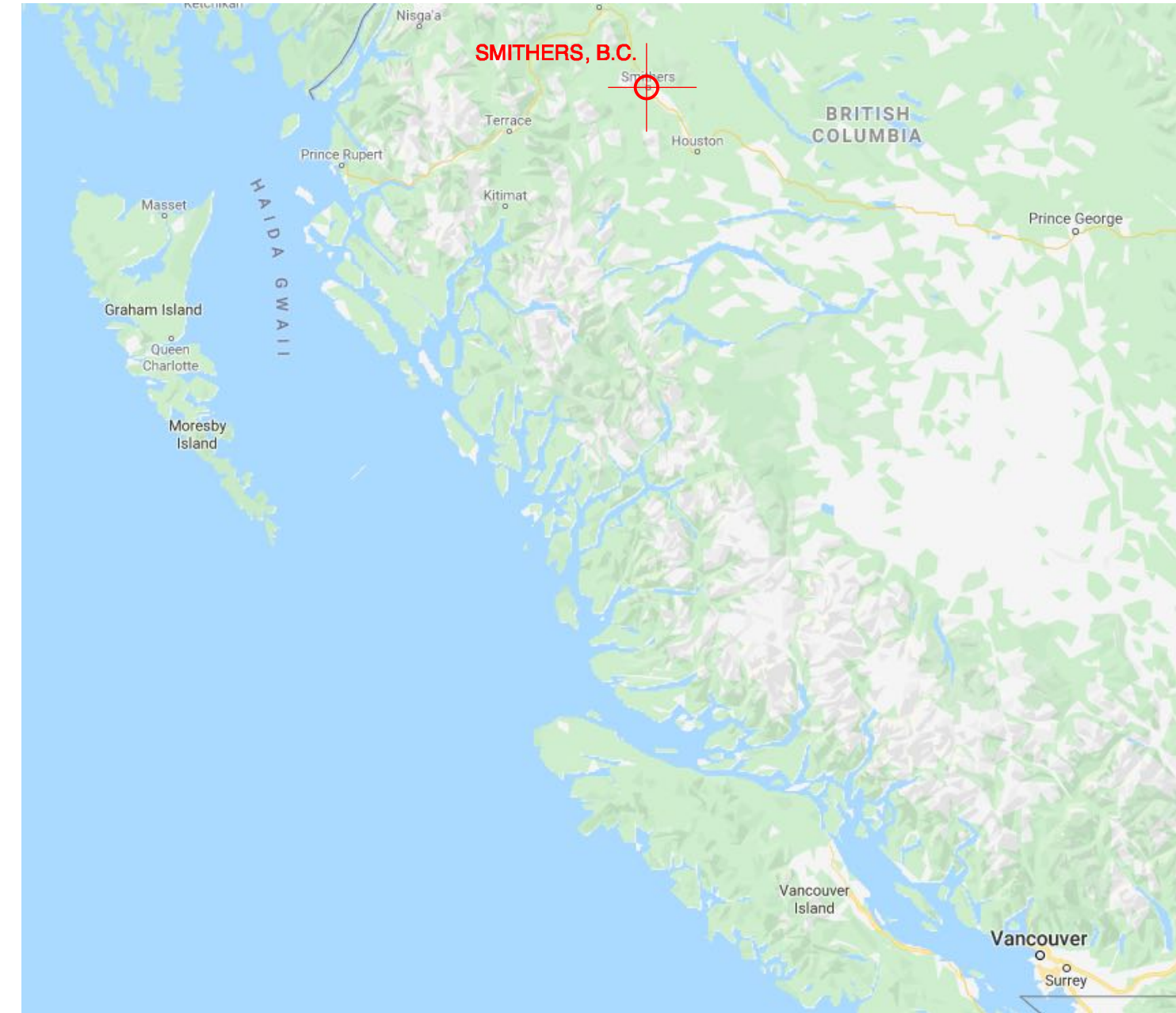
