

333 BECOTT PL, PRINCE GEORGE, BC V2L 4V7

DRAWING LIST			PROJECT CONTACT	
DWG NO.	DRAWING NAME	SCALE	ELECTRICAL IMPACT ENGINEERING CONTACT: RICHARD SNOW, P.ENG., ASSOCIATE TEL: 778 230 8266 EMAIL: RSNOW@IMPACTENG.CA	
E-000	COVER PAGE	NTS	BUILDING CODE BRITISH COLUMBIA BUILDING CODE 2024 BRITISH COLUMBIA ELECTRICAL CODE 2024 ASHRAE 90.1	
E-100D	MECHANICAL ROOM DEMOLITION POWER PLAN	1/8" = 1' - 0"		
E-100	MECHANICAL ROOM RENOVATION POWER PLAN	1/8" = 1' - 0"		
E-101	ROOF RENOVATION POWER PLAN	1/8" = 1' - 0"		
E-600	SCHEDULES 1 OF 2	NTS		
E-601	SCHEDULES 2 OF 2	NTS		
E-700	SCHEMATICS	NTS		
E-800	SPECIFICATIONS	NTS		





167 WATER STREET
VANCOUVER, BC V6B 1A7
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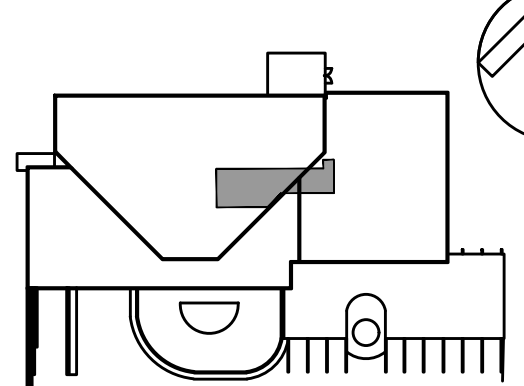
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PROFESSIONAL SEALS
2026-08-11


KEYPLAN



CLIENT

REGIONAL DISTRICT OF FRASER - FORT GEORGE

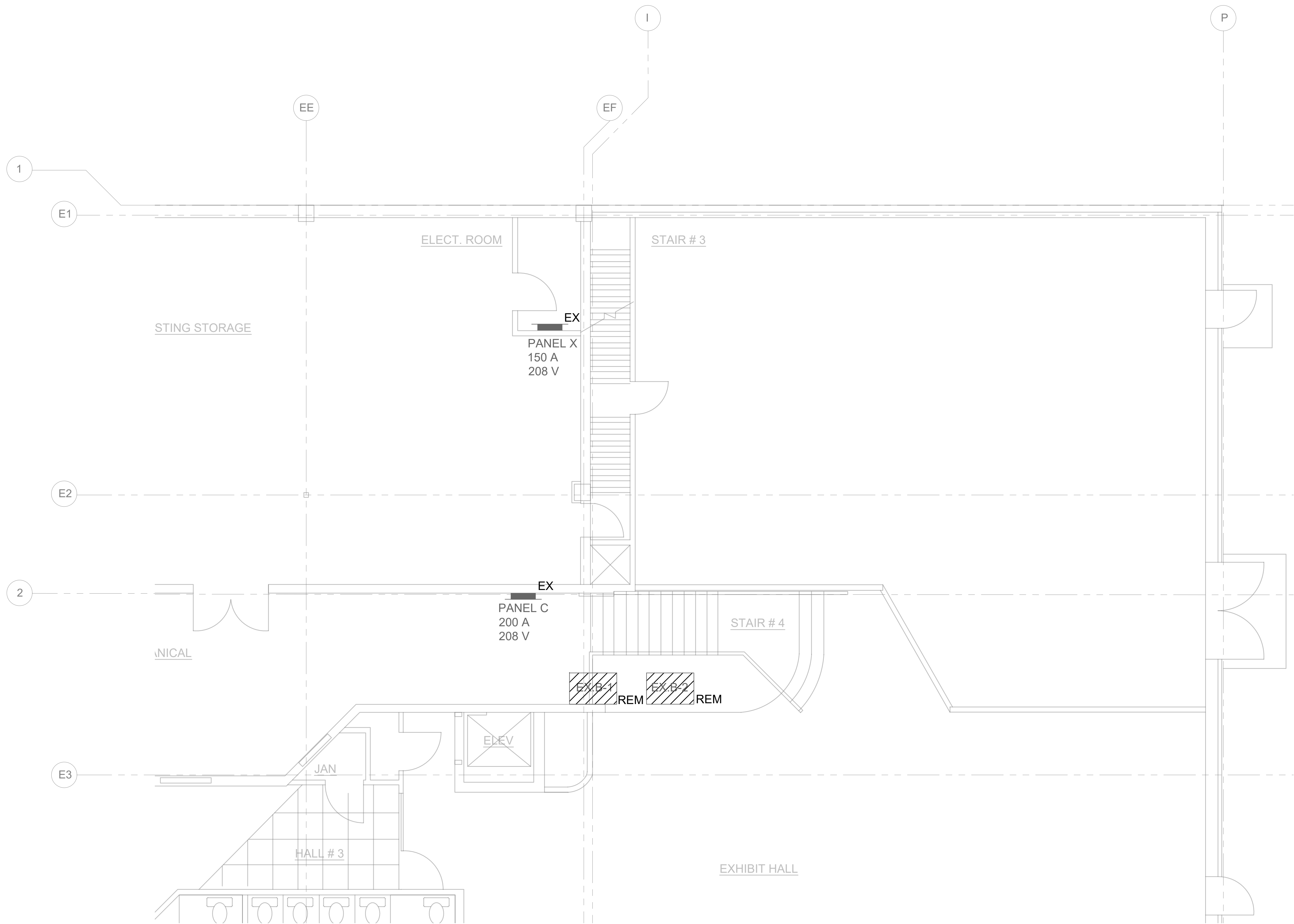
PROJECT

EXPLORATION PLACE MUSEUM
GAHP INSTALLATION

DRAWING

COVER PAGE

DESIGN	NM	DATE	2026-08-11	SCALE	NTS
DRAWN	NM	PROJECT NO.	25_160		
CHECKED	AS	DRAWING NO.	E-000		
APPROVED	RS				
					VERSION
					2



1
E-1000
MECHANICAL ROOM DEMOLITION POWER PLAN
1/4" = 1' - 0"

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PROFESSIONAL SEALS

2026-08-11

PROFESSIONAL

PROVINCE

R. J. B. SNOW

49826

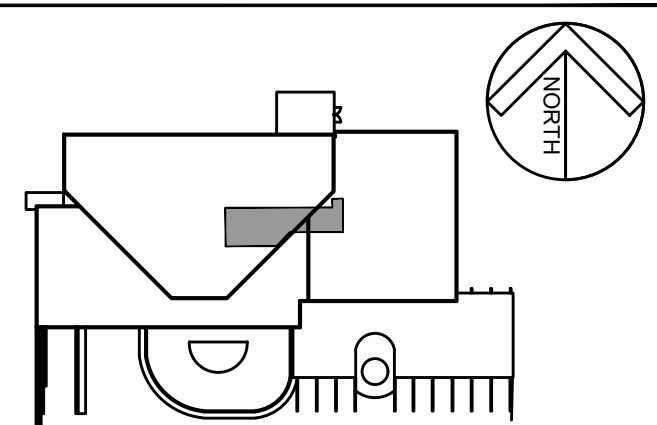
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REGIONAL DISTRICT OF FRASER -
FORT GEORGE

PROJECT

EXPLORATION PLACE MUSEUM
GAHP INSTALLATION

DRAWING

MECHANICAL ROOM DEMOLITION
POWER PLAN

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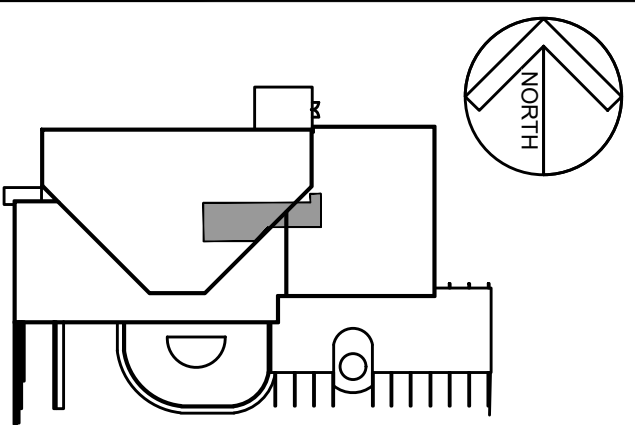
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REGIONAL DISTRICT OF FRASER -
FORT GEORGE

