

NATIONAL RESEARCH COUNCIL CANADA

MONTREAL ROAD CAMPUS

M-19 ROOM 230, SECURITY OFFICE ACCOMMODATION PILOT PROJECT

DRAWING LIST
COVER SHEET

DRAWING No.
6073-CS1

ARCHITECTURAL

DEMOLITION: FLOOR PLAN AND REFLECTED CEILING PLAN 6073-A01
 CONSTRUCTION: FLOOR PLAN AND REFLECTED CEILING PLAN 6073-A02
 FINISHES PLAN, FURNITURE PLAN AND FURNITURE DETAILS 6073-A03
 FURNITURE IMAGES 6073-A04

MECHANICAL

MECHANICAL: DEMOLITION PLANS, SCHEDULE AND LEGENDS 6073-M01
 MECHANICAL: CONSTRUCTION PLANS AND DIAGRAM 6073-M02

ELECTRICAL

ELECTRICAL: LEGEND, DETAILS AND SCHEDULES 6073-E01
 ELECTRICAL: POWER, SYSTEMS AND SOUND MASKING, NEW AND DEMOLITION WORK 6073-E02
 ELECTRICAL: LIGHTING, FIRE ALARM AND SOUND MASKING, NEW AND DEMOLITION 6073-E03

LEGEND	
APPLICABLE TO ALL ARCHITECTURAL DRAWINGS	
xx	DRAWING NOTE
X AXX	ELEVATION REFERENCE
X AXX	DETAIL NUMBER
X AXX	SECTION DETAIL REFERENCE
X AXX	DRAWING NUMBER
X AXX	DETAIL REFERENCE
XXX	ROOM NUMBER
EXXX	CUBICLE ID NUMBER
DXXX	DOOR TAG
PX	PARTITION TYPE
00.00	ELEVATION HEIGHT
[Solid Grey Box]	EXISTING WALL TO REMAIN
[Dashed Grey Box]	EXISTING WALL TO BE REMOVED
[White Box]	NEW WALL
[Hatched Box]	AREA NOT IN CONTRACT (DOES NOT PRECLUDE ELECT./MECH. WORK)



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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KEY PLAN PLAN CLÉ

7			
6			
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1	30/05/2022	ISSUED FOR TENDER	SWH
No.	Date	Revision	By: Par:

Date Printed 19/04/2022 Date imprimée

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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 M-19 ROOM 230, SECURITY OFFICE ACCOMMODATION PILOT PROJECT

MONTREAL ROAD CAMPUS
drawing COVER SHEET

designed SWH conçu date MAY 2022

drawn SWH / FD / MD dessiné scale AS NOTED échelle

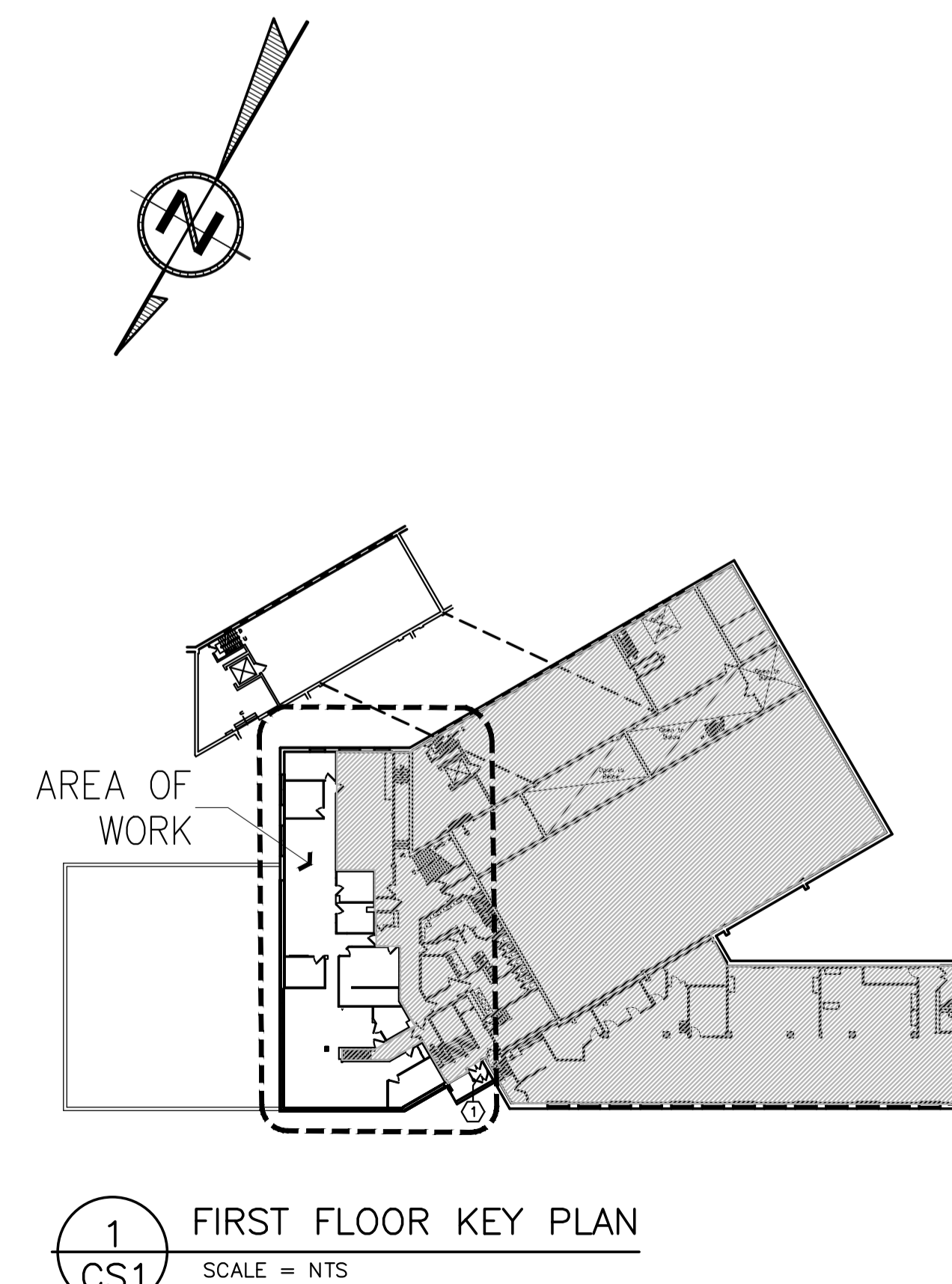
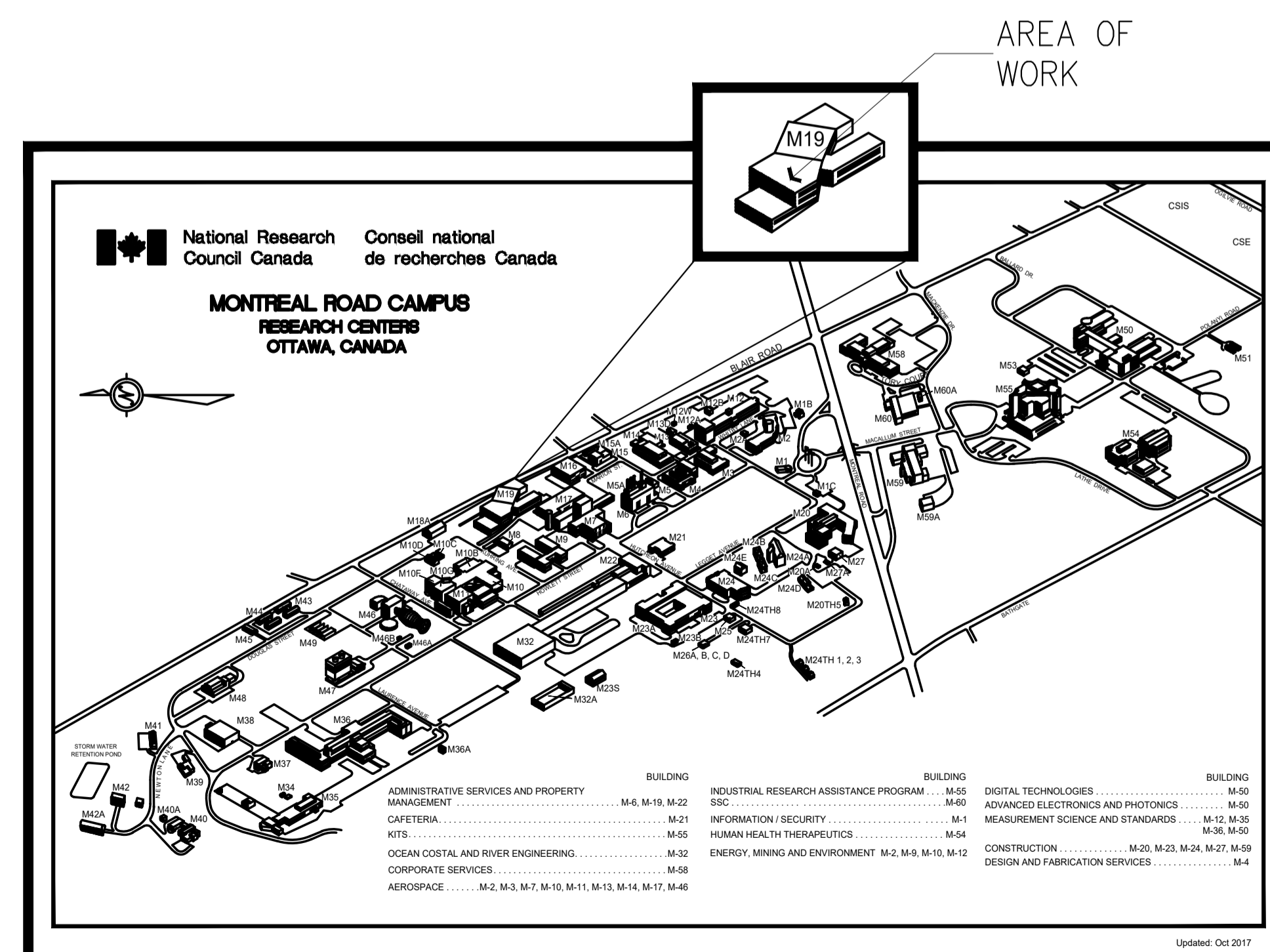
checked J.D. vérifié sheet 1 of/de 5 feuille