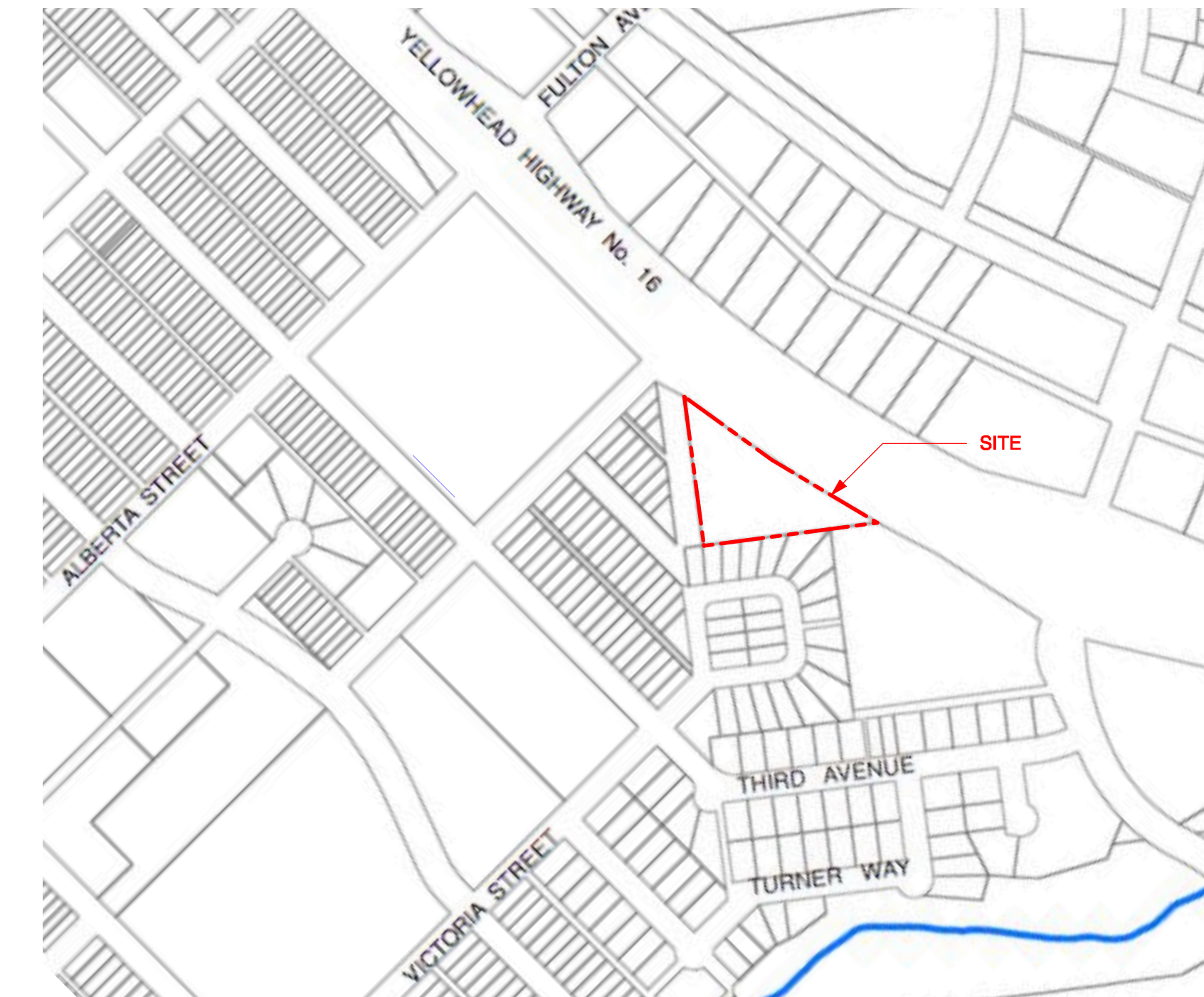