PROJECT

EXPLORATION PLACE MUSEUM
GAHP INSTALLATION

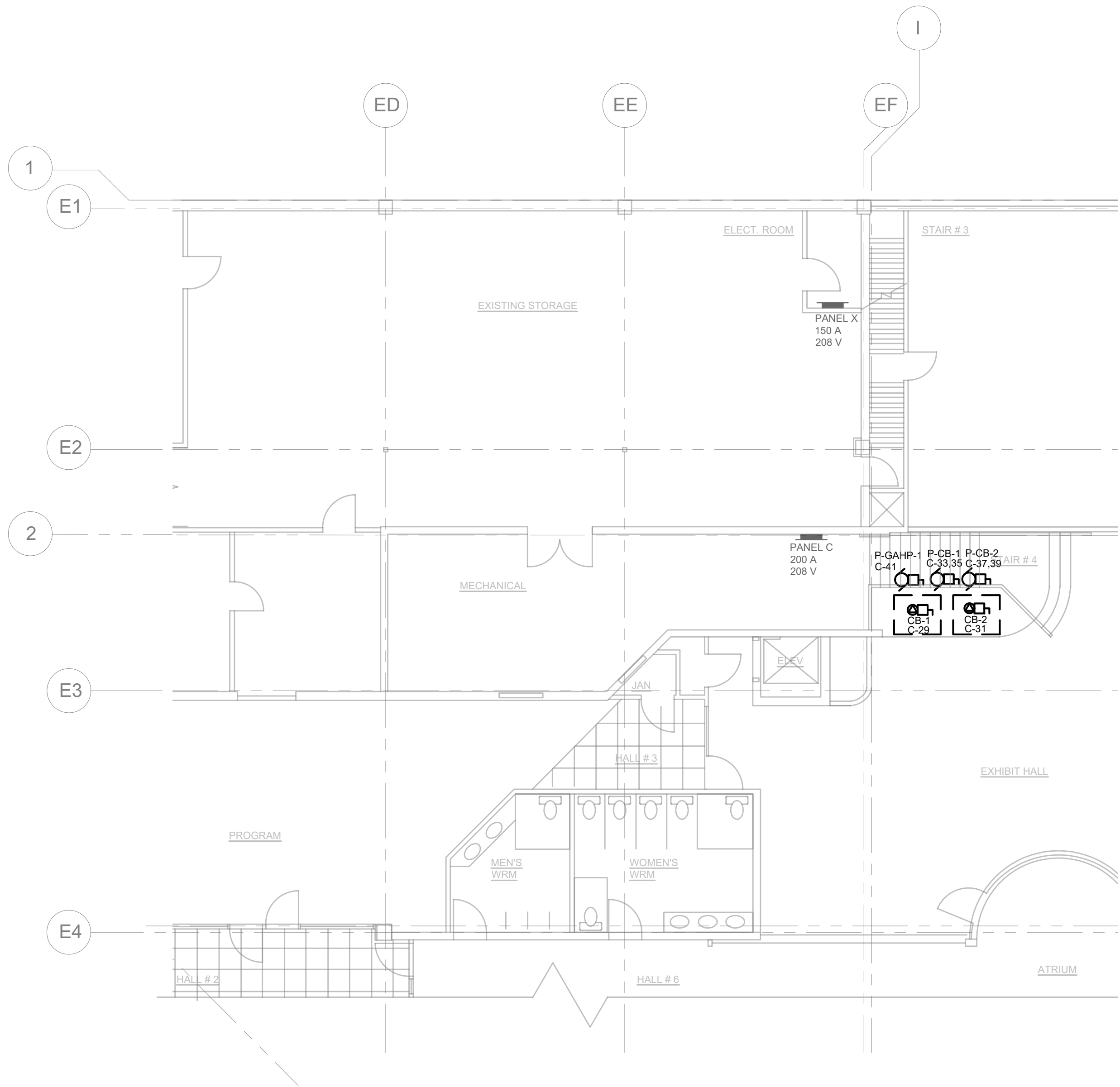
DRAWING

RENOVATION POWER PLAN

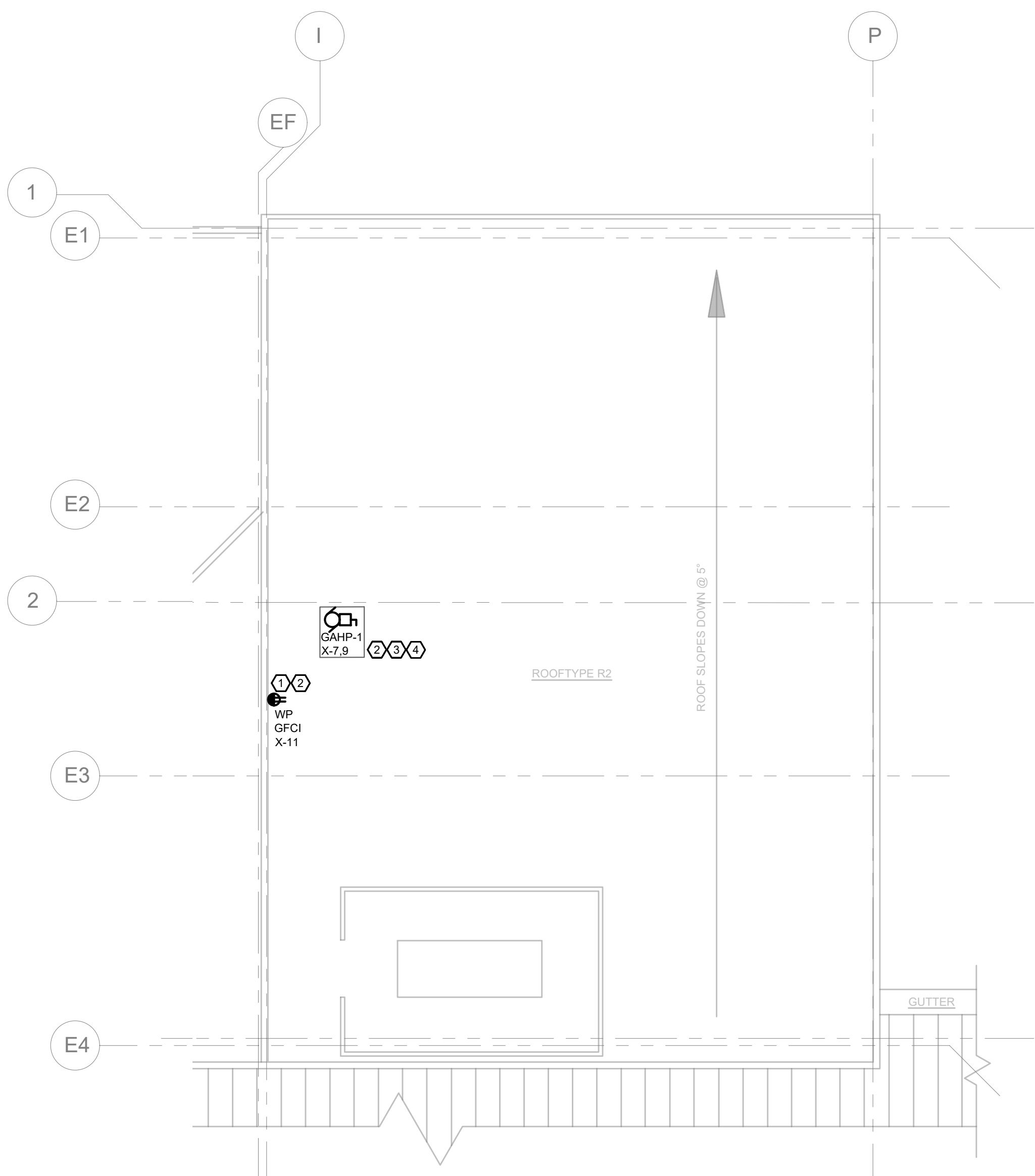
DESIGN	NM	DATE	2026-08-11	SCALE	1/8" = 1' - 0"
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DRAWING NOTES

- 1 PROVIDE NEW DUPLEX WEATHERPROOF 20A GFCI PROTECTED POWER OUTLET VIA DEDICATED 20A 120V CIRCUIT. LOCATED WITHIN 7.5M OF ROOFTOP EQUIPMENT AND MINIMUM 750MM ABOVE FINISHED ROOF LEVEL. PROVIDE HEAVY DUTY IN-USE COVER.
- 2 WEATHER SEAL AFFECTED ROOF PENETRATIONS.
- 3 PROVIDE NEMA 3R WEATHERPROOF DISCONNECT SWITCHES.
- 4 ALL NEW ROOF PENETRATIONS AND ROOF WORK TO BE COMPLETED BY A CERTIFIED ROOFING CONTRACTOR.



1
E-100
MECHANICAL ROOM RENOVATION POWER PLAN
1/8" = 1' - 0"



1
E-100
ROOF RENOVATION POWER PLAN
1/8" = 1' - 0"

PANEL NO.	C	SECTION:	1	OF	1	Bus:	225A
LOCATION:	Mechanical Room	SERVING:	Mechanical Equipments			120/240V	
						3Ø 4 WIRE	
A.I.C. RATING	ISO-GND-BUS						
CIRCUIT DESCRIPTION		CIRCUIT BREAKER			CIRCUIT BREAKER		
		AMP	POLE	CKT	PH	CKT	POLE AMP
B.C. TEL RECEPTACLE		15	1	1	A	2	
RECEPTACLE STORAGE ROOM		15	1	3	B	4	3 30
RECEPTACLE EXHIBIT STAIRWAY		15	1	5	C	6	
RECEPTACLE EXHIBIT STAIRWAY		15	1	7	A	8	1 15
SPARE		15	1	9	B	10	1 15
STEAM BOILER		15	1	11	C	12	1 20
SPARE		15	1	13	A	14	1 15
DDC PANEL		15	1	15	B	16	1 15
SECURITY PANEL		15	1	17	C	18	1 20
UV LIGHT RECEPTACLE		15	1	19	A	20	1 15
PUMP HWT TANK		15	1	21	B	22	1 15
UV LIGHTS		15	1	23	C	24	1 15
UV LIGHTS		15	1	25	A	26	
UV LIGHTS		15	1	27	B	28	2 30
CB-1		15	1	29	C	30	1 15
CB-2		15	1	31	B	32	
P-CB-1		15	2	33	C	34	
				35	B	36	
P-CB-2		15	2	37	C	38	
				39	B	40	
P-GAHP-1		15	1	41	C	42	

