.077724.001</b>	<b>E300</b> 12 OF 15	<b>0</b>



**1 MAIN FLOOR PLAN (RENOVATION) - BSCS**





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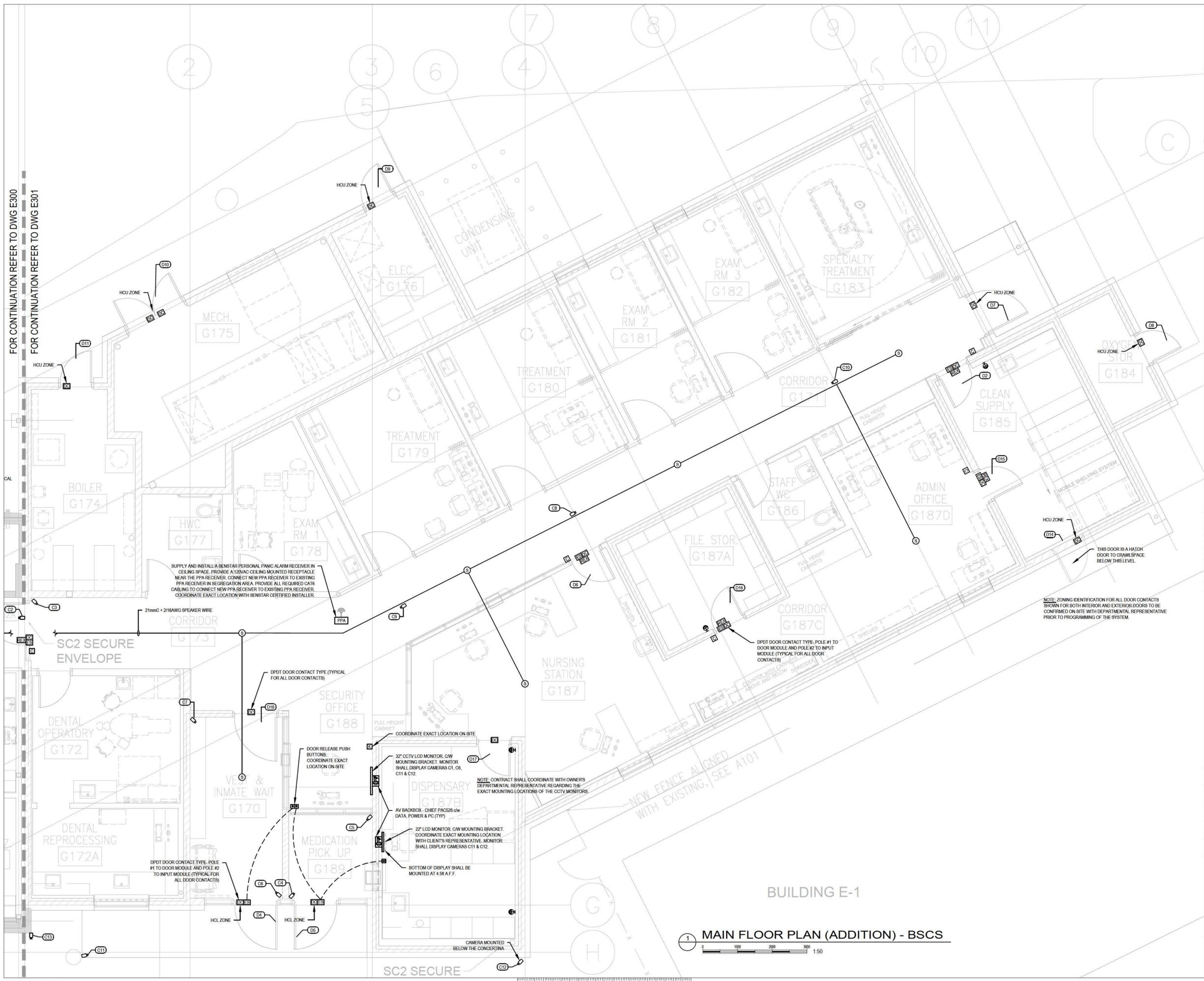
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PSPC Project Manager/Administrateur de Projets SPAC  
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**PREETIPAL PAUL**

