GENERAL SYMBOLS

#	NOTE REFERENCE
## ###	EQUIPMENT REFERENCE
A	REVISION NUMBER
##	WIRING HOME RUN

SECURITY/ACCESS CONTROL SYMBOLS

	CEILING MOUNTED SECURITY CAMERA
ADO	AUTOMATIC DOOR OPERATOR
CR	CARD READER
DC	DOOR CONTACT SWITCH
ES	ELECTRIC STRIKE
ML	ELECTROMAGNETIC LOCK
	PUSHBUTTON
RE	REQUEST-TO-EXIT MOTION SENSOR
E	REQUEST-TO-EXIT PUSHBUTTON

TELECOMMUNICATIONS SYMBOLS

#	WALL MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
#	FLOOR MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
#	CEILING MOUNTED TELECOM OUTLET (# DENOTES NUMBER OF CABLES)
WAP	WIRELESS ACCESS POINT
AT	ANTENNA
A	ANALOG CLOCK
PA	CEILING MOUNTED PA SPEAKER

ABBREVIATIONS

EX	EXISTING DEVICE TO REMAIN
RE	REMOVE EXISTING DEVICE
RP	REPLACE EXISTING DEVICE WITH NEW DEVICE
RL	RELOCATE EXISTING DEVICE
AFF	ABOVE FINISHED FLOOR
AV	AUDIO-VISUAL
BMS	BUILDING MANAGEMENT SYSTEM
FEC	FIRE EXTINGUISHER CABINET
FR	FREEZER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HK	HOUSEKEEPING
HT	HEAT TRACE WITH ASSOCIATED CONTROL PANEL
JB	JUNCTION BOX
MW	MICROWAVE
PA	PUBLIC ANNOUNCEMENT
PC	PERSONAL COMPUTER
PL	x
PTR	PRINTER
TYP	TYPICAL
UC	UNDERCOUNTER
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
WRK	STAFF WORK STATION

FIRE ALARM SYMBOLS

F	FIRE ALARM MANUAL STATION
F	FIRE ALARM BELL
CS	FIRE ALARM CONE SPEAKER
CS	FIRE ALARM CONE SPEAKER c/w STROBE
	FIRE ALARM SMOKE DETECTOR
DS	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED
SA	SMOKE ALARM
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
CACF	CENTRAL ALARM & CONTROL FACILITY
	FIRE ALARM EMERGENCY TELEPHONE
H	FIRE ALARM MAGNETIC DOOR HOLD OPEN DEVICE
R FA	FIRE ALARM RELAY
EOL	FIRE ALARM END OF LINE RESISTOR
ISO	FIRE ALARM FAULT ISOLATION MODULE
CM	FIRE ALARM CONTROL MODULE
MM	FIRE ALARM MONITOR MODULE
PS	FIRE ALARM CONNECTION TO PRESSURE SWITCH
FS	FIRE ALARM CONNECTION TO FLOW SWITCH
TS	FIRE ALARM CONNECTION TO TAMPER SWITCH
LS	FIRE ALARM CONNECTION TO LEVEL SWITCH
FSD	FIRE SMOKE DAMPER

POWER PLAN SYMBOLS

	DUPLEX 5-15R RECEPTACLE
	DUPLEX 5-20R RECEPTACLE, T-SLOT
	TWO DUPLEX 5-15R RECEPTACLES
	DUPLEX 5-15R RECEPTACLE - CONNECTED TO EMERGENCY POWER
	TWO DUPLEX 5-15R RECEPTACLES - CONNECTED TO EMERGENCY POWER
	SPECIAL RECEPTACLE (TYPE AS INDICATED)
J	CEILING MOUNTED JUNCTION BOX
J	WALL MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	POWER PANELBOARD
	PANEL (TYPE AS INDICATED - SECURITY, LIGHTING RELAY, ETC.)
	GROUND BUS BAR
	ROOM REFERENCE GROUND BUS
RGB	ROOM REFERENCE GROUND JUNCTION BOX
	MOTOR
	MOTOR c/w DISCONNECT SWITCH
	THERMOSTAT
	DEVICE MOUNTED ABOVE MILLWORK COUNTERTOP
	DIRECT CONNECTION

NURSE CALL SYMBOLS

	WALL MOUNTED NURSE CALL DOME LIGHT
	CEILING MOUNTED NURSE CALL DOME LIGHT
	NURSE CALL SINGLE PATIENT STATION
	NURSE CALL DOUBLE PATIENT STATION
	NURSE CALL STAFF STATION
	NURSE CALL STAFF EMERGENCY STATION
	NURSE CALL STAFF DUTY STATION/TONE STATION, WALL MOUNTED
	NURSE CALL TONE STATION, CEILING MOUNTED
	WALL MOUNTED NURSE CALL EMERGENCY STATION c/w PULLCORD
A	WALL MOUNTED NURSE CALL EMERGENCY STATION c/w PULLCORD, AUDIO
CB	WALL MOUNT BLUE STROBE
CW	NURSE CALL BUTTON STATION (CODES AS NOTED) - TYPICALLY CODE WHITE/CODE BLUE/CANCEL BUTTON
NCM	NURSE CALL MASTER STATION
NCT	NURSE CALL TERMINAL
MRQ	NURSE CALL MARQUEE

LIGHTING PLAN SYMBOLS

	RECESSED LED LUMINAIRE, 1'x4'
	RECESSED LED LUMINAIRE LUMINAIRE, 2'x4'
	RECESSED LED LUMINAIRE LUMINAIRE, 2'x2'
	LED STRIP LUMINAIRE, 4', EXACT LENGTH TO BE MEASURED ON SITE
	WALL MOUNTED LINEAR LUMINAIRE
	RECESSED LUMINAIRE / POT LIGHT, 6" DIAMETER OR LARGER
	RECESSED LUMINAIRE / POT LIGHT, LESS THAN 6" DIAMETER
	STEP OR WALL MOUNTED LUMINAIRE
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
	CEILING MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	LINE VOLTAGE SWITCH (120V TO 347V)
D	LOW VOLTAGE DIMMER SWITCH
D	LINE VOLTAGE DIMMER SWITCH
OS	LOW VOLTAGE SWITCH c/w OCCUPANCY SENSOR
OS	LINE VOLTAGE SWITCH c/w OCCUPANCY SENSOR
OS	CEILING MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
OS	WALL MOUNTED LIGHTING OCCUPANCY SENSOR (TYPE AS INDICATED)
PC PC	PHOTOCELL (EXTERIOR, TYPE AS INDICATED)
PC D PC D	DAYLIGHT SENSOR (INTERIOR PHOTOCELL, TYPE AS INDICATED)
	EMERG. LTG. BATTERY PACK (# OF LAMPS AS SHOWN)
	CEILING MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
	WALL MOUNTED EMERG. LTG. REMOTE HEAD (# OF LAMPS AS SHOWN)
	COMBINATION EXIT SIGN/EMERG. LTG. BATTERY PACK

LIGHTING ANNOTATION LEGEND

XX — LUMINAIRE TYPE (SCHEDULE REFERENCE)
PANEL
CIRCUIT
X-1S3 — SWITCH LEG

SCHEMATIC SYMBOLS

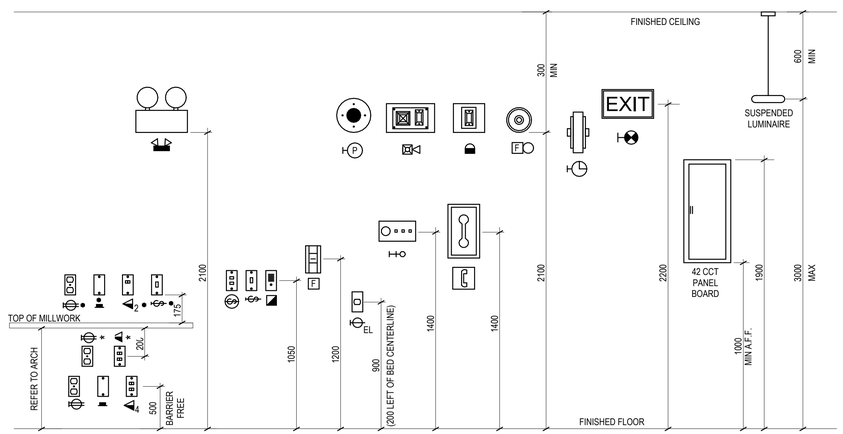
	LOW VOLTAGE CIRCUIT BREAKER
	TRANSFORMER
Δ	DELTA CONNECTION
Y	WYE CONNECTION
	GROUND CONNECTION
PANEL NQA 42CCT / PNL NQA	PANELBOARD
	BREAK LINE
	CONTINUATION BREAK

ELECTRICAL DRAWING LIST

E001	COVER PAGE
E100	LEVEL 1 - PATIENT CARE AREA CLASSIFICATION PLAN
E200	LEVEL 1 - POWER & COMMUNICATIONS DEMO - EAST SIDE
E201	LEVEL 1 - POWER & COMMUNICATIONS DEMO - WEST SIDE
E202	LEVEL 1 - POWER & COMMUNICATIONS DEMO - NORTH SIDE
E210	LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM DEMO - EAST SIDE
E211	LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM DEMO - WEST SIDE
E212	LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM DEMO - NORTH SIDE
E220	LEVEL 1 - LIGHTING DEMO - EAST SIDE
E221	LEVEL 1 - LIGHTING DEMO - WEST SIDE
E222	LEVEL 1 - LIGHTING DEMO - NORTH SIDE
E300	LEVEL 1 - POWER & COMMUNICATIONS NEW - EAST SIDE
E301	LEVEL 1 - POWER & COMMUNICATIONS NEW - WEST SIDE
E302	LEVEL 1 - POWER & COMMUNICATIONS NEW - NORTH SIDE
E310	LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM NEW - EAST SIDE
E311	LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM NEW - WEST SIDE
E312	LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM NEW - NORTH SIDE
E320	LEVEL 1 - LIGHTING NEW - EAST SIDE
E321	LEVEL 1 - LIGHTING NEW - WEST SIDE
E322	LEVEL 1 - LIGHTING NEW - NORTH SIDE
E400	ELECTRICAL SCHEDULES & DIAGRAMS (1 OF 2)
E401	ELECTRICAL SCHEDULES & DIAGRAMS (2 OF 2)
E405	ELECTRICAL PANEL SCHEDULES
Grand total: 23	

GENERAL NOTES

1. OBTAIN ACCURATE DIMENSIONS FROM THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
2. PROVIDE FIELD MEASUREMENTS, WHERE EQUIPMENT AND MATERIAL DIMENSIONS ARE DEPENDENT UPON BUILDING DIMENSIONS.
3. PROVIDE A DETAILED REVIEW OF THE ARCHITECTURAL DRAWINGS TO COORDINATE INSTALLATION OF FEEDERS AND DEVICE FEEDS INTO THE BUILDING STRUCTURE.
4. WORK SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND THEIR INTENT. WORK SHALL INCLUDE THE PROVISION FOR ALL MATERIALS, LABOUR, TOOLS, EQUIPMENT AND SERVICES REQUIRED FOR CONSTRUCTING, INSTALLING AND PUTTING INTO REGULAR OPERATION THE COMPLETE ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED IN CONTRACT DOCUMENTS.
5. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL EXPOSED TO VIEW DEVICES, LIGHTING AND EQUIPMENT. EXAMINE AND BRING DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT BY WRITTEN NOTICE FOR CLARIFICATION.
6. NOT ALL SYMBOLS INDICATED IN THE SYMBOL SCHEDULES ARE USED IN THE DRAWINGS.
7. REFER TO ARCHITECTURAL DRAWINGS FOR EXISTING AND NEW FIRE SEPARATIONS.
8. GREYED OUT SYMBOLS DENOTE EXISTING EQUIPMENT TO REMAIN.
9. DARK WITH DASHED LINES SYMBOLS DENOTE EQUIPMENT TO BE REMOVED OR RELOCATED.
10. DARK SOLID LINE SYMBOLS DENOTE NEW OR RELOCATED EQUIPMENT.



GENERAL NOTES:

1. COORDINATE MOUNTING HEIGHT OF ELECTRICAL EQUIPMENT WITH EXISTING WHERE APPLICABLE.
2. ARCHITECTURAL DETAILS AND ELEVATIONS SHALL GOVERN OVER ELECTRICAL
3. ALL ELECTRICAL OUTLETS DESIGNATED FOR COUNTER TOP APPLICATION TO BE MOUNTED SUCH THAT THE OUTLET AND COVERPLATE DO NOT INTERFERE WITH THE BACK SPLASH.

1 / E001 **TYPICAL DEVICE MOUNTING HEIGHTS**
N.T.S.

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Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — MICHAEL ALAGNE — 31179
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health — the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
COVER PAGE

Project No. 144320012
Scale N.T.S.
Revision 2
Drawing No. **E001**

<PICK location in Project Information>
<Date>
ORIGINAL SHEET - ARCH D

PROJECT NORTH

GENERAL NOTES

1. BASIC CARE AREA - A PATIENT CARE AREA WHERE BODY CONTACT BETWEEN A PATIENT AND MEDICAL ELECTRICAL EQUIPMENT IS NEITHER FREQUENT NOR USUAL.
2. INTERMEDIATE CARE AREA - A PATIENT CARE AREA WHERE BODY CONTACT BETWEEN A PATIENT AND MEDICAL ELECTRICAL EQUIPMENT IS FREQUENT OR NORMAL.
3. CRITICAL CARE AREA - A PATIENT CARE AREA WHERE THE INDUCTION AND MAINTENANCE OF GENERAL ANAESTHESIA ROUTINELY OCCURS IN CONNECTION WITH THE EXAMINATION OR TREATMENT OF PATIENTS, OR WHERE CARDIAC CONTACT BETWEEN A PATIENT AND MEDICAL ELECTRICAL EQUIPMENT IS FREQUENT OR NORMAL.
4. THE ELECTRICAL INSTALLATIONS IN PATIENT CARE AREAS AND ENVIRONMENTS SHALL COMPLY TO LATEST VERSION OF CSA Z32, AND SECTION 24 OF THE LATEST ADOPTED VERSION OF CEC.