SMITHERS BOILER REPLACEMENT SMITHERS, B.C.



1 REGIONAL PLAN
SCALE: NTS



2 LOCATION PLAN
SCALE: +/- 1:5000



DRAWING LIST

- ARCHITECTURAL**
A1.01 COVER SHEET
A1.02 SITE PLAN AND ROOF PLAN
- MECHANICAL**
M-1 MECHANICAL LEGEND AND SCHEDULES
M-2 MECHANICAL ROOM PLAN AND SCHEMATICS
- ELECTRICAL**
E-1 ELECTRICAL SCHEDULES AND PLANS

2	ISSUED FOR TENDER	03/05/2021
1	ISSUED FOR 90% TENDER REVIEW	11/27/2020
Revision/ Révision	Description/Description	Date/Date

Client/Client

Project title/Titre du projet
**SMITHERS
BOILER REPLACEMENT**

SMITHERS, B.C.

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Designed by/Concept par
LS

Drawn by/Dessiné par
AS

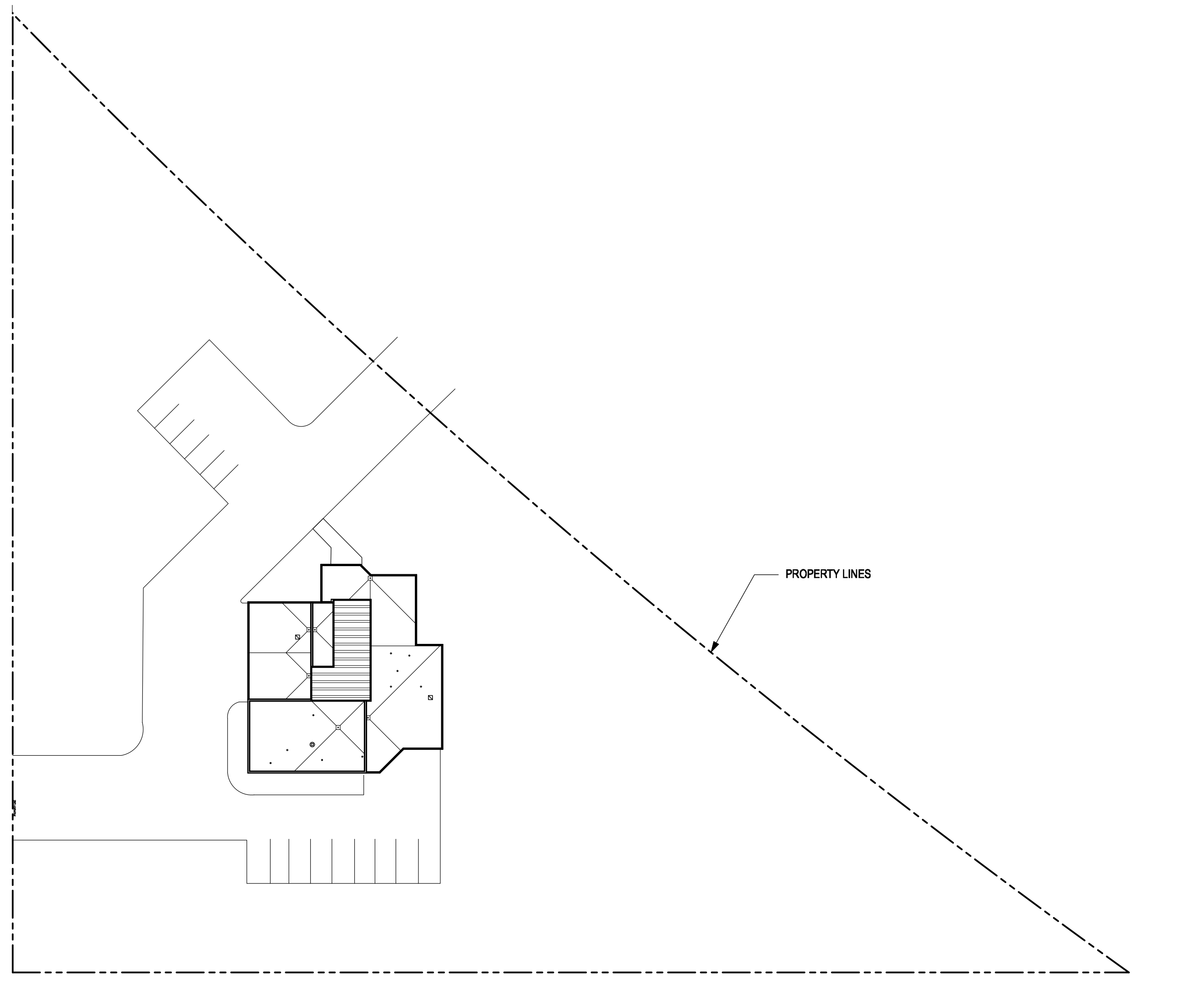
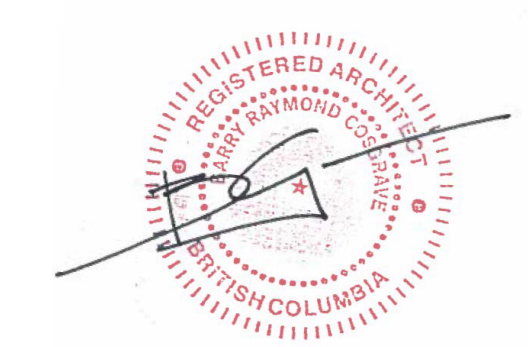
PWGSC Project Manager/Administrateur de Projets TP&GC
PHILIP FUNG

PWGSC, Regional Manager, Architectural and Engineering Services
Gestionnaire régionale, Services architecturaux et de génie, TP&GC
PREETIPAL PAUL