Drawing title/Titre du dessin  
**PHASE 1 - BSCS PLAN**

Project No./No. du projet <b>R.077724.001</b>	Sheet/Feuille <b>E301</b> 13 OF 15	Revision no./La Révision no. <b>0</b>
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FOR CONTINUATION REFER TO DWG E300  
FOR CONTINUATION REFER TO DWG E301

SUPPLY AND INSTALL A SENSTAR PERSONAL PANIC ALARM RECEIVER IN CEILING SPACE. PROVIDE A 120VAC CEILING MOUNTED RECEPTACLE NEAR THE PPA RECEIVER. CONNECT NEW PPA RECEIVER TO EXISTING PPA RECEIVER IN SEGREGATION AREA. PROVIDE ALL REQUIRED CABLE CABLEING TO CONNECT NEW PPA RECEIVER TO EXISTING PPA RECEIVER. COORDINATE EXACT LOCATION WITH SENSTAR CERTIFIED INSTALLER.

DPDT DOOR CONTACT TYPE (TYPICAL FOR ALL DOOR CONTACTS)

DOOR RELEASE PUSH BUTTONS. COORDINATE EXACT LOCATION ON SITE

COORDINATE EXACT LOCATION ON-SITE

32" CCTV LCD MONITOR. CW MOUNTING BRACKET. MONITOR SHALL DISPLAY CAMERAS C1, C6, C11 & C12

AV BACKBOX. CHIEF PACS268 SW. DATA, POWER & PC (TYP)

22" LCD MONITOR. CW MOUNTING BRACKET. COORDINATE EXACT MOUNTING LOCATION WITH CLIENT'S REPRESENTATIVE. MONITOR SHALL DISPLAY CAMERAS C11 & C12.

BOTTOM OF DISPLAY SHALL BE MOUNTED AT 4.58 A.F.F.

CAMERA MOUNTED BELOW THE CONCERTINA

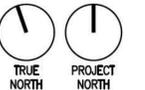
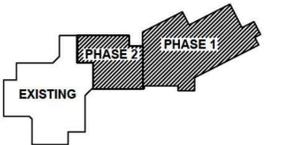
NOTE: CONTRACT SHALL COORDINATE WITH OWNER'S DEPARTMENTAL REPRESENTATIVE REGARDING THE EXACT MOUNTING LOCATIONS OF THE CCTV MONITORS.

DPDT DOOR CONTACT TYPE. POLE #1 TO DOOR MODULE AND POLE #2 TO INPUT MODULE (TYPICAL FOR ALL DOOR CONTACTS)

NOTE: ZONING IDENTIFICATION FOR ALL DOOR CONTACTS SHOWN FOR BOTH INTERIOR AND EXTERIOR DOORS TO BE CONFIRMED ON-SITE WITH DEPARTMENTAL REPRESENTATIVE PRIOR TO PROGRAMMING OF THE SYSTEM.

**MAIN FLOOR PLAN (ADDITION) - BSCS**





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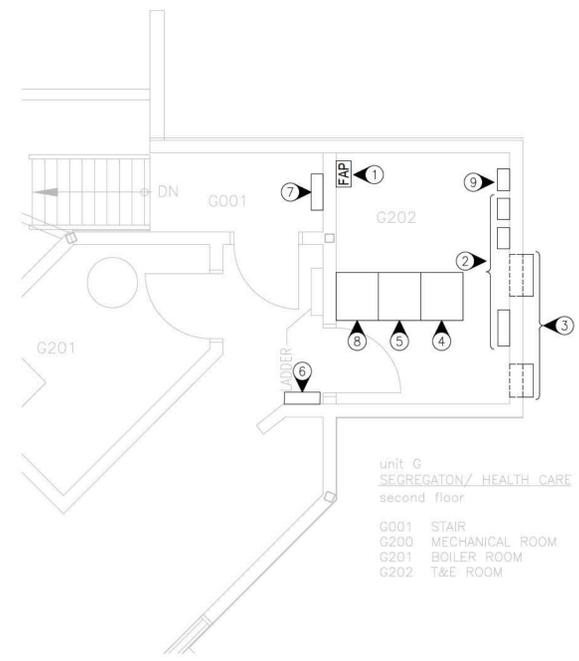
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**TONY TANG**

