

NATIONAL RESEARCH COUNCIL OF CANADA MONTREAL ROAD CAMPUS

METROLOGY RESEARCH CENTER
BUILDING M-12 – LAB B25

DRAWING LIST

ARCHITECTURAL

COVER SHEET

DEMOLITION PLAN, DEMOLITION REFLECTED CEILING PLAN & FIREPROOFING NOTES

CONSTRUCTION PLAN, CONSTRUCTION REFLECTED CEILING PAN, PARTITION TYPES, MILLWORK DETAILS, DOOR DETAILS

MECHANICAL

LEGEND AND EQUIPMENT SCHEDULES

ROOM B25 MECHANICAL DEMOLITION AND NEW WORK (1 OF 2)

ROOM B25 MECHANICAL DEMOLITION AND NEW WORK (2 OF 2)

ROOM B25A MECHANICAL DEMOLITION AND NEW WORK

ELECTRICAL

ELECTRICAL POWER AND LIGHTING

DRAWING No.

6206 – A00

6206 – A01

6206 – A02

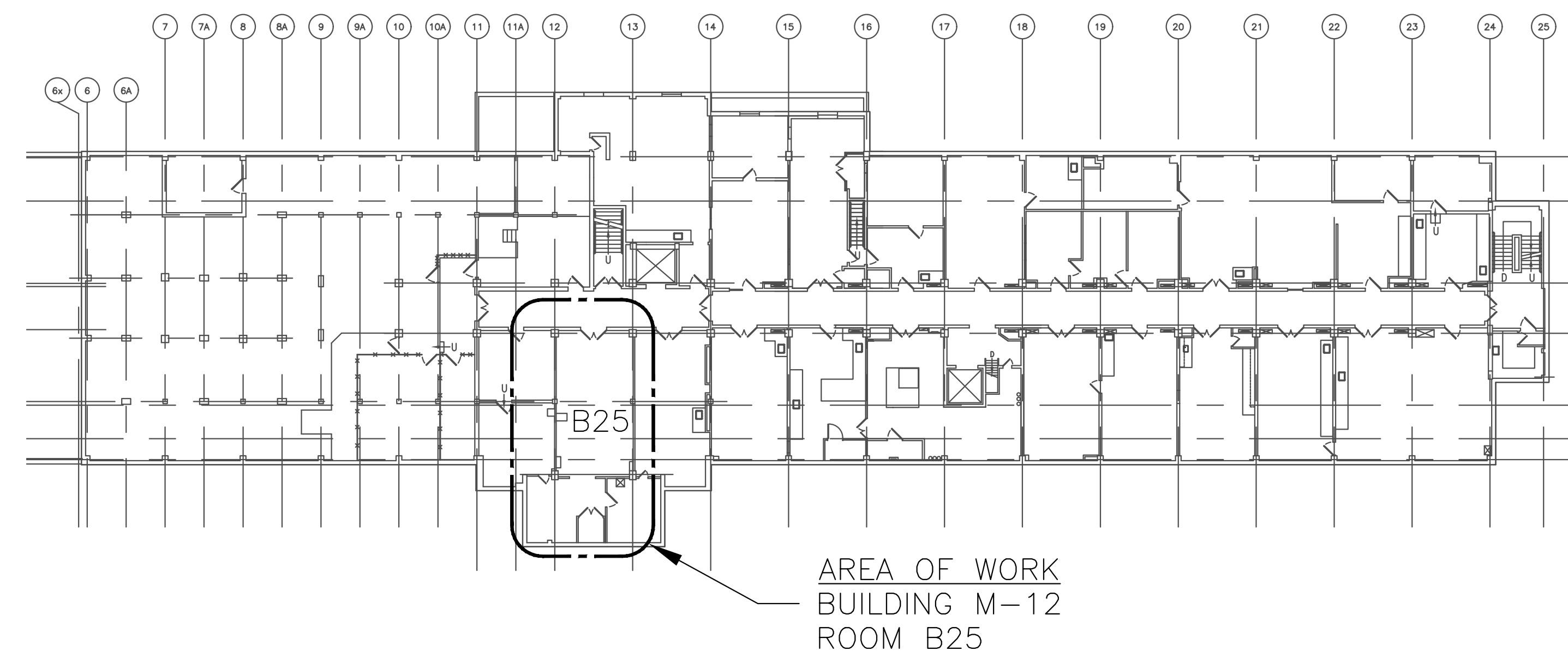
6206 – M01

6206 – M02

6206 – M03

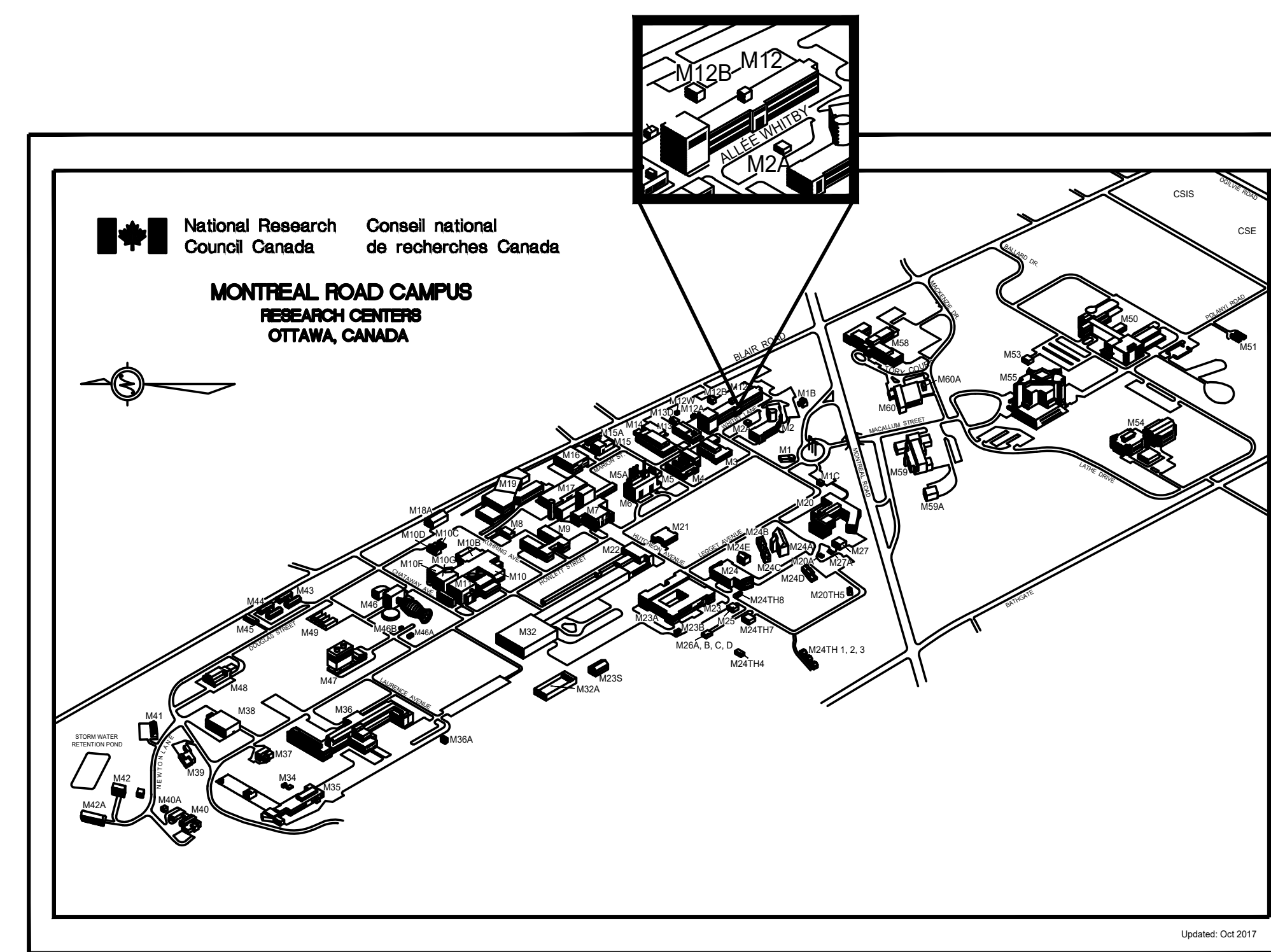
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6206 – E01



AREA OF WORK
BUILDING M-12
ROOM B25

1 KEY PLAN – BASEMENT
A00 SCALE = N.T.S.



GENERAL NOTES

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
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- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.
- PROTECT ALL EXISTING PERIMETER WALLS FOR THE DURATION OF PROJECT. CONTRACTOR TO PROTECT ALL AREAS OUTSIDE THE CONTRACT AREA FROM DEBRIS AND DUST RESULTING FROM DEMOLITION AND TO KEEP SITE CLEAN AND ORGANIZED THROUGHOUT DEMOLITION.
- DO NOT ALTER STRUCTURAL BUILDING ELEMENTS IN ANY WAY. ALL FINISH WORK TO BE PERFORMED AROUND EXISTING STRUCTURE.
- CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD ALL EXISTING GYPSUM BOARD WALLS OR OTHER SURFACES REQUIRING FINISHING, READY FOR PAINT OR OTHER FINISHES REQUIRED. PAINT EXISTING DAMAGED WALLS AFFECTED BY WORK UNDER THIS CONTRACT TO MATCH EXISTING ON ADJACENT WALL SURFACES.

N°	Date	Revision	By:
2	18 01 2023	ISSUED FOR TENDER	JDG
1	15 11 2022	ISSUED FOR TRANSLATION	JDG

Date Printed Date d'impression

- Verify all dimensions and site conditions and be responsible for same
- Vérifier toutes les dimensions et toutes les conditions du chantier et assumer les responsabilités s'y rattachant.

A	A Detail no. n° du détail	A
C	B Location drawing no. sur dessin n°	B
	C Drawing no. dessin n°	C

project BUILDING M-12 - LAB B25 - RENOVATIONS projet

MONTREAL ROAD CAMPUS

drawing COVER SHEET dessin

designed JDG conçu date OCT. 2022 date

drawn JDG dessiné scale NONE échelle

checked BL vérifié sheet of/de feuille

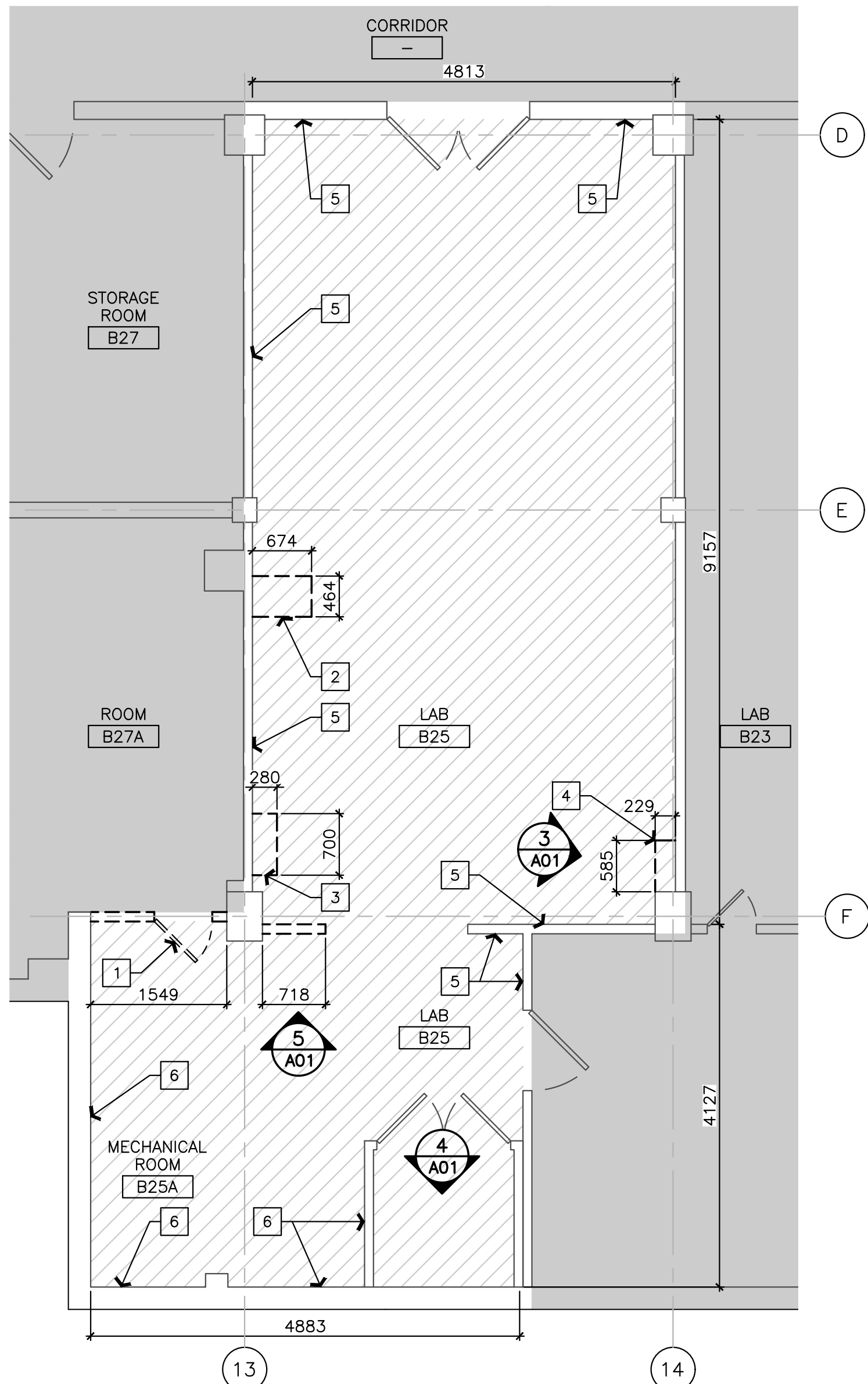
approved FG approuvé W.O.no. D.T.n°

dwg.no. 6206-A00 dessin n°

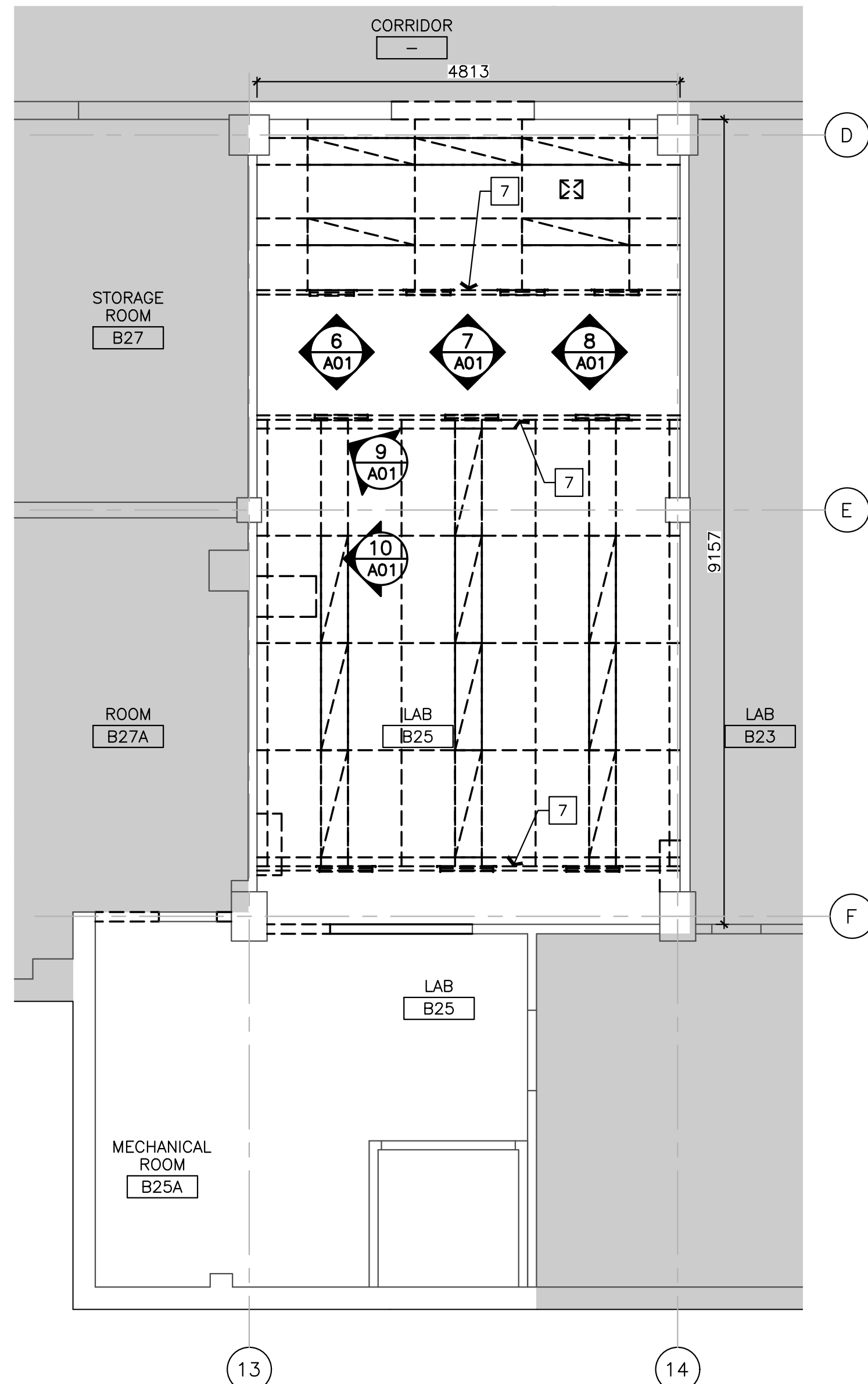
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1 DEMOLITION PLAN
 SCALE = 1 : 50



2 DEMOLITION REFLECTED CEILING PLAN
 SCALE = 1 : 50

DEMOLITION NOTES
 SHEET A01 ONLY

AREA OUT OF CONTRACT

DEMOLITION PLAN:

- EXISTING INTERIOR PARTITION (TERRACOTTA BLOCK WALL IN MECHANICAL ROOM B25A AND WOOD STUDS IN LAB B25) TO BE REMOVED AND DISPOSED OF OFF SITE.
- EXTENT OF EXISTING VINYL COMPOSITE TILES AND ASSOCIATED ADHESIVES TO BE REMOVED AND DISPOSED OF OFF SITE. BLAST-TRAK, GRIND, SCRAPE CLEAN ENTIRE FLOOR AREA. PREPARE TO RECEIVE NEW FLOOR FINISH AS PER MANUFACTURERS RECOMMENDATIONS. REPAIR SUB-FLOOR AS REQUIRED TO MAINTAIN CONSISTENT FLOOR LEVEL.