1

E-600

REVISED PANEL C SCHEDULE

NTS



2

E-600

PANEL C

NTS

PANEL NO.	X	SECTION:	1	OF	1	Bus:	250A
LOCATION:	Electrical Room	SERVING:				120/240V	
						3Ø 4 WIRE	
A.I.C. RATING	ISO-GND-BUS			SURFACE MOUNT TOP FED			
CIRCUIT DESCRIPTION		CIRCUIT BREAKER			CIRCUIT BREAKER		
		AMP	POLE	CKT	PH	CKT	POLE AMP
LIGHTING ELEC RM		15	1	1	A	2	1 15
LIGHTING OUTDOOR		15	1	3	B	4	1 15
SIGN		15	1	5	C	6	1 15
GAHP-1		15	2	7	A	8	1 15
				9	B	10	1 15
ROOFTOP RECEPTACLE		20	1	11	C	12	1 15
				13	A	14	1 15
				15	B	16	
				17	C	18	1 15
				19	A	20	
FLOOR PLUG EXHIBIT (WATER TABLE)		15	2	21	B	22	
				23	C	24	
				25	A	26	1 15
				27	B	28	
				29	C	30	
				31	B	32	
				33	C	34	
				35	B	36	
				37	C	38	
				39	B	40	
				41	C	42	1 15

3

E-600

REVISED PANEL X SCHEDULE

NTS



4

E-600

PANEL X

NTS

DRAWING NOTES

① PROVIDE TWO WEEKS OF TEMPORARY METERING DATA FOR BOTH PANEL C AND PANEL X AND GET CONFIRMATION FROM THE ENGINEERING TEAM THAT THERE IS ENOUGH SPARE CAPACITY ON THOSE PANELS TO INSTALL NEW LOADS.

Impact

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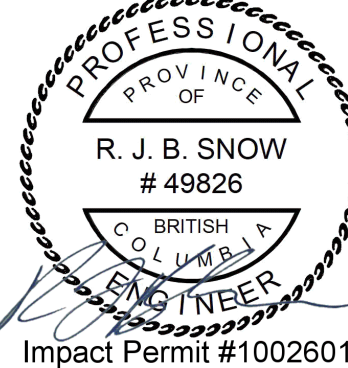
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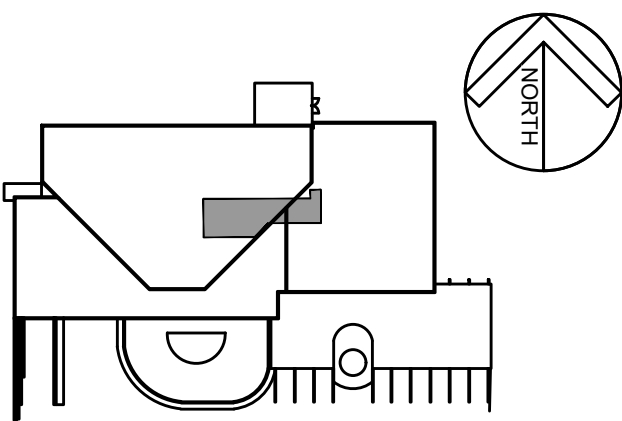
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PROFESSIONAL SEALS

2026-08-11



KEYPLAN



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REGIONAL DISTRICT OF FRASER -
FORT GEORGE

PROJECT

EXPLORATION PLACE MUSEUM
GAHP INSTALLATION

DRAWING

SCHEDULES 1 OF 2

DESIGN	NM	DATE	2026-08-11	SCALE	NTS
DRAWN	NM	PROJECT NO.	25_160		
CHECKED	AS	DRAWING NO			VERSION
APPROVED	RS				
		E-600			2

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Mechanical Equipment Electrical Data List																																						
EQUIPMENT TAG	SERVICE	DESCRIPTION	QUANTITY	LOCATION	ELECTRICAL DATA										FEEDER SIZE					UNIT		STARTER				DISCONNECT				CONTROL DEVICE				NOTES	REVISION			
					MCA	MOP	kW(H/P)	FLA	VOLTS	PHASE	EMERGENCY POWER	FIRE ALARM	PHASE WIRE	NEUTRAL WIRE	GROUND WIRE	CONDUIT	SUPPLIED BY	MOUNTED BY	CONNECTED BY	TYPE	SUPPLIED BY	MOUNTED BY	CONNECTED BY	CONTROL	NEMA RATING	CSA ENCLOSURE RATING	SUPPLIED BY	MOUNTED BY	CONNECTED BY	VOLTAGE CLASS	SWITCH AMPS	FUSE AMPS	TYPE			SUPPLIED BY	MOUNTED BY	CONNECTED BY
CB-1	Space Heating	IBC EX 850	1	Mech Room	1.9	15	0.2 (-)	1.9	120	1	N	M	#12	#12	#12	21 mmC	M	M	M	PKG	M	M	E	T	1	1	E	E	E	120	20	-	SS	M	M	E		1
CB-2	Space Heating	IBC EX 850	1	Mech Room	1.9	15	0.2 (-)	1.9	120	1	N	M	#12	#12	#12	21 mmC	M	M	M	PKG	M	M	E	T	1	1	E	E	E	120	20	-	SS	M	M	E		1
GAHP-1	Space Heating Preheat	Robur GAHP A Plus	1	Roof	8.17	15	1.7 (0.87)	8.17	208	1	N	M	#12	-	#12	21 mmC	M	M	M	PKG	M	M	E	T	3R	3	E	E	E	208	20	-	SS	M	M	E		1
P-CB-1	Space Heating	Grundfos Magna3 50-150-GF	1	Mech Room	6.1	15	1.3 (-)	6.1	208	1	N	M	#12	#12	#12	21 mmC	M	M	M	PKG	M	M	E	S	1	1	E	E	E	120	20	-	OA	M	M	E		1
P-CB-2	Space Heating	Grundfos Magna3 50-150-GF	1	Mech Room	6.1	15	1.3 (-)	6.1	208	1	N	M	#12	#12	#12	21 mmC	M	M	M	PKG	M	M	E	S	1	1	E	E	E	120	20	-	OA	M	M	E		1
P-GAHP-1	Space Heating Preheat	Grundfos Magna3 40-120-GF	1	Mech Room	5.26	15	0.6 (-)	5.26	115	1	N	M	#12	#12	#12	21 mmC	M	M	M	PKG	M	M	E	S	1	1	E	E	E	120	20	-	OA	M	M	E		1
Notes:																			LEGEND: SUPPLIED BY: E ELECTRICAL M MECHANICAL CONTROL DEVICES: C TIME CLOCK F FLOAT SWITCH O OTHER (IDENTIFY) P PRESSURE SWITCH STARTER TYPE: MP MANUAL O/W PILOT LIGHT MG MAGNETIC CONTROL TYPE: OA OFF/AUTO HOA HAND/OFF/AUTO SS STOP/START																			

1

E-601

MECHANICAL EQUIPMENT SCHEDULE

NTS

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PROFESSIONAL SEALS

2026-08-11

PROFESSIONAL

PROVINCE

OF

R. J. B. SNOW

49826

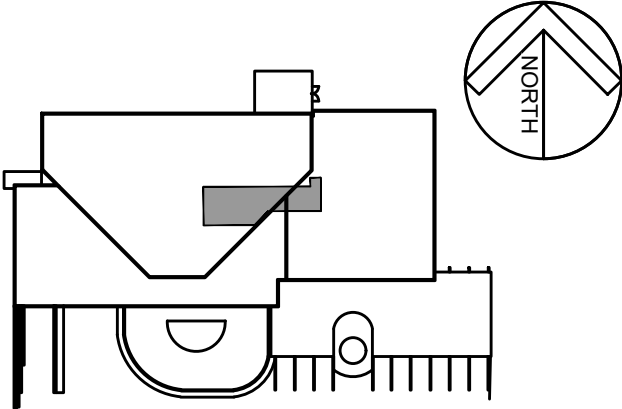
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FORT GEORGE