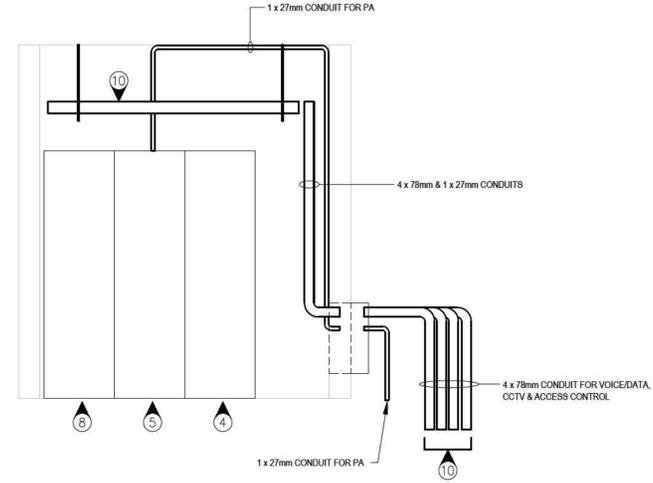
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Drawing title/Titre du dessin  
**CRAWL SPACE AND SECOND FLOOR - POWER, DATA, FIRE ALARM & BSCS PLAN**

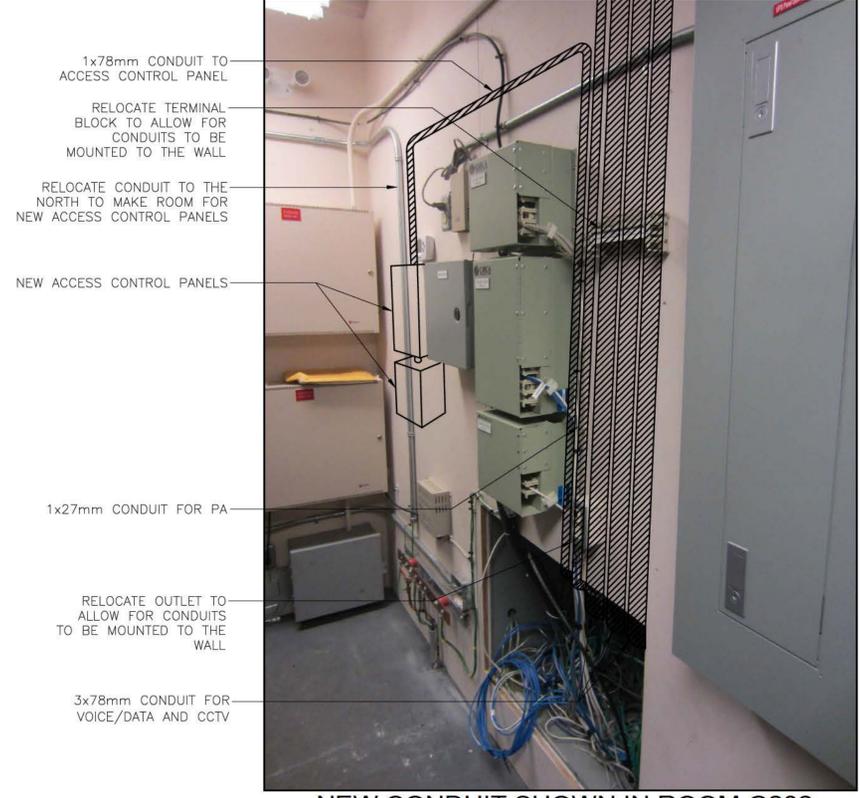
Project No./No. du projet <b>R.077724.001</b>	Sheet/Feuille <b>E302</b> 14 OF 15	Revision no./La Révision no. <b>0</b>
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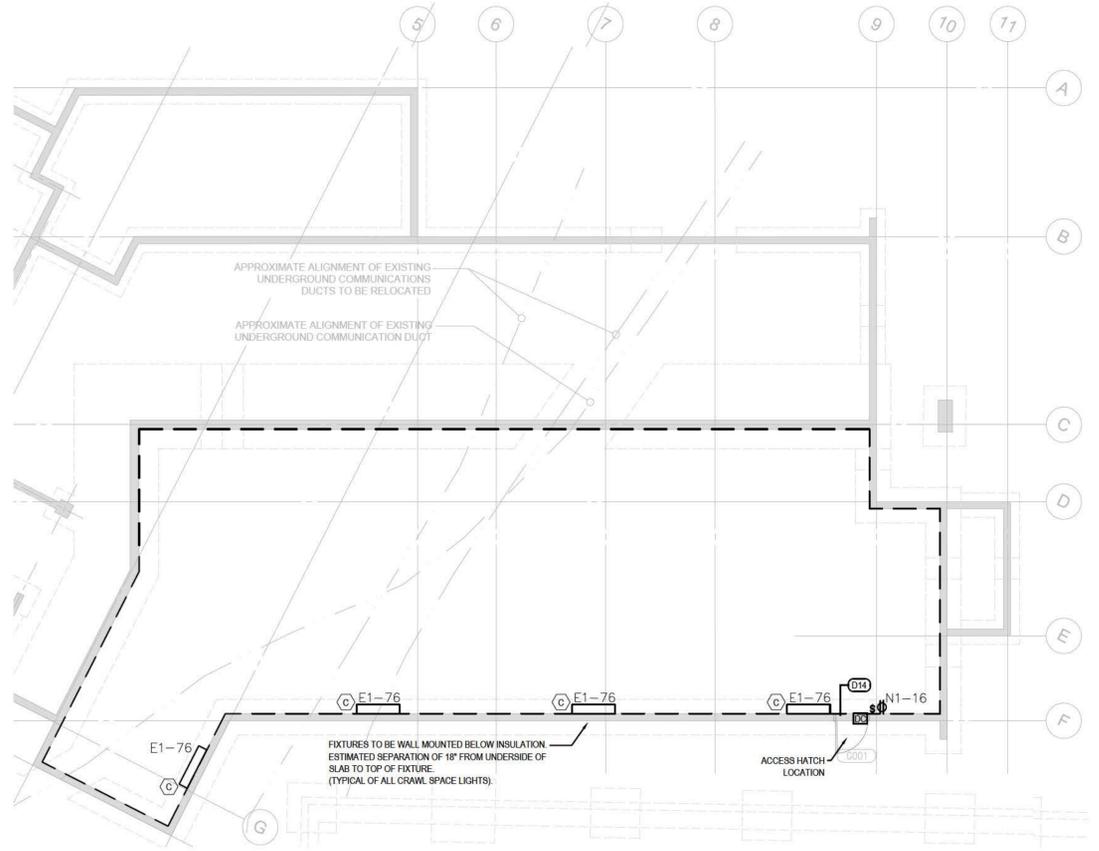
**1 2ND FLOOR T&E ROOM**  
Scale: 0 1000 2000 3000 1:50