- EXISTING DOOR, DOOR FRAME, AND ALL ASSOCIATED HARDWARE TO BE REMOVED, AND DISPOSED OF OFF SITE.
- EXISTING METAL PANEL ENCLOSURE AND ALL ASSOCIATED ATTACHMENTS TO BE REMOVED AND DISPOSED OF OFF SITE.
- EXISTING ELECTRICAL PANEL TO BE RELOCATED; REFER TO ELECTRICAL DRAWINGS. EXISTING ENCLOSURE AND ALL ASSOCIATED FRAMING TO BE REMOVED AND DISPOSED OF OFF SITE.
- EXISTING WOOD FRAMING TO BE REMOVED AND DISPOSED OF OFF SITE.
- EXISTING WOOD BASEBOARDS TO REMAIN AS INDICATED.
- EXISTING WOOD BASEBOARDS AND ALL ASSOCIATED NAILS AND/OR ADHESIVES TO BE REMOVED AS INDICATED AND DISPOSED OF OFF SITE. PREPARE EXISTING SURFACES TO RECEIVE NEW WALL BASE.

REFLECTED CEILING PLAN:

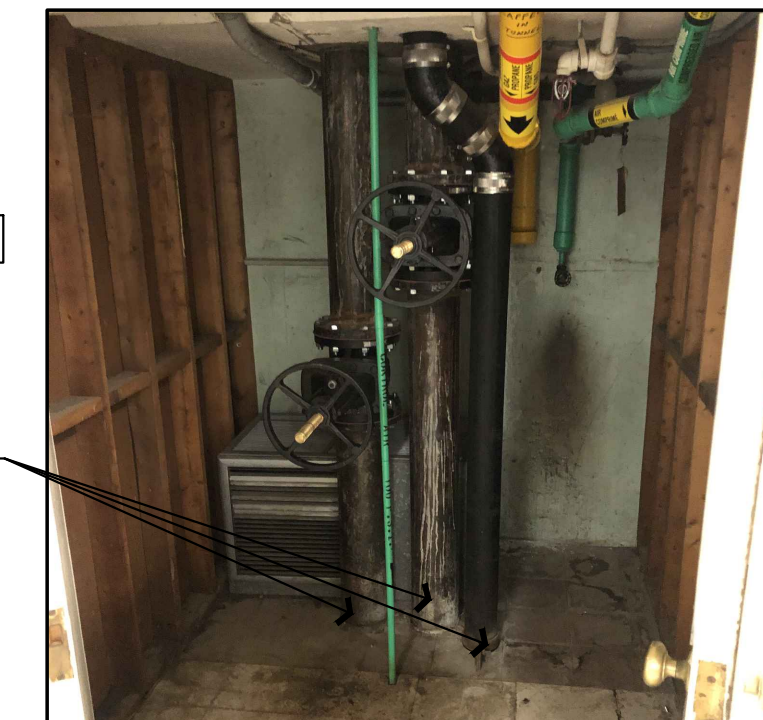
- EXTENT OF EXISTING SUSPENDED CEILING SYSTEM AND ALL ASSOCIATED T-BAR, PANELS, HANGERS, AND ATTACHMENTS TO BE REMOVED AND DISPOSED OF OFF SITE. ALL OTHER REDUNDANT SUPPORTS/ BRACKETS AT CEILING PLENUM TO BE REMOVED AND DISPOSED OF OFF SITE.
- EXISTING LIGHTING FIXTURE TO BE REMOVED AND DISPOSED OF OFF SITE. REFER TO ELECTRICAL.
- EXISTING CEILING DIFFUSER TO BE REMOVED AND DISPOSED OF OFF SITE. REFER TO MECHANICAL.
- EXISTING SURFACE MOUNTED AIR RETURN GRILLE TO BE REMOVED AND DISPOSED OF OFF SITE. REFER TO MECHANICAL.
- EXISTING GYPSUM BOARD BULKHEAD AND ASSOCIATED FRAMING TO BE REMOVED AND DISPOSED OF OFF SITE.

TYPICAL FIRE PROOFING NOTES:

- EXISTING WALL PENETRATIONS WITHIN SCOPE OF WORK:**
 - PATCH, TAPE AND REPAIR ALL EXISTING WALL PENETRATIONS WITHIN SCOPE OF WORK. CUT BACK ALL DAMAGED AREAS AND REINSTATE WITH 16mm TYPE "X" GYPSUM BOARD. REMOVE EXISTING TAPE.
 - ENSURE VOIDS ARE FULLY PACKED WITH BATT INSULATION.
 - SEAL ALL PENETRATIONS WITH A ULC LISTED/ TESTED FIRE STOP SYSTEM FROM HILTI.
 - REFER TO SPECIFICATIONS.
- EXISTING FLOOR AND CEILING PENETRATIONS WITHIN SCOPE OF WORK:**
 - SEAL ALL PENETRATIONS WITH A ULC LISTED/ TESTED FIRE STOP SYSTEM FROM HILTI.
 - REFER TO SPECIFICATIONS.



3 EXISTING CONDITIONS
 SCALE = NONE



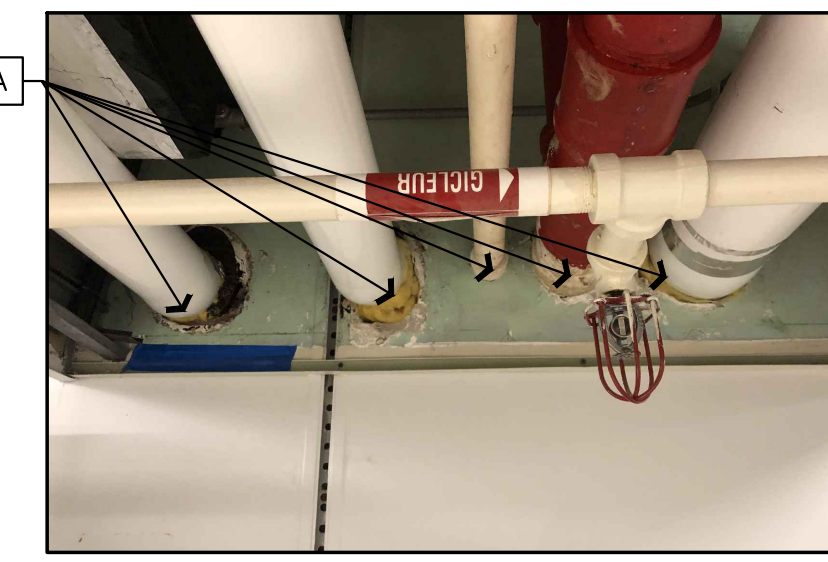
4 EXISTING CONDITIONS
 SCALE = NONE



5 EXISTING CONDITIONS
 SCALE = NONE



6 EXISTING CONDITIONS
 SCALE = NONE



7 EXISTING CONDITIONS
 SCALE = NONE



8 EXISTING CONDITIONS
 SCALE = NONE



9 EXISTING CONDITIONS
 SCALE = NONE

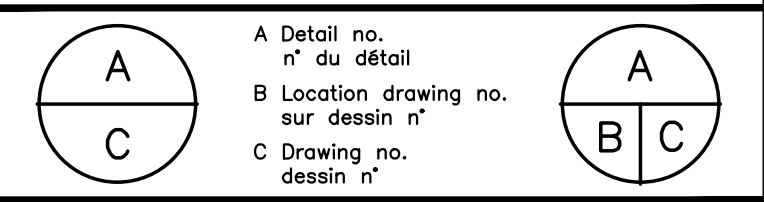


10 EXISTING CONDITIONS
 SCALE = NONE

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project / projet
 BUILDING M-12 - LAB B25 - RENOVATIONS

MONTREAL ROAD CAMPUS

drawing / dessin
 DEMOLITION PLAN, DEMOLITION REFLECTED CEILING PLAN & FIREPROOFING NOTES

designed / conçu	JDG	date	OCT. 2022
drawn / dessiné	JDG	scale / échelle	AS INDICATED
checked / vérifié	BL	sheet / feuille	1 of/de 2
approved / approuvé	FG	W.O.no.	D.T.n°

dwg.no. / dessin n°
 6206-A01

file no. / fichier CDAO :
 ACA0116

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MECHANICAL DRAWING SYMBOLS LEGEND

	TYPICAL EXISTING
	TYPICAL NEW
	TYPICAL DEMOLITION / REMOVALS
	CONDENSATE DRAIN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CHILLED WATER RETURN PIPING
	HEATING WATER SUPPLY PIPING
	HEATING WATER RETURN PIPING
	HEATING WATER RETURN PIPING
	CONTROL WIRING
	VALVE
	2-WAY CONTROL VALVE - DDC
	3-WAY CONTROL VALVE - DDC
	CIRCUIT BALANCING VALVE
	DRAIN VALVE
	STRAINER
	CLEANOUT
	CAP
	PIPE UP
	PIPE DOWN
	UNION
	REDUCER - CONCENTRIC
	DRAWING NOTE NUMBER X
	EQUIPMENT IDENTIFICATION

MECHANICAL DRAWING SYMBOLS LEGEND

	FAN COIL UNIT - TAG X
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	90° ELBOW
	45° ELBOW
	FLEXIBLE CONNECTION
	ACOUSTICALLY LINED DUCT
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR RETURN/EXHAUST DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN/EXHAUST DUCT DOWN
	FLEXIBLE DUCT
	RECTANGULAR TAKE OFF
	RECTANGULAR TAKE OFF C/W BALANCING DAMPER
	ROUND TAKE OFF C/W BALANCING DAMPER
	BALANCING DAMPER
	T-STAT (DDC)
	ROUND DUCT UP
	ROUND DUCT DOWN
	SUPPLY DIFFUSER
	RETURN GRILLE
	T-STAT (PNEUMATIC)
	PIPING DIAMETER IN MM
	BALANCING VALVE
	CONTROL VALVE

MECHANICAL DRAWING SYMBOLS LEGEND

	ANALOG OUTPUT
	ANALOG INPUT
	DIGITAL OUTPUT
	DIGITAL INPUT
	ELECTRONIC CURRENT INTENSITY TRANSMITTER
	OUTDOOR AIR
	RECTANGULAR DUCT DIMENSIONS IN MM
	ROUND DUCT DIAMETER DIMENSION IN MM

MECHANICAL DRAWING LIST

DWG NO.	DRAWING TITLE
6206-M01	LEGENDS AND EQUIPMENT SCHEDULES
6206-M02	ROOM B25 MECHANICAL DEMOLITION AND NEW WORK (1 OF 2)
6206-M03	ROOM B25 MECHANICAL DEMOLITION AND NEW WORK (2 OF 2)
6206-M04	ROOM B25A MECHANICAL DEMOLITION AND NEW WORK

FAN COIL

TAG	LOCATION	MANUFACTURER	MODEL	SIZE	SUPPLY FAN DATA			CHILLED WATER COOLING COIL SECTION										ELECTRICAL DATA		SOUND DISCHARGE DATA				NOTES				
					AIRFLOW (L/s)	EXTERNAL STATIC PRESSURE (Pa)	HP	TOTAL CAPACITY (W)	SENSIBLE CAPACITY (W)	EAT DB/WB (C)	LAT DB/WB (C)	EWI/LWT (C)	WATER FLOW (L/s)	FLUID PRESSURE DROP (kPa)	COIL ROWS	COIL FPI	NO. CIRCUITS	FILTERS	V/Ph/Hz	FLA/MCA/MOP	125Hz	250Hz	500Hz		1kHz	2kHz	4kHz	8kHz
12FCU372	LAB B25	JOHNSON CONTROLS	FHP-D	06	189	125	0.25	3621	2829	23.8/17.2	11.7/ 11.1	7.2/ 12.8	0.13	13.5	4	12	3	25 mm PLEATED MERV 13	230/1/60	1.20/1.50/15.00	61	58	56	55	51	45	38	1, 2, 3, 4, AND 5
12FCU373	LAB B25	JOHNSON CONTROLS	FHP-D	06	189	125	0.25	3621	2829	23.8/17.2	11.7/ 11.1	7.2/ 12.8	0.13	13.5	4	12	3	25 mm PLEATED MERV 13	230/1/60	1.20/1.50/15.00	61	58	56	55	51	45	38	1, 2, 3, 4, AND 5

NOTES:
 UNITS TO INCLUDE
 1. ELECTRONICALLY COMMUTATED MOTOR (ECM) AND MOTOR CONTROL
 2. NON-FUSED DISCONNECT SWITCH
 3. STAINLESS STEEL DRAIN PAN
 4. ELASTOMERIC CLOSED CELL FOAM INSULATION
 5. REFER TO SPECIFICATION FOR ADDITIONAL DETAILS

VENTURI VALVES

TAG	DESCRIPTION	CONSTRUCTION	SIZE (mm)	PRESSURE OPERATING RANGE (Pa)	DESIGN	CONTROL TYPE	FLOW OPERATING RANGE (L/S)	MANUFACTURER	MODEL
12VAV01	VARIABLE AIR VOLUME SUPPLY VALVE	BODY AND CONE UNCOATED ALUMINUM; UNCOATED 316 STAINLESS STEEL SHAFT	300	75-750	CONICAL SHAPE DIFFUSER	HIGH SPEED ELECTRIC ACTUATOR	43-495	PHOENIX	MAVA112L-AMEHC
12EAV125	CONSTANT VOLUME FUMEHOOD EXHAUST VALVE	BODY AND CONE UNCOATED ALUMINUM; UNCOATED 316 STAINLESS STEEL SHAFT	300	75-750	CONICAL SHAPE DIFFUSER	CONSTANT VOLUME	43-495	PHOENIX	BEVB112L-AFFHZ

BALANCING VALVES

ASSOCIATED EQUIPMENT	DIAMETER (mm)
12FCU372	15
12FCU373	15

CONTROL VALVES

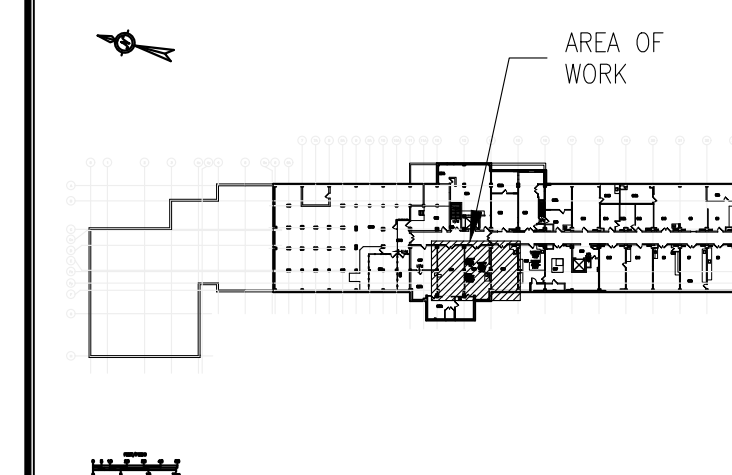
TAG	ASSOCIATED EQUIPMENT	DIAMETER (mm)	FLUID		PRESSURE LOSS (kPa)	Cv	TYPE
			FLOW (L/s)	SPECIFIC GRAVITY			
12CLV01	12FCU372	15	0.07	1	2.76	3	3-WAY
12CLV02	12FCU373	15	0.07	1	2.76	3	3-WAY

GRILLES AND DIFFUSERS

TAG	MODULE SIZE (mm)	NECK SIZE (mm)	DESCRIPTION	MOUNTING	MANUFACTURER	MODEL	NOTES
SG-1	400 X 250	400 X 250	LOUVERED SUPPLY AIR REGISTER	T-BAR CEILING	PRICE	5200	1&2
SD-1	250 X 150	250 X 150	LOUVERED SUPPLY AIR REGISTER	SURFACE	PRICE	500	1
SD-2	600 X 600	150	SQUARE PLAQUE SUPPLY AIR DIFFUSER	T-BAR CEILING	PRICE	SPD	1&2
SD-3	300 X 200	300 X 200	LOUVERED SUPPLY AIR REGISTER	SURFACE	PRICE	500	1
RG-1	600 X 300	600 X 300	EGGRATE RETURN AIR GRILL	T-BAR CEILING	PRICE	80	1

- NOTES:
 1. COLOR CHOICE BY DEPARTMENTAL REPRESENTATIVE.
 2. COMPLETE WITH BALANCING DAMPER.