1 / E100 LEVEL 1 - PATIENT CARE AREA CLASSIFICATION PLAN

1 : 100

0 1m 2m 5m 10m
Scale 1: 100

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Permit/Seal

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

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Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

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Title
LEVEL 1 - PATIENT CARE AREA CLASSIFICATION PLAN

Project No. 144320012

Scale As indicated

Revision 2

Drawing No. E100

<Pick location in Project Information>
Plotted On 2025-01-27 9:53:27 PM

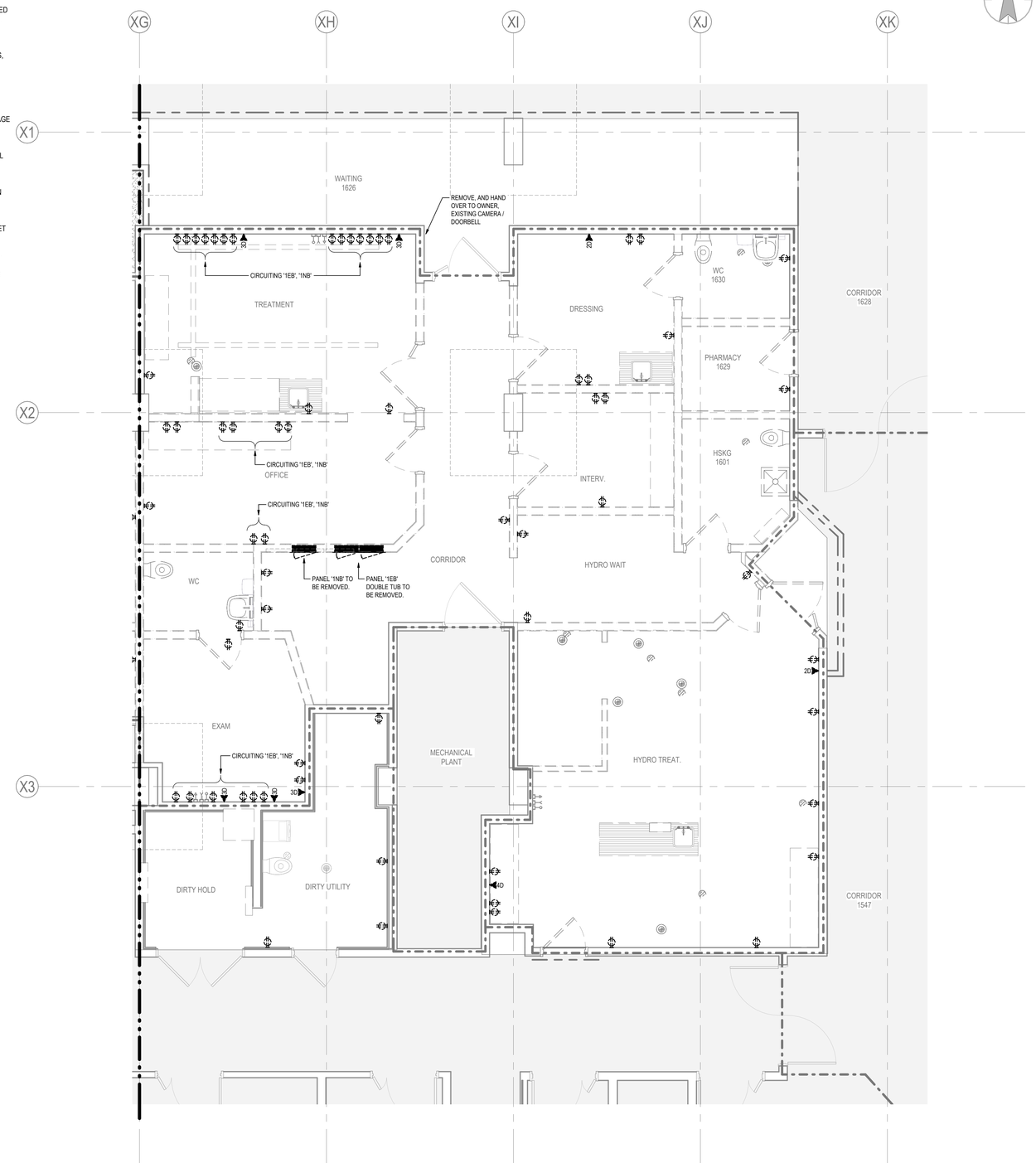
ORIGINAL SHEET - ARCH D

PROJECT NORTH

GENERAL NOTES

1. REFER TO GENERAL NOTES ON DRAWING E001.
2. FOR ALL AREAS IN IDENTIFIED DEMOLITION AREA AND UNLESS OTHERWISE NOTED, CONTRACTOR SHALL REMOVE ALL ELECTRICAL DEVICES/EQUIPMENT BACK TO SOURCE, INCLUDING BUT NOT LIMITED TO DATA/POWER CABLING, JUNCTION BOXES, OUTLETS AND ALL ASSOCIATED ELECTRICAL DEVICES, MECHANICAL EQUIPMENT AND CONTROL DEVICES.
3. CONTRACTOR SHALL PROVIDE THE NECESSARY JUNCTION BOXES, WIRING SPLICES AND COVER PLATES WHERE IT IS REQUIRED TO REMOVE ELECTRICAL DEVICES, EQUIPMENT, OR WIRING DEVICES, BUT THE BOX/CONDUITS/DEVICES/WIRING IS REQUIRED TO BE RETAINED TO MAINTAIN BUILDING BRANCH CIRCUITS TO OTHER DEVICES THAT REMAIN.
4. RELOCATE AND EXTEND EXISTING CONDUIT AND WIRING SYSTEMS AS REQUIRED TO SUIT THE INSTALLATION OF NEW EQUIPMENT.
5. WHEN RELOCATING ELECTRICAL AND ASSOCIATED DEVICES, CARE SHALL BE TAKEN TO AVOID DAMAGE TO DEVICES BEING REMOVED AND TO THE EXISTING DEVICES WITHIN THE BUILDING.
6. NOT ALL EXISTING DEVICES THAT REQUIRE TO BE RELOCATED, REMOVED OR REPLACED MAY BE SHOWN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FMO, CONSULTANT AND GENERAL CONTRACTOR TO CONFIRM ALL DEVICES FOR REMOVAL, RELOCATION OR REPLACE EXISTING WITH NEW.

   CONFIRM WITH OWNER IF ANY EQUIPMENT IS REQUIRED TO STAY. ALL EQUIPMENT, WITH EXCEPTION OF EQUIPMENT REQUIRED TO SERVE NON-DEMOLISHED SPACES OR SYSTEMS, IS TO BE REMOVED.
7. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING DEVICES THAT REMAIN. CONTRACTOR SHALL EXTEND, REMOVE OR RELOCATE ALL ELECTRICAL DEVICES AS NOTED AND REQUIRED TO MEET THE DESIGN INTENT.
8. PROVIDE TEMPORARY EMERGENCY LIGHTING, EXIT LIGHTING, AND FIRE ALARM DEVICES IN AREA OF WORK AND CONSTRUCTION HOARDING IN ACCORDANCE WITH NORTHERN HEALTH INFECTION CONTROL REQUIREMENTS FOR DURATION OF CONSTRUCTION PERIOD. COORDINATE WITH OWNERS FORCES AND ARCHITECT.



1 / E200 **LEVEL 1 - DEMOLITION POWER AND COMMUNICATIONS PLAN - EAST SIDE**

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

PROJECT NORTH

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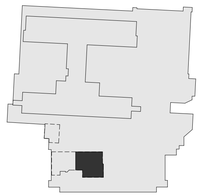

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PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — CHRIS CLOUSE

2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

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the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - POWER & COMMUNICATIONS DEMO - EAST SIDE

Project No. 144320012

Scale As indicated

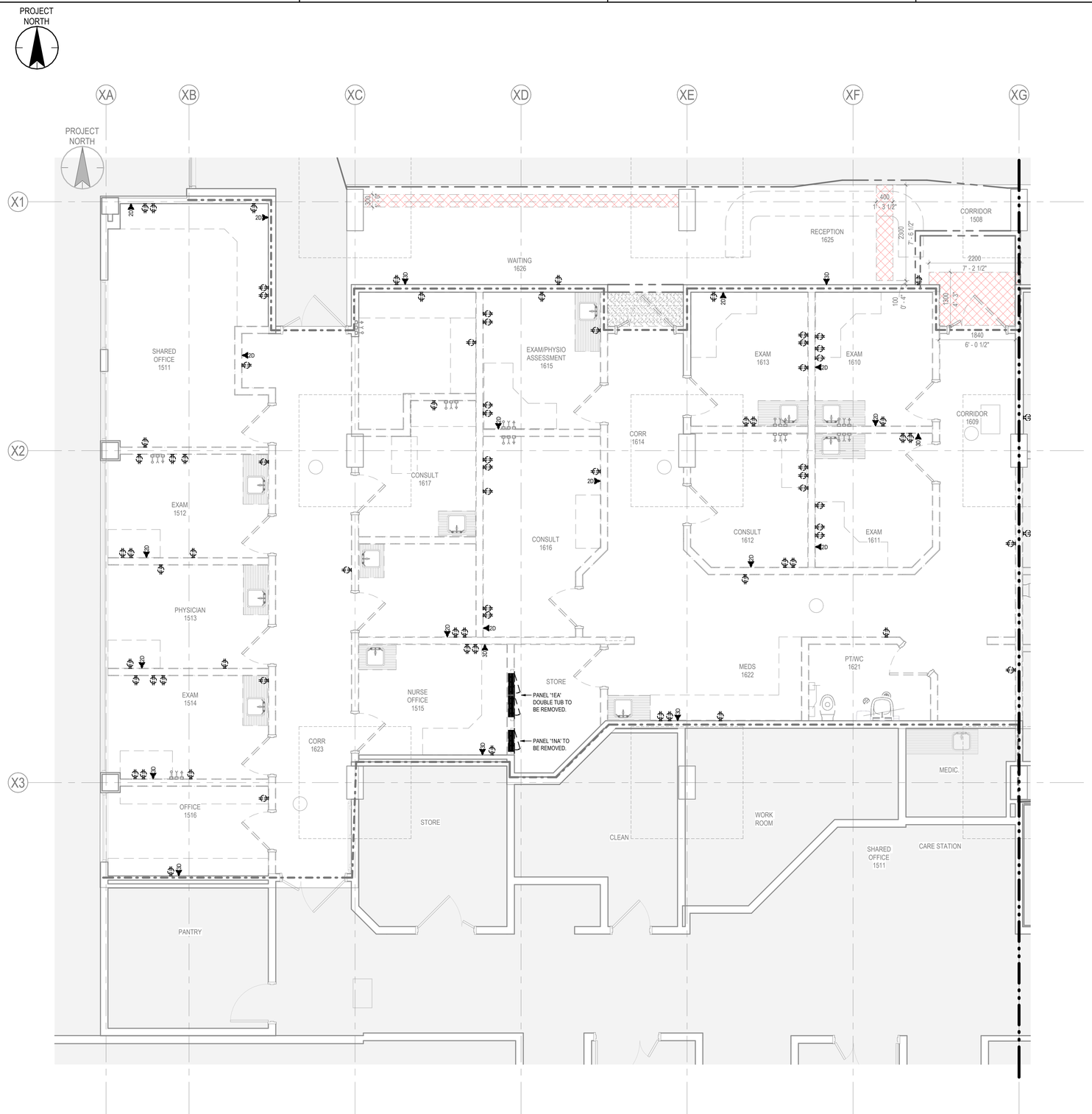
Revision 2

Drawing No. **E200**

<PLot location in Project Information>
By: cloyd2 12/20/21 1:14
ORIGINAL SHEET - ARCH D

GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E200.



1 / E201 **LEVEL 1 - DEMOLITION POWER AND COMMUNICATIONS PLAN - WEST SIDE**

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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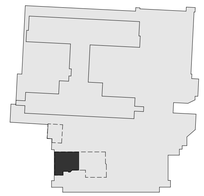

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2025-01-27
Stantec Permit#: 1002862

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Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

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Title
LEVEL 1 - POWER & COMMUNICATIONS DEMO - WEST SIDE

Project No. 144320012

Scale As indicated

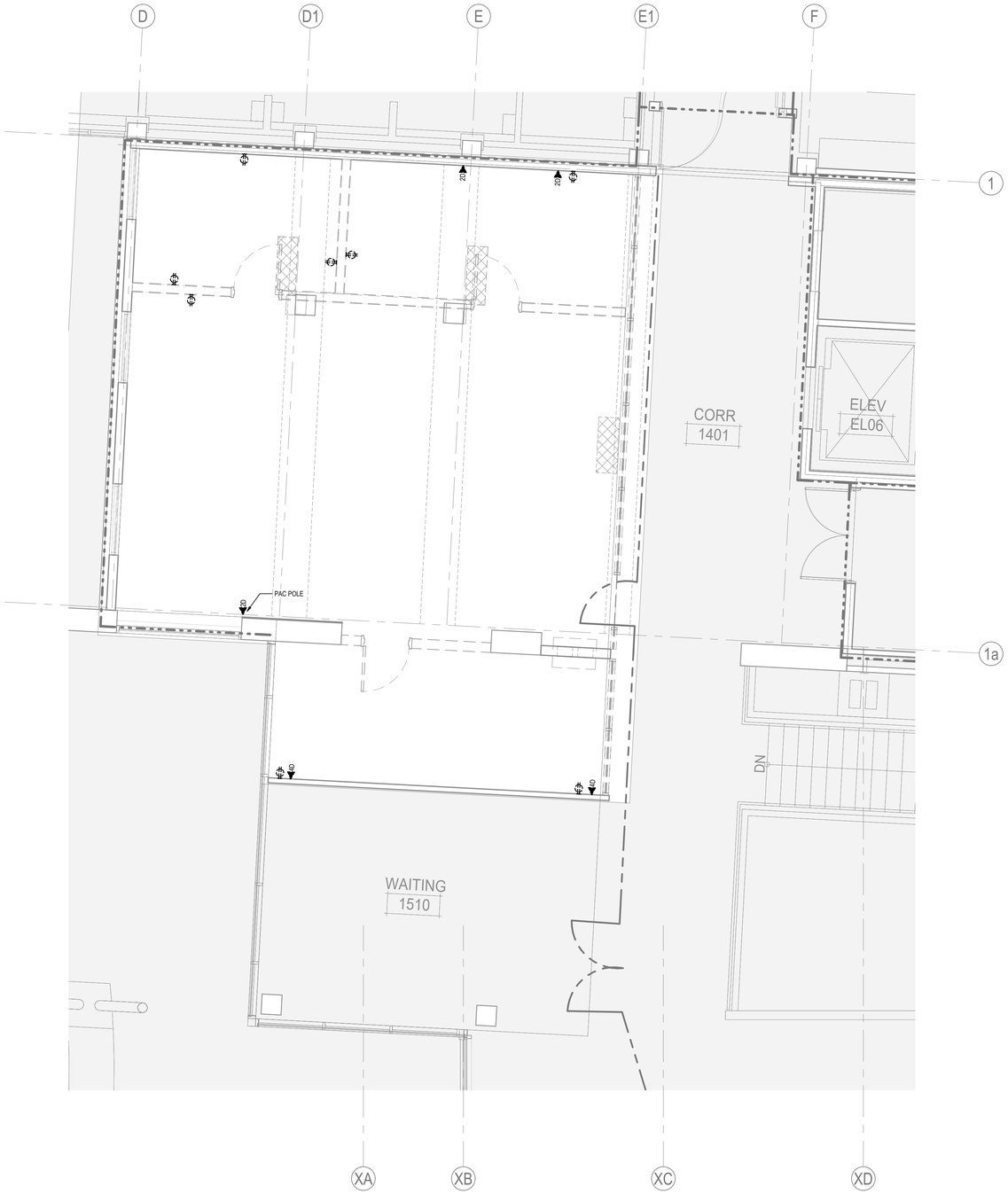
Revision 2

Drawing No. **E201**

<PLK location in Project Information>
28 Jan 25 12:35:34 PM

ORIGINAL SHEET - ARCH D

PROJECT NORTH



GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E200.