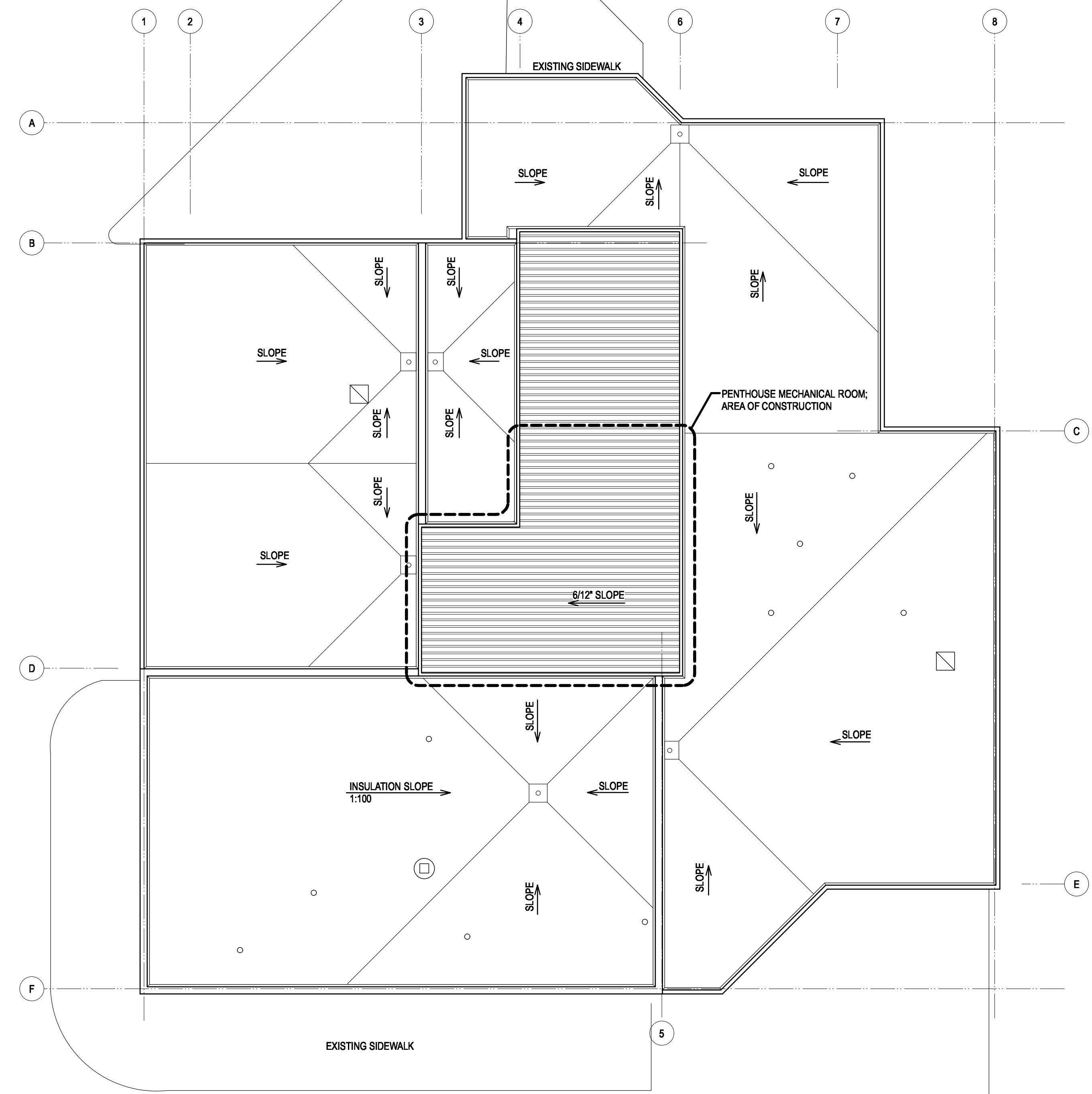
Drawing title/Titre du dessin
COVER SHEET

Project No./No. du projet R.105805.001	Sheet/ Feuille A1.01	Revision no./ La Révision no. 2
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GENERAL NOTES:
number **TEN** number **10**
The primary purpose of this sheet is to provide a
GENERAL OVERVIEW OF THE EXISTING STRUCTURE
AND SITE FEATURES. REFER TO MECHANICAL AND
ELECTRICAL DOCUMENTS FOR SPECIFIC
INFORMATION RELATED TO EACH.



1 EXIST. SITE PLAN
SCALE: 1:500



2 ROOF PLAN - EXISTING
SCALE: 1:100

2	ISSUED FOR TENDER	03/05/2021
1	ISSUED FOR 90% TENDER REVIEW	11/27/2020
Revision/ Révision	Description/Description	Date/Date
Client/Client		

Project title/Titre du projet
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PREETIPAL PAUL