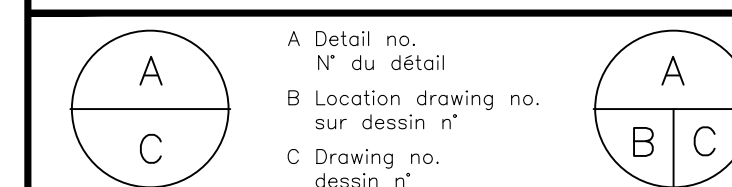
KEY PLAN PLAN CLÉ



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0	03 01 2023	ISSUED FOR TENDER		S.F.

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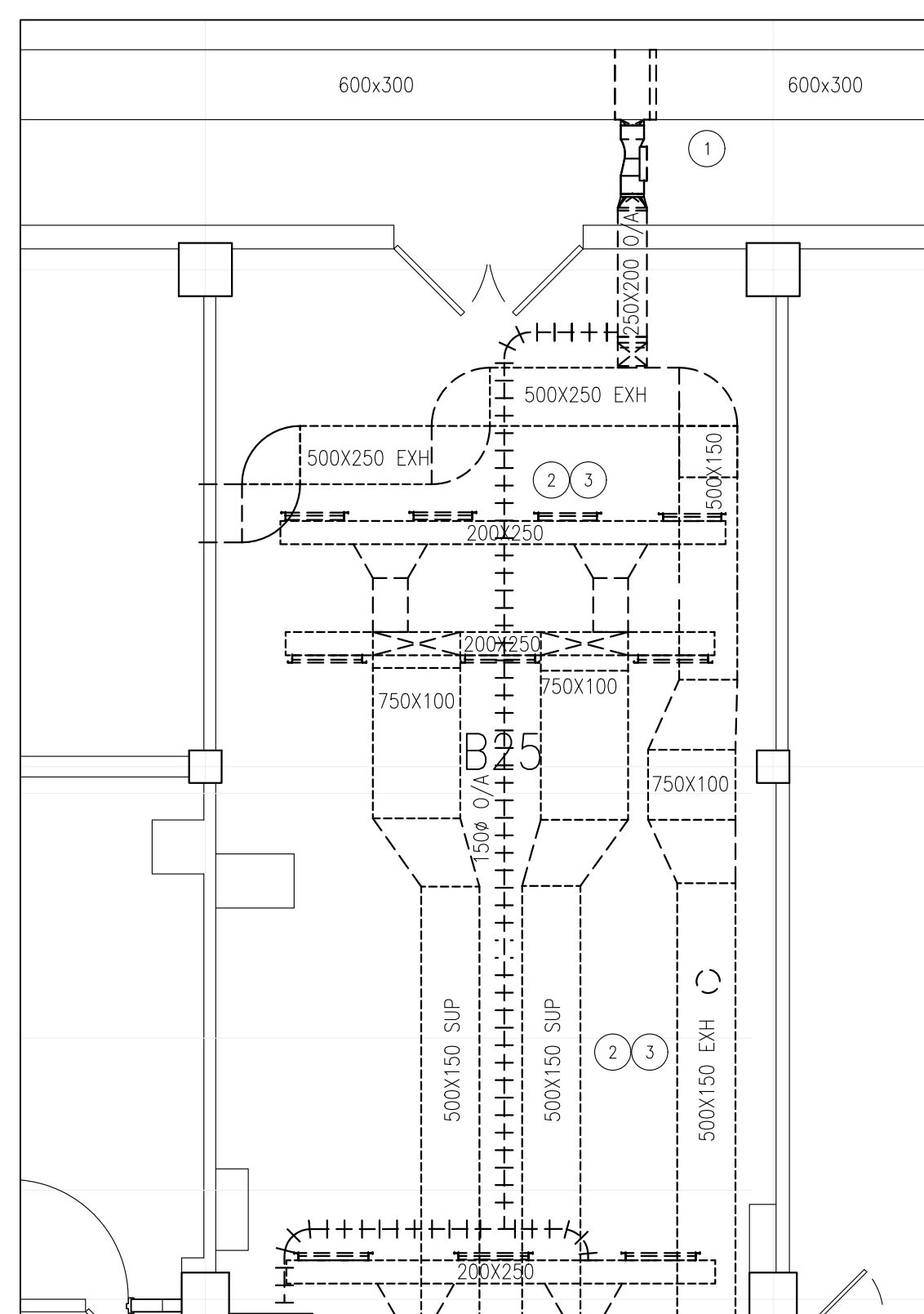
project / projet
M12 LAB B25 RENOVATIONS
 MONTREAL ROAD CAMPUS

LEGENDS AND EQUIPMENT SCHEDULES

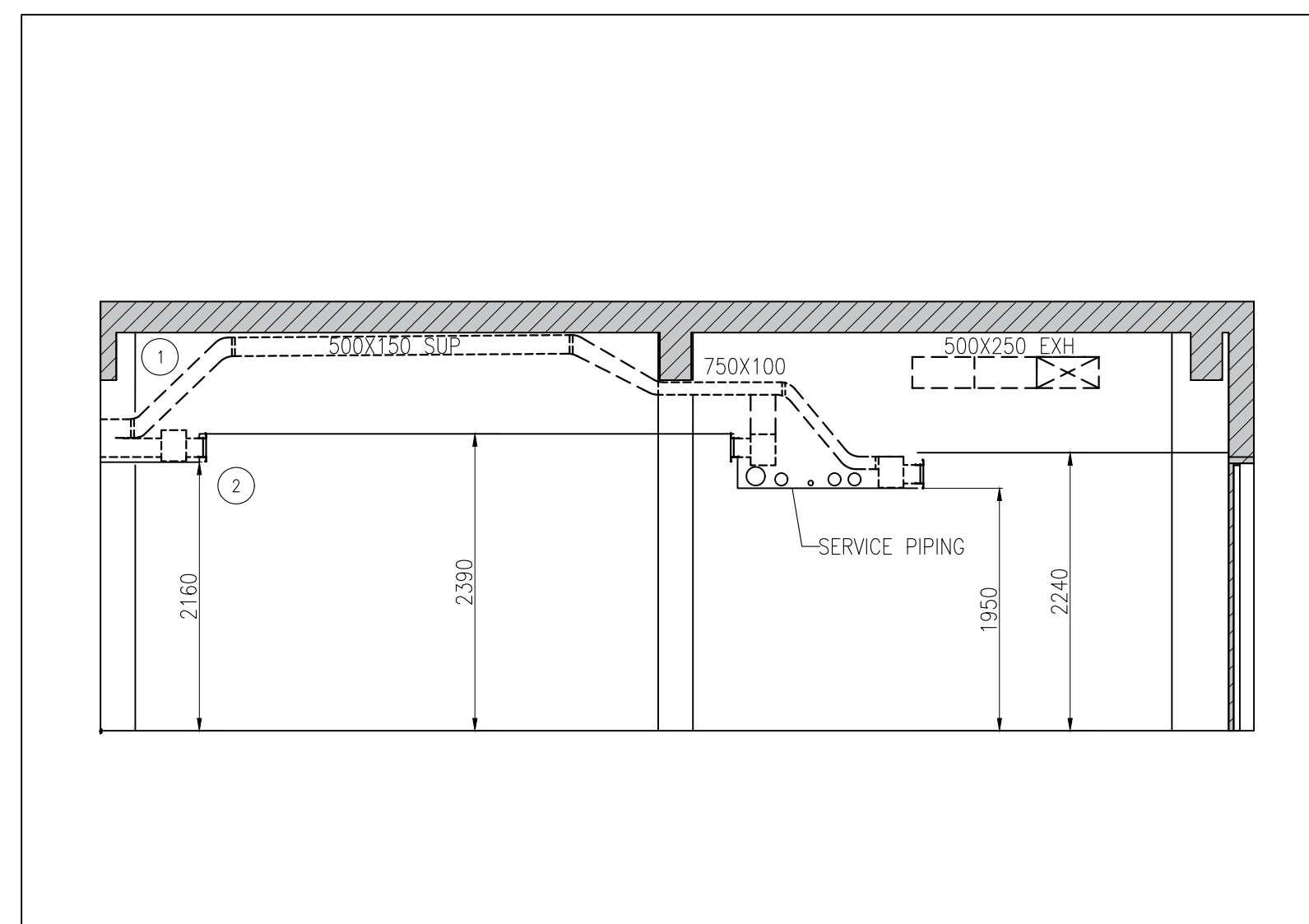
designed / dessiné	conçu / conçu	date / date	scale / échelle
S.F.		OCT. 2022	AS INDICATED
drawn / dessiné	scale / échelle	sheet / feuille	of / de
S.F.		1	4
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J.W.G.	F.G.		
dwg.no. / dessin n°	file / fichier		
6206-M01			

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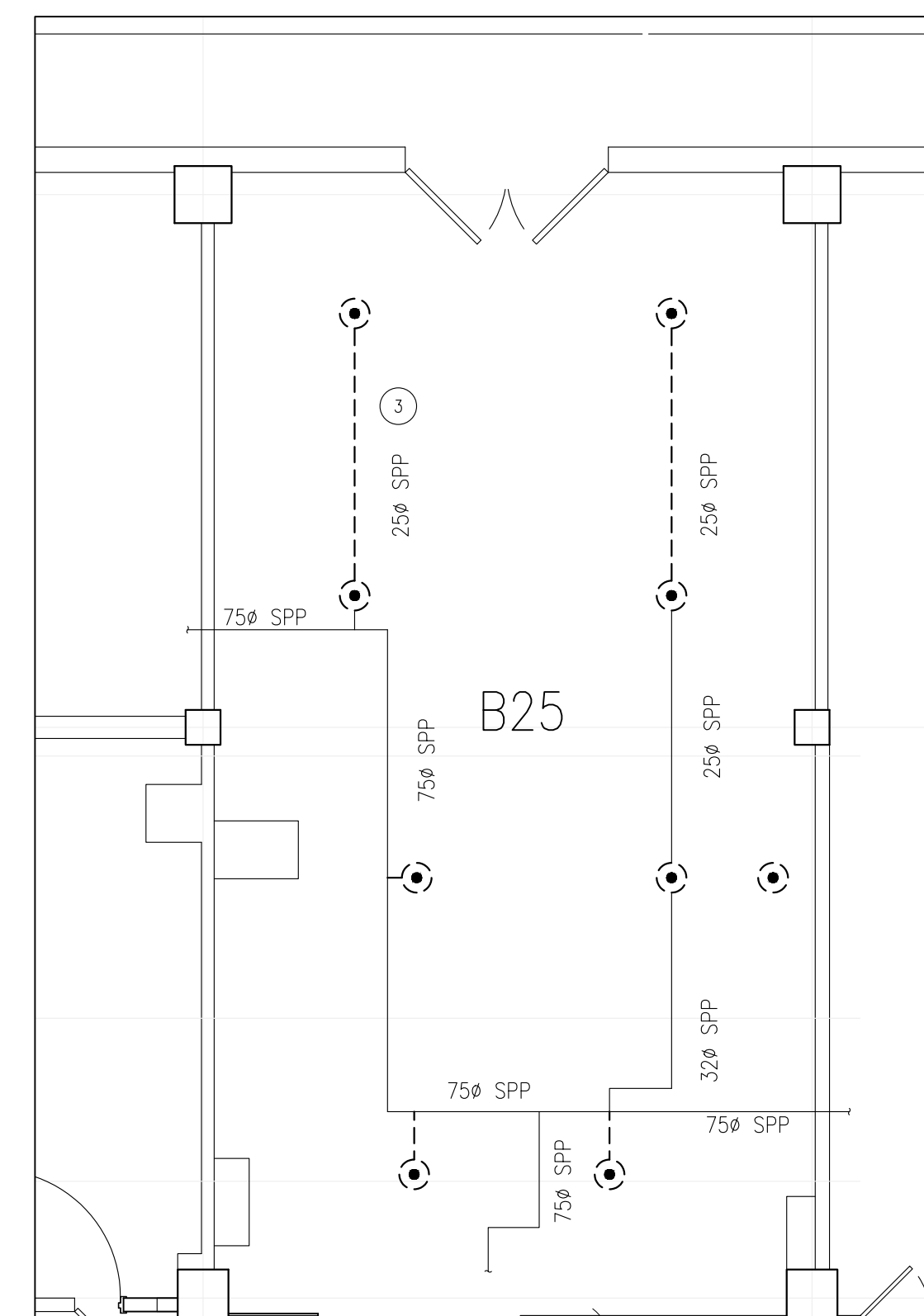
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1 HVAC PLAN – DEMOLITION WORK
 MO2 SCALE = 1:50