1 / E202 LEVEL 1 - DEMOLITION POWER AND COMMUNICATIONS PLAN - NORTH SIDE

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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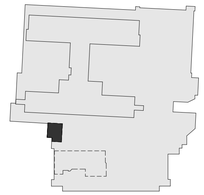

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Issued/Revision

	By	Appd	YYYY.MM.DD

File Name: N/A

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LEE KAUSIK
BRITISH COLUMBIA
LICENSED PROFESSIONAL ENGINEER

2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

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the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - POWER & COMMUNICATIONS DEMO - NORTH SIDE

Project No.
144320012

Scale
As indicated

Revision
2

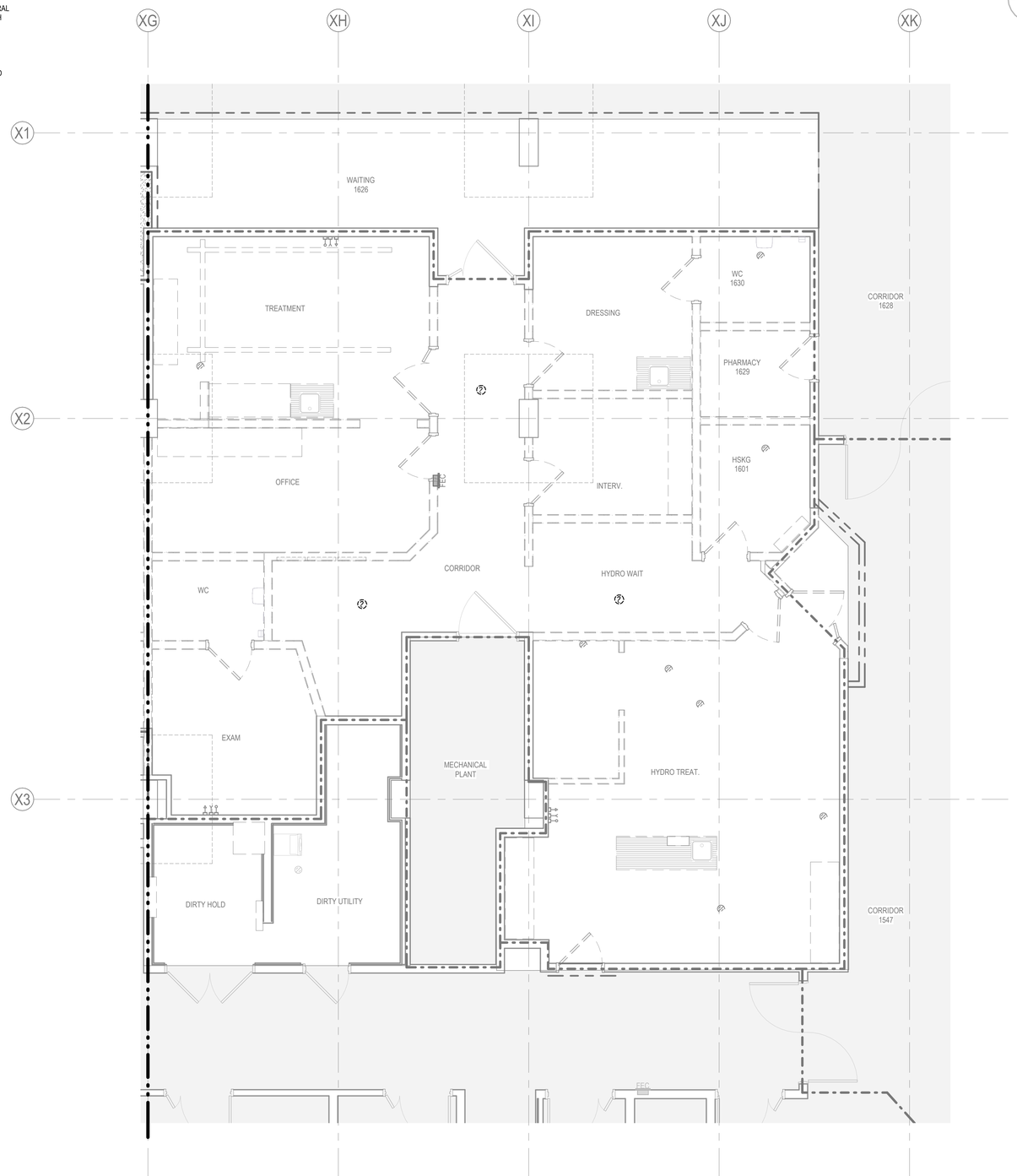
Drawing No.
E202

<Pick location in Project Information>
File Name: E202-03308.rvt
ORIGINAL SHEET - ARCH D

PROJECT NORTH

GENERAL NOTES

1. REFER TO GENERAL NOTES ON DRAWING E001.
2. NOT ALL EXISTING DEVICES THAT REQUIRE TO BE RELOCATED, REMOVED OR REPLACED MAY BE SHOWN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH FMO, CONSULTANT AND GENERAL CONTRACTOR TO CONFIRM ALL DEVICES FOR REMOVAL, RELOCATION OR REPLACE EXISTING WITH NEW.
3. DESIGN INTENT IS THAT ALL FIRE ALARM AND NURSE CALL DEVICES IN THE SPACE ARE TO BE REMOVED AND NEW DEVICES TO BE INSTALLED.
4. PROVIDE DUST COVERS TO PROTECT EXISTING SMOKE DETECTORS DURING HOURS OF WORK AND REMOVE AFTER HOURS FOR DURATION OF CONSTRUCTION.



1 / E210 **LEVEL 1 - DEMOLITION FIRE ALARM, ACCESS CONTROL AND NURSE CALL SYSTEM PLAN - EAST SIDE**

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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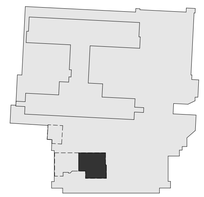
Notes



2	ISSUED FOR TENDER	CC	TF	2025.01.27
1	ISSUED FOR 100% & QS	CC	CC	2024.11.26

Issued/Revision

By	Appd	YYYY.MM.DD

File Name: N/A

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM DEMO - EAST SIDE

Project No. 144320012

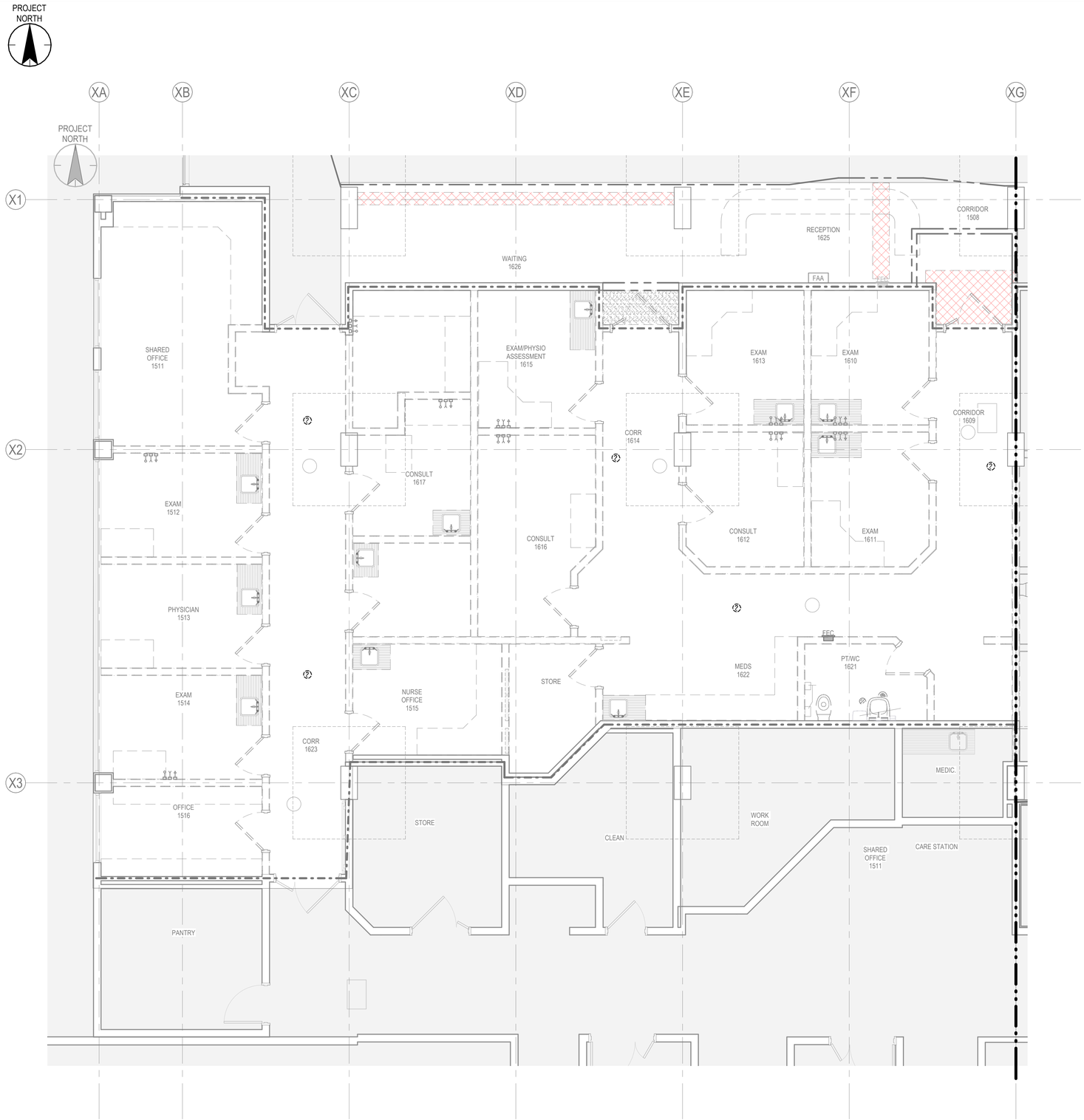
Scale As indicated

Revision 2

Drawing No. **E210**

<PCL location in Project Information>
28 Jan 25 5:23:07 PM

ORIGINAL SHEET - ARCH D



1 E211 **LEVEL 1 - DEMOLITION FIRE ALARM, ACCESS CONTROL AND NURSE CALL SYSTEM PLAN - WEST SIDE**

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

GENERAL NOTES

1. REFER TO GENERAL NOTES ON DRAWING E001 & E210.

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File Name: N/A

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2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

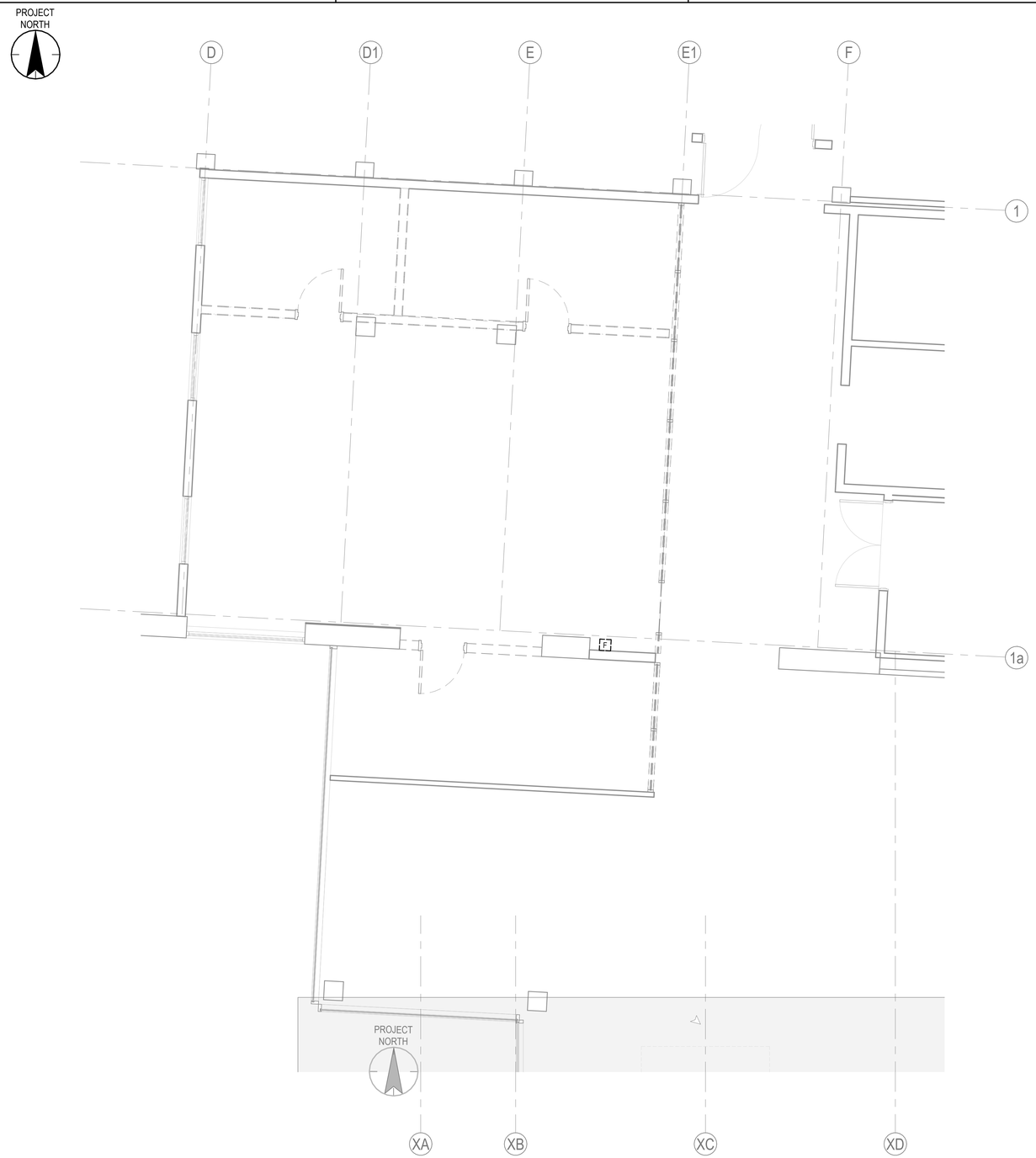
UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM DEMO - WEST SIDE

Project No. 144320012
Scale As indicated
Revision 2
Drawing No. **E211**

ORIGINAL SHEET - ARCH D



GENERAL NOTES

1. REFER TO GENERAL NOTES ON DRAWING E001 & E210.

1 E212 **LEVEL 1 - DEMOLITION FIRE ALARM, ACCESS CONTROL AND NURSE CALL SYSTEM PLAN - NORTH SIDE**

1 : 50

0 0.5m 1m 2.5m 5m

Scale 1: 50

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2	ISSUED FOR TENDER	CC	TF	2025.01.27
1	ISSUED FOR 100% & QS	CC	CC	2024.11.26