approved J.L. approuvé W.O.no. D.T.no.

dwg.no. 6073-CS1 dessin n°

ACAD file: 6073-CS1 fichier CDAO:

ABBREVIATIONS			
ACP	ACOUSTIC CEILING PANEL	HM	HOLLOW METAL
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
CONC	CONCRETE	O.C.	ON CENTER
CPT	CARPET	PS	PRESSED STEEL
CMU	CONCRETE MASONRY UNIT	PT	PAINT
C/W	COMPLETE WITH	PCT	PAINTED CONCRETE TOPPING
DMNT	DEMOUNTABLE	REV	REVERSE
DWG	DRAWING	RWB	RESILIENT WALL BASE
(E)	EXISTING	SIM	SIMILAR
FFL	FINISHED FLOOR LEVEL	SP	SPRINKLER HEAD
GB	GYPSUM BOARD	U/S	UNDERSIDE
		TYP	TYPICAL



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project / projet
 M-19 ROOM 230, SECURITY OFFICE ACCOMMODATION PILOT PROJECT

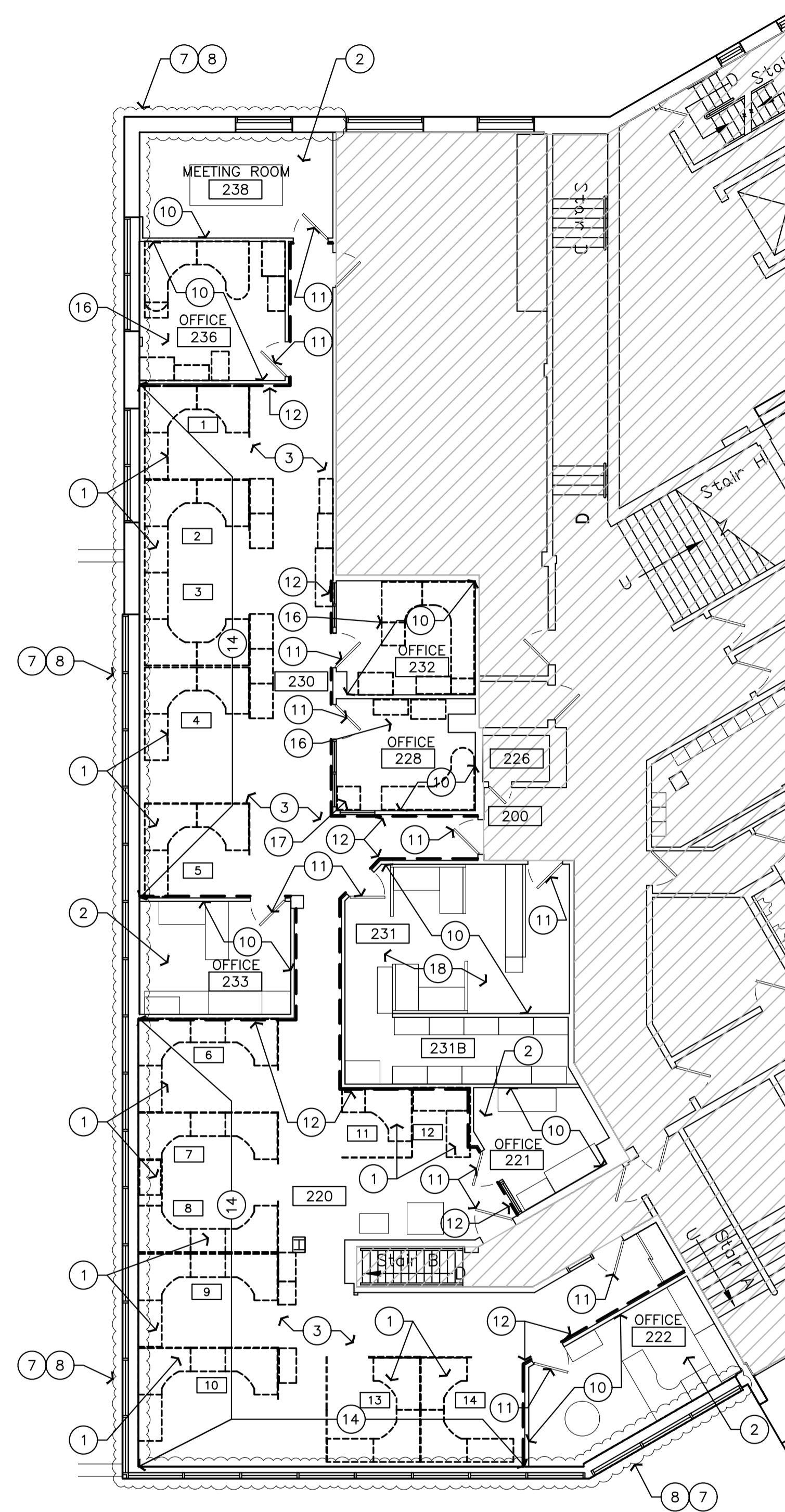
MONTREAL ROAD CAMPUS
 drawing / dessin
 DEMOLITION: FLOOR PLAN AND REFLECTED CEILING PLAN