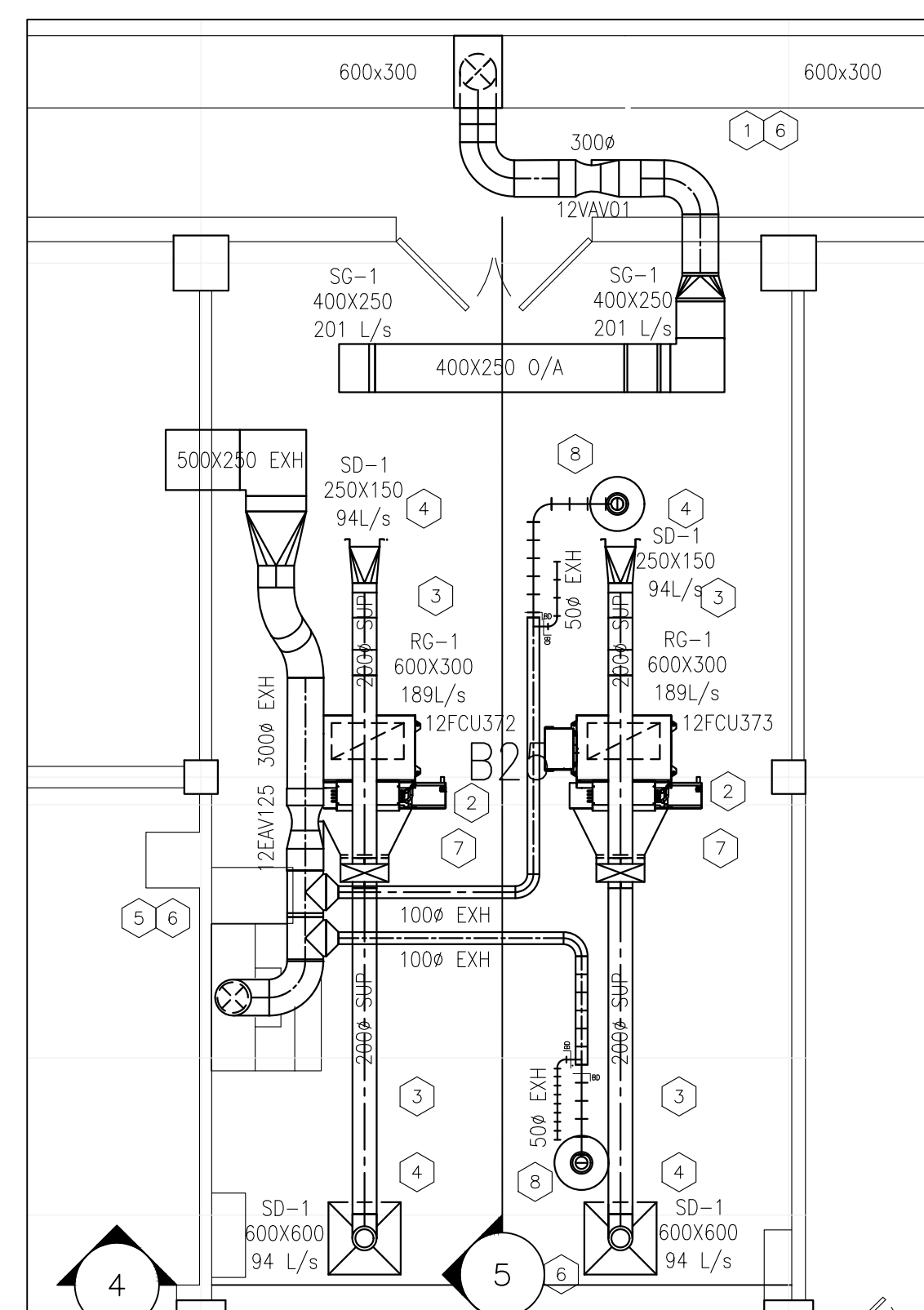
2 HVAC SECTION VIEW – DEMOLITION WORK
 MO2 SCALE = 1:50



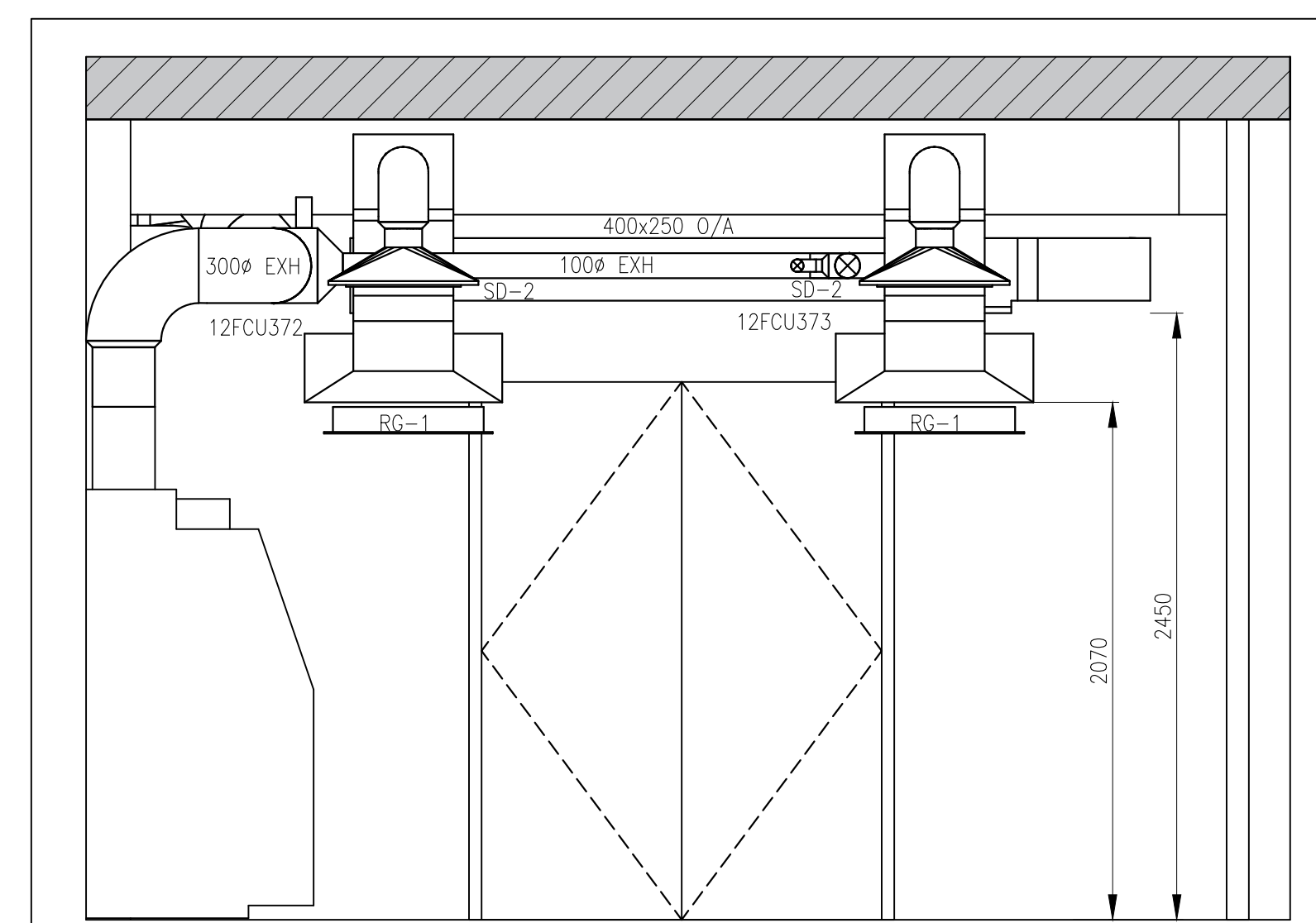
3 FIRE PROTECTION PIPING PLAN – DEMOLITION WORK
 MO2 SCALE = 1:50

DEMOLITION NOTES:

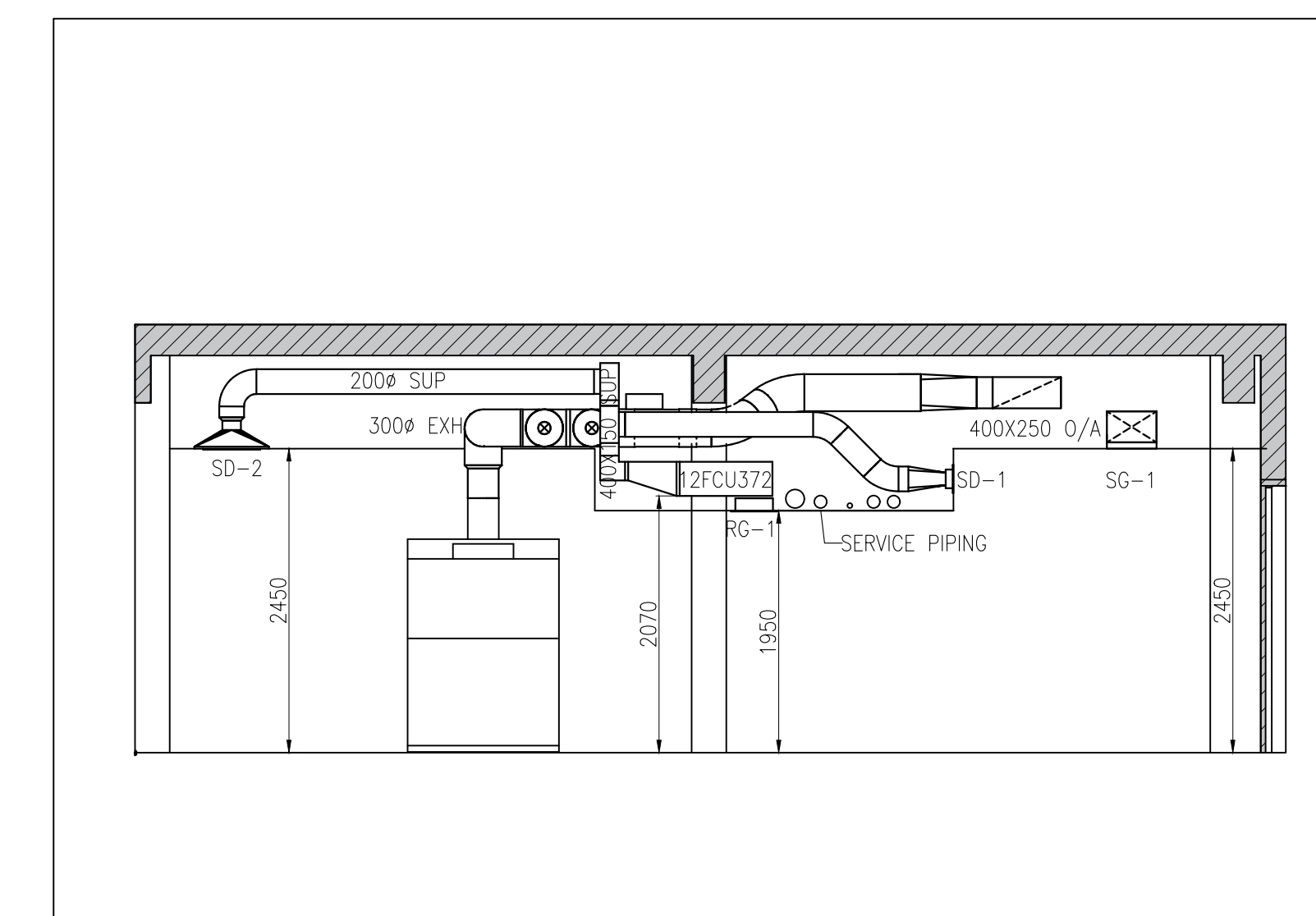
- REMOVE EXISTING OUTSIDE AIR, VENTURI VALVE, SUPPLY AND EXHAUST DUCTWORK AS INDICATED.
- EXISTING ROOM THERMOSTAT AND CONTROL WIRING TO BE REMOVED BY DIVISION 25 AS INDICATED. REFER TO NEW HVAC SCHEMATIC AND CONTROLS ON DETAIL 3/M03.
- REMOVE EXISTING SPRINKLERS AND PIPING BRANCHES AS INDICATED.



4 HVAC PLAN – NEW WORK
 MO2 SCALE = 1:50



5 HVAC SECTION VIEW – NEW WORK
 MO2 SCALE = 1:25



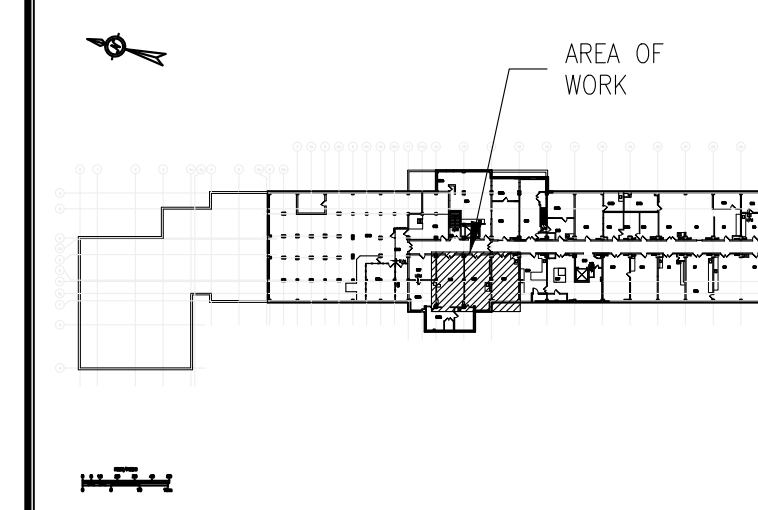
6 HVAC SECTION VIEW – NEW WORK
 MO2 SCALE = 1:50

NEW WORK NOTES:

- PROVIDE NEW OUTDOOR AIR DUCTWORK CONNECTIONS C/W VENTURI VALVE, AND REGISTERS. BALANCE EACH REGISTER AT 425 CFM.
- PROVIDE NEW FAN COIL UNITS IN ACCORDANCE WITH SPECIFICATIONS C/W ALL REQUIRED CHILLED WATER CONNECTIONS AND ASSOCIATED ACCESSORIES.
- PROVIDE NEW SUPPLY AND RETURN DUCTWORK CONNECTION FOR FAN COIL UNITS AS INDICATED. SUPPLY AND RETURN DUCTWORK TO INCLUDE INTERNAL ACOUSTIC LINER. REFER TO SPECIFICATIONS FOR THERMAL INSULATION REQUIREMENTS.
- PROVIDE NEW SUPPLY AIR DIFFUSERS IN ACCORDANCE WITH SPECIFICATIONS AND EQUIPMENT SCHEDULE. BALANCE EACH SUPPLY DIFFUSER AT 200 CFM.
- CONNECT CLIENT PROVIDED FUMEHOOD TO BUILDING EXHAUST SYSTEM AS INDICATED. PROVIDE NEW FUME HOOD EXHAUST DUCT C/W CONSTANT VOLUME VENTURI VALVE. BALANCE NEW FUMEHOOD EXHAUST AT 900 CFM. VERIFY FULL OPERATION OF FUMEHOOD. PROVIDE COPY OF BALANCING REPORT TO NRC REPRESENTATIVE FOR REVIEW.
- PROVIDE NEW ROOM THERMOSTAT AND PROVIDE NEW CONTROL WIRING AS INDICATED FOR VENTURI AIR VALVE AND FAN COIL UNITS.
- SUPPORT UNITS FROM CONCRETE SLAB WITH STEEL RODS AND SPRING ISOLATORS. PROVIDE FLEXIBLE DUCT CONNECTION.

- PROVIDE NEW 100# EXHAUST DUCT C/W EXTRACTION ARM AT THE MASS SPECTROMETER EQUIPMENT AND NEW 50# EXHAUST DUCT CONNECTED TO THE MASS SPECTROMETER PUMP AS INDICATED. PROVIDE SUPPORTS AND HANGERS REQUIRED. BALANCE AIR FLOW AT THE EXTRACTION ARM TO 65 CFM AND AT THE PUMP CONNECTION POINT TO 10 CFM, AIR FLOW AT EXTRACTION ARM IS TO BE ADJUSTABLE BY CLIENT.