File Name: N/A

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			09/25/23

Permit/Seal

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
LAURIE WATTS
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM DEMO - NORTH SIDE

Project No.
144320012

Scale
As indicated

Revision
2

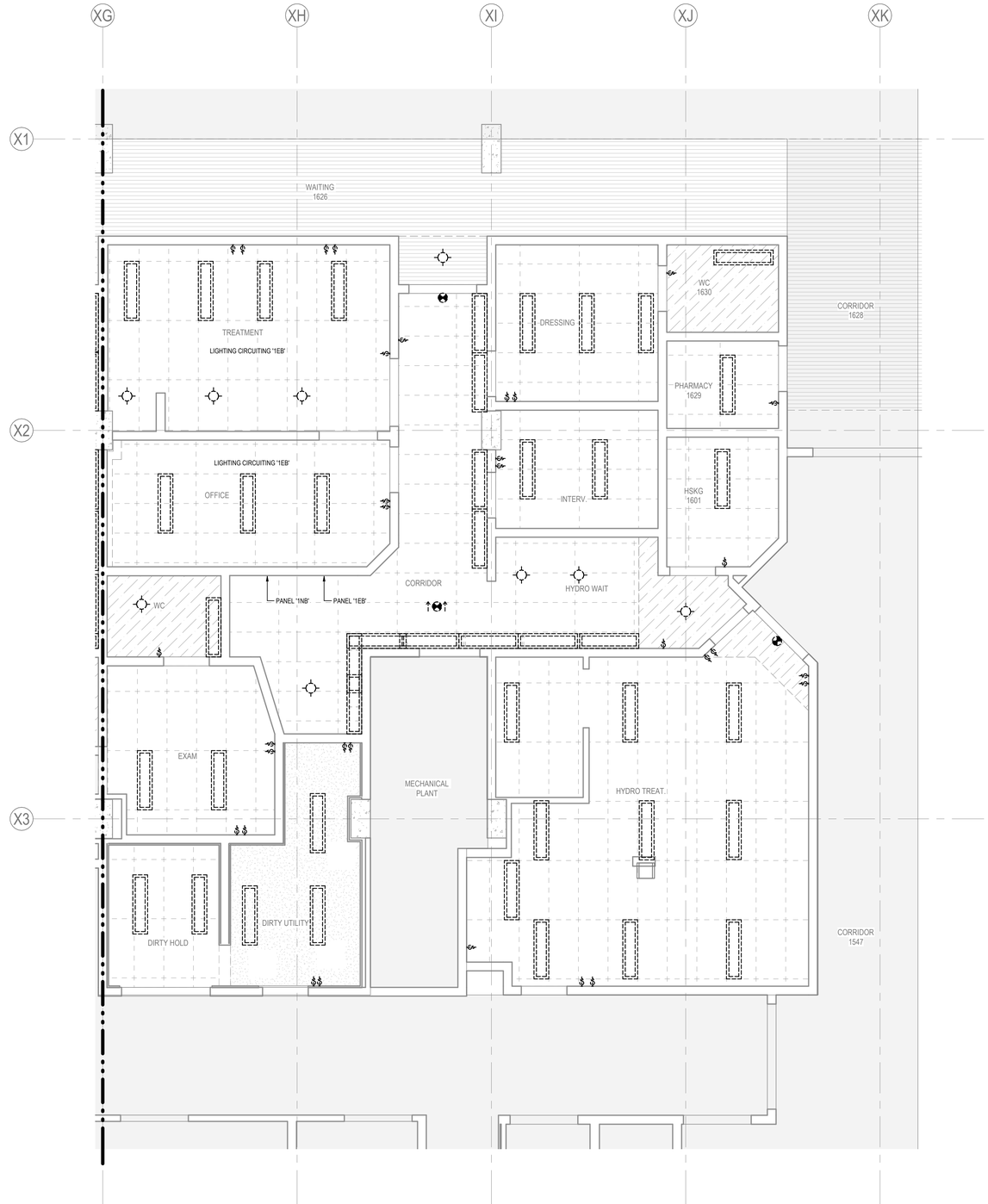
Drawing No.
E212

ORIGINAL SHEET - ARCH D

PROJECT NORTH

GENERAL NOTES

1. REFER TO GENERAL NOTES ON DRAWING E001.
2. REMOVE LUMINAIRES, SWITCHES, BOXES, CONDUIT, BOXES AND WIRING BACK TO SOURCE.
3. FOR ANY CONDUIT, BOXES, ETC THAT ARE SERVING EXISTING AREAS/LIGHTING TO REMAIN, THESE ARE TO BE PROTECTED/RETAINED. COORDINATE WITH SITE STAFF.



1 / E220 **LEVEL 1 - DEMOLITION LIGHTING PLAN - EAST SIDE**

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

ORIGINAL SHEET - ARCH D

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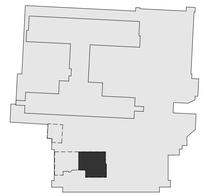

2	ISSUED FOR TENDER	CC	TF	2025.01.27
1	ISSUED FOR 100% & QS	CC	CC	2024.11.26

Issued/Revision — By — Appd — YYYY.MM.DD

File Name: N/A

Dwn. — Dsgn. — Chkd. — YYYY.MM.DD

Permit/Seal

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — DARYL WALTER
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - LIGHTING DEMO - EAST SIDE

Project No. 144320012
Scale As indicated
Revision 2
Drawing No. E220

<PDL location is Project Information>
<Date> 12/20/24 1:14

PROJECT NORTH

GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E220.

1 / E221 LEVEL 1 - DEMOLITION LIGHTING PLAN - WEST SIDE

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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2 ISSUED FOR TENDER	CC	TF	2025.01.27
1 ISSUED FOR 100% & QS	CC	CC	2024.11.26

File Name: N/A

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PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - LIGHTING DEMO - WEST SIDE

Project No. 144320012

Scale As indicated

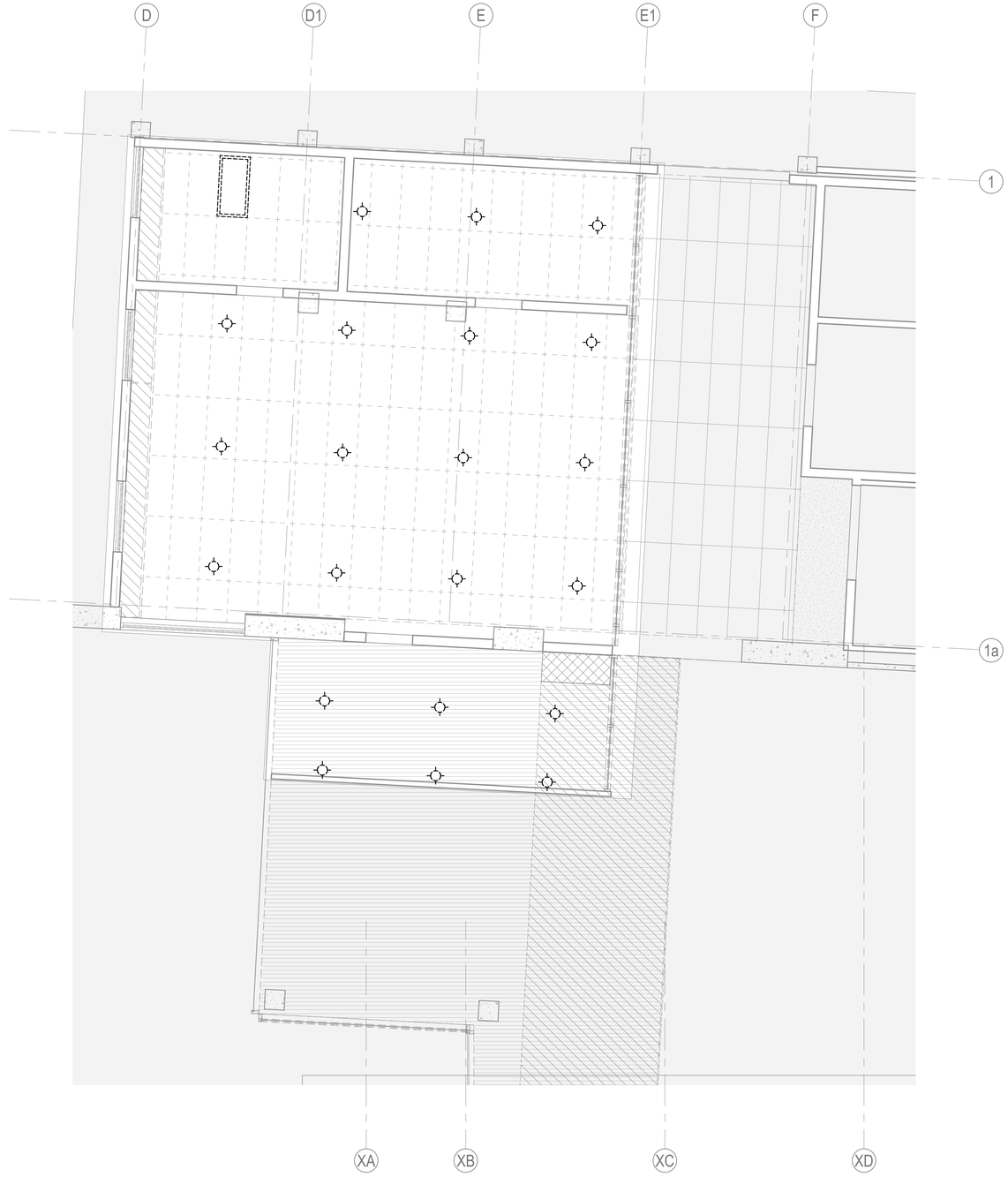
Revision 2

Drawing No. E221

Pick location in Project Information
05-Jan-25 12:53:42 PM

ORIGINAL SHEET - ARCH D

PROJECT NORTH



GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E220.

1 / E222 LEVEL 1 - DEMOLITION LIGHTING PLAN - NORTH SIDE

1 : 50

0 0.5m 1m 2.5m 5m

Scale 1: 50

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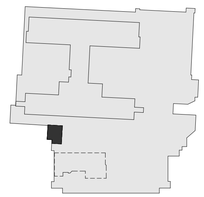

Issued/Revision	By	Appd	YYYY.MM.DD
2 ISSUED FOR TENDER	CC	TF	2025.01.27
1 ISSUED FOR 100% & QS	CC	CC	2024.11.26

File Name: N/A

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

PROFESSIONAL ENGINEER — BRITISH COLUMBIA — MICHAEL LOUISE CARTER

2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - LIGHTING DEMO - NORTH SIDE

Project No.
144320012

Scale
As indicated

Revision
2

Drawing No.
E222

<PICK location in Project Information>
<% date TZ:America/Vancouver>

ORIGINAL SHEET - ARCH D

PROJECT NORTH

GENERAL NOTES

1. REFER TO GENERAL NOTES ON DRAWING E001.
2. PROVIDE ELECTRICAL JUNCTION BOX FOR PLUMBING FIXTURE WHERE CIRCUITING IS INDICATED. COORDINATE ELECTRICAL REQUIREMENTS & BOX LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK. STANTEC RECOMMENDS MECHANICAL CONTRACTOR PROVIDE LOW VOLTAGE TRANSFORMERS AS NEEDED FOR PLUMBING FIXTURES.
3. PROVIDE HEAT TRACE ON HOT WATER PIPES. PIPING SHOWN ON MECHANICAL DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR.
4. FOR NEW DATA CABLING, ORIGIN POINT TO BE DATA CLOSET '1CC1' IN ROOM NUMBER 1597. COORDINATE WITH OWNER ON SITE FOR EXACT REQUIREMENTS.
5. PROVIDE ROOM REFERENCE BOND BOX FOR ALL PAITENT CARE ENVIRONMENTS.
6. FEEDER CONDUCTORS TO EXISTING PANELS MAY NOT HAVE LENGTH REQUIRED FOR NEW PANEL LOCATIONS. PRESUME THAT FEEDERS WILL NEED TO BE REPLACED AND CREDIT OWNER LATER IN PROJECT IF EXISTING FEEDERS ARE USABLE. REFER TO SPECIFICATIONS APPENDIX DRAWINGS.

1 E300 **LEVEL 1 - NEW POWER AND COMMUNICATIONS PLAN - EAST SIDE**

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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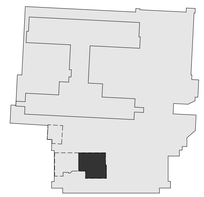

Revision	Issued/Revision	By	Appd	YYYY.MM.DD
2	ISSUED FOR TENDER	CC	TF	2025.01.27
1	ISSUED FOR 100% & QS	CC	CC	2024.11.26

File Name: N/A

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

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PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — LOUISE TAYLOR — 2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health — the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - POWER & COMMUNICATIONS NEW - EAST SIDE

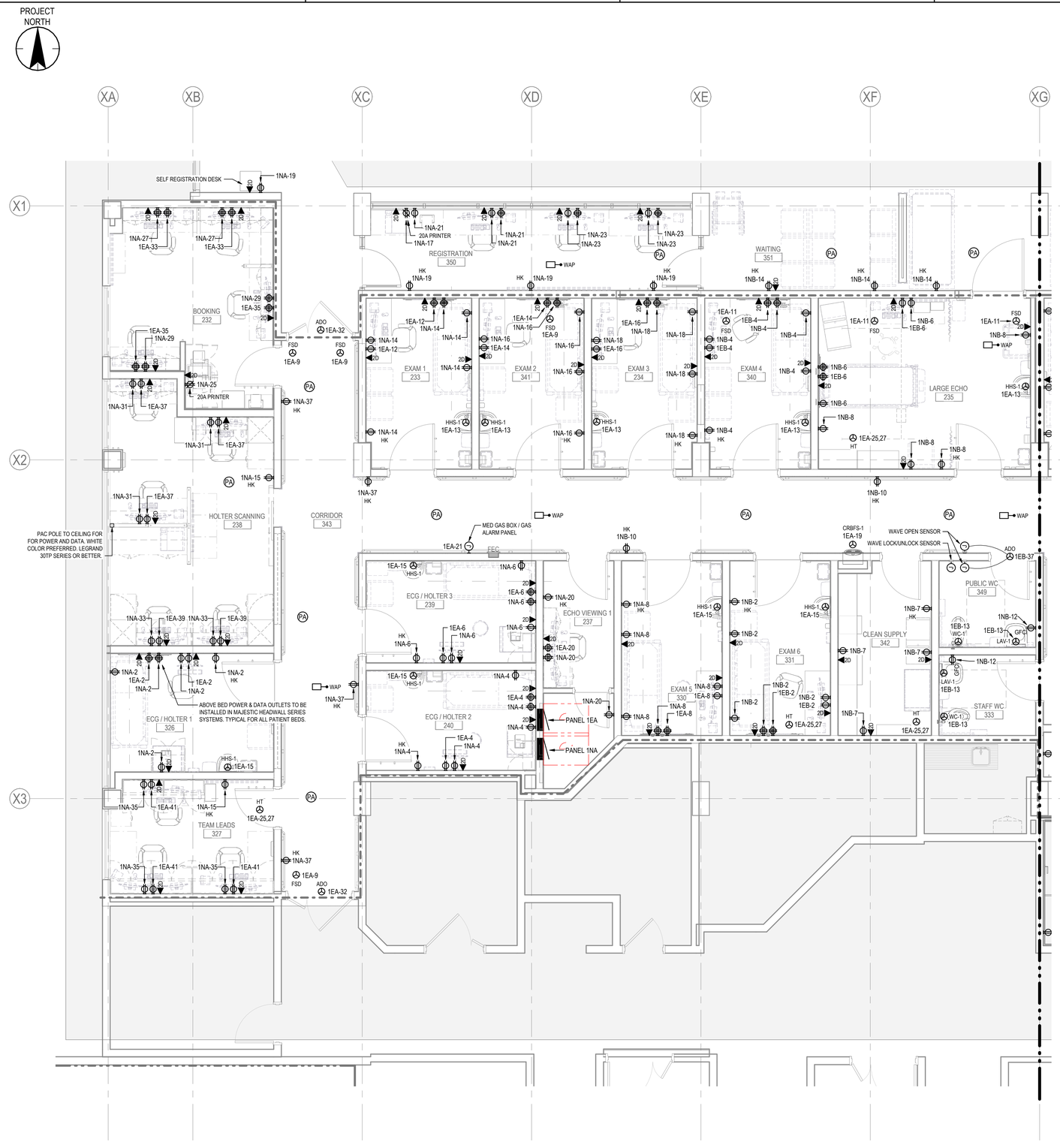
Project No.	Scale
144320012	As indicated

Revision	Drawing No.
2	E300

<Pick location in Project Information>
<Version 2 12SA04 Nb>
ORIGINAL SHEET - ARCH D

GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E300.