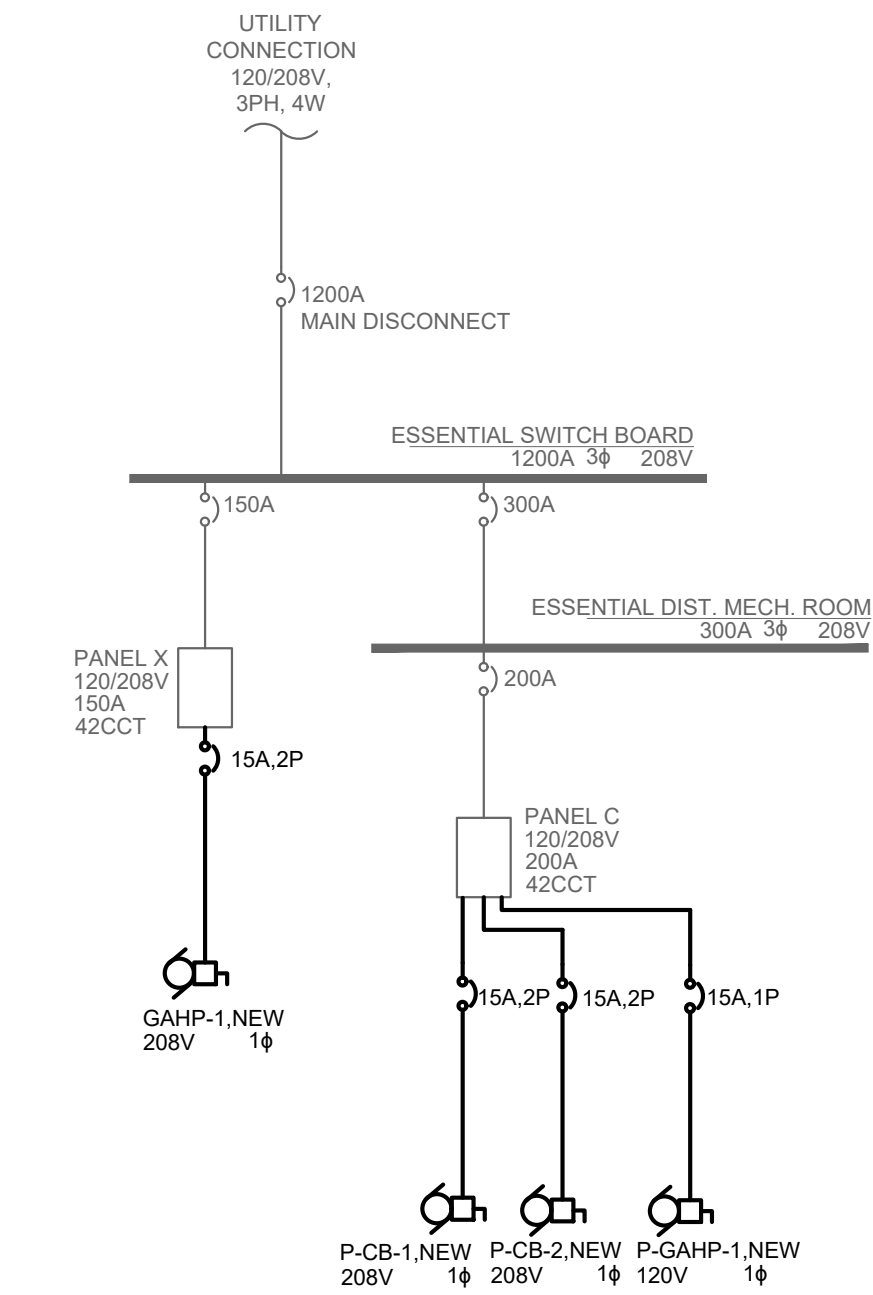
PROJECT

EXPLORATION PLACE MUSEUM
GAHP INSTALLATION

DRAWING

SCHEDULES 2 OF 2

DESIGN	NM	DATE	2026-08-11	SCALE	NTS
DRAWN	NM	PROJECT NO.	25_160		
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1

E-700

PROPOSED SINGLE LINE DIAGRAM

NTS

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2026-08-11

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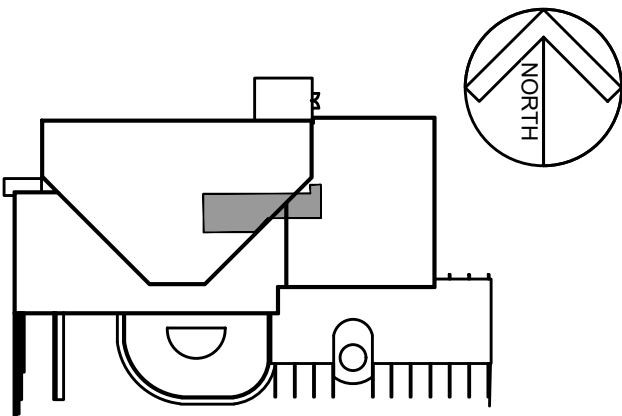
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PROJECT