Drawing title/Titre du dessin
SITE PLAN AND ROOF PLAN

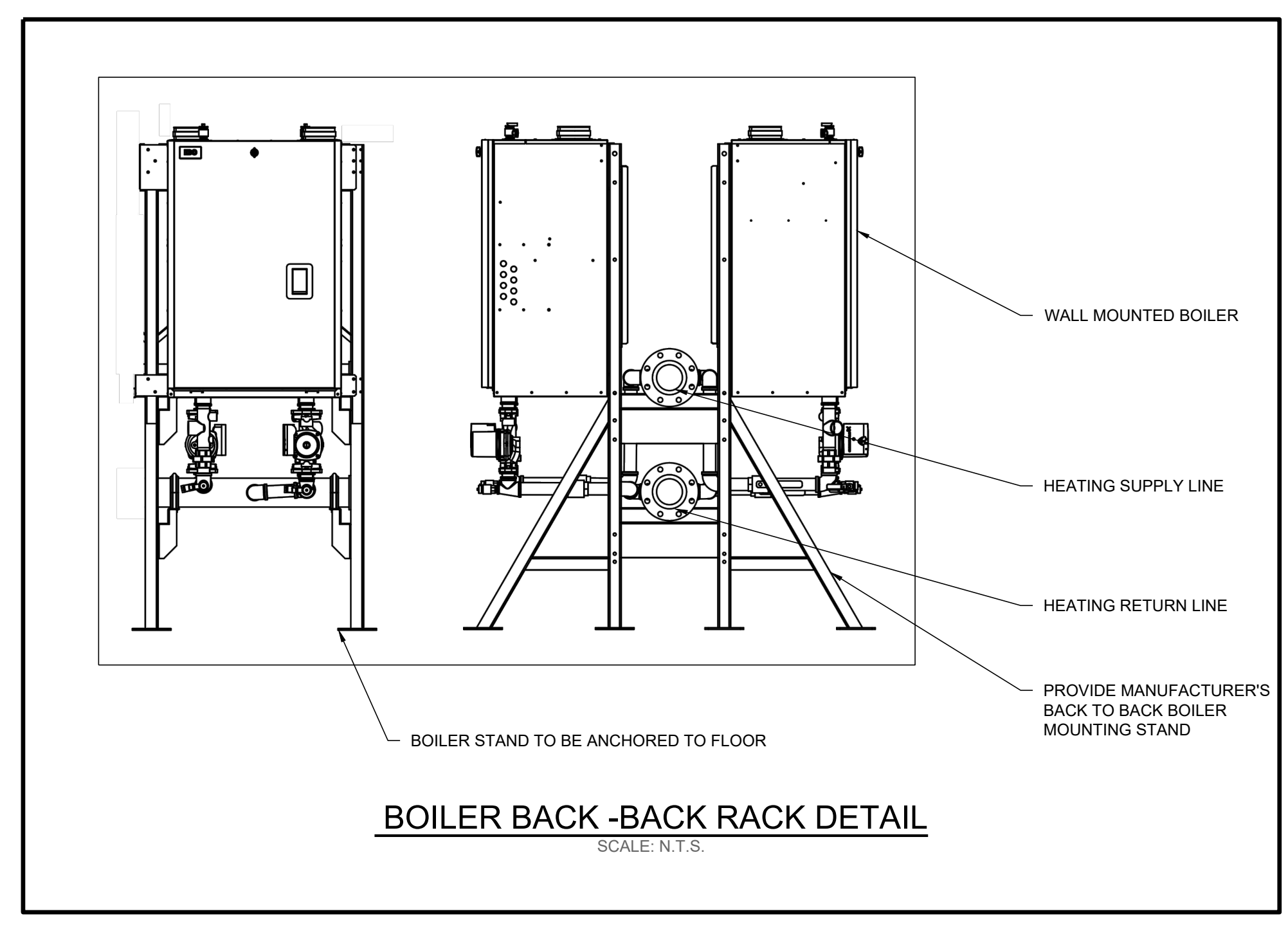
Project No./No. du projet R.105805.001	Sheet/ Feuille A1.02	Revision no./ La Révision no. 2
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MECHANICAL TENANT LEGEND			
LIST OF SYMBOLS AND SERVICES			
EXISTING SERVICE	---		
REMOVED SERVICE	---/---/---/---		
SUPPLY LINE	→ XXXS →		
RETURN LINE	← XXXR ←		
SANITARY DRAIN	--- SAN ---	CLEAN OUT	--- CO ---
STORM DRAIN	--- STD ---	FLOOR/ ROOF/ HUB/ AREA DRAIN	⊕
VENT PIPE	--- V ---	MANHOLE	⊕ M.H.
DRAIN TILE	--- X ---	CATCH BASIN	⊙ C.B.
DOMESTIC COLD WATER	---	HOSE BIBB	--- H ---
DOMESTIC HOT WATER	---	P-TRAP	⌒
DOMESTIC HOT WATER RECIRC	---	VENT UP	↑ VTR
HEAT TRACED PIPING	--- (---) ---	VENT THROUGH ROOF	↑ VTR
PLUMBING FIXTURE TAG	⊙ ?	REFRIGERANT LIQUID	--- RL ---
CHILLED WATER	--- CHW ---	REFRIGERANT VAPOUR	--- RV ---
HEATING WATER	--- HW ---	GAS	--- G ---
CONDENSATE	--- COND ---	P & T RELIEF VALVE	⌒ P&T
PIPE ELBOW RISER / DROP	○	BALANCING VALVE	⌒ B
PIPE TEE DOWN	⊥	GLOBE VALVE	⌒ G
STACK UP/ DOWN	⊕	SUPERVISED VALVE	⌒ S
SHUT OFF VALVE	⌒	PLUG VALVE	⌒ P
2-WAY CONTROL VALVE	⌒ 2	PRESSURE REDUCING VALVE	⌒ PR
3-WAY CONTROL VALVE	⌒ 3	FLEXIBLE CONNECTION	⌒ F
CHECK VALVE	⌒	PIPE ANCHOR	⌒ A
UNION OR FLANGE	⌒ U	PIPE GUIDE	⌒ G
STRAINER - Y OR BASKET	⌒ Y	PUMP	⌒ P
AUTOMATIC AIR VENT	⌒ AAV	REDUCED PRESSURE BACKFLOW ASSEMBLY	⌒ RPBA
DOUBLE CHECK VALVE ASSEMBLY	⌒ DCVA	AUTOFLOW CONTROL VALVE	⌒ A
PRESSURE GAUGE	⌒ G	THERMOMETER	⌒ T
CAP OR PLUG	⌒ C		



Revision	Description/Description	Date/Date
2	ISSUED FOR TENDER	03/05/2021
1	ISSUED FOR 99% TENDER REVIEW	11/27/2020



DRAWING LIST:		
NO.	TITLE	SCALE
M-1	MECHANICAL LEGEND	N.T.S.
M-2	MECHANICAL ROOM PLAN & SCHEMATICS	1:50

CIVIC ADDRESS:
3351 BC-16
SMITHERS, BC
V0J 2N0

Project title/Titre du projet
SMITHERS BOILER REPLACEMENT

SMITHERS, B.C.