1 / E301 LEVEL 1 - NEW POWER AND COMMUNICATIONS PLAN - WEST SIDE

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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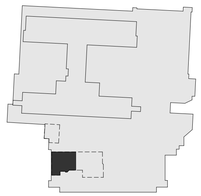

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1	ISSUED FOR 100% & QS	CC	CC	2024.11.26
Issued/Revision		By	Appd	YYYY.MM.DD

File Name: N/A

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Permit/Seal

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - POWER & COMMUNICATIONS NEW - WEST SIDE

Project No. 144320012

Scale As indicated

Revision 2

Drawing No. E301

<PICK location in Project Information>
Fri, Jan 03 12:33:56 PM

ORIGINAL SHEET - ARCH D

PROJECT NORTH

GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E300.

1 / E302 LEVEL 1 - NEW POWER AND COMMUNICATIONS PLAN - NORTH SIDE

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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1	ISSUED FOR 100% & QS	CC	CC	2024.11.26

Issued/Revision

File Name: N/A

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PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — CHRISTOPHER CLOUSE — 31172

2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - POWER & COMMUNICATIONS NEW - NORTH SIDE

Project No.
144320012

Scale
As indicated

Revision
2

Drawing No.
E302

<Pick location in Project Information>
<Pick prefix>_E302_E300_NN1
ORIGINAL SHEET - ARCH D

PROJECT NORTH

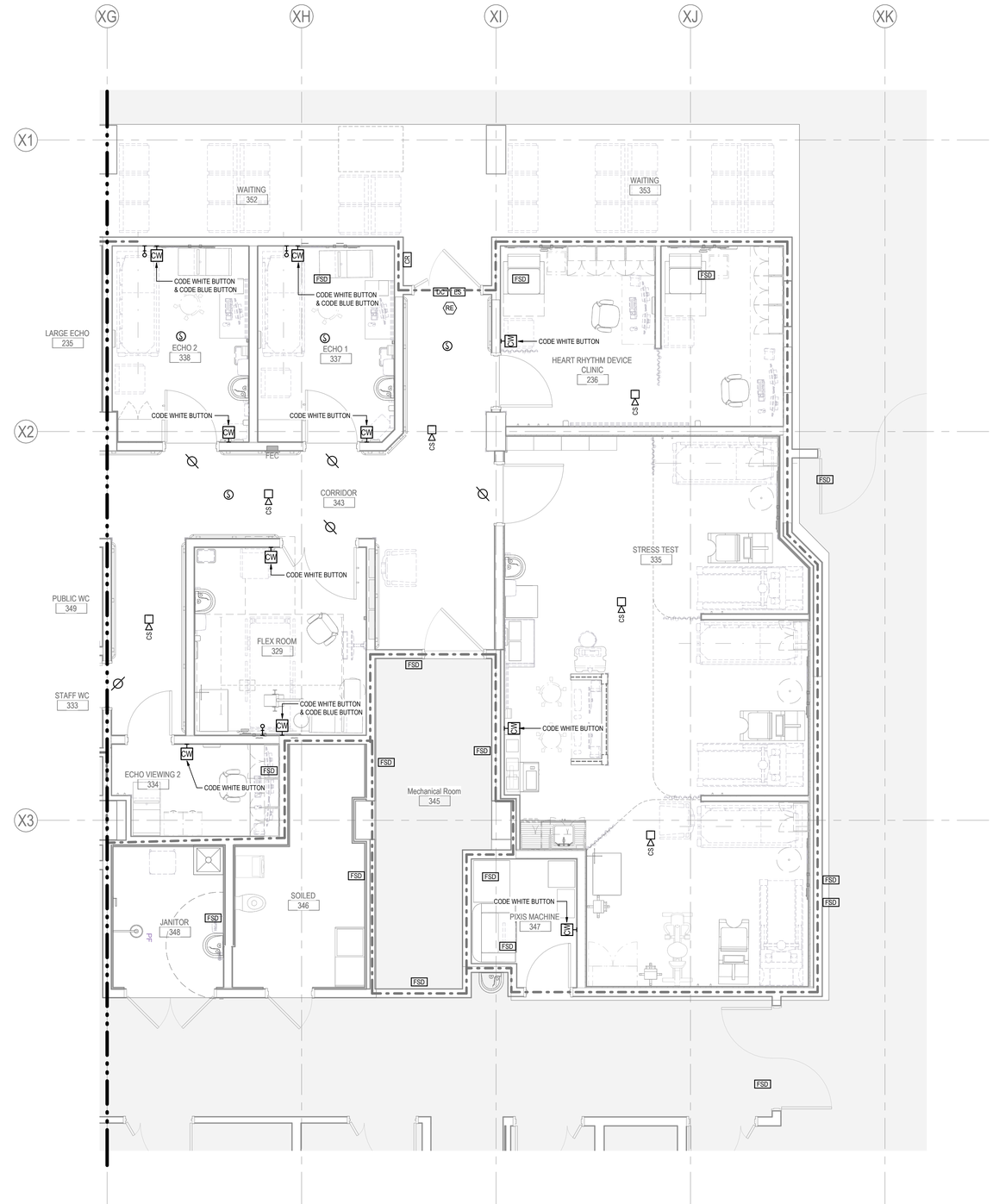
GENERAL NOTES

1. REFER TO GENERAL NOTES ON DRAWING E001.
2. PROVIDE SMOKE DETECTORS FOR FIRE/SMOKE DAMPERS PER CAN ULC S524. REFER TO MECHANICAL DRAWINGS M101, M102, M103 FOR FIRE/SMOKE DAMPER LOCATIONS. CONNECT DAMPERS TO FIRE ALARM SYSTEM PER ELECTRICAL SPECIFICATIONS.

   BCBC 2024 3.1.8.11 3) INDICATES SMOKE DETECTOR PLACEMENT AT FIRE SEPARATIONS.
3. REFER TO MECHANICAL SPECIFICATIONS FOR FIRE/SMOKE DAMPER PRODUCT INFORMATION.
4. FIRE/SMOKE DAMPER CIRCUITING IS SHOWN ON DRAWINGS E300, E301, E302. THIS DRAWING SHOWS DAMPER LOCATION ONLY.
5. PROVIDE ONE (1) DUCT SMOKE DETECTOR FOR EACH EXISTING AIR HANDLING UNITS (TWO AHU'S). FINAL QUANTITY, LOCATION AND ELECTRICAL REQUIREMENTS FOR DUCT SMOKE DETECTORS ARE TO BE CONFIRMED AND COORDINATED WITH THE MECHANICAL CONTRACTOR ON SITE PRIOR TO COMMENCING THE WORK.
6. ADD NEW FIRE ALARM DEVICES ON EXISTING CIRCUIT WITHIN THE AREA. PROVIDE FIRE ALARM VERIFICATION.
7. NURSE CALL SYSTEM TO MATCH RAULAND 5000 SERIES, COORDINATE WITH THE SUPPLIER," LOGICAL SOLUTIONS", FOR ALL SYSTEM DEVICES REQUIRED TO CONNECT TO NURSE CALL HEADEND IN MEDICAL IMAGING DEPARTMENT.

   NETWORK CABLING SHALL BE IN CORRIDOR CABLE TRAY OR NEW CONDUIT. CONTRACTOR TO CONFIRM ON SITE FOR EXISTING CABLE TRAY AVAILIBILITY. PROVIDE 15A 120V ESSENTIAL POWER SUPPLY AS REQUIRED. SYSTEM TO MATCH EXISTING HOSPITAL NURSE CALL FUNCTIONS. SYSTEM TO INCLUDE STAFF EMERGENCY STATIONS, PATIENT STATIONS, DOME LIGHTS, WASHROOM ROOM PULL CORD STATIONS, AND MASTER STATION CONSOLE.

   PROVIDE SHOP DRAWING FOR APPROVAL.
8. ACCESS CONTROL DEVICES TO BE WIRED TO EXISTING KANTECH SYSTEM. ORIGIN POINT TO BE DATA CLOSET "1CC1" IN ROOM NUMBER 1597 UNLESS OWNER INDICATES OTHERWISE. COORDINATE WITH OWNER ON SITE FOR EXACT REQUIREMENTS. COORDINATE WITH DOOR HARDWARE SUPPLIER FOR ADDITIONAL REQUIREMENTS.



1 E310 **LEVEL 1 - NEW FIRE ALARM, ACCESS CONTROL AND NURSE CALL SYSTEM PLAN - EAST SIDE**

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

<PCIx location is Project Information>
<Date> 12/20/24 7:14

ORIGINAL SHEET - ARCH D

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1 ISSUED FOR 100% & QS	CC	CC	2024.11.26

File Name: N/A

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Permit/Seal

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — CHRISTOPHER COURSE — 36017

2025-01-27
Stantec Permit#: 10028862

Client/Project Logo

northern health
the northern way of caring

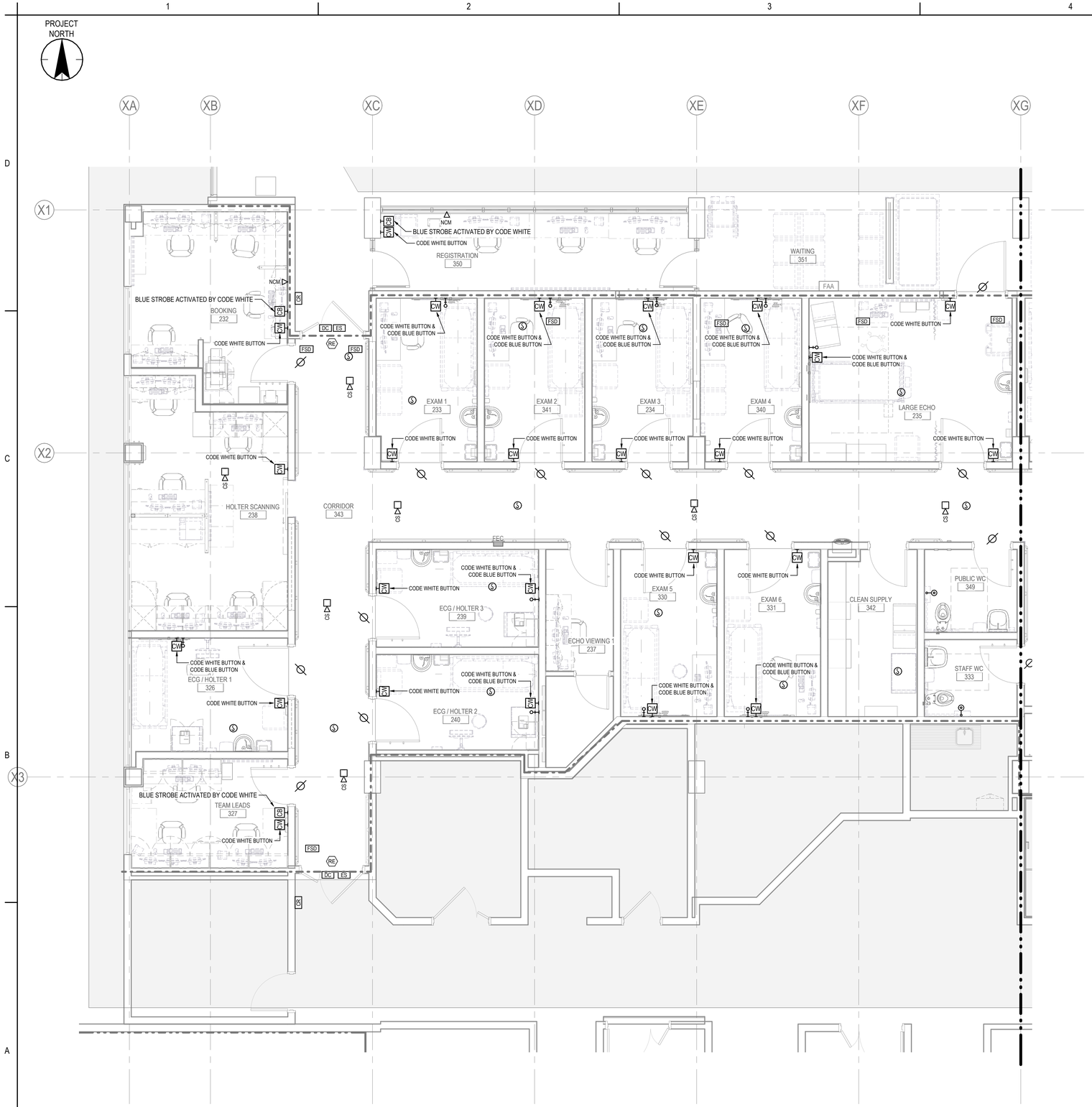
Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM NEW - EAST SIDE

Project No. 144320012
Scale As indicated
Revision 2
Drawing No. **E310**



1 LEVEL 1 - NEW FIRE ALARM, ACCESS CONTROL AND NURSE CALL SYSTEM PLAN - WEST SIDE

E311 1 : 50

GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E310.