designed / conçu	SWH	date / date	MAY 2022
drawn / dessiné	SWH / FD / MD	scale / échelle	AS NOTED
checked / vérifié	J.D.	sheet / feuille	2 of / de 5
approved / approuvé	J.L.	W.O.no. / D.T.no.	
dwg.no. / ACAD file:	6073-A01	dessin n° / fichier CDAO:	

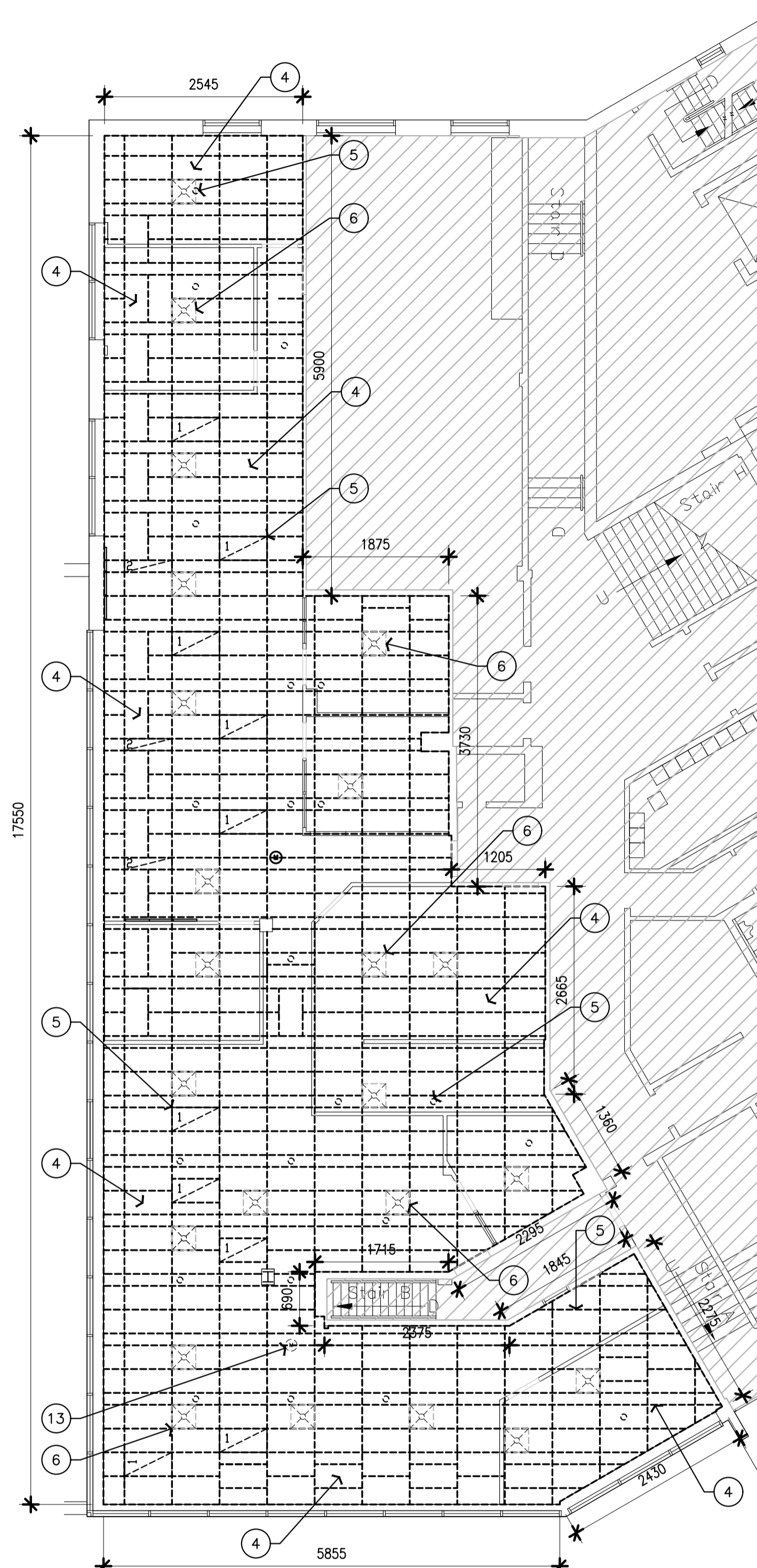
DEMOLITION NOTES

SHEET A01 ONLY

1. REMOVE EXISTING FURNITURE STATIONS NUMBERED 1 TO 14 AND DISPOSE OF OFF SITE. REFER TO SPECIFICATIONS.
2. EXISTING FURNITURE IN ROOM TO REMAIN. GC TO REMOVE AND REINSTALL FOR EXISTING CARPET REMOVAL AND NEW CARPET INSTALLATION.
3. REMOVE EXISTING CARPET TILE, EXISTING RUBBER BASE AND DISPOSE OF OFF SITE. REFER TO SPECIFICATIONS. IN THE FOLLOWING ROOMS/CORRIDORS:
 A. ROOMS 221, 222, 228, 232, 233, 233, 236, 238.
 B. OPEN AREAS 220 AND 230.
4. REMOVE ENTIRE EXISTING SUSPENDED CEILING SYSTEM IN PROJECT AREA AND DISPOSE OF OFF SITE. REFER TO SPECIFICATIONS.
5. EXISTING LIGHT FIXTURES TO BE REMOVED. REFER TO ELECTRICAL.
6. EXISTING CEILING DIFFUSERS TO BE REMOVED. REFER TO MECHANICAL.
7. PROTECT EXISTING BLINDS FOR DURATION OF PROJECT. CLEAN BLINDS UPON COMPLETION OF WORK.
8. PREPARE EXISTING GYPSUM BOARD SURFACE (ALONG EXTERIOR WALL) TO BE PAINTED WITH TWO COATS OF PAINT FINISH.
9. EXISTING GYPSUM BOARD AND PLASTER WALLS IN PROJECT AREA: REMOVE ALL SCREWS, NAILS, WALL PLUGS, ETC. PATCH & SAND TO RECEIVE ONE COAT OF PRIMER AND TWO COATS OF PAINT FINISH.
10. EXISTING PC350 PARTITIONS WITHIN OFFICE & FRAMED VISION PANELS TO REMAIN.
11. EXISTING DOORS TO REMAIN.
12. REMOVE EXISTING VINYL FACED GYPSUM BOARD ON THIS SIDE OF PC350 FRAMING. PREPARE FRAMING FOR NEW GYPSUM BOARD. EXTENT OF REMOVALS IDENTIFIED BY DASHED LINETYPE AS SHOWN ON 1/A01: - - - - -
13. REMOVE EXISTING CEILING MOUNTED MIRROR AND RELOCATE TO NEW LOCATION AS SHOWN ON 2/A02.
14. PATCH, TAPE & MUD WITH NEW GYPSUM BOARD AREAS WHERE ELECTRICAL OUTLETS/ WIREWAYS ARE TO BE REMOVED. COORDINATE WITH ELECTRICAL. SAND TO RECEIVE ONE COAT OF PRIMER AND TWO COATS OF PAINT FINISH. MAKE GOOD.
15. ALL DEMOLITION AND NEW WORK IN THESE ROOMS WILL NEED TO BE COMPLETED DURING A SPECIFIC SCHEDULED, CONTINUOUS FIVE DAY TIME FRAME, PRE-APPROVED BY NRC DEPARTMENTAL REPRESENTATIVE. THE WORK SHALL INCLUDE BUT IS NOT LIMITED TO: CEILING GRID AND TILES, FAN COIL UNITS AND ASSOCIATED WORK, LIGHT FIXTURES AND ASSOCIATED WORK. THE PROTECTION OF ALL EQUIPMENT AND SURFACES IN THESE ROOMS DURING THE DEMOLITION AND NEW WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