EXPLORATION PLACE MUSEUM
GAHP INSTALLATION

DRAWING

SCHEMATICS

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ELECTRICAL WORK SPECIFICATION		ELECTRICAL WORK PRODUCTS & SYSTEMS	
GENERAL INSTRUCTIONS, & BASIC MATERIALS & METHODS			
1. SUBMITTALS	16. INSTALLATION OF SLEEVES	24. EXCAVATION & BACKFILL WORK	3.2. FOR FIRE ALARM SIGNAL WIRING, SECURITY SYSTEM & COMMUNICATION SYSTEM WIRING IN CONDUIT, PROVIDE CONDUCTORS EQUAL TO NEXANS CANADA "SECUREX II" FASLVT/FT1300 VOLT WIRE TO CSA C22.2 NO. 208, & IF REQUIRED FOR THE APPLICATION, INTERLOCKING ALUMINIUM ARMOUR WITH OR WITHOUT AN OVERALL JACKET.
1.1. SUBMIT THE FOLLOWING TO THE CONSULTANT:	16.1. WHERE CONDUIT/CONDUCTORS PENETRATE NEW CONCRETE AND MASONRY SURFACES PROVIDE PROPER SLEEVES. SLEEVES IN WATERPROOFED SLABS OR WALLS ARE TO BE C/W A WATER STOP. SIZE SLEEVES TO LEAVE 12 mm (1/2") CLEARANCE AROUND THE CONDUIT/CONDUCTOR. PACK & SEAL THE VOID BETWEEN SLEEVES & THE CONDUIT IN INTERIOR NON-FIRE RATED CONSTRUCTION FOR THE LENGTH OF THE SLEEVES WITH MINERAL WOOL & SEAL BOTH ENDS OF THE SLEEVE WITH SILICONE BASE CAULKING. PACK SEALS IN FIRE RATED CONSTRUCTION AS ABOVE BUT USE ROCK WOOL & LEAVE SPACE AT SLEEVE ENDS FOR FIREPROOFING. SEAL SLEEVES IN EXTERIOR WALLS BELOW GRADE, (& ANY OTHER WALL WHERE WATER LEAKAGE MAY BE A PROBLEM) WITH MECHANICAL SEALS EQUAL TO THUNDERLINE CORP. (POWER PLANT SUPPLY CO.) "LINK SEAL" MODEL S-316.	24.1. DO EXCAVATION, BACKFILL & RELATED WORK REQUIRED FOR YOUR WORK. GRADE TRENCH EXCAVATIONS AS REQUIRED. BACKFILL TRENCHES WITHIN THE BUILDING WITH CLEAN SHARP SAND IN INDIVIDUAL LAYERS OF MAXIMUM 150 mm (6") THICKNESS COMPACTED TO A DENSITY OF 100% STANDARD PROCTOR. HAND COMPACT THE FIRST LAYERS UP TO A COMPACTED LEVEL OF MINIMUM 300 mm (12") ABOVE THE TOP OF THE SERVICE. HAND OR MACHINE COMPACT THE BALANCE UP TO GRADE.	4. GROUNDING & BONDING
1.1.1. SHOP DRAWINGS OR PRODUCT DATA SHEETS INDICATING IN DETAIL THE DESIGN, CONSTRUCTION & PERFORMANCE OF ELECTRICAL EQUIPMENT, & ALL ELECTRICAL PRODUCTS EXCEPT CONDUIT, CONDUCTORS, BOXES, & SIMILAR ITEMS	16.2. TERMINATE SLEEVES FOR EXPOSED SO THAT THE SLEEVE IS FLUSH AT BOTH ENDS WITH THE BUILDING SURFACE CONCERNED & PROVIDE CHROME PLATED BRASS OR BRUSHED STAINLESS STEEL ESCUTCHEON PLATES TIGHT AGAINST THE BUILDING SURFACE TO COMPLETELY COVER BOTH ENDS OF THE SLEEVE.	24.2. BACKFILL TRENCHES OUTSIDE THE BUILDING (NOT UNDER ROADS, PARKING LOTS OR TRAFFIC AREAS), UP TO A COMPACTED LEVEL OF 450 mm (18") THICK ABOVE THE SERVICE. HAND COMPACTED TO A DENSITY OF 95% STANDARD PROCTOR. FILL USING GRANULAR "A" GRAVEL. BACKFILL THE BALANCE IN 150 mm (6") LAYERS WITH APPROVED EXCAVATED MATERIAL, COMPACTED TO 95% STANDARD PROCTOR DENSITY.	4.1. DO ALL REQUIRED GROUNDING & BONDING WORK. PROVIDE A GREEN INSULATED GROUND CONDUIT IN EVERY RACEWAY. SIZED IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE & CSA C22.2 NO. 41, OR FOR HEALTH CARE PROJECTS, IN ACCORDANCE WITH CAN/CSA X332.
1.1.2. PROJECT CLOSE-OUT DOCUMENTATION: O&M MANUALS, RECORD AS-BUILT DRAWINGS, & ALL ASSOCIATED DATA	17. PRODUCT OPENINGS & RECESSES	24.3. PRIOR TO EXCAVATION, CAREFULLY CHECK INVERTS & LOCATIONS OF EXISTING SERVICES & REPORT ANY SERIOUS DISCREPANCY. CONTACT UTILITIES TO ACCURATELY LOCATE THEIR SERVICES.	4.2. USE EXOTHERMIC WELDS OR COMPRESSION CONNECTORS FOR U/G CONDUCTOR CONNECTIONS. USE 2-HOLE COMPRESSION TYPE COPPER LUGS FOR CONNECTIONS TO GROUND BUS.
1.1.3. EXTENDED WARRANTIES: COPIES OF EXTENDED WARRANTIES	17.1. PRODUCT OPENINGS & RECESSES WILL BE PROVIDED IN NEW POURED CONCRETE WORK, MASONRY, DRYWALL, & OTHER BUILDING SURFACES BY THE TRADE RESPONSIBLE FOR THE PARTICULAR CONSTRUCTION IN WHICH THE OPENING IS REQUIRED.	25. CUTTING, DRILLING, & PATCHING	4.3. FOR NATURAL GAS SERVICE PIPING PROVIDE A #6 GREEN INSULATED GROUND CONDUIT INSTALLED IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE & THE BC NATURAL GAS AND PROPANE CODE.
2. DEFINITIONS	17.2. PRODUCT OPENINGS & RECESSES WILL BE PROVIDED IN NEW POURED CONCRETE WORK, MASONRY, DRYWALL, & OTHER BUILDING SURFACES BY THE TRADE RESPONSIBLE FOR THE PARTICULAR CONSTRUCTION IN WHICH THE OPENING IS REQUIRED.	25.1. DO CUTTING, DRILLING & PATCHING OF THE EXISTING BUILDING FOR THE INSTALLATION OF YOUR WORK. PATCH SURFACES, WHERE REQUIRED, TO EXACTLY MATCH EXISTING FINISHES USING, WHERE NEW CONDUIT & SIMILAR PRODUCTS PENETRATE EXISTING CONSTRUCTION, CORE DRILL AN OPENING SIZED TO LEAVE 12 mm (1/2") CLEARANCE AROUND CONDUIT, ETC., IN POURED CONCRETE CONSTRUCTION. DETERMINE THE LOCATION, IF ANY, OF EXISTING CONCEALED SERVICES. PACK & SEAL THE VOID BETWEEN CONDUIT, ETC., OPENINGS FOR THE LENGTH OF THE OPENING IN INTERIOR CONSTRUCTION WITH ROCK WOOL & SEAL BOTH ENDS OF THE OPENING WITH NON-HARDENING SILICONE BASE CAULKING. SEAL SLEEVES IN EXTERIOR WALLS BELOW GRADE (& ANY OTHER WALL WHERE WATER LEAKAGE MAY BE A PROBLEM) WITH LINK TYPE MECHANICAL SEALS.	5. SPLITTER TROUGH, JUNCTION, PULL, AND OUTLET BOXES
2.1. THE FOLLOWING ARE DEFINITIONS OF WORDS FOUND IN THIS ELECTRICAL WORK SPECIFICATION & ON ASSOCIATED DRAWINGS:	18. FIRESTOPPING & SMOKE SEALS	26. ROOFING WORK	5.1. SPLITTER TROUGH: PROVIDE TYPE 1 STEEL SPLITTER TROUGH IN ACCORDANCE WITH CSA C22.2 NO. 76, WHERE INDICATED ON DRAWING PLANS, SCHEDULES, & DETAILS. ENCLOSURES ARE TO BE NEMA/EMEC TYPE 2 IN SPRINKLERED AREAS & TYPE 1 ELSEWHERE. RIGIDLY SECURE THE SPLITTER TROUGH IN PLACE. LEAD AND PLUMB. ENSURE THAT THE SPLITTER TROUGH ITSELF, AND ALL BRANCH CIRCUITS, ARE PROPERLY IDENTIFIED.
2.1.1. "PROVIDE" (& TENSES OF PROVIDE) - MEANS SUPPLY & INSTALL COMPLETE	18.1. WHERE ELECTRICAL WORK PENETRATES FIRE RATED CONSTRUCTION, PROVIDE U/LC LISTED & LABELED FIRESTOPPING & SMOKE SEALS. MATERIALS INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF CANA-S115 (RATINGS F, FT, FH, & FTH AS REQUIRED), CANULC-S101, & OTHER GOVERNING AUTHORITIES.	26.1. DO FLASHING WORK, INCLUDING COUNTER-FLASHING, FOR ELECTRICAL WORK PENETRATING AND/OR SET IN THE ROOF.	5.2. PULL BOXES & JUNCTION BOXES: PROVIDE CSA CERTIFIED ACCESSIBLE PULL BOX IN CONDUIT SYSTEMS WHEREVER SHOWN ON THE DRAWINGS, AND/OR WHEREVER NECESSARY TO FACILITATE CONDUCTOR INSTALLATIONS. PROVIDE CSA CERTIFIED ACCESSIBLE JUNCTION BOXES WHEREVER REQUIRED AND/OR INDICATED ON THE DRAWINGS. BOXES IN EXPOSED INTERIOR LOCATIONS WHERE THE CONNECTIONS ARE TO BE GALVANIZED OR PRIME COATED STEEL. BOXES IN EXTERIOR RIGID CONDUIT ARE TO BE "CONDULETE" CAST ALUMINIUM GASKETED BOXES, & BOXES IN PVC CONDUIT ARE TO BE RIGID PVC BOXES. ACCURATELY LOCATE & IDENTIFY CONCEALED PULL BOXES & JUNCTION BOXES ON "AS-BUILT" RECORD DRAWINGS.