KEYNOTES

1. ADD NEW FIRE ALARM DEVICES ON EXISTING CIRCUIT WITHIN THE AREA. PROVIDE FIRE ALARM VERIFICATION.
2. NURSE CALL SYSTEM TO MATCH RAULAND 5000 SERIES, COORDINATE WITH THE SUPPLIER, LOGICAL SOLUTIONS, FOR ALL SYSTEM DEVICES REQUIRED TO CONNECT TO NURSE CALL HEADEND IN MEDICAL IMAGING DEPARTMENT. NETWORK CABLING SHALL BE IN CORRIDOR CABLE TRAY OR NEW CONDUIT. CONTRACTOR TO CONFIRM ON SITE FOR EXISTING CABLE TRAY PASS. PROVIDE 15A 120V ESSENTIAL POWER SUPPLY AS REQUIRED. SYSTEM TO MATCH EXISTING HOSPITAL NURSE CALL FUNCTIONS. SYSTEM TO INCLUDE STAFF EMERGENCY STATIONS, PATIENT STATIONS, DOME LIGHTS, WASHROOM/SHOWER ROOM PULL CORD STATIONS, AND MASTER STATION CONSOLE. PROVIDE SHOP DRAWING FOR APPROVAL.
3. ACCESS CONTROL DEVICES TO BE WIRED TO EXISTING KANTECH SYSTEM IN CLOSEST DATA CLOSET. LOCATE CLOSET ON SITE. COORDINATE WITH DOOR HARDWARE SUPPLIER FOR REQUIREMENT.

0 0.5m 1m 2.5m 5m
Scale 1: 50

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	Issued/Revision	By	Appd	YYYY.MM.DD

File Name: N/A

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

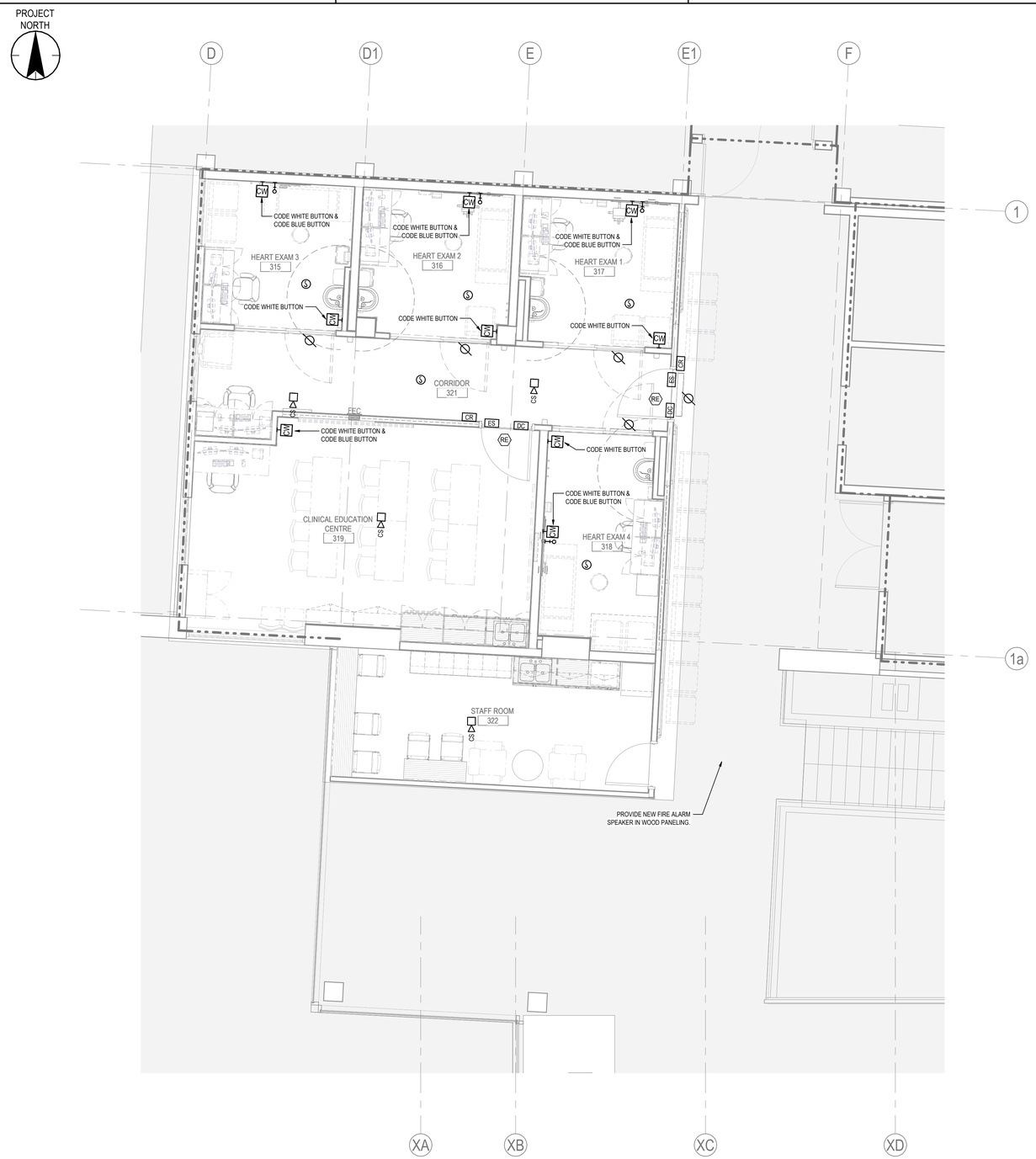
UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM NEW - WEST SIDE

Project No. 144320012
Scale As indicated
Revision 2
Drawing No. E311

ORIGINAL SHEET - ARCH D



1 / E312 LEVEL 1 - NEW FIRE ALARM, ACCESS CONTROL AND NURSE CALL SYSTEM PLAN - NORTH SIDE

1 : 50

GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E310.

KEYNOTES

1. ADD NEW FIRE ALARM DEVICES ON EXISTING CIRCUIT WITHIN THE AREA. PROVIDE FIRE ALARM VERIFICATION.
2. NURSE CALL SYSTEM TO MATCH RAULAND 5000 SERIES, COORDINATE WITH THE SUPPLIER, LOGICAL SOLUTIONS, FOR ALL SYSTEM DEVICES REQUIRED TO CONNECT TO NURSE CALL HEADEND IN MEDICAL IMAGING DEPARTMENT. NETWORK CABLING SHALL BE IN CORRIDOR CABLE TRAY OR NEW CONDUIT. CONTRACTOR TO CONFIRM ON SITE FOR EXISTING CABLE TRAY PASS. PROVIDE 15A 120V ESSENTIAL POWER SUPPLY AS REQUIRED. SYSTEM TO MATCH EXISTING HOSPITAL NURSE CALL FUNCTIONS. SYSTEM TO INCLUDE STAFF EMERGENCY STATIONS, PATIENT STATIONS, DOME LIGHTS, WASHROOM/SHOWER ROOM PULL CORD STATIONS, AND MASTER STATION CONSOLE. PROVIDE SHOP DRAWING FOR APPROVAL.
3. ACCESS CONTROL DEVICES TO BE WIRED TO EXISTING KANTECH SYSTEM IN CLOSEST DATA CLOSET. LOCATE CLOSET ON SITE. COORDINATE WITH DOOR HARDWARE SUPPLIER FOR REQUIREMENT.

0 0.5m 1m 2.5m 5m
Scale 1: 50

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1	ISSUED FOR 100% & QS	CC	CC	2024.11.26
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File Name: N/A

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PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — KEITH LOUSSE

2025-01-27
Stantec Permit#: 1002862

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northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - FIRE ALARM, ACCESS CONTROL & NURSE CALL SYSTEM NEW - NORTH SIDE

Project No.
144320012

Scale
As indicated

Revision
2

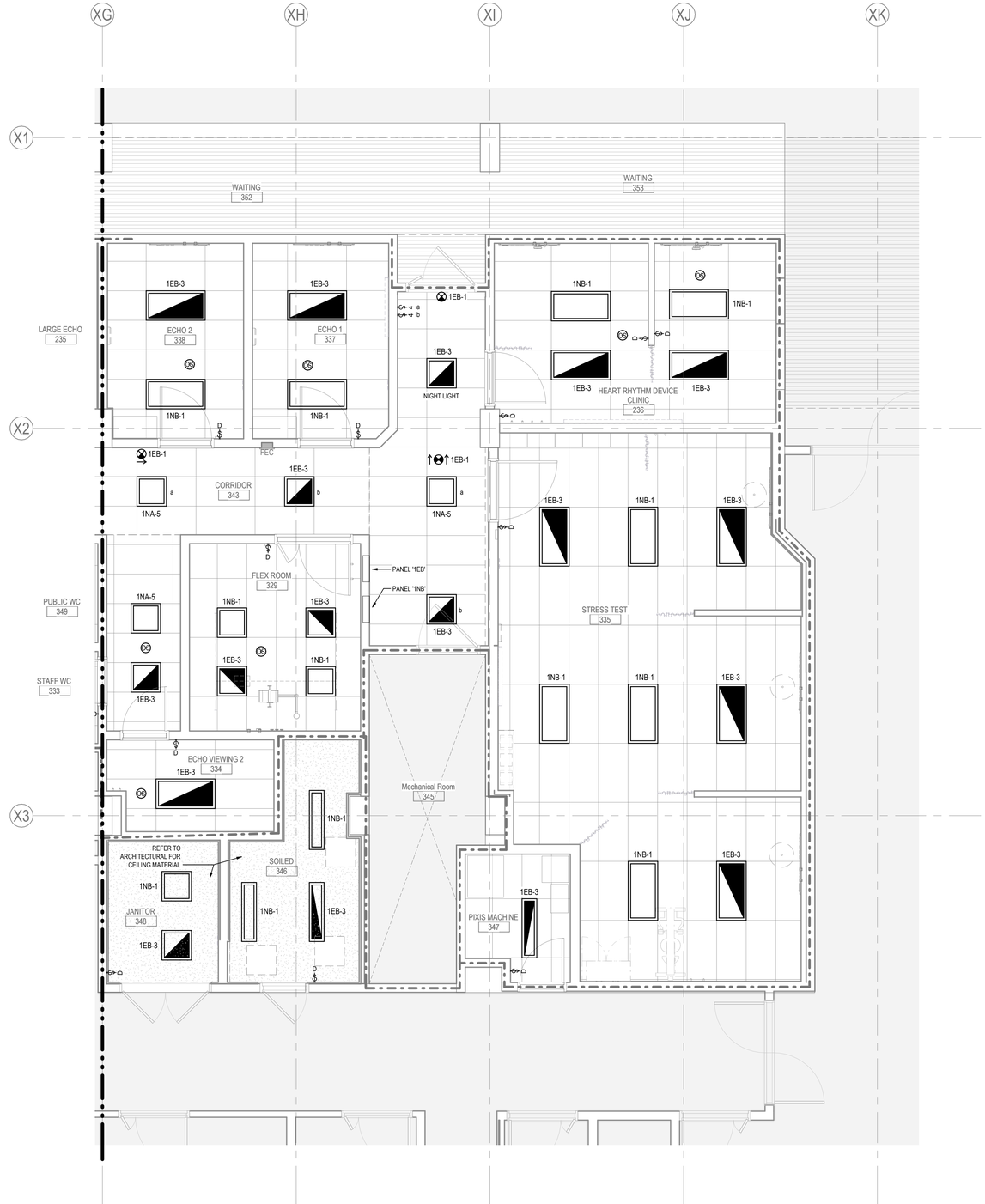
Drawing No.
E312

ORIGINAL SHEET - ARCH D

PROJECT NORTH

GENERAL NOTES

1. REFER TO GENERAL NOTES ON DRAWING E001.
2. PER CSA Z32, ALL PATIENT BEDS MSUT HAVE 750 LUX DELIVERED AT BED SURFACE.



1 / E320 **LEVEL 1 - NEW LIGHTING PLAN - EAST SIDE**

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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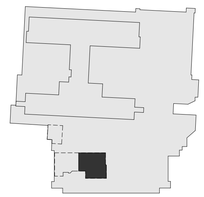

2	ISSUED FOR TENDER	CC	TF	2025.01.27
1	ISSUED FOR 100% & QS	CC	CC	2024.11.26

Issued/Revision — By — Appd — YYYY.MM.DD

File Name: N/A

Dwn. — Dsgn. — Chkd. — YYYY.MM.DD

Permit/Seal

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — LOUISE CATTLE

2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - LIGHTING NEW - EAST SIDE

Project No. 144320012
Scale As indicated
Revision 2
Drawing No. **E320**

Pick location in Project Information
Revision 0 - 2/3/2015 1:14
ORIGINAL SHEET - ARCH D

PROJECT NORTH

1 LEVEL 1 - NEW LIGHTING PLAN - WEST SIDE

E321 1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E320.

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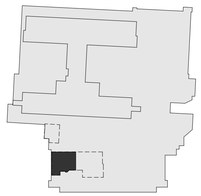

Issued/Revision		By	Appd	YYYY.MM.DD
2	ISSUED FOR TENDER	CC	TF	2025.01.27
1	ISSUED FOR 100% & QS	CC	CC	2024.11.26

File Name: N/A

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Permit/Seal

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
MICHAEL LOUISE CATTIN
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - LIGHTING NEW - WEST SIDE

Project No. 144320012

Scale As indicated

Revision 2

Drawing No. E321

<PCL location in Project Information>
<Date> 12:25:54 PM

ORIGINAL SHEET - ARCH D

PROJECT NORTH

GENERAL NOTES

1. REFER TO NOTES ON DRAWING E001 AND E320.
2. EXIT SIGN SHOWN CAN BE CIRCUITED TO A CLOSER EXIT SIGN CIRCUIT IF A CIRCUIT IS AVAILABLE.