16. REMOVE EXISTING FURNITURE LOCATED WITHIN OFFICE AND DISPOSE OF OFF SITE. REFER TO SPECIFICATIONS. GC TO REMOVE EXISTING STORAGE/FILE CABINETS AND HAND OVER TO NRC DEPARTMENTAL REPRESENTATIVE.
17. RELOCATE EXISTING SAFE FOR DURATION OF PROJECT AS APPROVED BY NRC DEPARTMENTAL REPRESENTATIVE.
18. EXISTING CARPET TILE TO REMAIN. PROTECT AND CLEAN AFTER COMPLETION OF WORK IN SPACE.



1 DEMOLITION: FLOOR PLAN
 A01 SCALE 1:100



2 DEMOLITION: REFLECTED CEILING PLAN
 A01 SCALE 1:100

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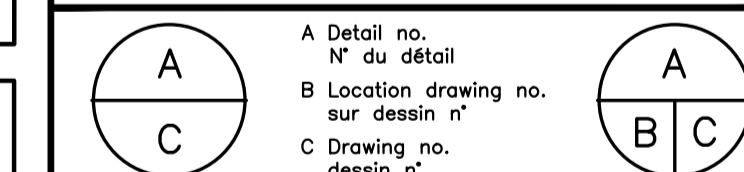
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project: M-19 ROOM 230, SECURITY OFFICE ACCOMMODATION PILOT PROJECT

drawing: CONSTRUCTION: NEW FINISHES FLOOR PLAN AND NEW REFLECTED CEILING PLAN

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SWH		MAY 2022	
drawn	dessiné	scale	échelle
SWH / FD / MD		AS NOTED	
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J.D.		3 of/de 5	
approved	approuvé	W.O.no.	D.T.no.
J.L.			

dwg.no.: 6073-A02 dessin n°
 ACAD file: fichier CDAO:

FINISHES NOTES
SHEET A03 ONLY

ARCHITECTURAL LEGEND:

- AREA NOT IN CONTRACT (DOES NOT PRECLUDE ELECT./MECH. WORK)

CARPET TILE:

MAIN COLOUR: JOURNEY TILE, COLOUR: WEATHERED 49535
 SIZE: 229mm x 915mm AS MANUFACTURED BY SHAW CONTRACT GROUP.

ACCENT COLOURS, SIZE 229mm x 915mm: COLOUR FORM, AS MANUFACTURED BY SHAW CONTRACT GROUP.

SUB-FLOOR TREATMENT, REFER TO SECTION 096813 - CARPET TILE

- CPT-1 GLOWING 81211 (YELLOW)
- CPT-2 PUZZLE 81991 (PURPLE)
- CPT-3 HYPER GREEN 81326 (GREEN)
- CPT-4 HYPER BLUE 81436 (BLUE)

NOTE: ALL RETAINED AND CONSERVED CARPET TILES TO BE REINSTATED. PROVIDE NEW TILES AS REQUIRED.

A. NEW ACOUSTIC CEILING PANEL: 610mm x 1220mm x 19mm, AND 610mm X 610mm X 19mm AND 305mm X 1220mm X 19mm, COLOR WHITE. REFER TO SPECIFICATION. CEILING HEIGHT: 2780mm TYPICAL.

B. NEW SUSPENSION CEILING SYSTEMS REFER TO SPECIFICATION, WHITE. CEILING HEIGHT: 2630mm TYPICAL.

NOTE: INCLUDE ALL TEES, TRIM, TILES AND HANGARS FOR A COMPLETE INSTALLATION.

WALL BASE:

RWB RESILIENT WALL BASE: ALONG ALL WALLS/PARTITIONS.
 .1 SIMILAR TO JOHNSONITE, TRADITIONAL WALL BASE.
 .1 COLOUR: 48 GREY.

PAINT:

- ALL WALLS TO BE PAINTED P1 UNLESS OTHERWISE NOTED.
- ALL GYPSUM BOARD CEILINGS / BULKHEADS TO BE PAINTED CEILING WHITE.
- PAINT COLOURS:

P1	SHERWIN WILLIAMS	ELDER WHITE	SW 7014
P2	SHERWIN WILLIAMS	GAUNTLET GREY	SW 7019
P3	SHERWIN WILLIAMS	DYNAMIC BLUE	SW 6958
P4	SHERWIN WILLIAMS	OVERT GREEN	SW 6718
P5	SHERWIN WILLIAMS	BEE	SW 6683
P6	SHERWIN WILLIAMS	VERVE VIOLET	SW 6979

ELECTRICAL LEGEND:

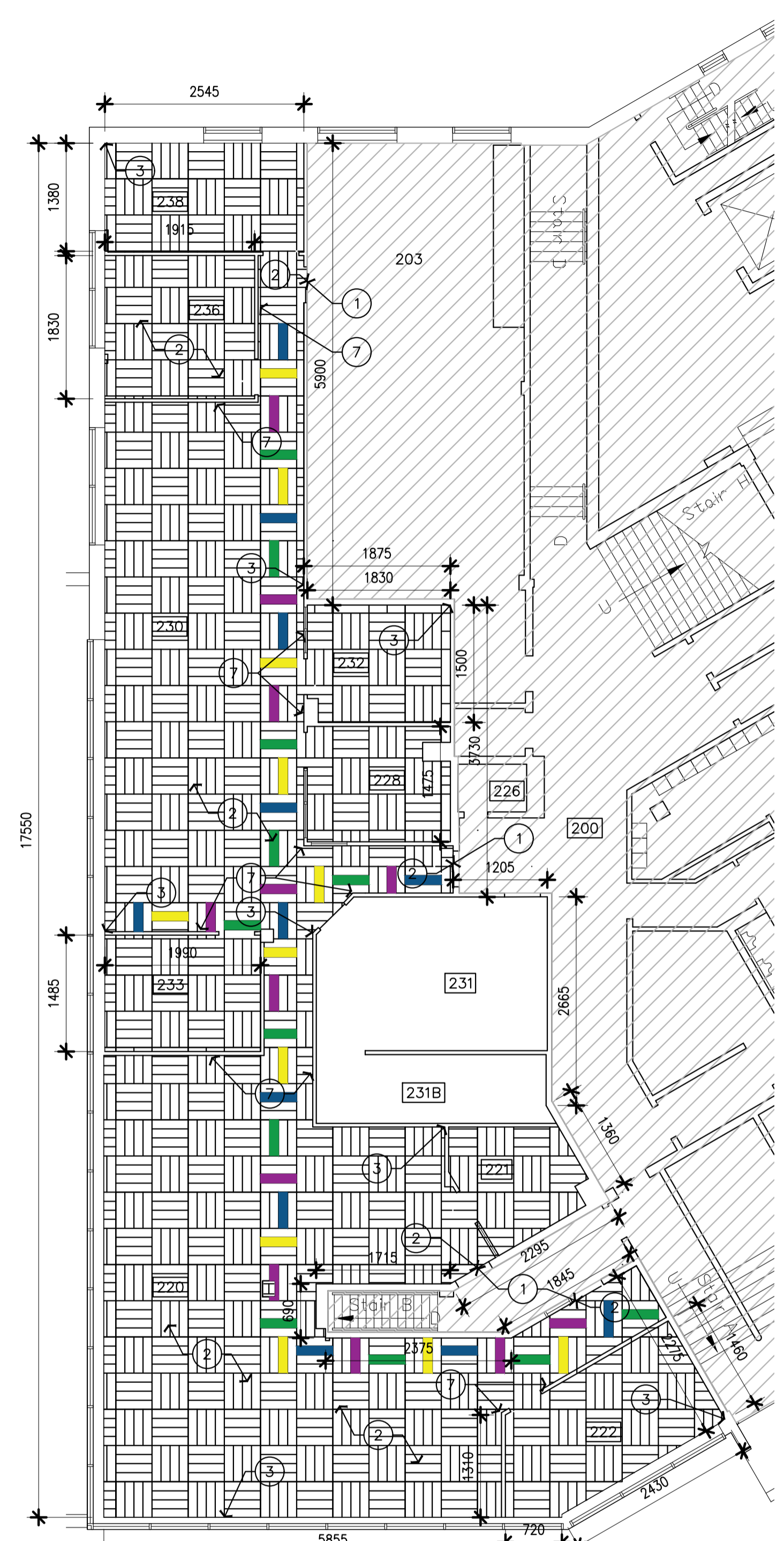
- NEW 610X1220 LIGHT FIXTURE, REFER TO ELECTRICAL.
- NEW 610X610 LIGHT FIXTURE, REFER TO ELECTRICAL.
- NEW 150mm DIA. POT LIGHT FIXTURE, REFER TO ELECTRICAL.
- NEW SUSPENDED LIGHT FIXTURE, REFER TO ELECTRICAL.
- NEW CUBICLE COMMUNICATIONS AND POWER UTILITY POLE. REFER TO ELECTRICAL.
- CEILING MOUNTED MIRROR

MECHANICAL LEGEND:

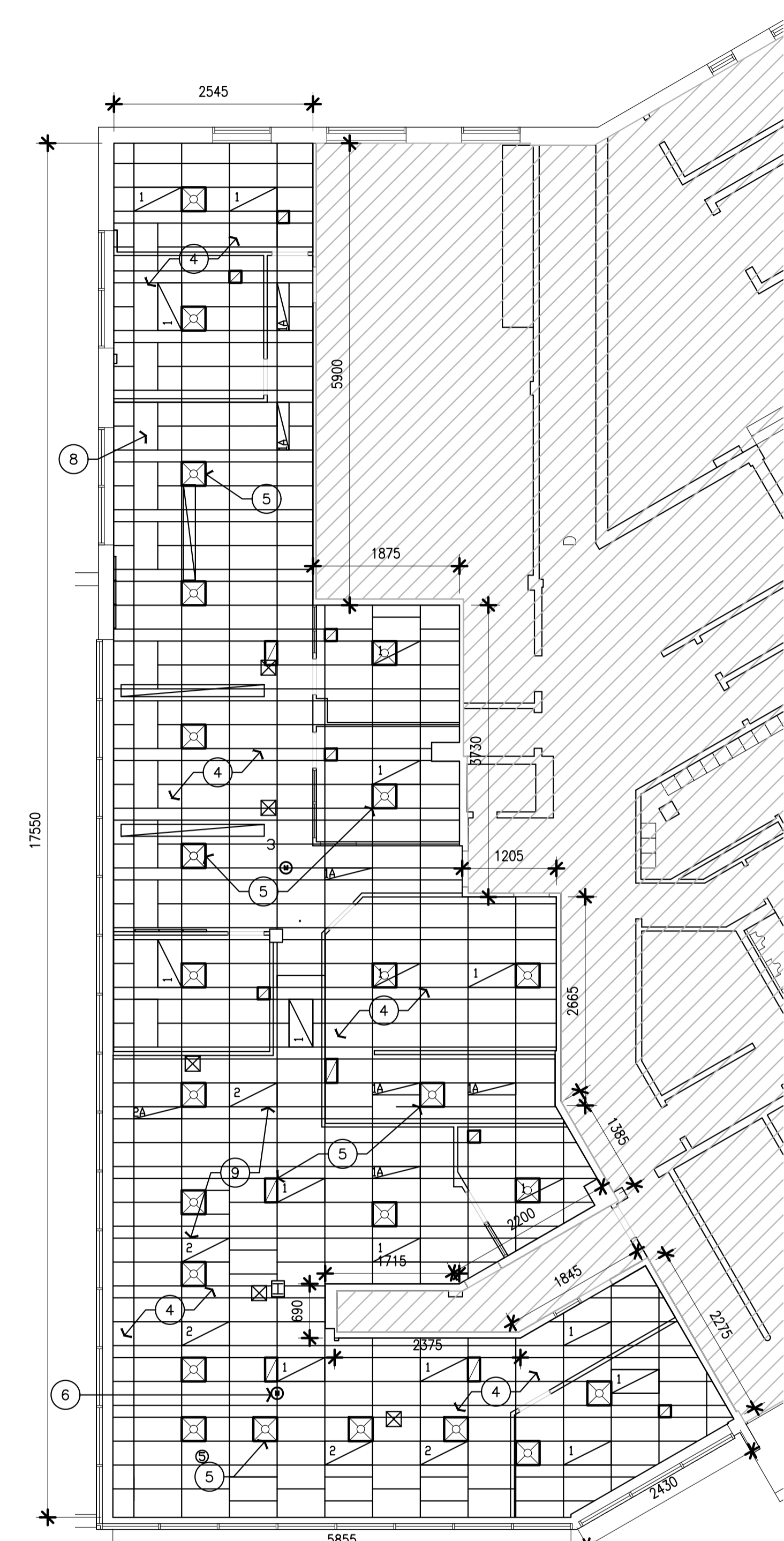
- NEW 610' x 610' SUPPLY AIR DIFFUSER, REFER TO MECHANICAL.
- 610' x 610' RETURN AIR GRILLE, REFER TO MECHANICAL.
- LINEAR AIR RETURN AIR GRILLE, REFER TO MECHANICAL.