**3 DETAIL OF CONDUIT ROUTE WITHIN ROOM G202**  
Scale: 0 500 1000 1500 1:30



**4 NEW CONDUIT SHOWN IN ROOM G202**  
NTS



**2 CRAWL SPACE**  
Scale: 0 2000 4000 6000 1:100



**5 DETAIL A**  
NTS



**6 DETAIL B**  
NTS



**7 DETAIL C**  
NTS

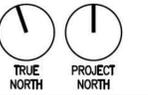
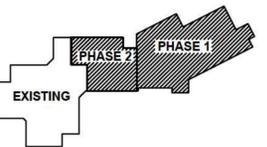


**8 DETAIL D**  
NTS



**9 DETAIL E**  
NTS

- DRAWING KEY NOTES:**
- FIRE ALARM PANEL (DETAIL A).
  - PHONE SYSTEM, TEL BEP 50 PR, FPA BEP 100 PR, PAGING BEP 25 PR AND UPS PANEL (DETAIL B). CONTRACTOR TO PROVIDE TWO DEDICATED 15A 120V CIRCUIT FROM THIS PANEL ALONG WITH POWER BAR TO PICK UP THE NEW HEAD END EQUIPMENT WITHIN THE COMMS RACKS AND ACCESS CONTROL EQUIPMENT.
  - COMMUNICATION AND SECURITY PULL BOXES (DETAIL B).
  - CCTV HEAD END EQUIPMENT IS SHOWN IN THE TOP HALF OF THE RACK. THE DIN RAIL TERMINAL BLOCK FOR THE FAAS SYSTEM IS ALSO SHOWN ON BOTTOM HALF OF THIS RACK (DETAIL D).
  - PUBLIC ADDRESS EQUIPMENT (DETAIL E).
  - 600V POWER DISTRIBUTION PANEL "G6EA".
  - 600V POWER DISTRIBUTION PANEL "G6NA".
  - VOICE AND DATA EQUIPMENT RACK.
  - NEW ACCESS CONTROL PANELS AND DOOR MODULES.
  - COMPARTMENTAL CABLE TRAY, 3 SECTIONS, 305mm TRAY, 100mm DEEP. SEE DRAWINGS E200 AND E201 FOR DETAILS.