2.1.2. "INSTALL" (& TENSES OF INSTALL) - MEANS INSTALL & CONNECT COMPLETE	19. SUPPLY OF ACCESS DOORS	26.2. WHERE ROOF REVISIONS AND/OR REPLACEMENTS ARE PART OF THE PROJECT, INCLUDE FOR DISCONNECTING, LIFTING, OR TEMPORARILY REMOVING ELECTRICAL EQUIPMENT ON THE ROOF AS REQUIRED TO PERMIT COMPLETION OF THE ROOFING WORK, & FOR RE-INSTALLING THE EQUIPMENT WHEN THE ROOFING WORK IS COMPLETE.	5.3. OUTLET BOXES: PROVIDE AN OUTLET BOX FOR EACH LUMINAIRE, WIRING DEVICE, TELEPHONE OUTLET, FIRE ALARM SYSTEM COMPONENT, COMMUNICATIONS SYSTEM COMPONENTS, & ALL OTHER SUCH OUTLETS. OUTLET BOXES FLUSH MOUNTED IN INTERIOR CONSTRUCTION, SURFACE MOUNTED IN CONCEALED INTERIOR LOCATIONS, & SURFACE MOUNTED IN EXPOSED INTERIOR LOCATIONS WHERE THE CONNECTIONS ARE TO BE GALVANIZED OR PRIME COATED STEEL. OUTLET BOXES IN EXTERIOR RIGID CONDUIT ARE TO BE "CONDULETE" CAST ALUMINIUM GASKETED BOXES, & BOXES IN PVC CONDUIT ARE TO BE RIGID PVC BOXES. ACCURATELY LOCATE & IDENTIFY CONCEALED PULL BOXES & JUNCTION BOXES ON "AS-BUILT" RECORD DRAWINGS.
2.1.3. "SUPPLY" - MEANS SUPPLY ONLY	19.1. SUPPLY PRIME COATED STEEL ACCESS DOORS FOR ELECTRICAL WORK WHICH MAY NEED MAINTENANCE OR REPAIR BUT WHICH IS CONCEALED IN INACCESSIBLE CONSTRUCTION. ACCESS DOORS IN FIRE RATED CONSTRUCTION ARE TO BE U/LC LISTED & LABELED & OF A RATING TO MAINTAIN THE FIRE SEPARATION INTEGRITY. RECESSED DOOR TYPE ACCESS DOORS LOCATED IN SURFACES WHERE SPECIAL FINISHES ARE REQUIRED ARE TO BE CONSTRUCTED OF STAINLESS STEEL WITH A #4 FINISH.	27. WASTE MANAGEMENT & DISPOSAL	6. SERVICE COLUMNS
2.1.4. "CONSULTANT" - MEANS THE ARCHITECT OR CONSULTING ENGINEER WHO HAS PREPARED THE CONTRACT DOCUMENTS ON BEHALF OF THE OWNER	20. POWER & CONTROL WIRING FOR MECHANICAL WORK	27.1. SEPARATE & RECYCLE WASTE MATERIALS IN ACCORDANCE WITH REQUIREMENTS OF CANADIAN CONSTRUCTION ASSOCIATION STANDARD CAN/CSA 81. A BEST PRACTICES GUIDE TO SOLID WASTE REDUCTION. DO NOT LET WASTE MATERIALS ACCUMULATE AT THE SITE.	6.1. PROVIDE 2-COMPARTMENT, BARRIERED, EXTRUDED ALUMINIUM INDOOR SERVICE COLUMNS FOR POWER, TELEPHONE, & DATA COMMUNICATION SERVICE IN LOCATIONS AS SHOWN.
2.1.5. "EQUAL TO" - MEANS THAT A PRODUCT PROPOSED FOR INSTALLATION, OTHER THAN THE SPECIFIED PRODUCT, MUST BE EQUAL TO THE SPECIFIED PRODUCT IN SIZE, MATERIALS OF CONSTRUCTION, PERFORMANCE, DURABILITY, & WARRANTY REQUIREMENTS, & THE FINAL DECISION IN THIS MATTER RESTS WITH THE CONSULTANT.	20.1. DO ALL REQUIRED LINE VOLTAGE WIRING FOR MECHANICAL WORK. PROVIDE RECEPTACLES FOR PLUG-IN EQUIPMENT. PROVIDE DISCONNECT SWITCHES FOR MOTORS THAT ARE IN EXCESS OF 10 hp (30) FROM THE STARTER LOCATION, OR THAT CANNOT BE SEEN FROM THE STARTER LOCATION & ASSOCIATED POWER WIRING. PROVIDE MOTOR STARTER INTERLOCKING IN SIZE, MATERIALS OF CONSTRUCTION, PERFORMANCE, DURABILITY, & WARRANTY REQUIREMENTS, & THE FINAL DECISION IN THIS MATTER RESTS WITH THE CONSULTANT.	28. DEMOLITION WORK	6.2. EACH COLUMN IS TO BE C/W AN ANODIZED ALUMINIUM FINISH OR A BAKED POWDER COAT CUSTOM COLOUR SELECTED FROM THE MANUFACTURER'S COLOUR CHART AS DIRECTED, FOUR 15A, 125V, SPECIFICATION GRADE, PREMIUM QUALITY SINGLE U-GROUND RECEPTACLES WITH PLATES FACTORY CONNECTED (INCLUDING UN-BROKEN GROUND) TO A 3 m (10') PLUG & CORD SET OR HARD WIRED TO A CEILING BOX, AS INDICATED/REQUIRED, FACILITIES FOR REQUIRED DATA & COMMUNICATIONS CONNECTIONS. PROVIDE A SNAP ON COVER FOR THE DATA/COMMUNICATION COMPARTMENT, A BASEPLATE FOR SECURING THE COLUMN TO THE FLOOR, & FACILITIES AT THE TOP OF THE COLUMN FOR SECURING THE COLUMN TO CEILING CONSTRUCTION, WITH TRIM PLATE FOR THE CEILING OPENING.
3. CODES, REGULATIONS, & STANDARDS	21. IDENTIFICATION	28.1. WHERE INDICATED ON THE DRAWINGS, DISCONNECT & REMOVE IDENTIFIED CONDUCTORS, CONDUITS, CONDUIT FITTINGS, & SIMILAR ITEMS. CUT BACK OBSOLETE CONDUIT BEHIND FINISHES. IDENTIFY, & CAP WATER-TIGHT. ESTIMATE THE EXTENT & COST OF THE WORK AT THE SITE DURING BIDDING PERIOD SCHEDULED SITE VISIT(S). PERFORM DEMOLITION WORK IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA-S380, CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES.	6.3. ACCURATELY LOCATE COLUMNS IN ACCORDANCE WITH FURNITURE, ETC., LAYOUTS & ARCHITECTURAL/INTERIOR DESIGN DRAWINGS & SECURE IN PLACE. VERTICAL AND PLUMB. EXTEND CIRCUITS FROM PANELBOARDS TO CONNECT COLUMN RECEPTACLES. PROVIDE JUNCTION BOXES IN THE CEILING SPACE & COORDINATE TO SUIT COLUMN LOCATIONS. TEST COLUMNS TO ENSURE ELECTRICAL CONTINUITY OF BONDING & GROUNDING CONNECTIONS.
3.1. ABIDE BY THE LATEST EDITION OF CODES, REGULATIONS, & STANDARDS REFERRED TO OR APPLIED BY GOVERNING AUTHORITIES.	21.1. IDENTIFY NEW/RELOCATED ELECTRICAL WORK IN ACCORDANCE WITH EXISTING IDENTIFICATION STANDARDS AT THE SITE. OR, IF ALL NEW WORK OR NO EXISTING SITE STANDARD, IDENTIFY SUCH THAT IT CAN BE EASILY SEEN.	28.2. UNLESS OTHERWISE SPECIFIED, REMOVE & DISPOSE OF DEMOLISHED MATERIALS WHICH ARE NOT TO BE RELOCATED OR REUSED.	7. WIRING DEVICES
4. EXAMINATION OF SITE	21.2. EQUIPMENT NAMEPLATES: PROVIDE IDENTIFICATION NAMEPLATES FOR EQUIPMENT. IDENTIFICATION WORDING IS TO FOLLOW DRAWING NOMENCLATURE UNLESS OTHERWISE SPECIFIED. SECURE NAMEPLATES TO EQUIPMENT WITH STAINLESS STEEL SCREWS UNLESS SUCH A PRACTICE IS PROHIBITIVE, IN WHICH CASE USE EPOXY CEMENT APPLIED TO CLEANED SURFACES. FOR MULTI-CELL OR MULTIPLE COMPONENT EQUIPMENT PROVIDE A MAIN NAMEPLATE & A SMALLER NAMEPLATE FOR EACH CELL OR COMPONENT.	28.3. CLEAN ALL EXISTING PRODUCTS TO BE REINSTALLED. RE-LAMP EXISTING FIXTURES TO BE REINSTALLED.	7.1. PROVIDE WIRING DEVICES WHERE SHOWN/SPECIFIED. WIRING DEVICES ARE TO BE CSA CERTIFIED AS A MINIMUM, IN ACCORDANCE WITH CAN/CSA C22.2 NO. 42, GENERAL USE RECEPTACLES. ATTACHMENT PLUGS ARE TO BE SIMILAR WIRING DEVICES, CAN/CSA C22.2 NO. 42.1. COVER PLATES FOR FLUSH MOUNTED DEVICES, & CSA C22.2 NO. 111. GENERAL USE SNAP SWITCHES, WHEREVER POSSIBLE. ALL WIRING DEVICES ARE TO BE SUPPLIED BY THE SAME MANUFACTURER. ACCEPTED MANUFACTURERS ARE HUBBELL CANADA, COOPER INDUSTRIES (ARROW HART), LEGRAND/PASS & SEYMOUR, & LEVITON CANADA.
4.1. PRIOR TO SUBMITTING A BID, VISIT THE SITE & REVIEW & INCLUDE FOR EXISTING SITE CONDITIONS.	21.3. TERMINAL CABINETS, PULL BOXES, JUNCTION BOXES, ETC.: CLEARLY IDENTIFY TERMINAL CABINETS, MAIN PULL & JUNCTION BOXES BY NEATLY SPRAY PAINTING THE OUTSIDE SURFACE OF THE COVER WITH A PAINT COLOUR AS SPECIFIED FOR CONDUIT & CONDUCTOR IDENTIFICATION. PROVIDE A NAMEPLATE ON TERMINAL BOXES, MAIN PULL & JUNCTION BOXES.	29. GENERAL RE: ELECTRICAL WORK INSTALLATION	7.2. CONFIRM EXACT LOCATIONS, INCLUDING MOUNTING HEIGHTS PRIOR TO ROUGHING-IN. FOR BARRIER-FREE MOUNTING HEIGHTS, CONFORM TO CONFACT CODE REQUIREMENTS. CONFIRM SWITCH, RECEPTACLE & FACEPLATE TYPES, COLOURS & FINISHES PRIOR TO ORDERING. ENSURE THAT SWITCHES LOCATED ADJACENT TO DOORS ARE LOCATED AT THE STRIKE SIDE OF THE DOOR. PROVIDE FIRE RATED GASKETS FOR OUTLET BOXES FOR SWITCHES & RECEPTACLES LOCATED IN FIRE RATED CONSTRUCTION. WHEN INSTALLATION IS COMPLETE, TEST OPERATION OF DEVICES.
5. DRAWINGS & SPECIFICATION	21.4. PANELBOARDS: NAMEPLATES MUST IDENTIFY THE ELECTRICAL SOURCE, EACH CIRCUIT BREAKER, & NEATLY TYPED ON THE DOOR DIRECTORY CARD, THE LOAD CONNECTED TO EACH BREAKER.	29.1. UNLESS OTHERWISE SPECIFIED, LOCATE & ARRANGE HORIZONTAL CONDUITS, RACEWAYS, & CONDUCTORS ABOVE OR AT THE CEILING ON FLOORS ON WHICH THEY ARE SHOWN, ARRANGED SO THAT UNDER CONSIDERATION OF ALL OTHER WORK IN THE AREA, THE MAXIMUM CEILING HEIGHT AND/OR USABLE SPACE IS MAINTAINED. INSTALL ALL EXPOSED CONDUITS, RACEWAYS, & CONDUCTORS PARALLEL TO BUILDING LINES & TO EACH OTHER. CONDUIT, RACEWAY, CONDUCTORS, ETC., MUST BE SUPPORTED FROM THE STRUCTURE.	8. DISTRIBUTION EQUIPMENT ARC FLASH ANALYSIS