CONSTRUCTION NOTES
SHEET A02 ONLY

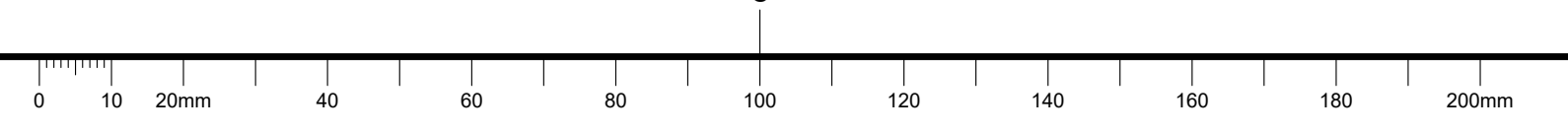
- INSTALL NEW TRANSITION STRIP @ DOOR THRESHOLD BETWEEN EXISTING VCT FLOORING & NEW CARPET TILE.
- INSTALL NEW CARPET TILE IN AREAS SHOWN WITH HATCHING AS PER LEGEND. SEE SPECIFICATIONS.
- INSTALL NEW 100mm RUBBER BASE ALONG ALL PARTITIONS & WALLS WITHIN AREA OF NEW CARPET TILE.
- INSTALL NEW SUSPENDED GRID SYSTEM C/W ACOUSTIC CEILING TILE. GRID LAYOUT TO MATCH EXISTING TO ACCOMMODATE MECHANICAL UNITS.
- NEW MECHANICAL FIXTURES. REFER TO MECHANICAL.
- REINSTALL EXISTING CEILING MOUNTED MIRROR ON NEW CEILING GRID.
- INSTALL NEW 12.7mm GYPSUM BOARD WHERE VINYL FACED GYPSUM BOARD WAS REMOVED FROM PC350 FRAMING. TAPE AND MUD CORNER AND JOINTS. APPLY ONE COAT OF PRIMER AND TWO COATS OF PAINT FINISH. EXTENT OF NEW GYPSUM BOARD IS IDENTIFIED BY DASHED LINETYPE AS SHOWN ON 1/A02:
- TYPICAL: ALL EXISTING METAL RADIANT CEILING PANELS TO REMAIN IN PLACE DURING CONSTRUCTION. PROTECT PANELS DURING WORK. PAINT ALL EXPOSED RADIANT HEATING SURFACE WITH HIGH HEAT RESISTANT PAINT. REFER TO SPECIFICATIONS.
- NEW LIGHTING FIXTURES. REFER TO ELECTRICAL.