1 / E322 LEVEL 1 - NEW LIGHTING PLAN - NORTH SIDE

1 : 50

0 0.5m 1m 2.5m 5m
Scale 1: 50

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File Name: N/A

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Permit/Seal

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA
2025-01-27
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Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
LEVEL 1 - LIGHTING NEW - NORTH SIDE

Project No.	Scale
144320012	As indicated
Revision 2	Drawing No. E322

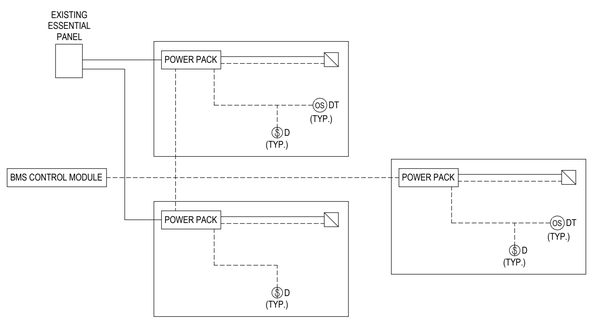
ORIGINAL SHEET - ARCH D

LUMINAIRE SCHEDULE

TYPE	IMAGE	SIZE	DESCRIPTION	MOUNTING	WATTAGE	LUMEN OUTPUT	CRI	COLOR TEMP	VOLTAGE	MANUFACTURER	CATALOGUE #	REMARKS
A		4"	T-BAR OR OTHER CEILING TYPE.	RECESSED	16	1500	90	3500K	120	SIGNIFY	CALCULITE LED 4" SERIES 4RN/C4L15935MZ10U/C4RDLWH OR APPROVED EQUAL	REFER TO ARCH DRAWINGS FOR CEILING TYPES.
B		2'x2'	T-BAR CEILING TYPE.	RECESSED	33	3500	90	3500K	120	SIGNIFY	LEDALITE SILKSPACE 4214D1STL93545A1DE OR APPROVED EQUAL	
		2'x4'	T-BAR CEILING TYPE.	RECESSED	38	4500	90	3500K	120	SIGNIFY	LEDALITE SILKSPACE 4224D1STL93545A1DE OR APPROVED EQUAL	
D		1'x4'	T-BAR OR DRYWALL CEILING TYPE.	RECESSED	33	3500	90	3500K	120	SIGNIFY	LEDALITE SILKSPACE 4222D1STL93545A1DE OR APPROVED EQUAL	REFER TO ARCH DRAWINGS FOR CEILING TYPES. COORDINATE WITH LIGHTING SUPPLIER FOR DRYWALL MOUNTING ACCESSORIES OR EQUIVALENT.
E			T-BAR CEILING TYPE.	LINEAR PENDANT			90	3500K	120	SIGNIFY	PHILIPS TRUE LINE SP530P OR APPROVED EQUAL	REFER TO ARCH DRAWINGS FOR CEILING HEIGHT. COORDINATE WITH OWNER FOR MOUNTING HEIGHT.
X1			GREEN RUNNING MAN	SURFACE WALL OR CEILING	2				120	EMERGILITE	TO MATCH GREEN RUNNING MAN EXIT SIGNS IN BUILDING. EMERGILITE ES SERIES OR APPROVED EQUAL.	PROVIDE DIRECTIONAL ARROWS AND FACES AS INDICATED ON THE PLANS.

MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT TAG	QUANTITY	UNIT DESCRIPTION	UNIT LOCATION	MOTOR DATA						POWER						NOTES
				HP	FLA	kW	MCA	VOLTAGE	PHASE	BREAKER (A)	POLES	NO. OF WIRES	WIRE SIZE	CONDUIT SIZE (mm)		
HVAC																
FSD	1	FIRE SMOKE COMBINATION DAMPER	REFER TO MECH DWG M101, M102, M103					120	1	15	1	2	#12	21		DUCT SMOKE DETECTORS REQUIRED. CIRCUITING NOTED ON ELEC DWG.
PLUMBING																
LAV-1	1	ELECTRONIC FAUCET FOR LAV-1 (SENSOR TYPE)	REFER TO MECH DWG					120	1	15	1	2	#12	21		HARDWIRED ELECTRONIC FAUCET. CIRCUITING NOTED ON ELEC DWG.
WC-1	1	ELECTRONIC FLUSH VALVE (SENSOR TYPE)	REFER TO MECH DWG					120	1	15	1	2	#12	21		LINE POWERED WITH 24 VAC STEP DOWN TRANSFORMER.
HHS-1	1	ELECTRONIC FAUCET FOR HHS-1 (SENSOR TYPE)	REFER TO MECH DWG					120	1	15	1	2	#12	21		HARDWIRED ELECTRONIC FAUCET. CIRCUITING NOTED ON ELEC DWG.
HT	1	ELECTRIC HEAT TRACE (DOMESTIC HOT WATER TEMPERATURE MAINTENAN...	REFER TO MECH DWG					208	1	30	2	2	#12	21		RAYCHEM HWAT 140OF HWAT-R2 (RED). CIRCUITING NOTED ON ELEC...
CRBFS-1	1	CHILLED RECESSED BOTTLE FILLING STATION	REFER TO MECH DWG		5.0	0.37	6.3	120	1	15	1	2	#12	21		CIRCUITING NOTED ON ELEC DWG.
MEDICAL GAS																
MEDICAL GAS PANEL	1	MEDICAL GAS ZONE VALVE / AREA ALARM PANEL	REFER TO MECH DWG					120	1	15	1	2	#12	21		CIRCUITING NOTED ON ELEC DWG.

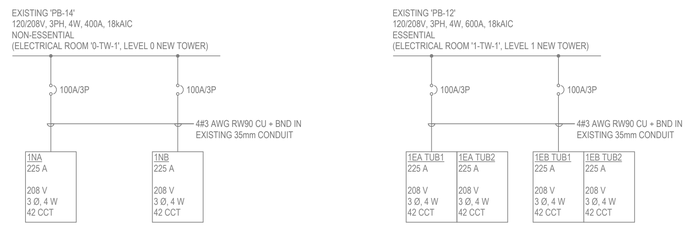


LIGHTING CONTROL RISER NOTES

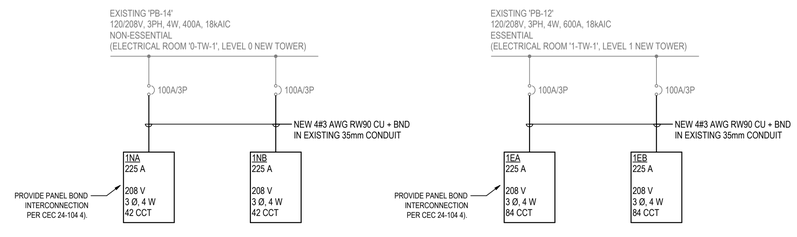
1. PROVIDE POWER PACK, DIMMER SWITCH AND OCCUPANCY SENSOR TO MATCH EXISTING LIGHTING CONTROL SYSTEM (RELIABLE CONTROLS).
2. LIGHTING CONTROL BEHAVIOR:
   a. PATIENT ROOMS: MANUAL ON/OFF, DIMMABLE.
   b. OFFICES, CORRIDOR: AUTO ON/OFF, DIMMABLE.
   c. STORAGE: AUTO ON/OFF.

   EMERGENCY CIRCUIT LIGHTING TO BYPASS LOCAL CONTROL DURING OUTAGE, AND TURNS LIGHTS ON AT FULL BRIGHTNESS. PROVIDE EMERGENCY LIGHTING REMOTE TEST SWITCH.
3. PROVIDE REMOTE TEST SWITCH FOR CONNECTION TO POWER PACK.
4. DIMMING WILL BE 0-10V.

1 E400 **LIGHTING CONTROL RISER DIAGRAM**
N.T.S.



EXISTING PARTIAL SINGLE LINE DIAGRAM



NEW PARTIAL SINGLE LINE DIAGRAM

2 E400 **PARTIAL SINGLE LINE DIAGRAM**
N.T.S.

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PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — LOUISE CAMPBELL — 31176
2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

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Client/Project
Northern Health

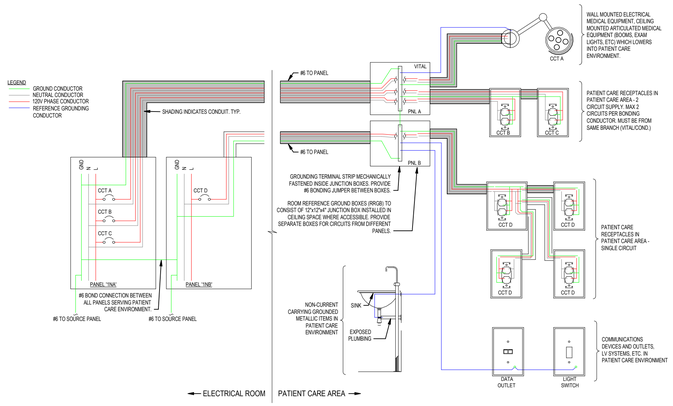
UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
ELECTRICAL SCHEDULES & DIAGRAMS (1 OF 2)

Project No.	Scale
144320012	N.T.S.
Revision	Drawing No.
2	E400

ORIGINAL SHEET - ARCH D



PATIENT CARE ENVIRONMENT BONDING GENERAL NOTES:

1. THE FOLLOWING REQUIREMENTS APPLY TO THE PATIENT CARE ENVIRONMENT (PCE). THE PCE CONSISTS OF THE AREA WITHIN 2m OF THE EXAM BED OR CHAIR, AND UNDER 2.3m A.F.F.

2. BONDING CONDUCTORS TO BE INSULATED, GREEN, COPPER, MINIMUM #10 OR AS INDICATED.

3. RECEPTACLE BONDING CONDUCTORS TO BE RUN IN SAME RACEWAY AS POWER CONDUCTORS.

4. PROVIDE #6 COPPER INSULATED BONDING JUMPER INSTALLED FROM NEW RRGB TO SOURCE PANEL GROUND BUS.

5. EACH PANELBOARD SUPPLYING BRANCH CIRCUITS SHALL BE BONDED TO GROUND BY A COPPER UTILIZATION EQUIPMENT BONDING CONDUCTOR. BONDING CONDUCTOR TO BE INSTALL IN SAME RACEWAY AS CONDUCTORS SUPPLYING PANEL, OR INCORPORATED INTO CABLE ASSEMBLY. SIZE AS INDICATED.

6. PROVIDE DEDICATED EQUIPMENT BONDING CONDUCTOR FOR EACH MULTI-WIRE BRANCH CIRCUITS.

7. EACH 2-WIRE BRANCH CIRCUIT SUPPLYING A RECEPTACLE IN A PATIENT CARE ENVIRONMENT SHALL BE PROVIDED WITH ITS OWN BONDING CONDUCTOR RUN TO THE ROOM REFERENCE GROUND BUS, EXCEPT WHERE:
   - WHEN RECEPTACLES IN A PATIENT CARE ENVIRONMENT ARE SUPPLIED FROM TWO, 2-WIRE BRANCH CIRCUITS IN THE SAME RACEWAY, A SINGLE BONDING CONDUCTOR MAY BE USED.
   - WHEN RECEPTACLES SERVING 2 ADJACENT PATIENT CARE ENVIROMENTS ARE SUPPLIED BY THREE 2-WIRE BRANCH CIRCUITS, WITH ONE CIRCUIT SHARED BY BOTH ENVIRONMENTS, THE THREE CIRCUITS MAY SHARE 2 BONDING CONDUCTORS.

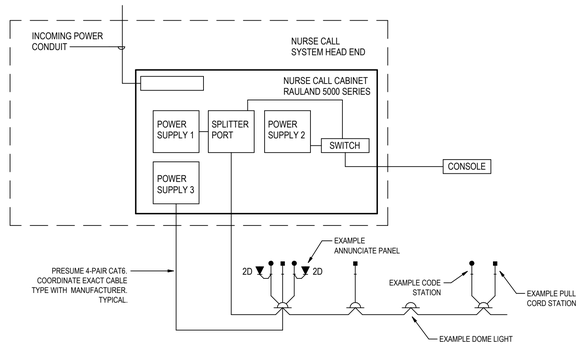
8. ALL EXPOSED, NON-CURRENT-CARRYING METAL PARTS OF COMMUNICATION, RADIO, OR TV EQUIPMENT, OTHER THAN TELEPHONE SETS, LOCATED IN THE PATIENT CARE ENVIRONMENT, AND WHICH MAY BECOME ENERGIZED, SHALL BE BONDED BY COPPER EQUIPMENT BONDING CONDUCTOR CONNECTED TO BONDING SCREW IN THE COMMUNICATION SECTION OF A BARRIERED AND GANGED METAL OUTLET BOX THAT SERVES THE PCE OR TO THE ROOM REFERENCE GROUND BUS (AS INDICATED ON SCHEMATIC).

9. ALL EXPOSED, NON-CURRENT-CARRYING METAL PARTS OF NON-ELECTRICAL EQUIPMENT, LOCATED IN THE PATIENT CARE ENVIRONMENT, AND WHICH MAY BECOME ENERGIZED, SHALL BE BONDED BY COPPER EQUIPMENT BONDING CONDUCTOR CONNECTED TO THE ROOM REFERENCE GROUND BUS.

10. NON-CURRENT-CARRYING METAL PARTS OF NON-ELECTRICAL EQUIPMENT MAY INCLUDE, BUT IS NOT LIMITED TO:
   - METAL PARTS OF MEDICAL GAS EQUIPMENT.
   - MED GAS / OXYGEN PLUMBING AND CONNECTIONS WHERE EXPOSED.
   - METAL SINKS AND PLUMBING.
   - METAL PARTS OF CONSOLES OR SUPPORT ARMS.

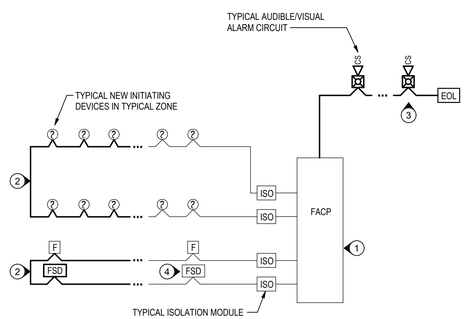
1 E401 PATIENT REFERENCE GROUNDING DETAILS

1 : 1



2 E401 NURSE CALL SYSTEM RISER DIAGRAM

1 : 1

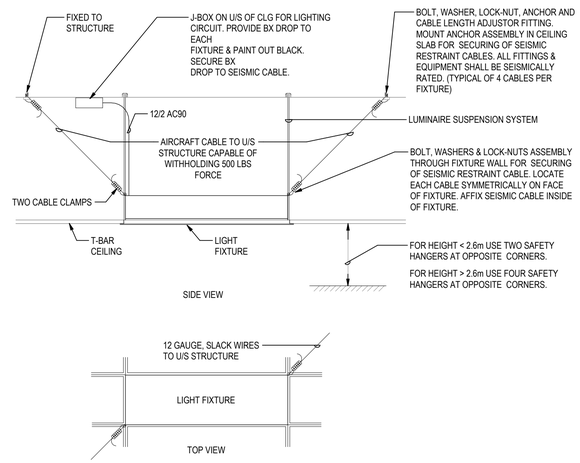


KEY NOTES:

1. ALL NEW DEVICES TO MATCH EXISTING SIMPLEX 4120 FIRE ALARM SYSTEM.
2. EXISTING FIRE ALARM INITIATING CIRCUIT.
3. PROVIDE NEW SIGNALING DEVICES AND CONNECT TO EXISTING FIRE ALARM SYSTEM AS SHOWN. PROVIDE VERIFICATION INSPECTION REPORT FOR ALL NEW AND RELOCATED DEVICES.
4. FOR FSD, PROVIDE MONITOR MODULES FOR CLOSED/OPEN LIMIT SWITCHES (AS PROVIDED) AND THEN CONTROL RELAY FOR OPERATION.