KEY PLAN PLAN CLÉ



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project **M12 LAB B25 RENOVATIONS** project

MONTREAL ROAD CAMPUS

drawing **ROOM B25 MECHANICAL DEMOLITION AND NEW WORK (1 OF 2)** dessin

designed **S.F.** conçu **OCT. 2022** date

drawn **S.F.** dessiné **AS INDICATED** échelle

checked **J.W.G.** vérifié **2** of/de **4** feuille

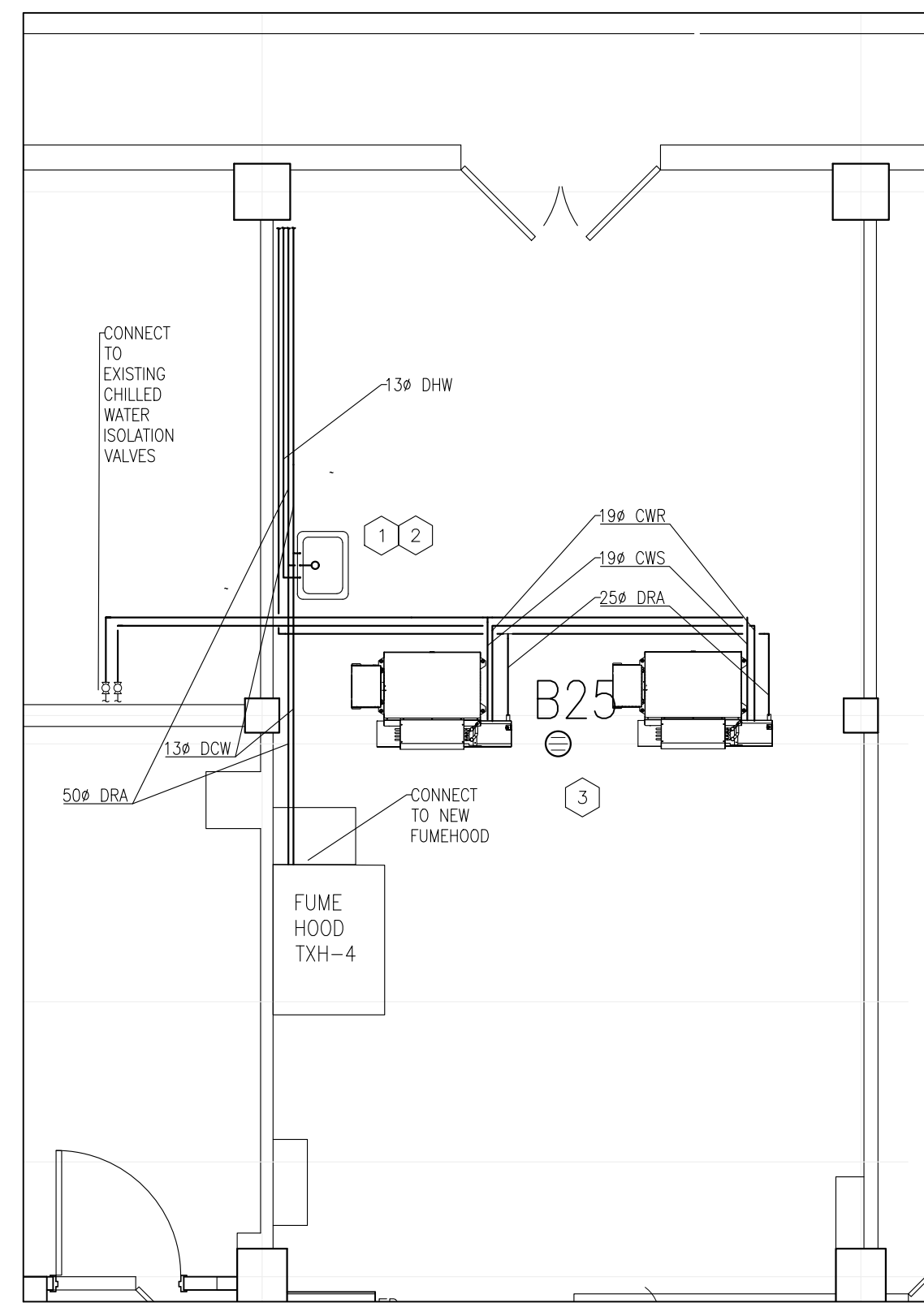
approved **F.G.** approuvé W.O.no. D.T.n°

dwg.no. **6206-M02** dessin n°

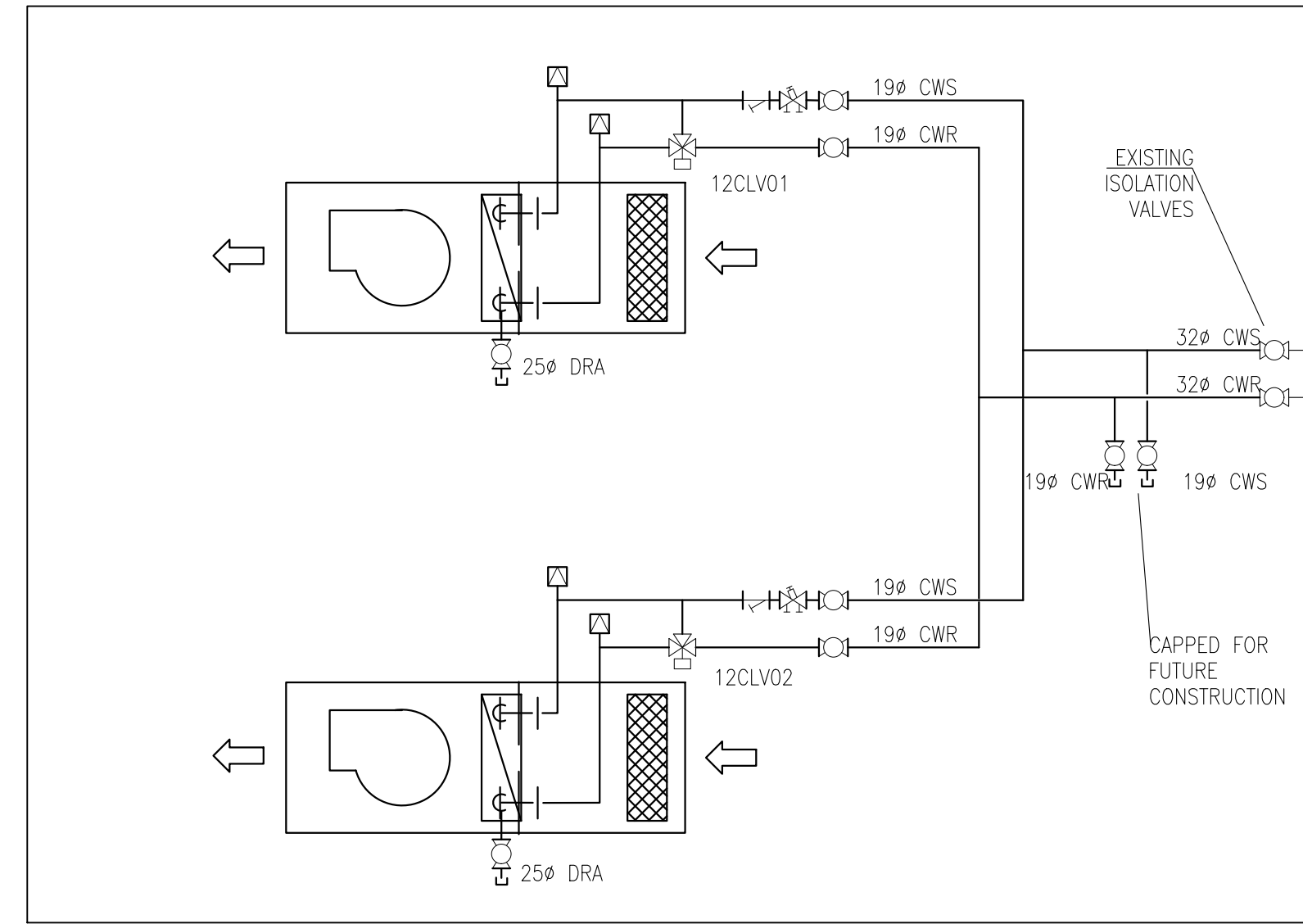
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GENERAL NOTES

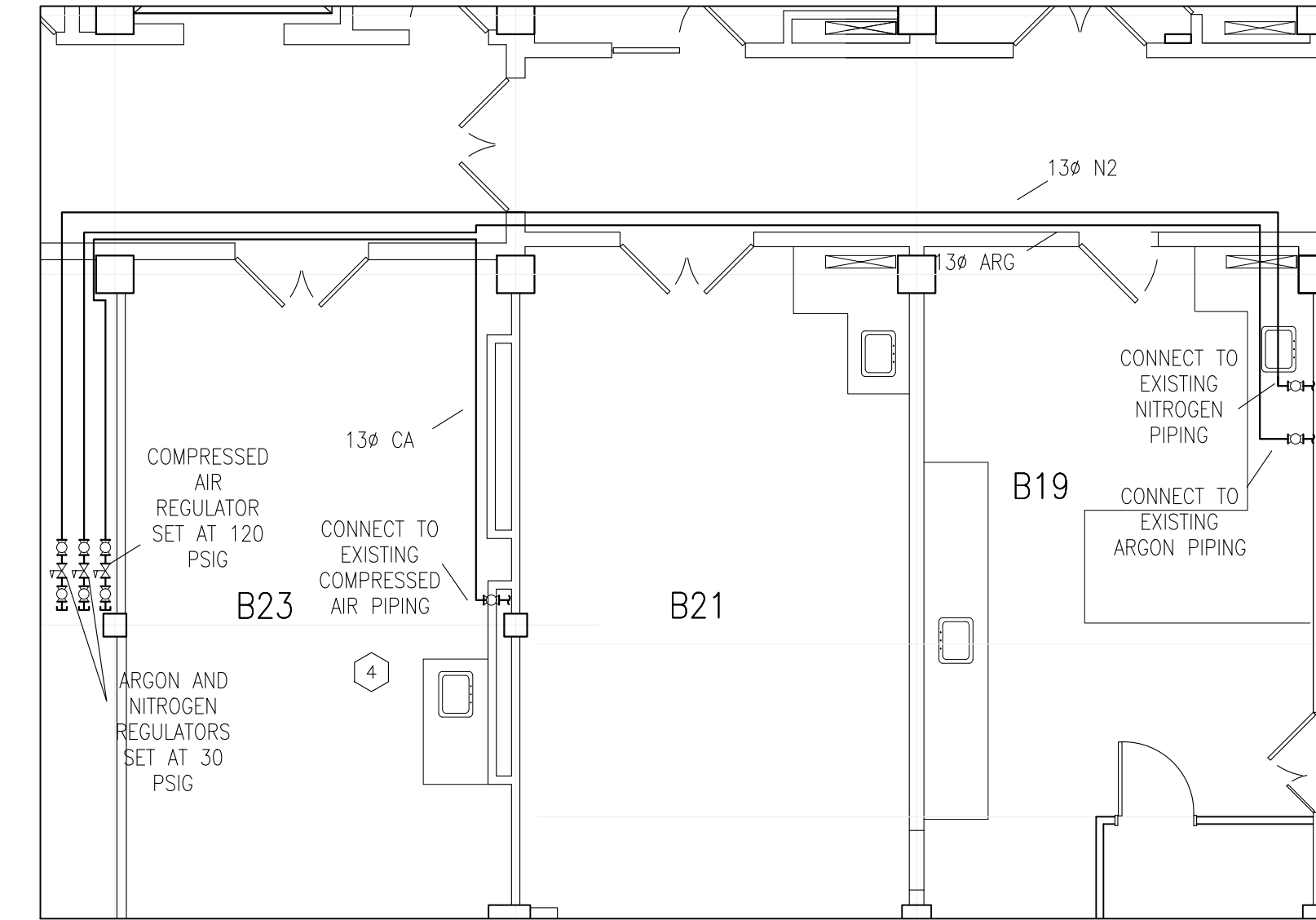
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CLEARANCES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES AND/OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
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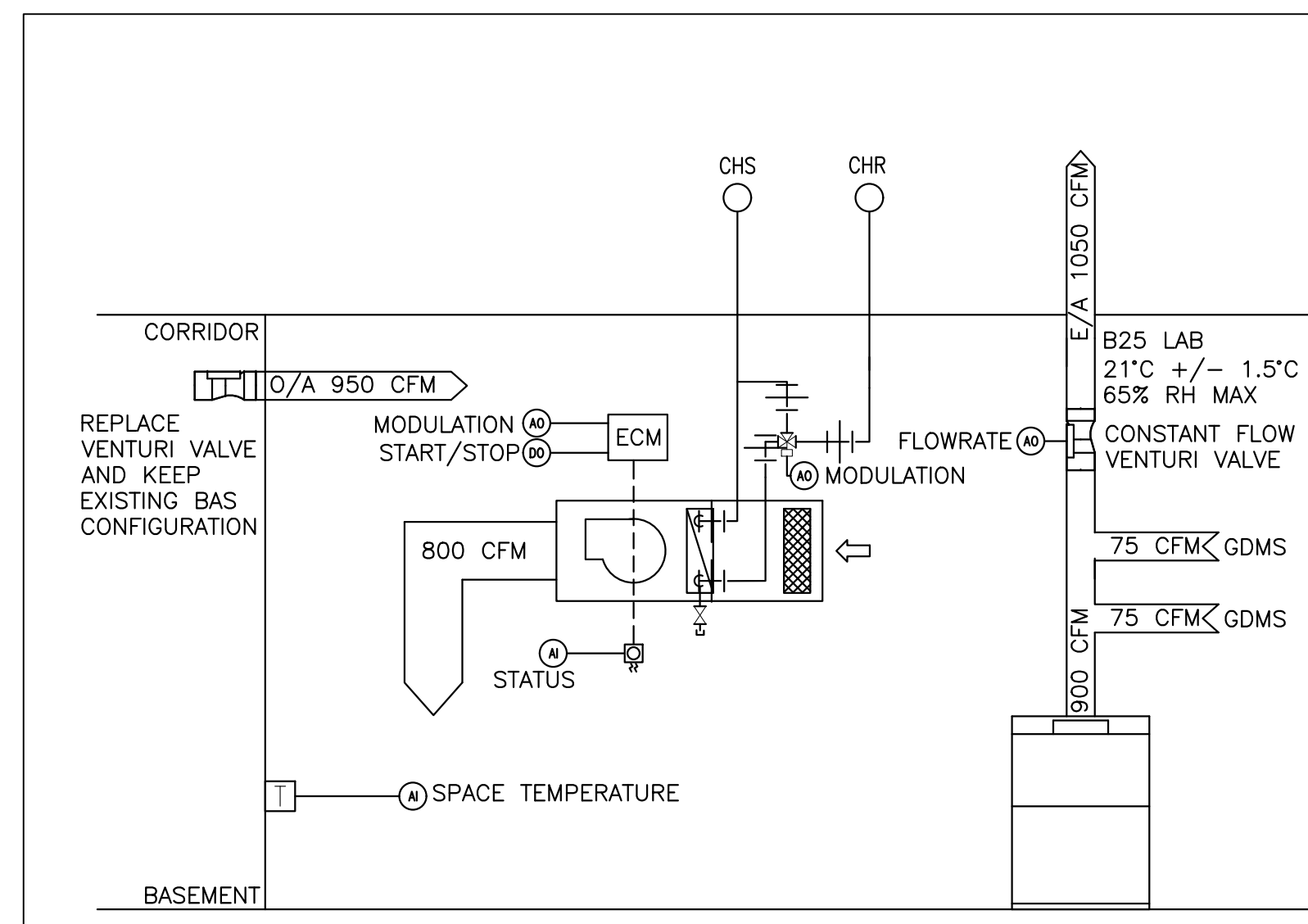
1 PLUMBING AND HVAC PIPING PLAN – NEW WORK
 M03 SCALE = 1:50