5.1. ELECTRICAL DRAWINGS ARE PERFORMANCE DRAWINGS, DIAGRAMMATIC, SHOW APPROXIMATE LOCATIONS OF EQUIPMENT & SERVICES. ARE INTENDED TO CONVEY SCOPE OF WORK, & DO NOT SHOW ARCHITECTURAL AND STRUCTURAL DETAILS. PROVIDE OFFSETS, FITTINGS, & SIMILAR PRODUCTS REQUIRED AS A RESULT OF OBSTRUCTIONS & OTHER ARCHITECTURAL & STRUCTURAL DETAILS BUT NOT SHOWN ON DRAWINGS.	21.5. MOTOR STARTERS AND DISCONNECT SWITCHES: IF PROVIDED AS PART OF THE ELECTRICAL WORK, PROVIDE NAMEPLATES FOR MOTOR STARTERS & DISCONNECTS. NAMEPLATES MUST INDICATE THE VOLTAGE & PHASE.	29.2. GENERAL ELECTRICAL WORK TESTING: SATISFACTORILY PERFORM TESTING REQUIRED BY GOVERNING AUTHORITIES, CODES, & REGULATIONS TO SUIT PHASING OF THE WORK. TEST TO ENSURE THAT THERE ARE NO LEAKS, GROUNDS, OR GROSSES. TEST & ESTABLISH PROPER MOTOR ROTATION, MEASURE FULL LOAD RUNNING CURRENTS, & CHECK OVERLOAD ELEMENTS. EXISTING MOTORS THAT HAVE BEEN DISCONNECTED & RECONNECTED MUST BE CHECKED WITH ROTATION METER, & BE RESPONSIBLE FOR ANY PROBLEMS CAUSED BY REVERSE ROTATION. DEMONSTRATE TO THE CONSULTANT THAT BRANCH CIRCUIT VOLTAGE DROP IS WITHIN SPECIFIED LIMITS.	8.1. PREPARE & SUBMIT (WITH SHOP DRAWINGS) TO THE CONSULTANT AN ARC FLASH ANALYSIS REPORT CONTAINING AN INTRODUCTION, SUMMARY OF ANALYSIS PERFORMED, RESULTS, CALCULATIONS, & RECOMMENDATIONS IN ACCORDANCE WITH REQUIREMENTS OF CSA Z462 & IEEE 1584. IDENTIFYING THE ARC FLASH HAZARD BOUNDARY, INCIDENT ENERGY LEVEL, & REQUIRED PERSONAL PROTECTIVE EQUIPMENT. PROVIDE ARC FLASH WARNING LABELS FOR EQUIPMENT INCLUDED IN THE REPORT.
6. PLANNING & LAYOUT OF THE WORK	21.6. LUMINAIRES ON EMERGENCY CIRCUITS: IDENTIFY LUMINAIRES ON EMERGENCY CIRCUITS WITH A 15 m (50') DIA. SELF-ADHESIVE LABEL SECURED TO THE T-BAR CEILING COMPONENT ADJACENT TO THE LUMINAIRE, OR IF NOT IN A T-BAR CEILING, TO THE FRAME OF THE LUMINAIRE.	29.3. GROUNDING & BONDING SYSTEM TESTING: PROVIDE VISUAL & MECHANICAL INSPECTION OF THE GROUNDING & BONDING SYSTEM & VERIFY THAT THE SYSTEM IS IN COMPLIANCE WITH REQUIREMENTS.	9. DISTRIBUTION EQUIPMENT SHORT CIRCUIT CURRENT COORDINATION STUDY
6.1. PROPERLY PLAN, COORDINATE, & ESTABLISH LOCATIONS & ROUTING OF SERVICES SUCH THAT SERVICES WILL CLEAR EACH OTHER AS WELL AS ANY OBSTRUCTIONS.	21.7. COMMUNICATION EQUIPMENT/SYSTEMS: IDENTIFY "HEAD END" EQUIPMENT WITH NAMEPLATES & "DOWNSTREAM" DEVICES WITH SELF-ADHESIVE LABELS INDICATING CIRCUIT NUMBERS.	29.4. BRANCH CIRCUIT BALANCING: CONNECT BRANCH CIRCUITS TO PANELBOARDS SO AS TO BALANCE THE ACTUAL LOADS (WATTAGE) TO WITHIN 5%, IF REQUIRED. TRANSPOSE BRANCH CIRCUITS TO ACHIEVE THIS REQUIREMENT. AFTER THE BUILDING IS OCCUPIED & IF REQUESTED BY THE CONSULTANT, DEMONSTRATE THAT BRANCH CIRCUIT BALANCING HAS BEEN ACHIEVED.	9.1. PREPARE & SUBMIT (WITH SHOP DRAWINGS) TO THE CONSULTANT & TO THE ELECTRICAL SAFETY AUTHORITY FOR RECORD, A SHORT CIRCUIT COORDINATION STUDY & REPORT FOR THE ELECTRICAL DISTRIBUTION SYSTEM PREPARED BY A P.E. ENG. REGISTERED IN BRITISH COLUMBIA & USING DATA SUPPLIED BY THE UTILITY. USE THE "REVIEWED" STUDY TO SELECT THE SIZE & INTERRUPTING CAPACITY OF DISTRIBUTION SYSTEM PROTECTIVE DEVICES & MAKE FIELD ADJUSTMENTS UNDER THE DIRECTION OF THE P.E. ENG. WHO PREPARED THE COORDINATION STUDY.
6.2. CONCEAL WORK IN PARTIALLY FINISHED OR UNFINISHED AREAS TO THE EXTENT MADE POSSIBLE BY AREA CONSTRUCTION. INSTALL CONDUIT & CONDUCTORS PARALLEL TO EACH OTHER & TO BUILDING LINES.	21.8. CONDUIT & ARMoured CABLE: COLOUR CODE BY MEANS OF 25 mm (1") WIDE PRIMARY COLOUR PLASTIC ADHESIVE BACKED TAPE OR NEATLY APPLIED SUITABLE PAINT WITH, WHERE SCHEDULED, A 20 mm (3/4") WIDE AUXILIARY COLOUR AT ALL POINTS WHERE THE CONDUIT OR CABLE PENETRATES A WALL, CEILING, FLOOR, AT 6 m (20') INTERVALS OR AT LEAST ONCE IN EACH ROOM OR ACCESSIBLE CEILING SPACE. AT EACH ACCESS DOOR LOCATION, & ELSEWHERE AT 15 m (45') INTERVALS. COLOURS ARE TO BE AS LATER DIRECTED.	29.5. DEVICE MOUNTING HEIGHTS: CONFORM TO BRITISH COLUMBIA ELECTRICAL CODE REQUIREMENTS.	10. DISTRIBUTION TRANSFORMERS
7. GENERAL RE: INSTALLATION OF EQUIPMENT	21.9. WIRE & CABLE TERMINATIONS: IDENTIFY BOTH END OF WIRE & CABLE TERMINATION WITH THE SAME UNIQUE NUMBER. WHERE NUMBERS ARE NOT INDICATED OR SPECIFIED, ASSIGN A NUMBER & RECORD THEM.	29.6. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	10.1. PROVIDE K4 RATED DISTRIBUTION TRANSFORMERS WHERE SHOWN. CERTIFIED & LABELLED TO CAN/CSA C22.2 NO. 47 & IN ACCORDANCE WITH REQUIREMENTS OF CSA C9 & CAN/CSA C802. TRANSFORMERS ARE TO BE COVERED BY A 5 YEAR NON-PRORATED EXTENDED WARRANTY & ARE TO BE C/W A MINIMUM NEMA/EMEC 3R ENCLOSURE WITH VENTILATION LOUVERS DESIGNED TO PROTECT INTERNAL LIVE PARTS FROM FIRE PROTECTION SPRINKLER SYSTEM SPRAY, AN ALUMINIUM NAMEPLATE, COPPER WINDINGS, A CORE CONSTRUCTED OF STACKED LAMINATIONS OF HIGH PERMEABILITY SILICONE STEEL, EPOXY RESIN IMPREGNATION, CLASS B SILICONE TYPE COIL INSULATION, AN ELECTRICAL SHIELD FOR THE ATTENUATION OF VOLTAGE SPIKES, LINE NOISE, & TRANSIENTS, LUGS OR PRESSURE TYPE TERMINALS TO SUIT PRIMARY & SECONDARY CONDUCTORS. FOUR 2 1/2" x 3/4" FULL CAPACITY TAPS, 2 ABOVE NORMAL, & 2 BELOW NORMAL, & MOUNTING HARDWARE FOR THE LOCATION(S) SHOWN. ACCEPTABLE MANUFACTURERS ARE EATON CANADA, SCHNEIDER ELECTRIC CANADA, SIEMENS CANADA INC., HAMMOND POWER SOLUTIONS INC., DELTA TRANSFORMERS, & POWERSMITHS INTERNATIONAL CORP.
7.1. UNLESS OTHERWISE SPECIFIED INSTALL EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS & INSTRUCTIONS. GOVERNING CODES, STANDARDS, & REGULATIONS TAKE PRECEDENCE OVER MANUFACTURER'S INSTRUCTIONS.	21.10. DISTRIBUTION SYSTEM SCHEMATIC DIAGRAMS: PREPARE AUTOCAD, COLOURED, 1200 mm X 900 mm (48" X 36") SCHEMATIC DIAGRAMS OF ELECTRICAL DISTRIBUTION SYSTEMS TO IDENTIFY EQUIPMENT & CIRCUITS. INSTALL FRAMED & GLAZED DIAGRAMS IN ELECTRICAL ROOMS HOUSING THE SYSTEM EQUIPMENT. CONFIRM LOCATION PRIOR TO INSTALLATION. INCLUDE REDUCED SIZE COPIES OF THE DIAGRAMS IN EACH COPY OF THE O&M MANUALS.	29.7. BRANCH CIRCUIT BALANCING: CONNECT BRANCH CIRCUITS TO PANELBOARDS SO AS TO BALANCE THE ACTUAL LOADS (WATTAGE) TO WITHIN 5%, IF REQUIRED. TRANSPOSE BRANCH CIRCUITS TO ACHIEVE THIS REQUIREMENT. AFTER THE BUILDING IS OCCUPIED & IF REQUESTED BY THE CONSULTANT, DEMONSTRATE THAT BRANCH CIRCUIT BALANCING HAS BEEN ACHIEVED.	10.2. AVERAGE SOUND LEVELS ARE TO BE IN ACCORDANCE WITH NEMA STANDARD ST-20.
8. PERMITS, FEES, & CERTIFICATES	22. FASTENING & SECURING HARDWARE	30. DEMOLITION WORK	