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Drawing title/Titre du dessin
MECHANICAL LEGEND

Project No./No. du projet	Sheet/ Feuille	Revision no./ La Révision no.
	M-1	2



MECHANICAL SCHEDULE																				
UNIT No.	UNIT DESCRIPTION	LOCATION	MOTOR				VOLT	PHASE	CONT. ROL. (1)	CTRL. DEVICE (2)	SUPPLY OF STARTER	SUPPLY OF CTRL. DEVICE		SUPPLY OF DISCONNECT		FEEDER			NOTES	
			HP	MCA	KW	MOCP						ELECT	MECH	ELECT	MECH	ELECT	MECH	PANEL		CONDUIT (in)
B-1	BOILER	REFER TO DRAWINGS			0.35	15	120	1	M	DDC	-	X	-	X	X	-	PANEL B	3/4"	2#12 AWG + GND	1,2
B-2	BOILER	REFER TO DRAWINGS			0.35	15	120	1	M	DDC	-	X	-	X	X	-	PANEL B	3/4"	2#12 AWG + GND	1,2
P-B1	BOILER WATER PUMP	REFER TO DRAWINGS			0.18	15	120	1	M	DDC	-	X	-	X	X	-	PANEL B	3/4"	2#12 AWG + GND	1,2,3
P-B2	BOILER WATER PUMP	REFER TO DRAWINGS			0.18	15	120	1	M	DDC	-	X	-	X	X	-	PANEL B	3/4"	2#12 AWG + GND	1,2,3
P-3	HTW CIRC PUMP	REFER TO DRAWINGS			0.1	15	120	1	M	DDC	-	X	-	X	X	-	PANEL B	3/4"	2#12 AWG + GND	1,2
P-5	HTW CIRC PUMP	REFER TO DRAWINGS			0.1	15	120	1	M	DDC	-	X	-	X	X	-	PANEL B	3/4"	2#12 AWG + GND	1,2
P-6	HTW CIRC PUMP	REFER TO DRAWINGS			0.1	15	120	1	M	DDC	-	X	-	X	X	-	PANEL B	3/4"	2#12 AWG + GND	1,2

MECHANICAL SCHEDULE NOTES	
(1) Control M - Manual A - Automatic	(2) Pilot Device S - Manual Switch P - Pressure Switch F/A - Fire Alarm
(3) Starter Type VSD - Variable Speed Drive	F - Float Switch DDC - Direct Digital Control T - Thermostat O - Other C - Time Clock
#	DESCRIPTION
1	COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
2	NEW MECHANICAL EQUIPMENT TO RE-USE EXISTING ELECTRICAL CIRCUIT.
3	NEW MECHANICAL EQUIPMENT, PROVIDE NEW CONNECTION FROM PANEL B, AND UTILIZE SPACE IN THE PANEL FOR A NEW 15A/1P BREAKER

POWER SYMBOL SCHEDULE			DESCRIPTION	NOTES
WALL	ABOVE COUNTER	FLOOR		
⊕	⊕	⊕	15 AMP 125 VOLT DUPLEX RECEPTACLE	
⊕	⊕	⊕	15 AMP 125 VOLT GROUND FAULT CIRCUIT INTERRUPTER (GFI) DUPLEX RECEPTACLE	
⊕	⊕	⊕	EQUIPMENT CONNECTION AS NOTED ON PLAN	
⊕	⊕	⊕	MOTOR DISCONNECT SWITCH	
⊕	⊕	⊕	JUNCTION BOX	
⊕	⊕	⊕	SURFACE MOUNTED PANEL BOARD	
⊕	⊕	⊕	KEYED NOTE TAG. REFER TO KEYED NOTES (# DENOTES KEYED NOTE NUMBER)	
⊕	⊕	⊕	MOTOR CONNECTION (EF-1 DENOTES MOTOR IDENTIFICATION) (CCT DENOTES CIRCUIT)	

RR - REMOVE AND REPLACE WITH NEW
RL - RELOCATE EXISTING DEVICES
RM - REMOVE EXISTING DEVICES
ER - EXISTING TO REMAIN

ELECTRICAL DRAWING LIST		
DRAWING NO.	DRAWING TITLE	DRAWING SCALE
E-1	ELECTRICAL SCHEDULES AND PLANS	AS SHOWN

CODES AND STANDARDS
 - BRITISH COLUMBIA BUILDING CODE (2018)
 - CANADIAN ELECTRICAL CODE CSA C22.1 (2018)
 - ELECTRICAL SAFETY BRANCH REGULATIONS AND BULLETINS.

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 3351 BC-16, SMITHERS, BC, V0J 2N0

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Revision	Description/Description	Date/Date