1
A02
 CONSTRUCTION: NEW FINISHES FLOOR PLAN
 SCALE 1:100



2
A02
 CONSTRUCTION: NEW REFLECTED CEILING PLAN
 SCALE 1:100



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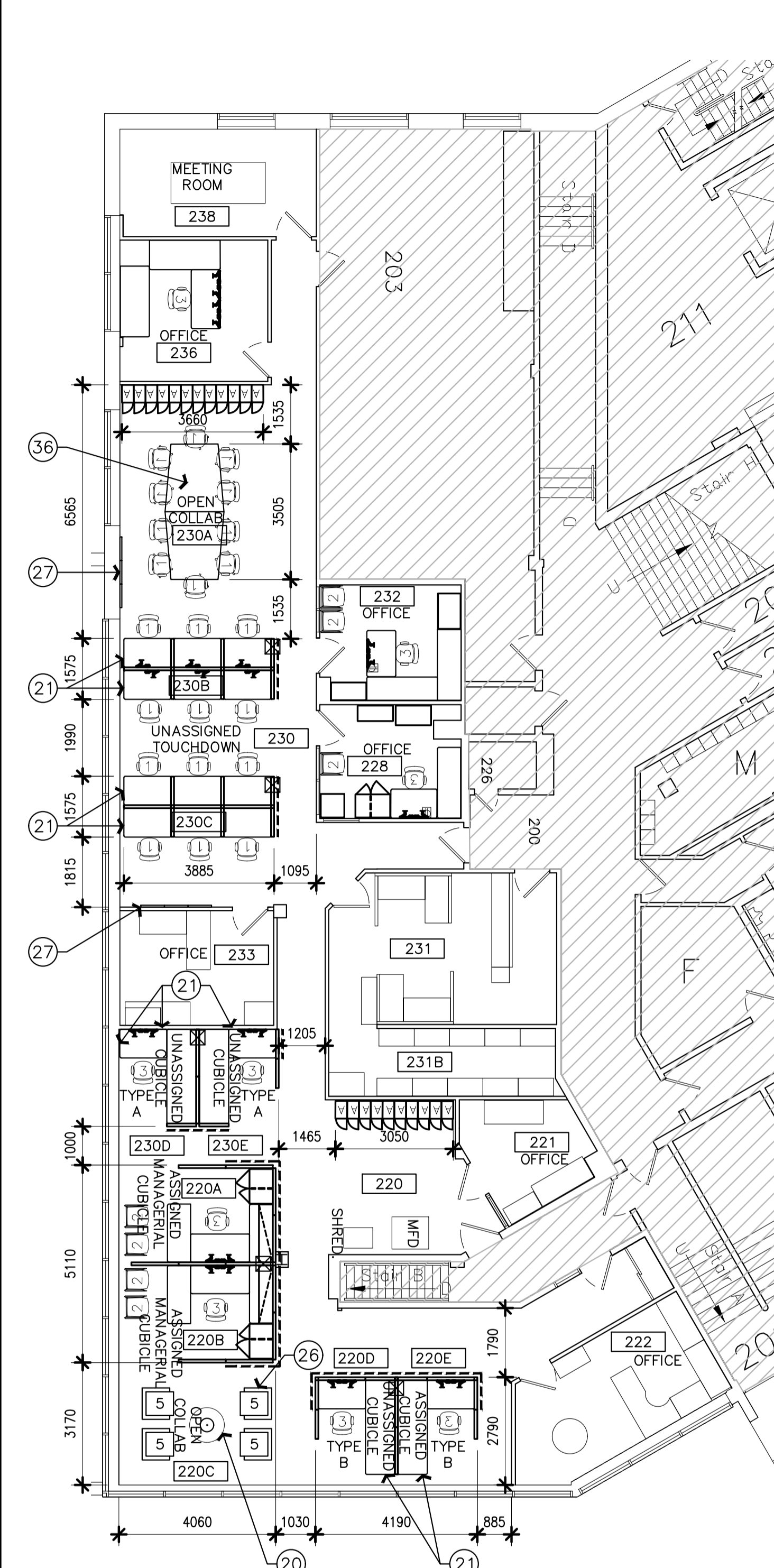