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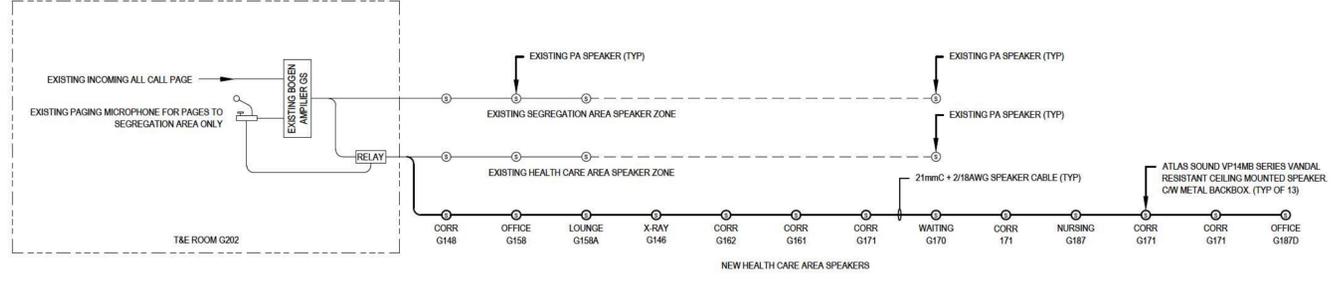
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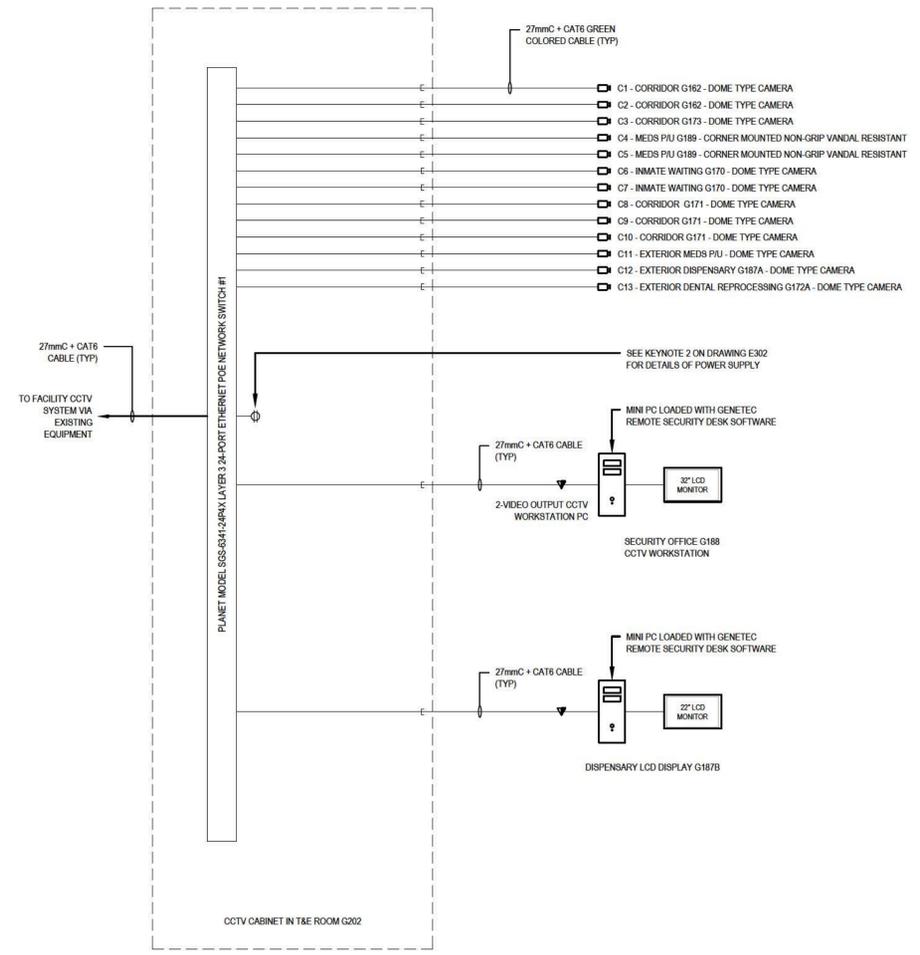
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