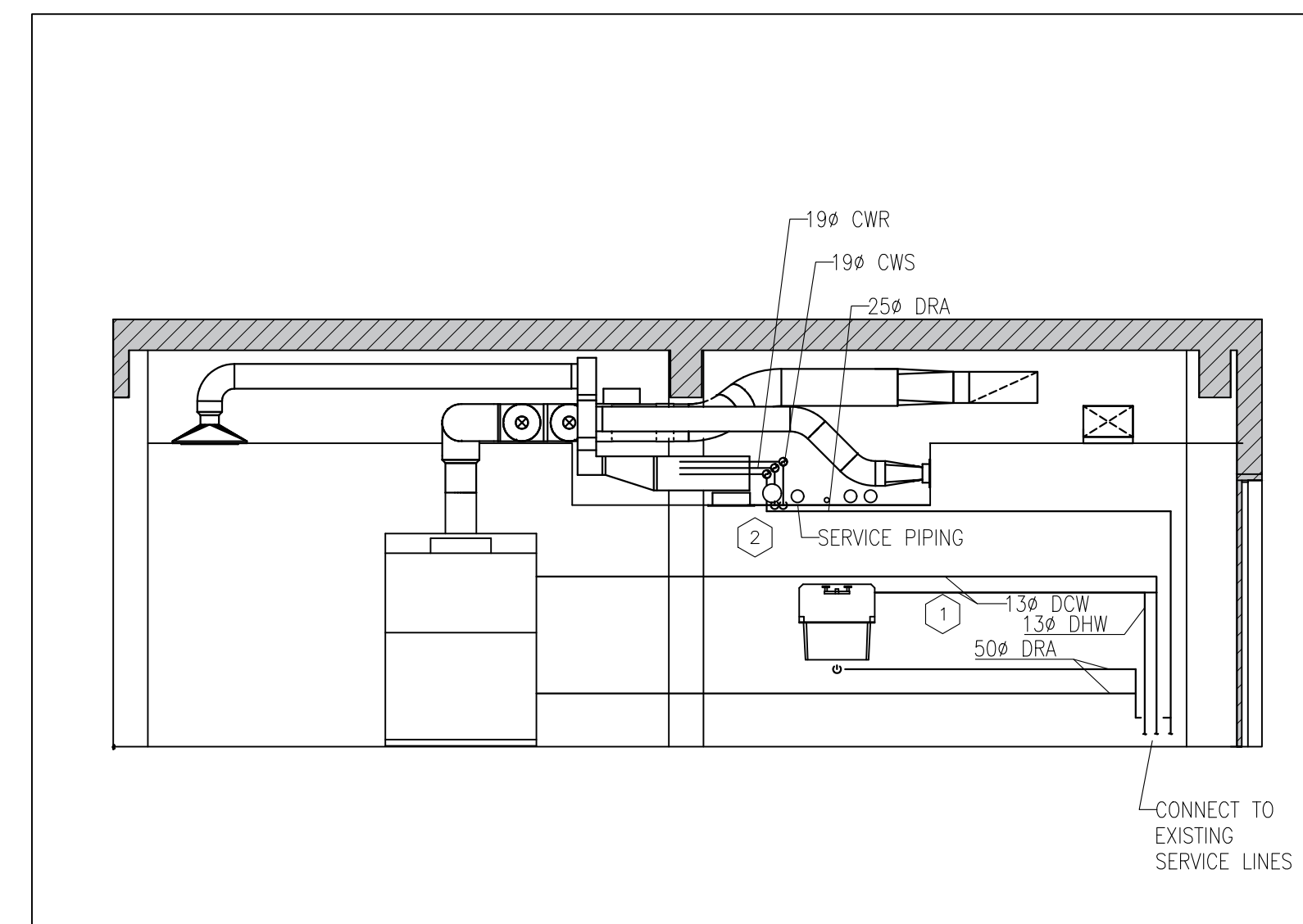
2 FAN COIL UNITS PIPING SCHEMATIC
 M03 SCALE = NTS



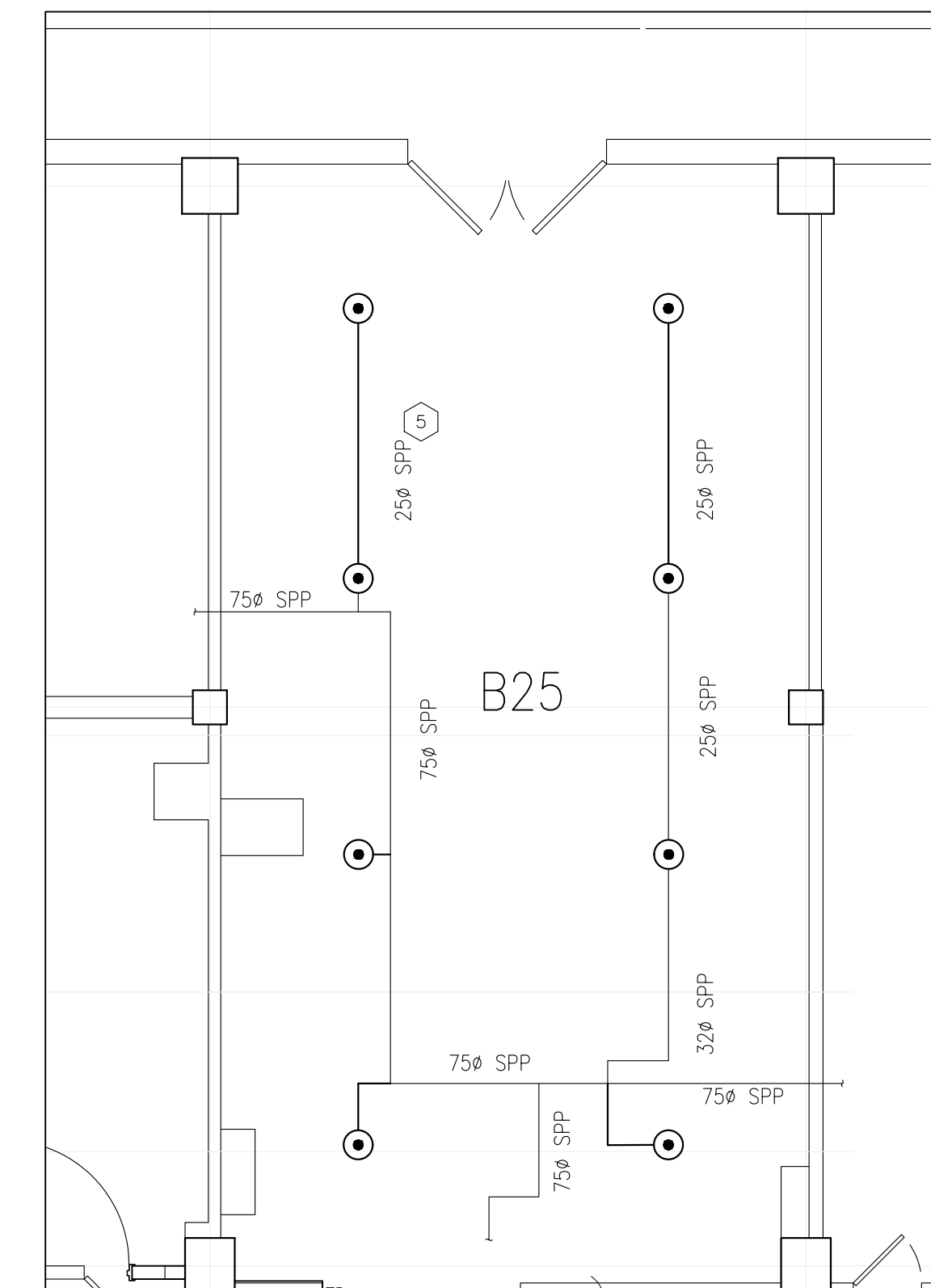
3 ARGON, COMPRESSED AIR AND NITROGEN PIPING PLAN – NEW WORK
 M03 SCALE = 1:75



4 HVAC SCHEMATIC AND CONTROLS – NEW WORK
 M03 SCALE = N.T.S.



5 PLUMBING AND HVAC PIPING SECTION VIEW – NEW WORK
 M03 SCALE = 1:50

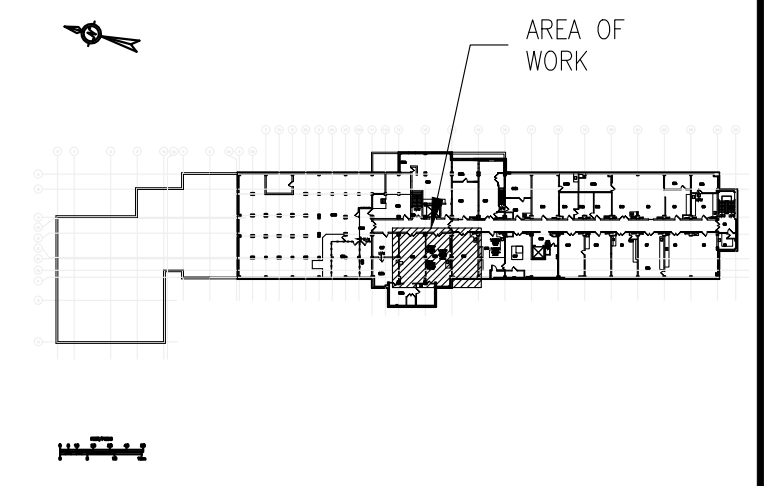


6 FIRE PROTECTION PIPING PLAN – NEW WORK
 M03 SCALE = 1:50

NEW WORK NOTES:

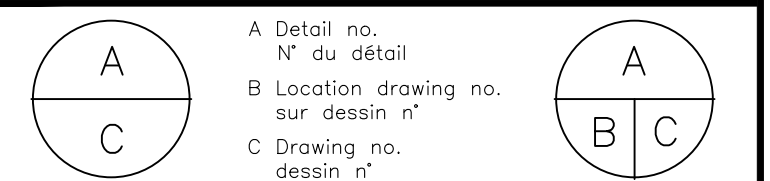
- PROVIDE NEW SINK, DOMESTIC HOT WATER (DHW), DOMESTIC COLD WATER (DCW), AND SANITARY PIPING AS INDICATED TO EXISTING BUILDING SERVICES.
- PROVIDE NEW CHILLED WATER PIPING CONNECTION DETAIL. UNITS CHILLED WATER SUPPLY (CWS), CHILLED WATER RETURN (CWR), AND DRAIN (DRA) PIPING. REFER TO EQUIPMENT SCHEDULE FOR FAN COIL UNIT, CONTROL VALVE, AND BALANCING VALVE REQUIREMENTS. REFER TO DETAIL 2/M03 FOR FAN COIL.
- REMOVE EXISTING FLOOR DRAIN COVER AND REPLACE WITH A NEW 150 mm NICKEL BRONZE COVER.
- PROVIDE NEW 13ø ARGON, NITROGEN AND COMPRESSED AIR PIPING C/W ISOLATION VALVES, AND PRESSURE REGULATOR. PROVIDE NEW PIPING SUPPORTS ON WALL TO LIMIT MOVEMENT OF PIPING. LABEL PIPING AS PER SPECIFICATIONS. ALL PIPING SHALL BE COPPER TUBING WITH "SWAGelok" TYPE COMPRESSION FITTINGS. ANY AND ALL THREADED FITTINGS SHALL BE SEALED WITH TEFLON TAPE ONLY.
- PROVIDE NEW SPRINKLERS, REQUIRED BRANCH PIPING, AND CONNECTIONS AS INDICATED. SPRINKLERS TO BE RECESSED PENDANT TYPE, ULC LISTED AT 75 C (165 F). ACCEPTABLE MATERIAL TYCO TY-B PENDENT (TY3251) SPRINKLERS 5.6 K-FACTOR, 1/2 IN. NPT, STANDARD RESPONSE OR APPROVED EQUAL. FIRE PROTECTION CONTRACTOR IS TO VERIFY LOCATIONS AND TO ASSURE THAT THE SYSTEM MEETS CODE REQUIREMENTS.

KEY PLAN PLAN CLÉ



0	03 01 2023	ISSUED FOR TENDER	S.F.
No.	Date	Revision	By: / Par :
Date Printed DD MM YYYY		Date d'impression	

- Verify all dimensions and site conditions and be responsible for same.
- Verifier toutes les dimensions et l'état des lieux et en assumer la responsabilité

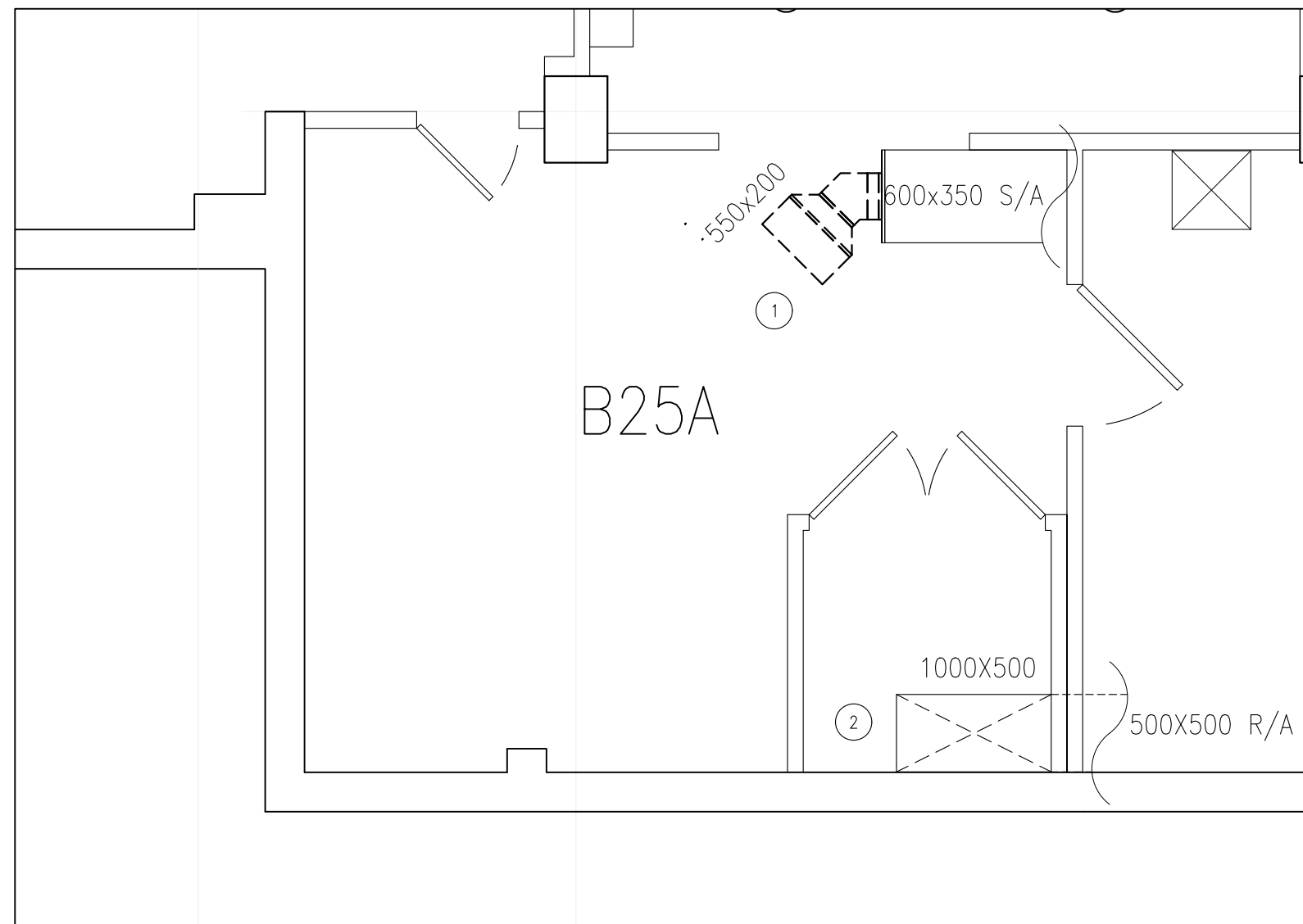


project **M12 LAB B25 RENOVATIONS** project
 MONTREAL ROAD CAMPUS
 drawing **ROOM B25 MECHANICAL DEMOLITION AND NEW WORK (2 OF 2)** dessin

designed	SF.	conçu	date	OCT. 2022	date
drawn	SF.	dessiné	scale	AS INDICATED	échelle
checked	JWG.	vérifié	sheet	3 of/de 4	feuille
approved	FG.	approuvé	W.O.no.		D.T.n°
dwg.no.	6206-M03				dessin n°
ACAD file:					fichier CDAO :

GENERAL NOTES

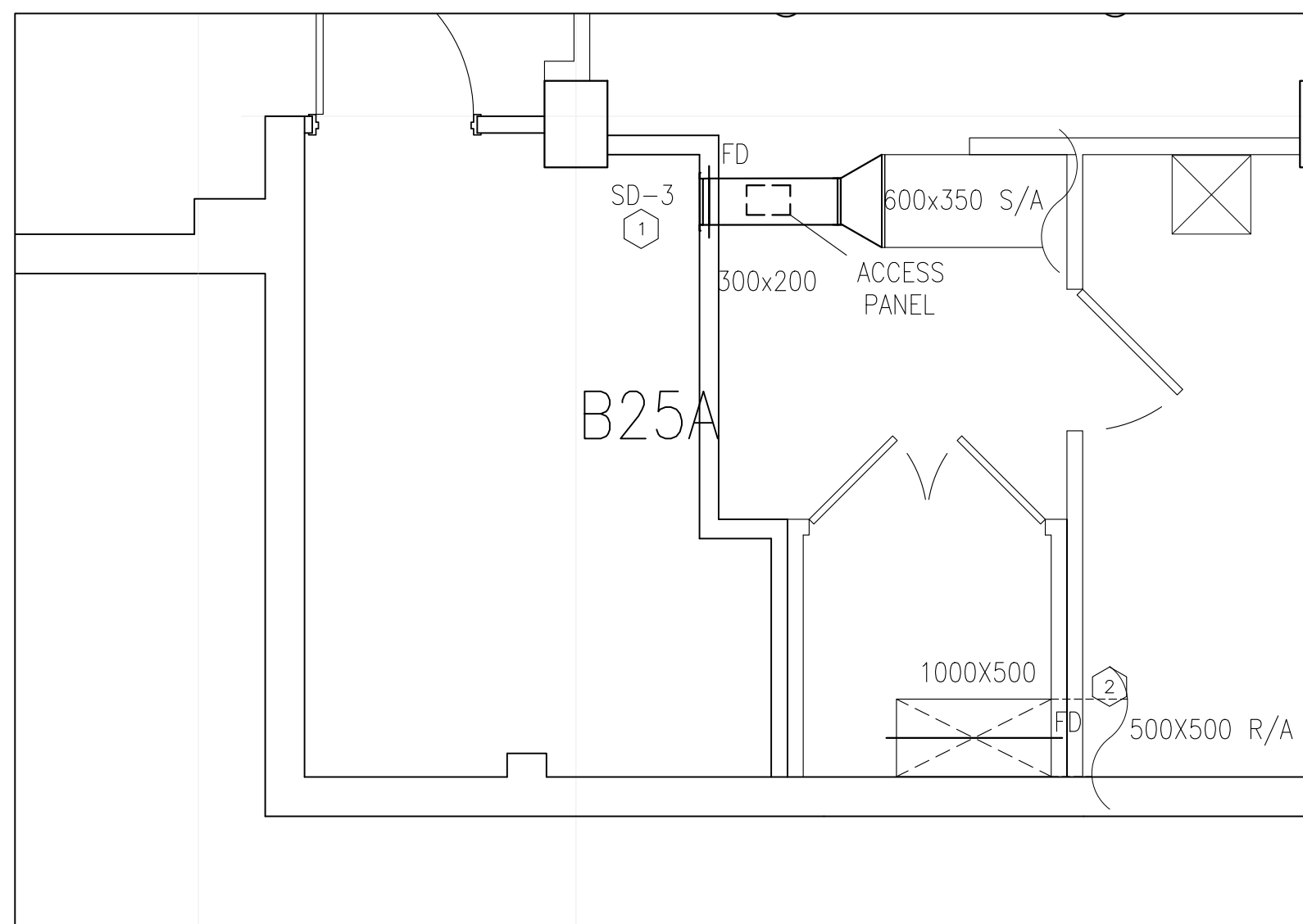
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1 HVAC PLAN – DEMOLITION WORK
 MO4 SCALE = 1:40