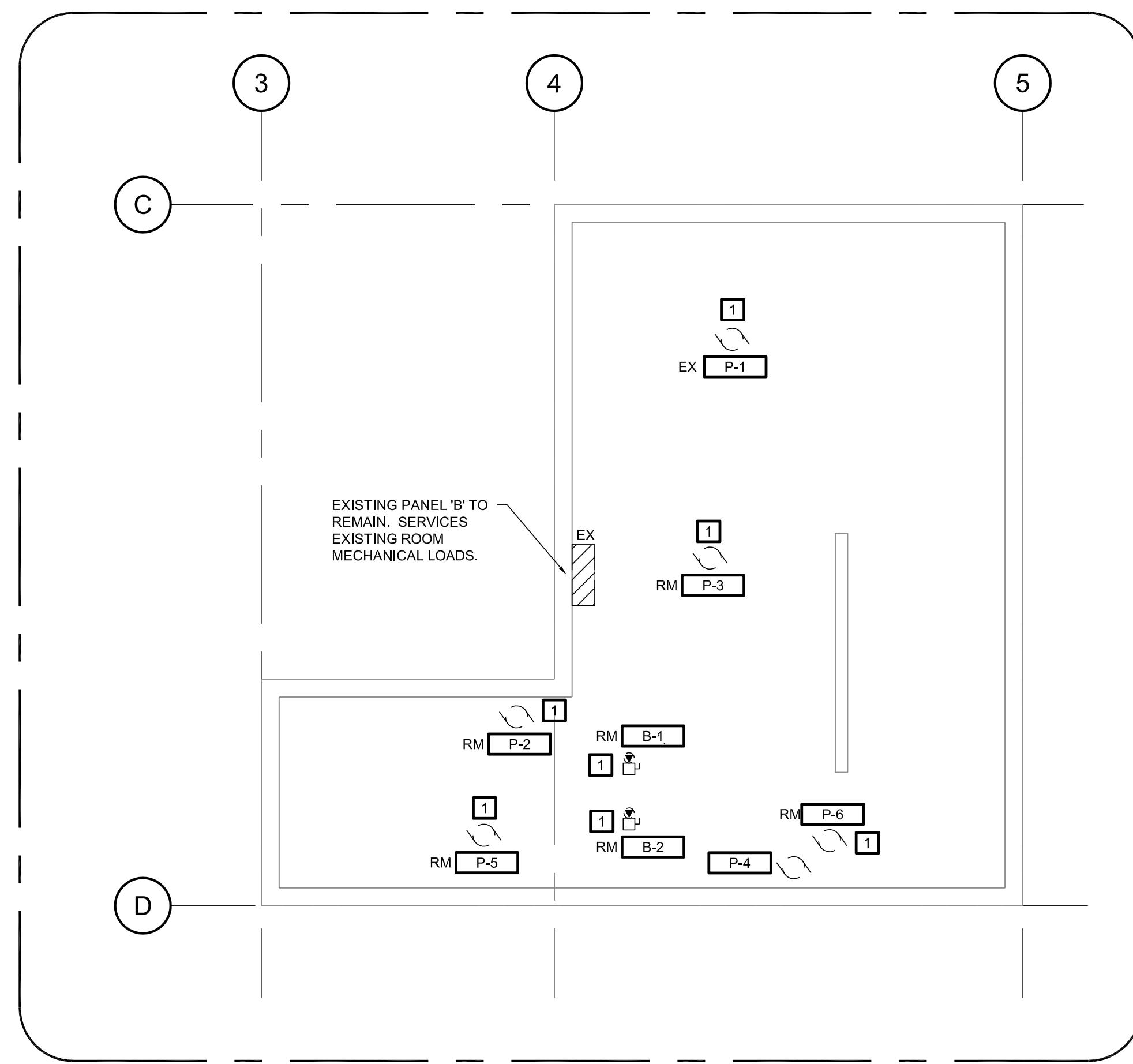
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 2021-03-08

Project title/Titre du projet
SMITHERS BOILER REPLACEMENT
 SMITHERS, B.C.

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 Gestionnaire régional, Services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin
ELECTRICAL SCHEDULES AND PLANS
 Project No./No. du projet
 Sheet / Feuille
E-1
 Revision no./ La Révision no.
2



MECHANICAL ROOM DEMO PLAN
 SCALE: 1:50

GENERAL NOTES:

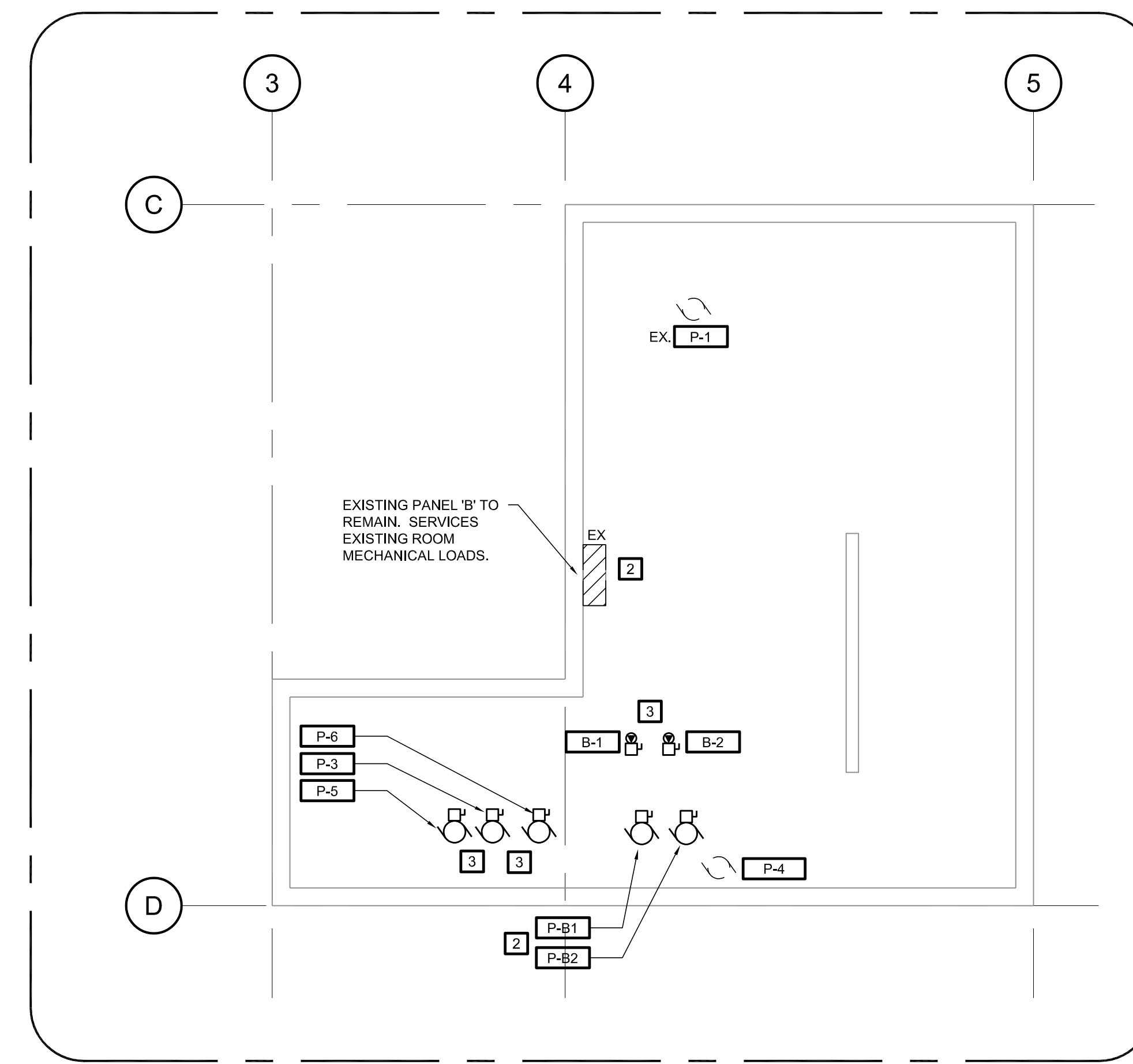
- REFER TO PROJECT SPECIFICATION FOR ADDITIONAL PROJECT REQUIREMENTS.
- CIRCUITING SHOWN FOR GROUPING REFERENCE ONLY. CONTRACTOR TO REUSE THE EXISTING BREAKERS IN THE EXISTING SPACE PANEL BOARD. PROVIDE NEW BREAKERS AS REQUIRED TO SUIT THE FINAL NEW DESIGN.
- WHERE DISCREPANCIES OR IF THE DEFINED WORK IS UNCLEAR, CONTRACTOR SHALL NOTIFY THE CONSULTANT IN WRITING FOR CLARIFICATION.
- CONTRACTOR SHALL PROTECT ALL REMAINING ELECTRICAL DEVICES TO AVOID DAMAGE.

DEMOLITION NOTES:

- GENERAL ELECTRICAL: UNLESS OTHERWISE NOTED ON THE PLANS, REMOVE BACK TO THE ELECTRICAL PANEL. THIS INCLUDES FOR ALL EXISTING POWER / TELECOMMUNICATION OUTLETS ON THE EXISTING WALLS (NOT SHOWN) AND ANY MECHANICAL UNITS NOTED BY THE MECHANICAL TO BE REMOVED.
- REMOVE ANY REDUNDANT WIRING AND CORRECT ANY NON-COMPLIANT INSTALLATIONS. IN THE CASE OF UNSEEN SITE CONDITIONS REGARDING HIDDEN NON-COMPLIANT INSTALLATIONS FROM THE PAST, CONTRACTOR TO IMMEDIATELY BRING THE EXTENT OF WORK TO THE ATTENTION OF THE CONSTRUCTION MANAGER FOR REVIEW AND TO DETERMINE THE PROCEDURE FOR CORRECTING THE INSTALLATIONS.

KEYED NOTES:

- EXISTING DEVICES NOTED TO BE REMOVED WILL BE REPLACED WITH NEW EQUIPMENT. CONTRACTOR CAN UTILIZE EXISTING CONDUIT/WIRING AND EXTEND AS REQUIRED TO SUIT THE NEW MECHANICAL LAYOUTS. COORDINATE ALL WORK WITH MECHANICAL CONTRACTOR.
- UTILIZE EXISTING PANEL TO CONNECT THE NEW PUMPS TO. PROVIDE ONE NEW 15A/1P BREAKER IN PANEL TO SERVICE NEW PUMPS B1 & B2. CIRCUIT B-3B. PROVIDE TYPE WRITTEN UPDATED PANEL BOARD AT PROJECT COMPLETION.
- RECONNECT MECHANICAL UNITS BACK TO THE EXISTING CIRCUIT THAT SERVICED THE PREVIOUS UNITS.



MECHANICAL ROOM NEW WORK PLAN
 SCALE: 1:50