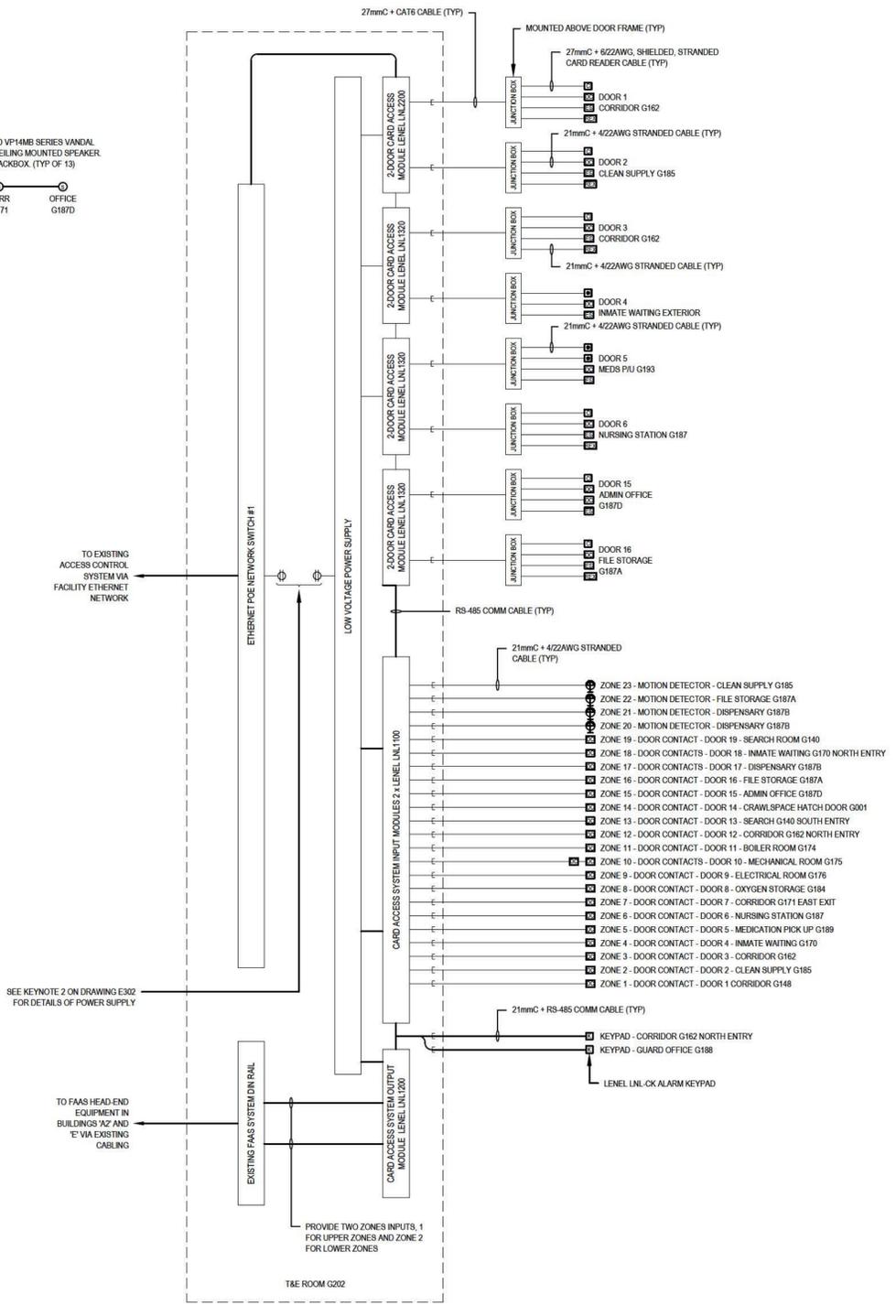
**LOW TENSION RISER DETAILS**



**3 PUBLIC ADDRESS SYSTEM RISER DETAILS**  
NTS



**1 CCTV SYSTEM CONDUIT RISER DETAILS**  
NTS



**2 CARD ACCESS SYSTEM CONDUIT RISER DETAILS**  
NTS