DEMOLITION NOTES:

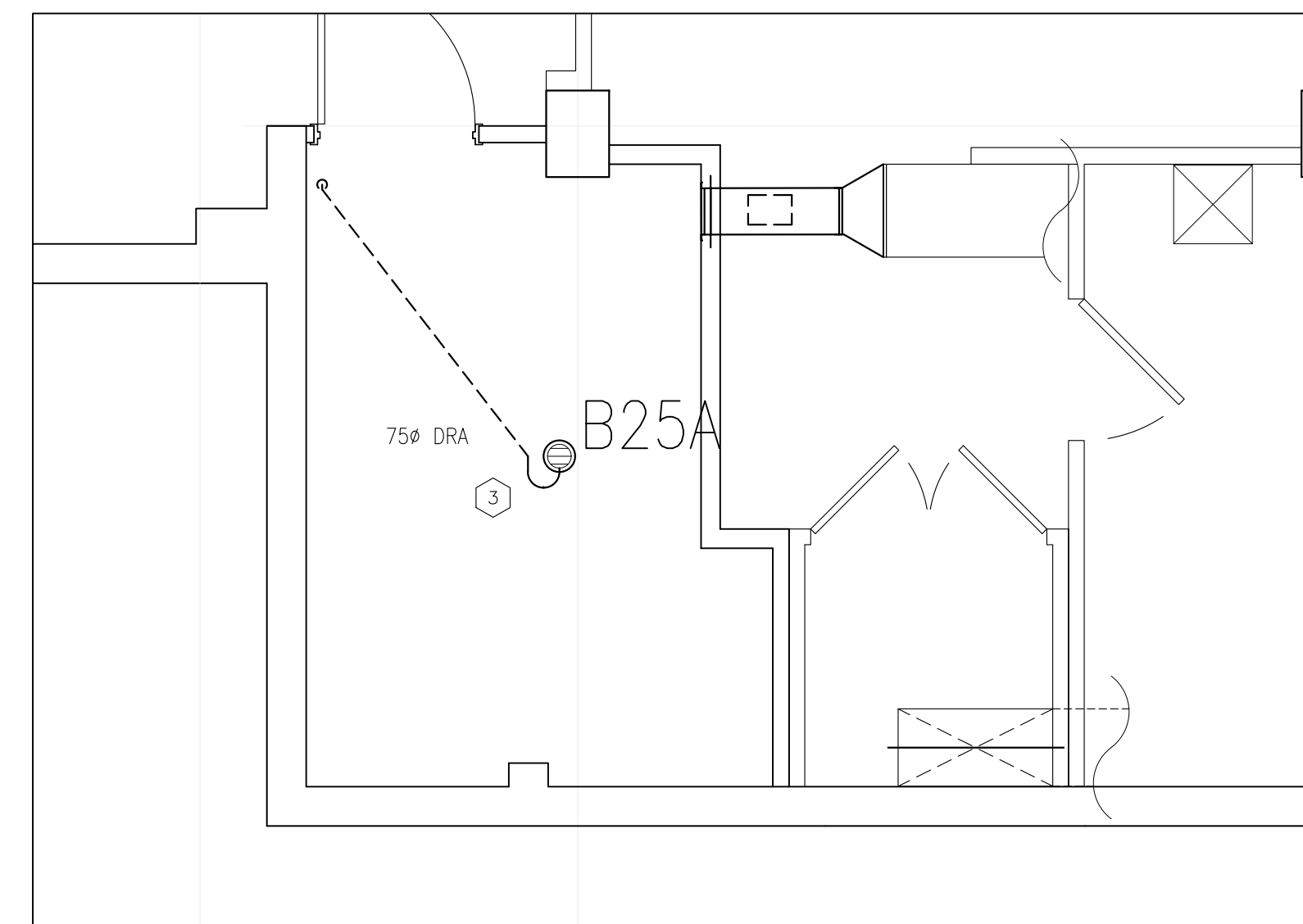
- REMOVE EXISTING SUPPLY AIR DUCTWORK COMPLETE WITH SUPPLY GRILLE AS INDICATED.
- TEMPORARILY REMOVE DUCTWORK AT FLOOR PENETRATION TO ALLOW FOR NEW FIRE DAMPER INSTALLATION.



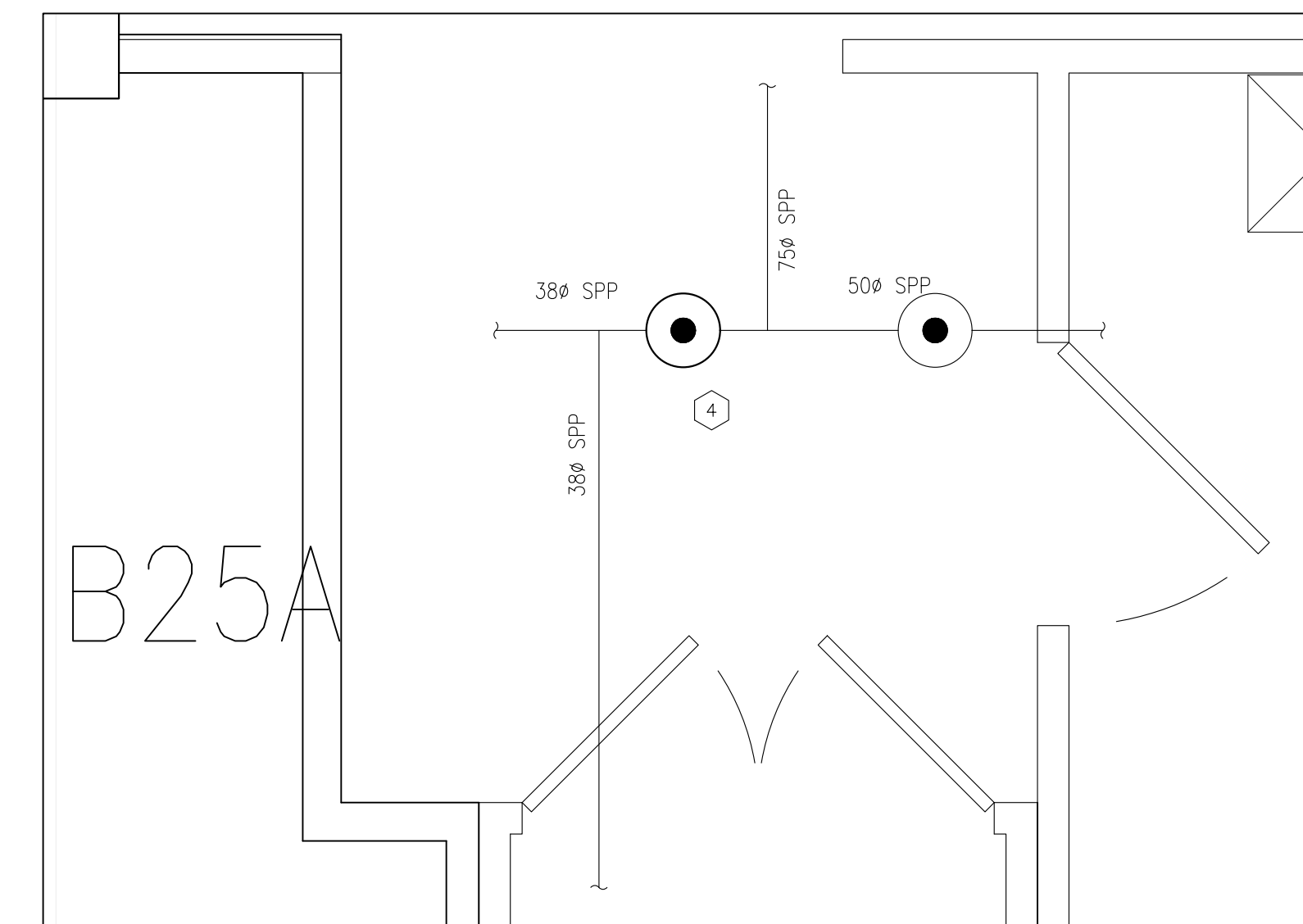
2 HVAC PLAN – NEW WORK
 MO4 SCALE = 1:40

NEW WORK NOTES:

- PROVIDE NEW SUPPLY AIR DUCTWORK CONNECTIONS C/W FIRE DAMPER AND REGISTER. REFER TO SPECIFICATIONS FOR DETAIL.
- PROVIDE NEW FIRE DAMPER IN EXISTING FLOOR OPENING AS INDICATED. REFER TO SPECIFICATIONS FOR DETAIL AND MANUFACTURER'S INSTRUCTIONS FOR FIRE STOPPING.
- PROVIDE NEW 75 mm FLOOR DRAIN C/W WATERLESS INLINE DRAIN TRAP SEAL. CONNECT NEW DRAIN PIPE INTO EXISTING 100 mm DRAIN RISER BELOW THE SLAB.
- PROVIDE NEW SPRINKLER, REQUIRED BRANCH PIPING, AND CONNECTIONS AS INDICATED. SPRINKLERS TO BE UPRIGHT TYPE, ULC LISTED AT 75 C (165 F). ACCEPTABLE MATERIAL TYCO UPRIGHT (TY315) SPRINKLERS 5.6 K-FACTOR, 1/2 IN. NPT, STANDARD RESPONSE OR APPROVED EQUAL. FIRE PROTECTION CONTRACTOR IS TO VERIFY LOCATIONS AND TO ASSURE THAT THE SYSTEM MEETS CODE REQUIREMENTS.

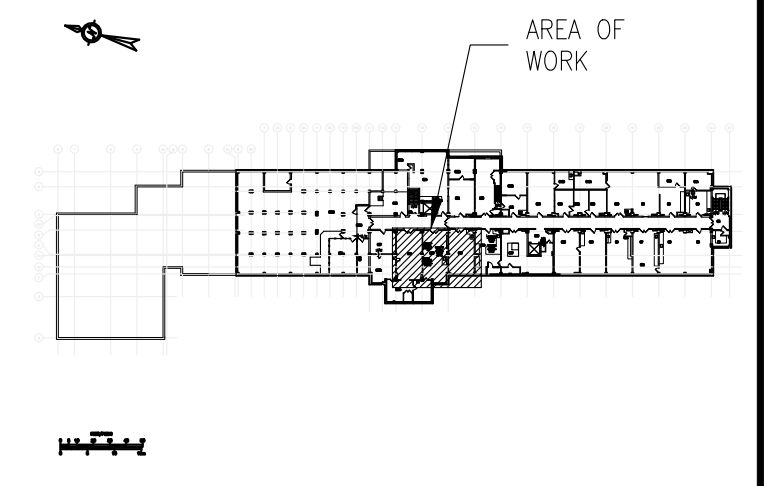


3 PLUMBING PLAN – NEW WORK
 MO4 SCALE = 1:40



4 FIRE PROTECTION PIPING PLAN – NEW WORK
 MO4 SCALE = 1:20

KEY PLAN PLAN CLÉ



0	03 01 2023	ISSUED FOR TENDER	S.F.
No.	Date	Revision	By: Par :
Date Printed DD MM YYYY		Date d'impression	

- Verify all dimensions and site conditions and be responsible for same.
- Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité.

A	A Detail no. N° du détail	A
B	B Location drawing no. sur dessin n°	B
C	C Drawing no. dessin n°	C

project	M12 LAB B25 RENOVATIONS			project
drawing	ROOM B25A MECHANICAL DEMOLITION AND NEW WORK			dessin
designed	S.F.	conçu	date	OCT. 2022
drawn	S.F.	dessiné	scale	AS INDICATED
checked	J.W.G.	vérifié	sheet	4 of/de 4
approved	F.G.	approuvé	W.O.no.	D.T.n°

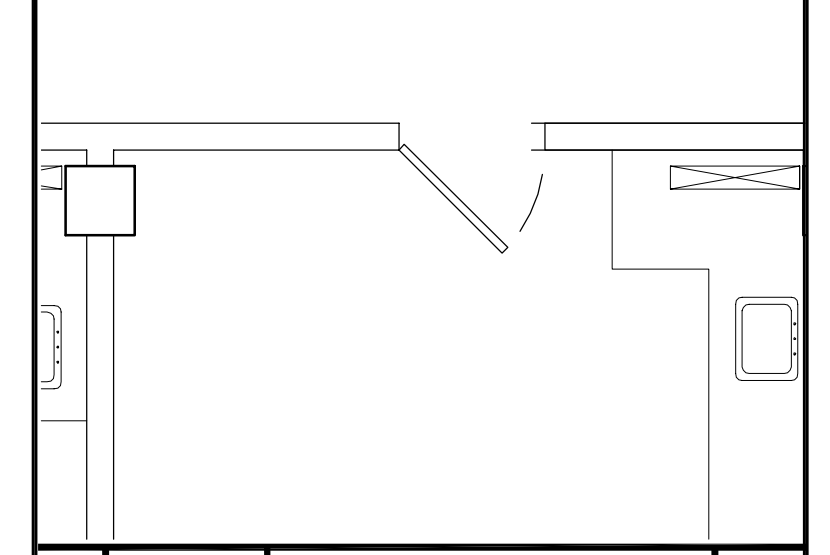
dwg.no.	6206-M04			dessin n°
ACAD file	6206-M04			fichier CDAO :



GENERAL NOTES

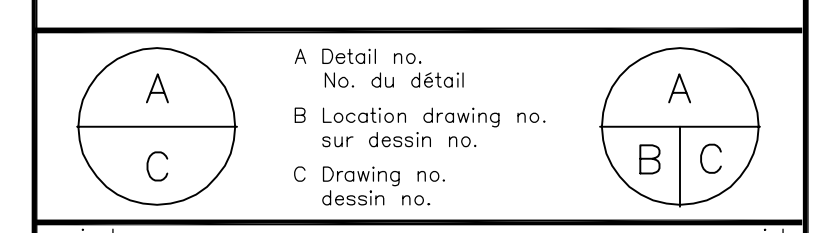
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KEY PLAN / PLAN CLÉ

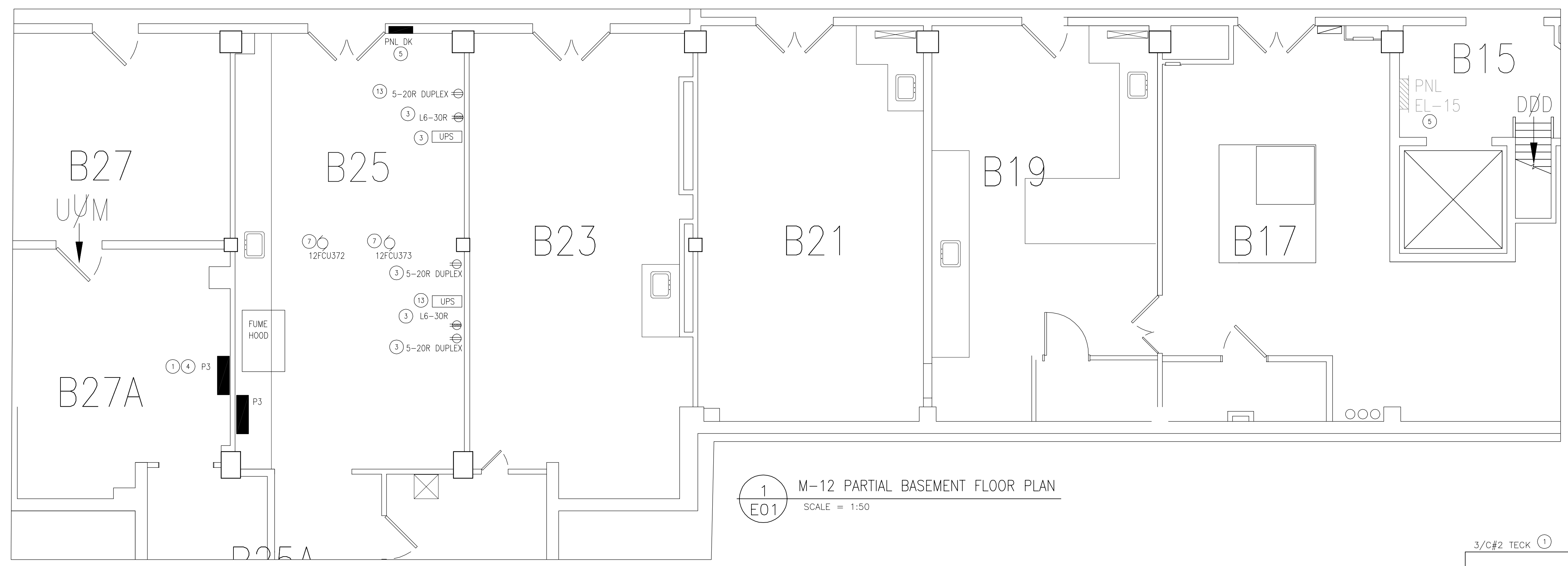


No.	Date	Revision	By:
0	DD MM YYYY	XXXX	???