3 E401 FIRE ALARM RISER DIAGRAM

1 : 1



NOTES:

1. EXACT SPECIFICATION AND INSTALLATION METHOD SHALL BE OBTAINED BY SEISMIC ENGINEER. THE ABOVE DETAIL IS SHOWN FOR GENERAL PURPOSE ONLY.

4 E401 LUMINAIRE SUSPENSION DETAIL

1 : 1

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	By	Appd	YYYY.MM.DD

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Permit/Seal

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA 31736 TIMOTHY FUMS

2025-01-27
Stantec Permit#: 1002862

Client/Project Logo

northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
ELECTRICAL SCHEDULES & DIAGRAMS (2 OF 2)

Project No. 144320012

Scale 1 : 1

Revision 2

Drawing No. E401

<PCA location in Project Information>
<Date> 12:35:58 PM

ORIGINAL SHEET - ARCH D

Stantec — Panel

Name: **1NA** | Volts: 208Y/120V | Mains Type: NO MAIN CIRCUIT BREAKER | Type:
Location: ECHO VIEWING 1 237 | Phases: 3 | Mains Rating: 225A ALUMINUM | AIC Rating: 10kA
Supply From: PANEL 'PB-14' IN ELECTRICAL ROOM 0-TW-1 | Wires: 4 | MCB Rating: N/A | Mounting: Recessed
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	LIGHTS 315, 316, 317, 318, 319, 321, 322	15 A	1		273	2100						1	15 A	ECH/HOLTER 326 RECEPT.	2
3	LIGHTS 232, 238, 326, 327	15 A	1				360	2100				1	15 A	ECG/HOLTER 2 240 RECEPT.	4
5	LIGHTS CORRIDOR 343	15 A	1						240	2100		1	15 A	ECG/HOLTER 3 239 RECEPT.	6
7	LIGHTS 233, 234, 235, 340, 341	15 A	1		210	2100						1	15 A	EXAM 5 330 RECEPT.	8
9	LIGHTS 237, 239, 240, 330, 331, 342	15 A	1				150	5000				1	15 A	STAFF ROOM 322 RECEPT.	10
11	STAFF ROOM 322 MICROWAVE	15 A	1						1000	1000		1	15 A	STAFF ROOM 322 RECEPT.	12
13	MOTORIZED SHADES	15 A	1		1200	2100						1	15 A	EXAM 1 233 RECEPT.	14
15	238 327 RECEPT.	15 A	1				2000	2100				1	15 A	EXAM 2 341 RECEPT.	16
17	REGISTRATION 350 PRINTER	20 A	1						1000	2100		1	15 A	EXAM 3 234 RECEPT.	18
19	REGISTRATION 350 RECEPT	15 A	1		1800	3000						1	15 A	ECHO VIEWING 1 237 RECEPT.	20
21	REGISTRATION 350 RECEPT.	15 A	1				2000	5000				1	15 A	HEART EXAM 3 315 RECEPT.	22
23	REGISTRATION 350 RECEPT	15 A	1						3000	4000		1	15 A	HEART EXAM 2 316 RECEPT.	24
25	BOOKING 232 PRINTER	20 A	1		1000	4000						1	15 A	HEART EXAM 1 317 RECEPT.	26
27	BOOKING 232 RECEPT.	15 A	1				2000	3500				1	15 A	HEART EXAM 4 318 RECEPT.	28
29	BOOKING 232 RECEPT.	15 A	1						2000	2400		1	15 A	EDUCATION 319 RECEPT.	30
31	HOLTER SCANNING 238 RECEPT.	15 A	1		3000	500						1	15 A	EDUCATION 319 RECEPT.	32
33	HOLTER SCANNING 238 RECEPT.	15 A	1				2000	1000				1	20 A	CORRIDOR 321 PRINTER	34
35	TEAM LEADS 327 RECEPT.	15 A	1						3000	4000		1	15 A	CORRIDOR 321 RECEPT.	36
37	CORRIDOR 343 RECEPT.	15 A	1		4000										38
39	STAFF ROOM 322 FRIDGE	15 A	1				1000								40
41															42
43															44
45															46
47															48
49						0					--	1	15 A	Spare	50
51								0			--	1	15 A	Spare	52
53										0	--	1	15 A	Spare	54
55						0					--	1	15 A	Spare	56
57								0			--	1	15 A	Spare	58
59										0	--	1	15 A	Spare	60
				Total Load:	25.28 kVA		28.21 kVA		25.84 kVA						
				Total Amps:	211 A		236 A		216 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1233 VA	125.00%	1541 VA		
Other	76900 VA	100.00%	76900 VA	Total Conn. Load:	79333 VA
Receptacle (C)	1200 VA	100.00%	1200 VA	Total Est. Demand:	79641 VA
				Total Conn.:	220 A
				Total Est. Demand:	221 A

CB Legend (blank = circuit breaker):
G = GFCI S = Shunt Trip D = Switching Duty A = AFCI H = HID Rated C = HACR Rated † = Existing Circuit ‡ = Revised Circuit
Notes:

Stantec — Panel

Name: **1NB** | Volts: 208Y/120V | Mains Type: NO MAIN CIRCUIT BREAKER | Type:
Location: CORRIDOR 343 | Phases: 3 | Mains Rating: 225A ALUMINUM | AIC Rating: 10kA
Supply From: PANEL 'PB-14' IN ELECTRICAL ROOM 0-TW-1 | Wires: 4 | MCB Rating: N/A | Mounting: Recessed
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	LIGHTS 236, 329, 335, 337, 338, 346, 347, 348	15 A	1		390	1900						1	15 A	EXAM 6 331 RECEPT.	2
3	BLANKET WARMER	15 A	1				1200	2100				1	15 A	EXAM 4 340 RECEPT.	4
5	ICE MACHINE	15 A	1						1200	1300		1	15 A	LARGE ECHO 235 RECEPT.	6
7	CLEAN SUPPLY 342 RECEPT.	15 A	1		4000	1600						1	15 A	LARGE ECHO 235 RECEPT.	8
9	WAITING 353 RECEPT.	15 A	1				1200	2000				1	15 A	CORRIDOR 343 RECEPT.	10
11	CORRIDOR 343 RECEPT.	15 A	1						3000	2000		1	15 A	WC 349 333 RECEPT.	12
13	PIXIS MACHINE 347 RECEPT.	15 A	1		3000	900						1	15 A	WAITING 351 RECEPT.	14
15	SOILED 346 RECEPT.	15 A	1				4000								16
17	JANITOR 348	15 A	1						1000						18
19	ECHO 2 338 RECEPT.	15 A	1		5000										20
21	ECHO 1 337 RECEPT.	15 A	1				5000								22
23	FLEX ROOM 329 RECEPT.	15 A	1						4000						24
25	HEART RHYTHM CLINIC 236 RECEPT.	15 A	1		2100										26
27	HEART RHYTHM CLINIC 236 RECEPT.	15 A	1				1900								28
29	STRESS TEST 335 RECEPT.	15 A	1						3000						30
31	STRESS TEST 335 RECEPT.	15 A	1		2000										32
33	STRESS TEST 335 RECEPT.	15 A	1				5000								34
35	STRESS TEST 335 RECEPT.	15 A	1						3000						36
37	STRESS TEST 335 RECEPT.	15 A	1		1000										38
39	STRESS TEST 335 RECEPT.	15 A	1				1000								40
41	ECHO VIEWING 2 334 RECEPT.	15 A	1						1300						42
43															44
45															46
47															48
49						0					--	1	15 A	Spare	50
51								0			--	1	15 A	Spare	52
53										0	--	1	15 A	Spare	54
55						0					--	1	15 A	Spare	56
57								0			--	1	15 A	Spare	58
59										0	--	1	15 A	Spare	60
				Total Load:	21.89 kVA		23.40 kVA		19.80 kVA						
				Total Amps:	185 A		198 A		165 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	390 VA	125.00%	488 VA		
Other	62300 VA	100.00%	62300 VA	Total Conn. Load:	65090 VA
Receptacle (C)	2400 VA	100.00%	2400 VA	Total Est. Demand:	65188 VA
				Total Conn.:	181 A
				Total Est. Demand:	181 A

CB Legend (blank = circuit breaker):
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Notes:

Stantec — Panel

Name: **1EA** | Volts: 208Y/120V | Mains Type: NO MAIN CIRCUIT BREAKER | Type:
Location: ECHO VIEWING 1 237 | Phases: 3 | Mains Rating: 225A ALUMINUM | AIC Rating: 10kA
Supply From: PANEL 'PB-12' IN ELECTRICAL ROOM 1-TW-1 | Wires: 4 | MCB Rating: N/A | Mounting: Recessed
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	EXIT SIGNS	15 A	1		6	800						1	15 A	ECH/HOLTER 326 RECEPT.	2
3	EM LIGHTING	15 A	1				390	800				1	15 A	ECG/HOLTER 2 240 RECEPT.	4
5	EM LIGHTING	15 A	1						300	800		1	15 A	ECG/HOLTER 3 239 RECEPT.	6
7	EM LIGHTING	15 A	1		212	800						1	15 A	EXAM 5 330 RECEPT.	8
9	FIRE SMOKE DAMPERS	15 A	1				0								10
11	FIRE SMOKE DAMPERS	15 A	1						0	800		1	15 A	EXAM 1 233 RECEPT.	12
13	HHS-1 HAND HYGEINE SINK	15 A	1		0	800						1	15 A	EXAM 2 341 RECEPT.	14
15	HHS-1 HAND HYGEINE SINK	15 A	1				0	800				1	15 A	EXAM 3 234 RECEPT.	16
17	HHS-1 HAND HYGEINE SINK	15 A	1						0						18
19	CRBFS-1 BOTTLE FILLER	15 A	1		0	1000						1	15 A	ECHO VIEWING 1 237 RECEPT.	20
21	MED GAS BOX / GAS ALARM PANEL	15 A	1				1200	2000				1	15 A	HEART EXAM 3 315 RECEPT.	22
23	MED GAS BOX / GAS ALARM PANEL	15 A	1						1200	2000		1	15 A	HEART EXAM 2 316 RECEPT.	24
25	30mA GFCI - HEAT TRACE	30 A	2		0	2000						1	15 A	HEART EXAM 1 317 RECEPT.	26
27	--	--	--	--			0	2000				1	15 A	HEART EXAM 4 318 RECEPT.	28
29	30mA GFCI - HEAT TRACE	30 A	2						0	1300		1	15 A	319 321 RECEPT.	30
31	--	--	--	--	0	0						1	15 A	AUTOMATIC DOOR OPERATOR	32
33	BOOKING 232 RECEPT.	15 A	1				2000								34
35	BOOKING 232 RECEPT.	15 A	1						2000	0	--	1	15 A	Spare	36
37	HOLTER SCANNING 238 RECEPT.	15 A	1		3000	0					--	1	15 A	Spare	38
39	HOLTER SCANNING 238 RECEPT.	15 A	1				2000	0			--	1	15 A	Spare	40
41	TEAM LEADS 327 RECEPT.	15 A	1						3000	0	--	1	15 A	Spare	42
				Total Load:	8.62 kVA		11.19 kVA		11.40 kVA						
				Total Amps:	72 A		97 A		98 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	902 VA	125.00%	1128 VA		
Motor	0 VA	0.00%	0 VA	Total Conn. Load:	31208 VA
Other	27900 VA	100.00%	27900 VA	Total Est. Demand:	31435 VA
Receptacle (C)	2400 VA	100.00%	2400 VA	Total Conn.:	87 A
Lighting (Emergency) Parking Area	6 VA	125.00%	7 VA	Total Est. Demand:	87 A

CB Legend (blank = circuit breaker):
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Notes:

Stantec — Panel

Name: **1EB** | Volts: 208Y/120V | Mains Type: NO MAIN CIRCUIT BREAKER | Type:
Location: CORRIDOR 343 | Phases: 3 | Mains Rating: 225A ALUMINUM | AIC Rating: 10kA
Supply From: PANEL 'PB-12' IN ELECTRICAL ROOM 1-TW-1 | Wires: 4 | MCB Rating: N/A | Mounting: Recessed
Serves: | Lugs: Single Lugs | Enclosure: Type 1

Notes:

CKT	Circuit Description	Trip	Poles	CB	A		B		C		CB	Poles	Trip	Circuit Description	CKT
1	EXIT SIGNS	15 A	1		6	800						1	15 A	EXAM 6 331 RECEPT.	2
3	EM LIGHTING	15 A	1				540	800				1	15 A	EXAM 4 340 RECEPT.	4
5	FIRE SMOKE DAMPERS	15 A	1						0	800		1	15 A	LARGE ECHO 235 RECEPT.	6
7	FIRE SMOKE DAMPERS	15 A	1		0										8
9	FIRE SMOKE DAMPERS	15 A	1				0								10
11	HHS-1 HAND HYGEINE SINK	15 A	1						0						12
13	WC-1 & LAV-1 SENSORS	15 A	1		0										14
15	30mA GFCI - HEAT TRACE	30 A	2				0								16
17	--	--	--	--					0						18
19	ECHO 2 338 RECEPT.	15 A	1		2000										20
21	ECHO 1 337 RECEPT.	15 A	1				2000								22
23	FLEX ROOM 329 RECEPT.	15 A	1						2000						24
25	HEART RHYTHM CLINIC 236 RECEPT.	15 A	1		1000										26
27	HEART RHYTHM CLINIC 236 RECEPT.	15 A	1				1000								28
29	STRESS TEST 335 RECEPT.	15 A	1						1500						30
31	STRESS TEST 335 RECEPT.	15 A	1		1000										32
33	ECHO VIEWING 2 334 RECEPT.	15 A	1				500								34
35										0	--	1	15 A	Spare	36
37	AUTOMATIC DOOR OPERATOR	15 A	1		0	0					--	1	15 A	Spare	38
39								0			--	1	15 A	Spare	40
41										0	--	1	15 A	Spare	42
				Total Load:	4.81 kVA		4.84 kVA		4.30 kVA						
				Total Amps:	41 A		41 A		36 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	540 VA	125.00%	675 VA		
Motor	0 VA	0.00%	0 VA	Total Conn. Load:	13946 VA
Other	13400 VA	100.00%	13400 VA	Total Est. Demand:	14082 VA
Lighting (Emergency) Parking Area	6 VA	125.00%	7 VA	Total Conn.:	39 A
				Total Est. Demand:	39 A

CB Legend (blank = circuit breaker):
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Notes:

Stantec

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Consultant

Notes

		By	Appd	YYYY.MM.DD
2	ISSUED FOR TENDER	CC	TF	2025.01.27
1	ISSUED FOR 100% & QS	CC	CC	2024.11.26

Issued/Revision

File Name: N/A

Dwn.	Dsgn.	Chkd.	YYYY.MM.DD

Permit/Seal

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2025-01-27
Stantec Permit#: 1002862

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northern health
the northern way of caring

Client/Project
Northern Health

UHN - Cardiac Diagnostic Services - Phase 3

1475 Edmonton St, Prince George, BC V2M 1S2

Title
ELECTRICAL PANEL SCHEDULES

Project No.
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2

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