8.1. APPLY FOR, OBTAIN & PAY FOR PERMITS REQUIRED TO COMPLETE THE ELECTRICAL WORK.	22.1. PROVIDE FASTENING & SECURING HARDWARE TO MAINTAIN INSTALLATIONS ATTACHED TO THE STRUCTURE OR TO FINISHED FLOORS, WALLS & CEILINGS IN A SECURE & RIGID MANNER CAPABLE OF WITHSTANDING THE DEAD LOADS, LIVE LOADS, SUPERIMPOSED DEAD LOADS, & ANY VIBRATION OF THE INSTALLED PRODUCTS. WHERE CONSTRUCTION IS NOT SUITABLE TO SUPPORT THE LOADS, PROVIDE ADDITIONAL FRAMING OR SPECIAL FASTENERS TO ENSURE PROPER SECUREMENT TO THE STRUCTURE. DO NOT ATTACH FASTENERS TO STEEL DECK WITHOUT WRITTEN CONSENT FROM THE CONSULTANT.	30.1. WHERE INDICATED ON THE DRAWINGS, DISCONNECT & REMOVE IDENTIFIED CONDUCTORS, CONDUITS, CONDUIT FITTINGS, & SIMILAR ITEMS. CUT BACK OBSOLETE CONDUIT BEHIND FINISHES. IDENTIFY, & CAP WATER-TIGHT. ESTIMATE THE EXTENT & COST OF THE WORK AT THE SITE DURING BIDDING PERIOD SCHEDULED SITE VISIT(S). PERFORM DEMOLITION WORK IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA-S380, CODE OF PRACTICE FOR SAFETY IN DEMOLITION OF STRUCTURES.	
9. WORKPLACE SAFETY	23. CONCRETE WORK FOR EQUIPMENT BASES/PADS	30.2. GENERAL ELECTRICAL WORK TESTING: SATISFACTORILY PERFORM TESTING REQUIRED BY GOVERNING AUTHORITIES, CODES, & REGULATIONS TO SUIT PHASING OF THE WORK. TEST TO ENSURE THAT THERE ARE NO LEAKS, GROUNDS, OR GROSSES. TEST & ESTABLISH PROPER MOTOR ROTATION, MEASURE FULL LOAD RUNNING CURRENTS, & CHECK OVERLOAD ELEMENTS. EXISTING MOTORS THAT HAVE BEEN DISCONNECTED & RECONNECTED MUST BE CHECKED WITH ROTATION METER, & BE RESPONSIBLE FOR ANY PROBLEMS CAUSED BY REVERSE ROTATION. DEMONSTRATE TO THE CONSULTANT THAT BRANCH CIRCUIT VOLTAGE DROP IS WITHIN SPECIFIED LIMITS.	
9.1. COMPLY WITH REQUIREMENTS OF THE WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS), OCCUPATIONAL HEALTH & SAFETY REGULATIONS & ALL OTHER REGULATIONS PERTAINING TO HEALTH & SAFETY, INCLUDING WORKPLACE SAFETY & INSURANCE BOARD & FALL PROTECTION REGULATIONS.	23.1. UNLESS OTHERWISE SPECIFIED, PROVIDE POURED CONCRETE WORK, INCLUDING REINFORCING & FORMWORK, REQUIRED FOR ELECTRICAL WORK. CONCRETE IS TO BE MINIMUM 20 700 kPa READY-MIX CONCRETE IN ACCORDANCE WITH CAN/CSA-A23.1 & THE BUILDING CODE. PROVIDE A 100 mm (4") HIGH CONCRETE HOUSEKEEPING PAD TYPE BASE FOR ALL FLOOR MOUNTED DISTRIBUTION EQUIPMENT. BASES ARE TO BE 100 mm (4") WIDER & LONGER THAN EQUIPMENT BASE DIMENSIONS, & C/W CHAMFERED EDGES.	30.3. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
10. SCAFFOLDING, RIGGING, & HOISTING		30.4. BRANCH CIRCUIT BALANCING: CONNECT BRANCH CIRCUITS TO PANELBOARDS SO AS TO BALANCE THE ACTUAL LOADS (WATTAGE) TO WITHIN 5%, IF REQUIRED. TRANSPOSE BRANCH CIRCUITS TO ACHIEVE THIS REQUIREMENT. AFTER THE BUILDING IS OCCUPIED & IF REQUESTED BY THE CONSULTANT, DEMONSTRATE THAT BRANCH CIRCUIT BALANCING HAS BEEN ACHIEVED.	
10.1. ERECT & OPERATE SCAFFOLDING, RIGGING, HOISTING EQUIPMENT & ASSOCIATED HARDWARE REQUIRED FOR YOUR WORK.		30.5. DEVICE MOUNTING HEIGHTS: CONFORM TO BRITISH COLUMBIA ELECTRICAL CODE REQUIREMENTS.	
11. CLOSEOUT SUBMITTALS		30.6. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
11.1. OPERATING & MAINTENANCE MANUALS: SUBMIT 3 HARD COPIES OF O&M MANUALS IN HARD COVER 3-RING BINDERS, & IDENTIFIED WITH PROJECT NAME, & "ELECTRICAL OPERATING AND MAINTENANCE MANUAL" WORDING. INCLUDE AN INTRODUCTION SHEET LISTING THE CONSULTANTS', CONTRACTORS', AND SUBCONTRACTORS' NAMES, STREET ADDRESSES, TELEPHONE & FAX NUMBERS, & E-MAIL ADDRESSES. A TABLE OF CONTENTS SHEET & CORRESPONDING INDEX TAB SHEETS, A COPY OF EACH "REVIEWED" OR "REVIEWED AS NOTED" SHOP DRAWING/PRODUCT DATA SHEET WITH THE EMAIL ADDRESS FOR LOCAL SOURCE OF PARTS & SERVICE, & REQUIRED OPERATING & MAINTENANCE DATA.		30.7. BRANCH CIRCUIT BALANCING: CONNECT BRANCH CIRCUITS TO PANELBOARDS SO AS TO BALANCE THE ACTUAL LOADS (WATTAGE) TO WITHIN 5%, IF REQUIRED. TRANSPOSE BRANCH CIRCUITS TO ACHIEVE THIS REQUIREMENT. AFTER THE BUILDING IS OCCUPIED & IF REQUESTED BY THE CONSULTANT, DEMONSTRATE THAT BRANCH CIRCUIT BALANCING HAS BEEN ACHIEVED.	
11.2. RECORD "AS-BUILT" DRAWINGS: AS WORK PROGRESSES, CLEARLY MARK ON WHITE PRINTS OF THE CONTRACT DRAWINGS, SIGNIFICANT CHANGES FROM THE ROUTING OF SERVICES & LOCATIONS OF EQUIPMENT SHOWN. KEEP THE SET UP TO-DATE & AVAILABLE FOR PERIODIC REVIEW. WHEN WORK IS COMPLETE, TRANSFER AS-BUILT INFORMATION TO A RECORDABLE & IDENTIFIED CAD DISC WITH CAD WORK OF EQUAL QUALITY TO THE CONTRACT DRAWINGS. CAD DISCS WILL BE SUPPLIED FREE OF CHARGE BY THE CONSULTANT.		30.8. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
12. PHASING OF THE WORK		30.9. BRANCH CIRCUIT BALANCING: CONNECT BRANCH CIRCUITS TO PANELBOARDS SO AS TO BALANCE THE ACTUAL LOADS (WATTAGE) TO WITHIN 5%, IF REQUIRED. TRANSPOSE BRANCH CIRCUITS TO ACHIEVE THIS REQUIREMENT. AFTER THE BUILDING IS OCCUPIED & IF REQUESTED BY THE CONSULTANT, DEMONSTRATE THAT BRANCH CIRCUIT BALANCING HAS BEEN ACHIEVED.	
12.1. PHASING OF THE WORK IS REQUIRED TO MAINTAIN THE EXISTING BUILDING IN OPERATION. INCLUDE ALL COSTS FOR PHASING INCLUDING "OFF HOURS" PREMIUM TIME LABOUR COSTS.		30.10. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
13. EQUIPMENT & SYSTEM START-UP		30.11. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
13.1. PRIOR TO COMMISSIONING, & UNDER SUPERVISION OF EQUIPMENT/SYSTEM MANUFACTURERS' REPRESENTATIVES, START-UP EQUIPMENT/SYSTEMS. MAKE REQUIRED ADJUSTMENTS, DOCUMENT PROCEDURES. LEAVE EQUIPMENT/SYSTEMS IN PROPER OPERATING CONDITION, & SUBMIT START-UP DOCUMENTATION SHEETS SIGNED BY YOU & THE MANUFACTURER/SUPPLIER.		30.12. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
14. EQUIPMENT & SYSTEM COMMISSIONING		30.13. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
14.1. AFTER SUCCESSFUL START-UP AND PRIOR TO SUBSTANTIAL PERFORMANCE, COMMISSION ELECTRICAL WORK IN ACCORDANCE WITH REQUIREMENTS OF CSA 2320, BUILDING COMMISSIONING. USE COMMISSIONING SHEETS INCLUDED WITH THE CSA STANDARD, & ANY SUPPLEMENTAL COMMISSIONING SHEETS REQUIRED.		30.14. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
15. O&M DEMONSTRATION & TRAINING		30.15. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
15.1. TRAIN THE OWNER'S DESIGNATED PERSONNEL IN OPERATION & MAINTENANCE OF EQUIPMENT & SYSTEMS USING TECHNICIANS EMPLOYED BY THE EQUIPMENT/SYSTEM MANUFACTURER/SUPPLIER. THE NUMBER OF HOURS OF TRAINING ARE TO BE SUFFICIENT FOR THE OWNERS PERSONNEL TO COMPLETELY UNDERSTAND OPERATION & MAINTENANCE OF THE EQUIPMENT/SYSTEM.		30.16. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
		30.17. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
		30.18. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
		30.19. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
		30.20. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
		30.21. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
		30.22. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, & A SIMILAR WORK IN HEALTH CARE FACILITY PATIENT CARE AREAS IN ACCORDANCE WITH THE BRITISH COLUMBIA ELECTRICAL CODE, INCLUDING AMENDMENTS, & UTILIZING A SPECIALIST TESTING COMPANY, & WITNESSED BY THE OWNER & CONSULTANT. INSPECT & TEST ELECTRICAL WORK IN PATIENT CARE AREAS IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA 232, ELECTRICAL SAFETY & ESSENTIAL ELECTRICAL SYSTEMS IN HEALTH CARE FACILITIES, & ANY OTHER GOVERNING CODES AND REGULATIONS. PREPARE, SIGN & SUBMIT TEST REPORTS.	
		30.23. HEALTH CARE FACILITY WORK & TESTING: PROVIDE CONDUIT, CONDUCTORS, &	