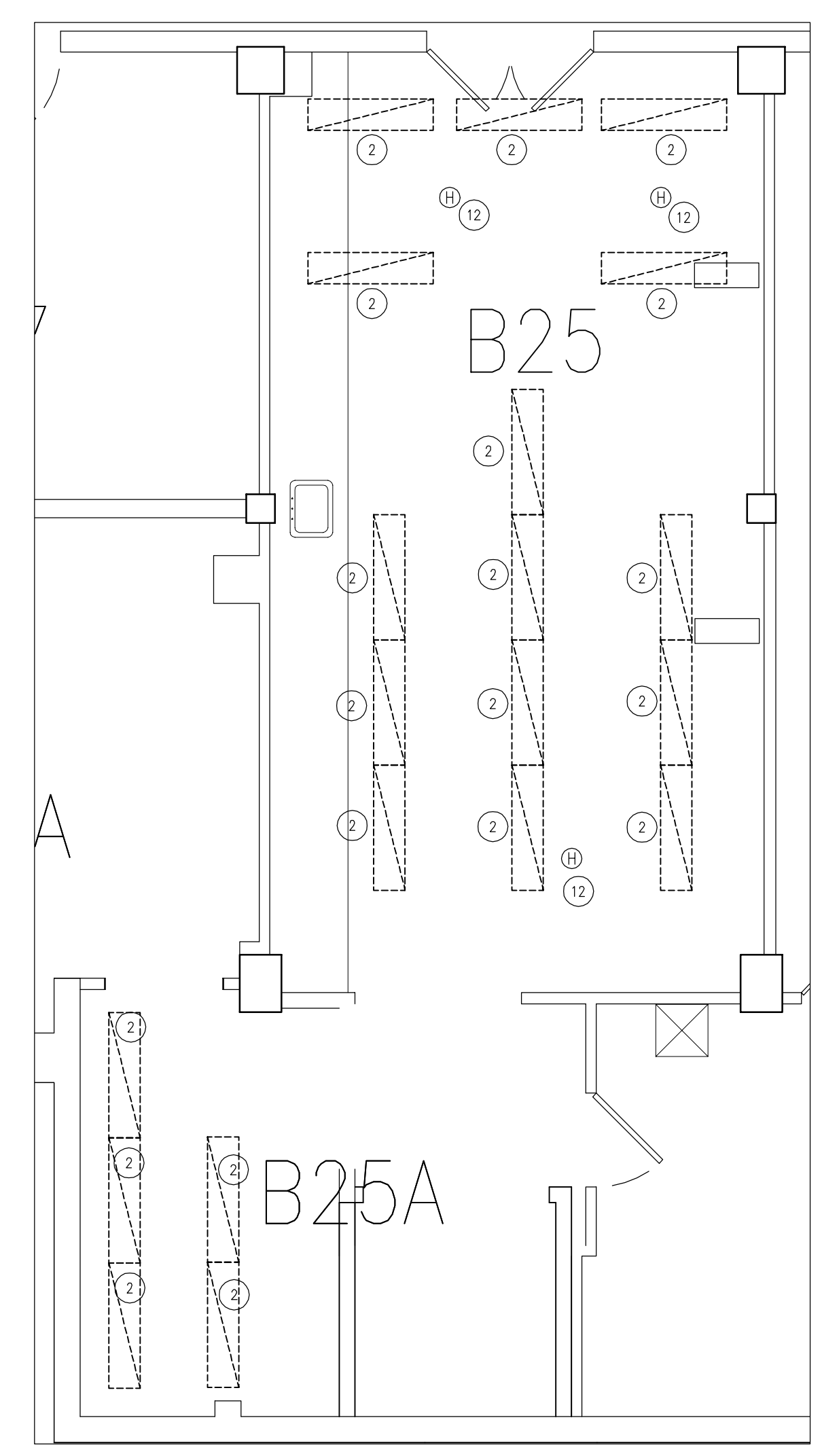
Date Printed DD MM YYYY / Date imprimée
 o Verify all dimensions and site conditions and be responsible for same
 o Vérifier toutes les dimensions et l'état des lieux et en assumer la responsabilité



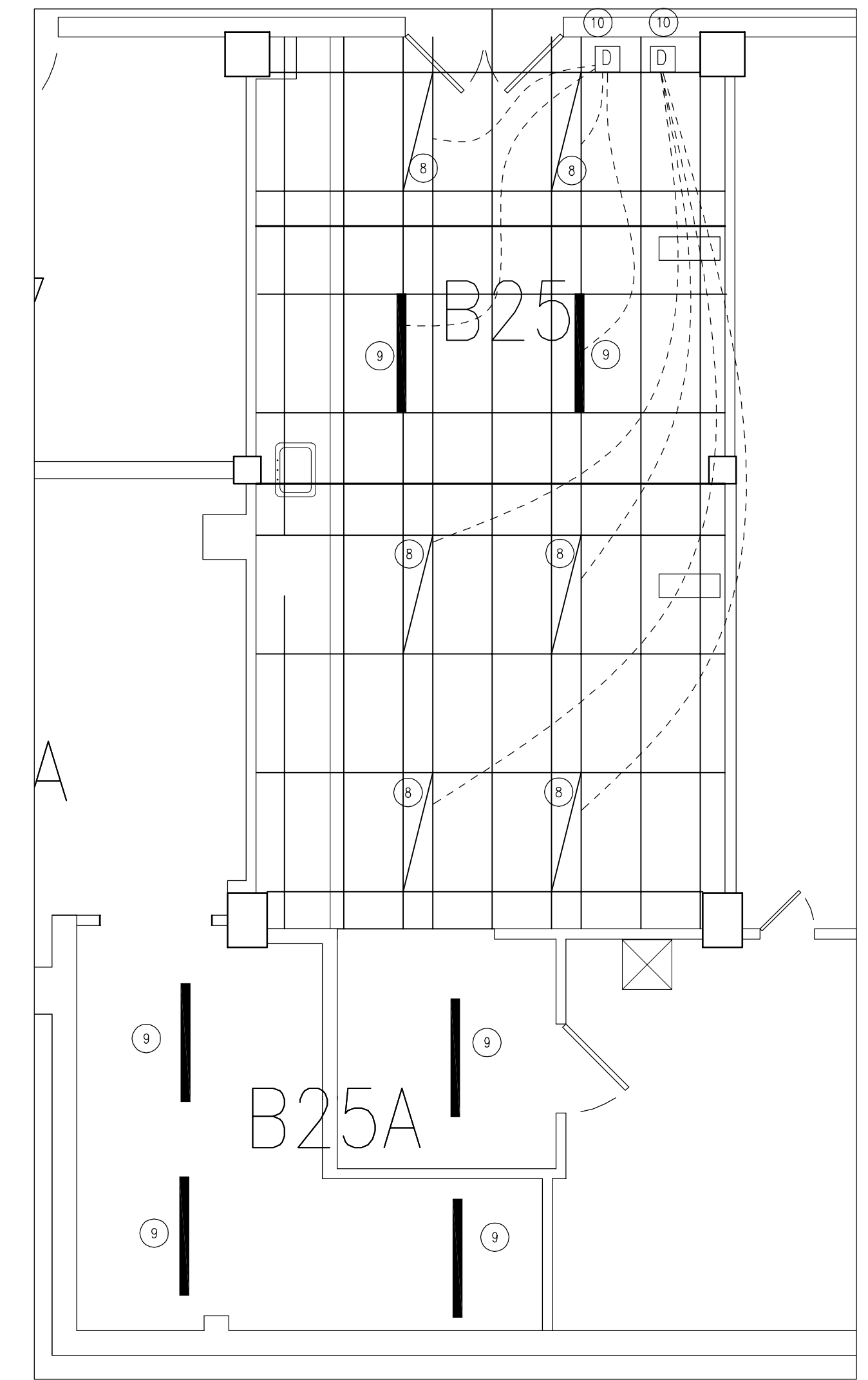
Project / projet		M-12 ROOM B25	
MONTREAL ROAD CAMPUS			
drawing / dessin			
ELECTRICAL POWER AND LIGHTING			
designed / conçu	KXL	date / date	NOV/2022
drawn / dessiné	KXL	scale / échelle	AS NOTED
checked / vérifié	KXL	sheet / feuille	E01 of/de E01
approved / approuvé	FG	W.O.no.	D.T.no.
dwg.no. / dessin no.		6206-E01	



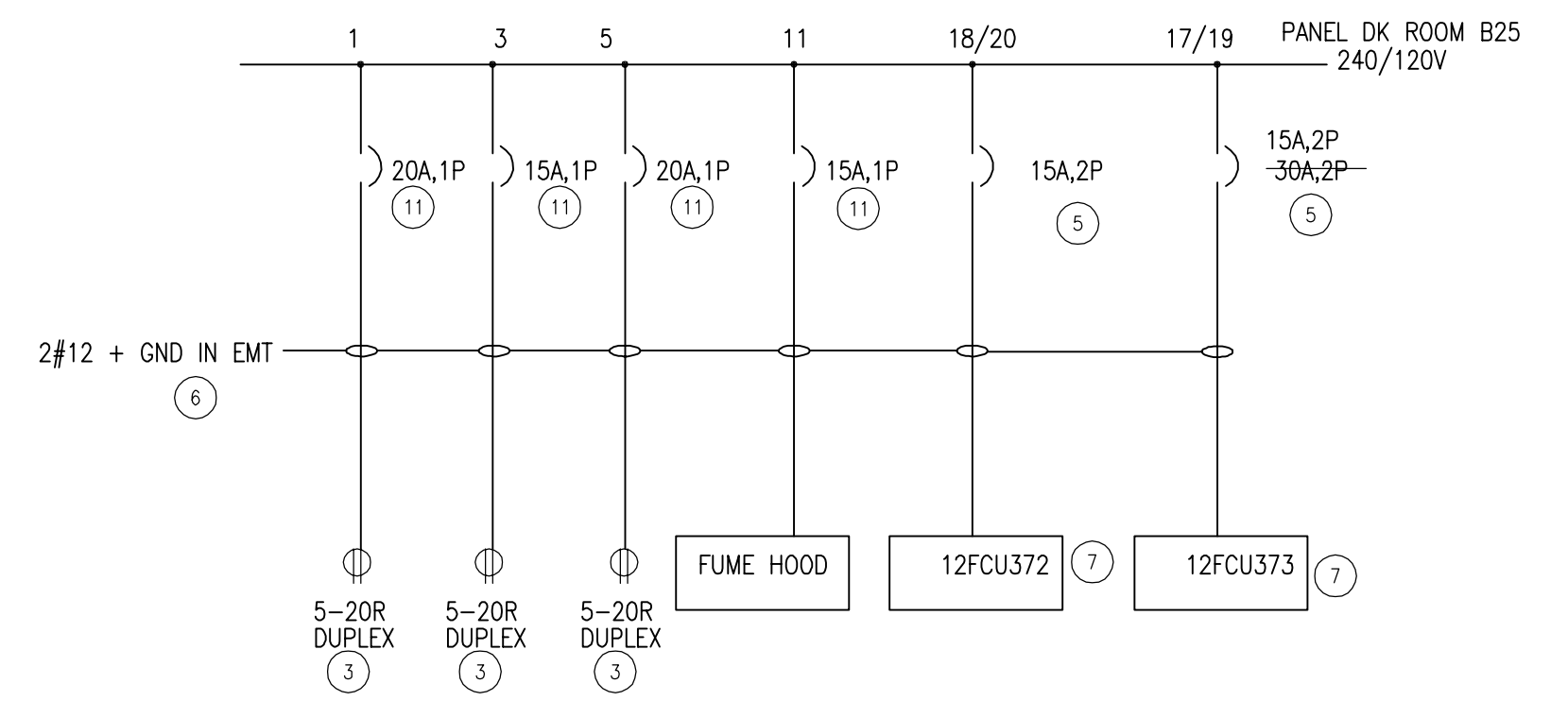
1 M-12 PARTIAL BASEMENT FLOOR PLAN
 E01 SCALE = 1:50



2 ROOM B25 CEILING DEMOLITION PLAN
 E01 SCALE = 1:50



3 ROOM B25 CEILING NEW PLAN
 E01 SCALE = 1:50



4 SINGLE LINE DIAGRAM
 E01 SCALE =

WORK NOTES:

- DISCONNECT AND REMOVE EXISTING PANEL P3, EXISTING WIRING TO BE EXTENDED TO NEW PANEL LOCATION FROM EXISTING JUNCTION BOX OVERHEAD, REMOVE ALL WIRING BELOW THE JUNCTION BOX. PROVIDE ADDITIONAL WIRING AND SPLICES AS REQUIRED.
- DISCONNECT AND REMOVE EXISTING LIGHTS IN ROOM B25.
- PROVIDE NEW SURFACE RECEPTACLE, FINAL LOCATION AS PER SITE INSTRUCTION.
- PROVIDE NEW SQ D I-LINE PANEL WITH BREAKERS ON WALL WITH SUPPORT.
- PROVIDE NEW BREAKER IN EXISTING PANEL AS SHOWN.
- PROVIDE NEW WIRING AND CONNECTION.
- DIVISION 26 PROVIDE FLEXIBLE CONNECTION TO FAN COIL.
- PROVIDE (6) NEW 120V LED RECESSED LIGHT FIXTURE IN SUSPENDED CEILING. CONNECT TO EXISTING LIGHTING CIRCUIT.
- SIGNIFY DAY-BRITE CFI, FLUXGRID 1X4, 4000K, 4500 LUMEN, INTEGRAL SENSOR, 1FG45L8404UNVDM-SWZCS.
- PROVIDE (6) NEW 120V LED CEILING MOUNT SURFACE LINEAR STRIP LIGHT FIXTURE ON SUSPENDED CEILING. CONNECT TO EXISTING LIGHTING CIRCUIT.
- SIGNIFY DAY-BRITE CFI, FLUXSTREAM 4', 4000K, 4000 LUMEN, INTEGRAL SENSOR, FSS44QL840UNVDM-SWZCS.
- PROVIDE SURFACE MOUNT ZIGBEE WIRELESS DIMMER SWITCH, PHILIPS,UD8465/10 ZGP SWITCH DIM 2B. PROVIDE PROGRAMMING ON SITE TO CONTROL ZONE AS SHOWN. WIRED TO EXISTING CIRCUIT.
- EXISTING SPARE BREAKER TO BE CONNECTED TO NEW CIRCUIT.
- DISCONNECT AND REMOVE EXISTING HEAT DETECTOR. PROVIDE FIRE ALARM VERIFICATION REPORT AS PER ULC-5537.
- PROVIDE UPS
 - POWERWARE SECURITY PLUS II UPS 1PH, 208V IN, 115/230V OUT, 5.2KVA/5.2KW
 - ON POWER QUOTATION # 01-019497
 - FINAL LOCATION AS PER SITE INSTRUCTION
 - PROVIDE ON SITE STARTUP
 - CONTACT: Pascal Duchesne <pduchesne@nrcpower.com> 514-942-0323