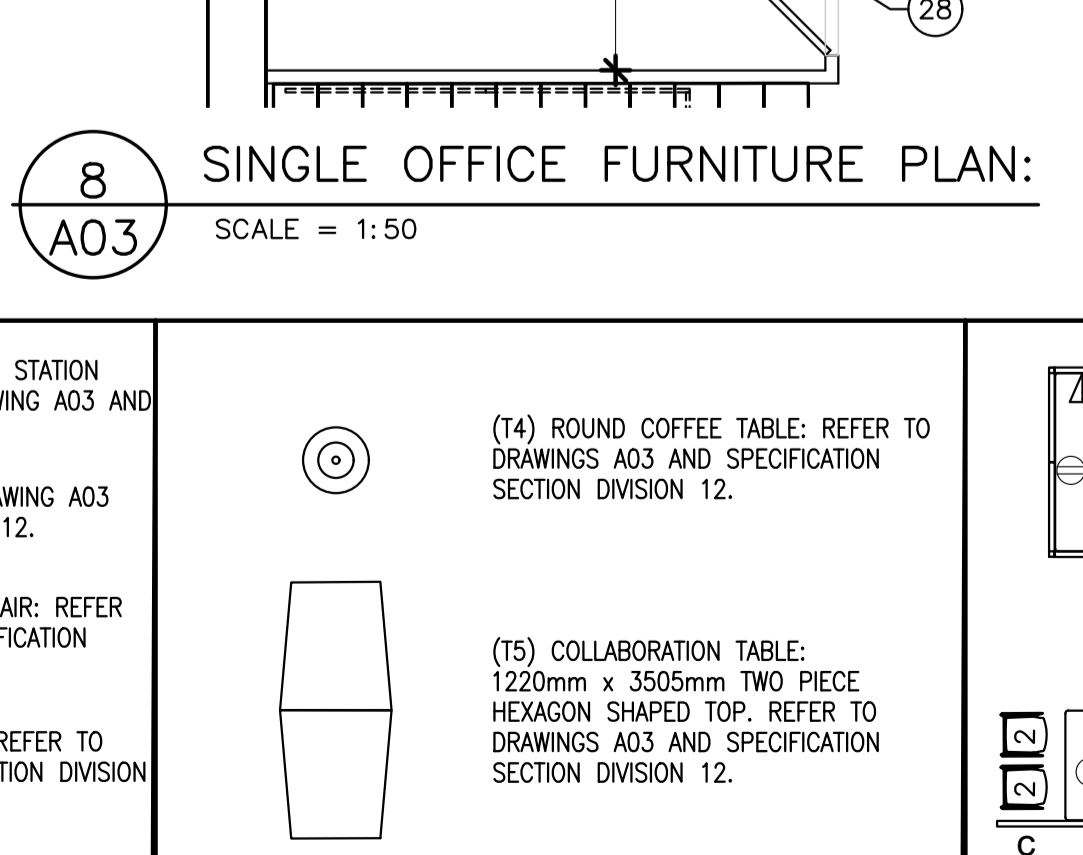
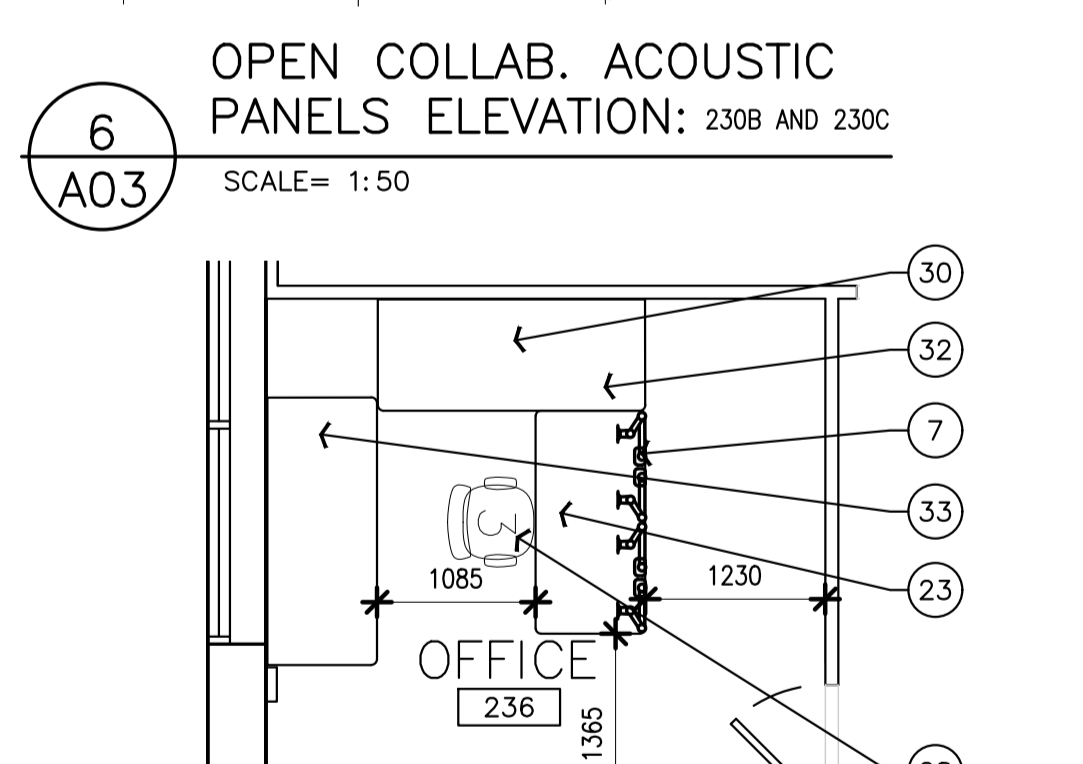
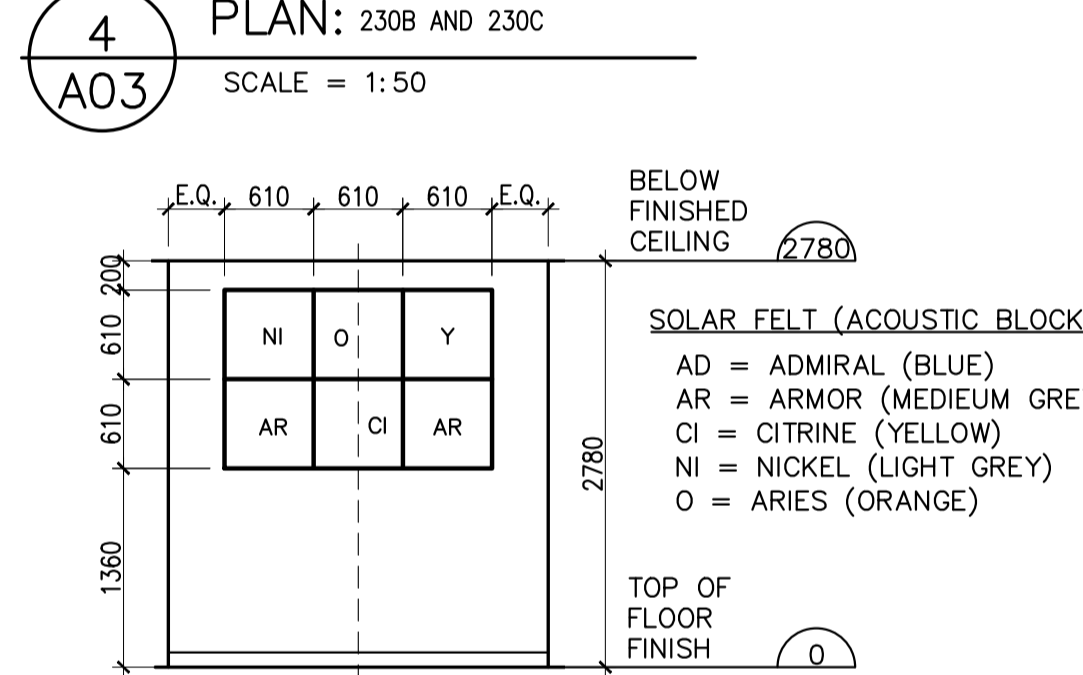
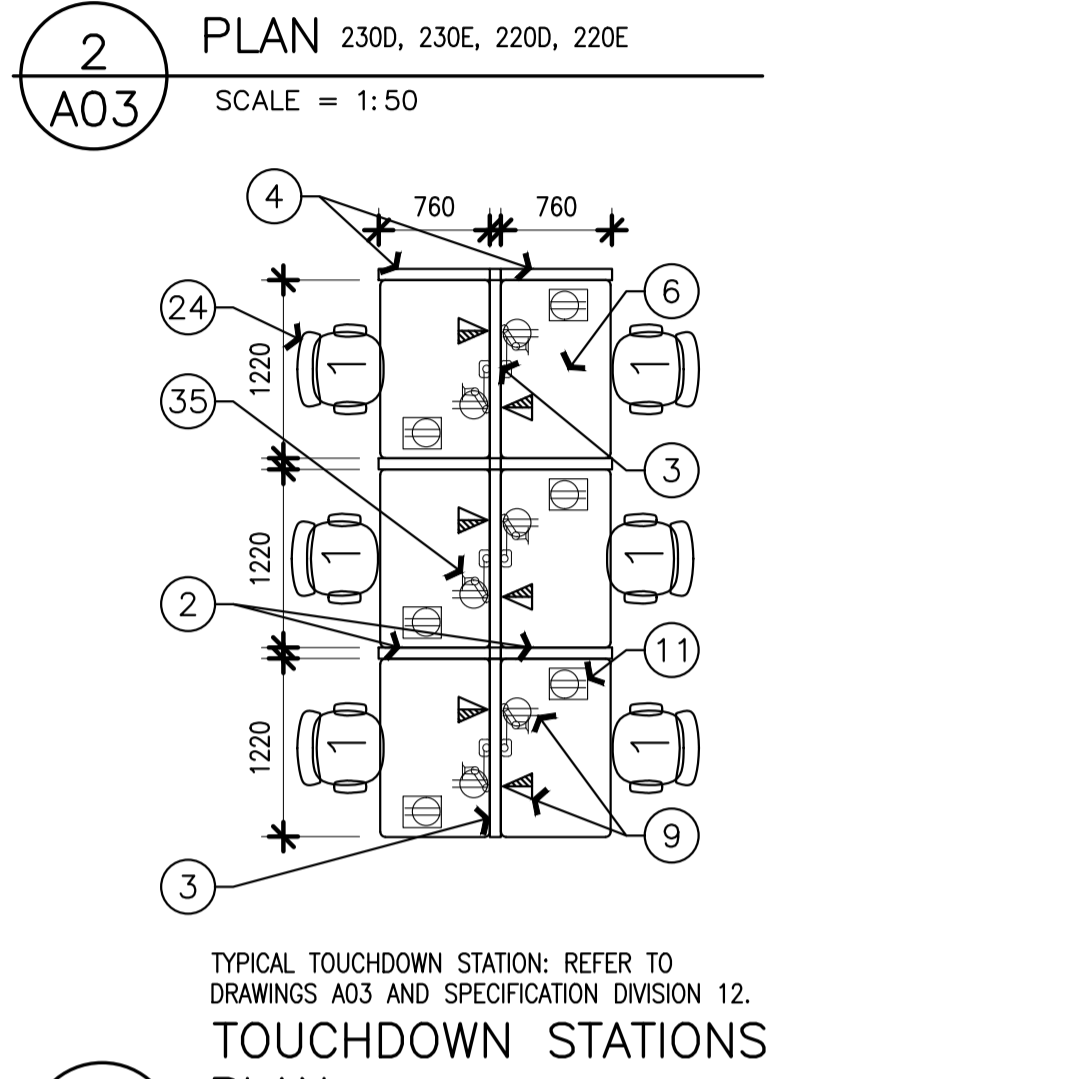
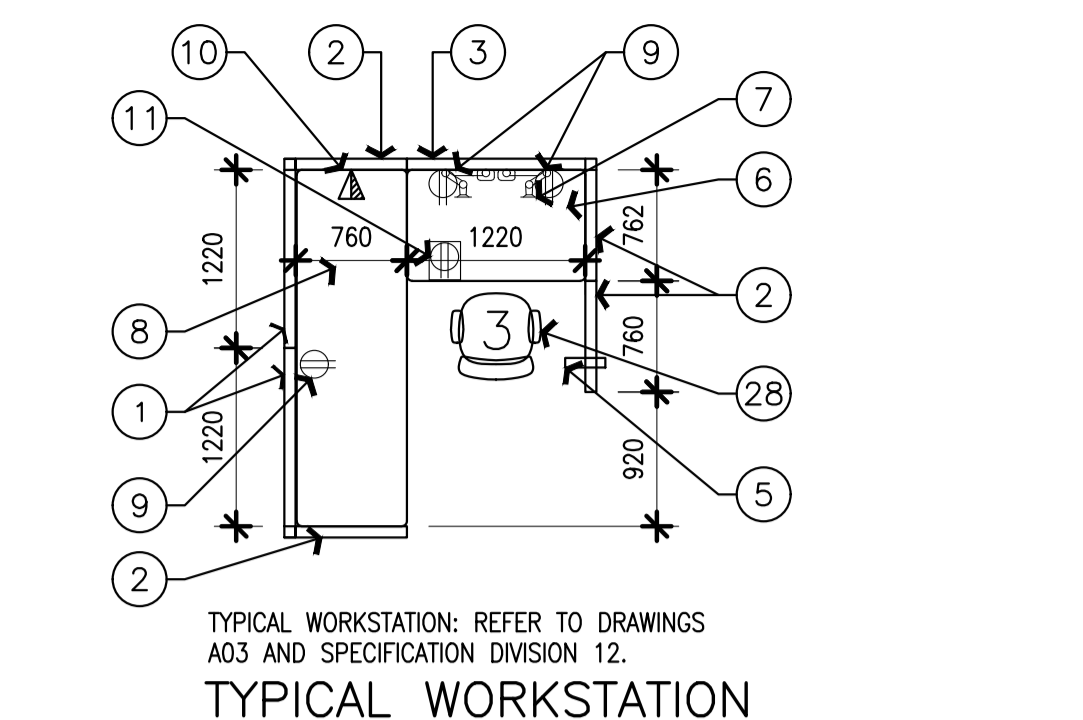
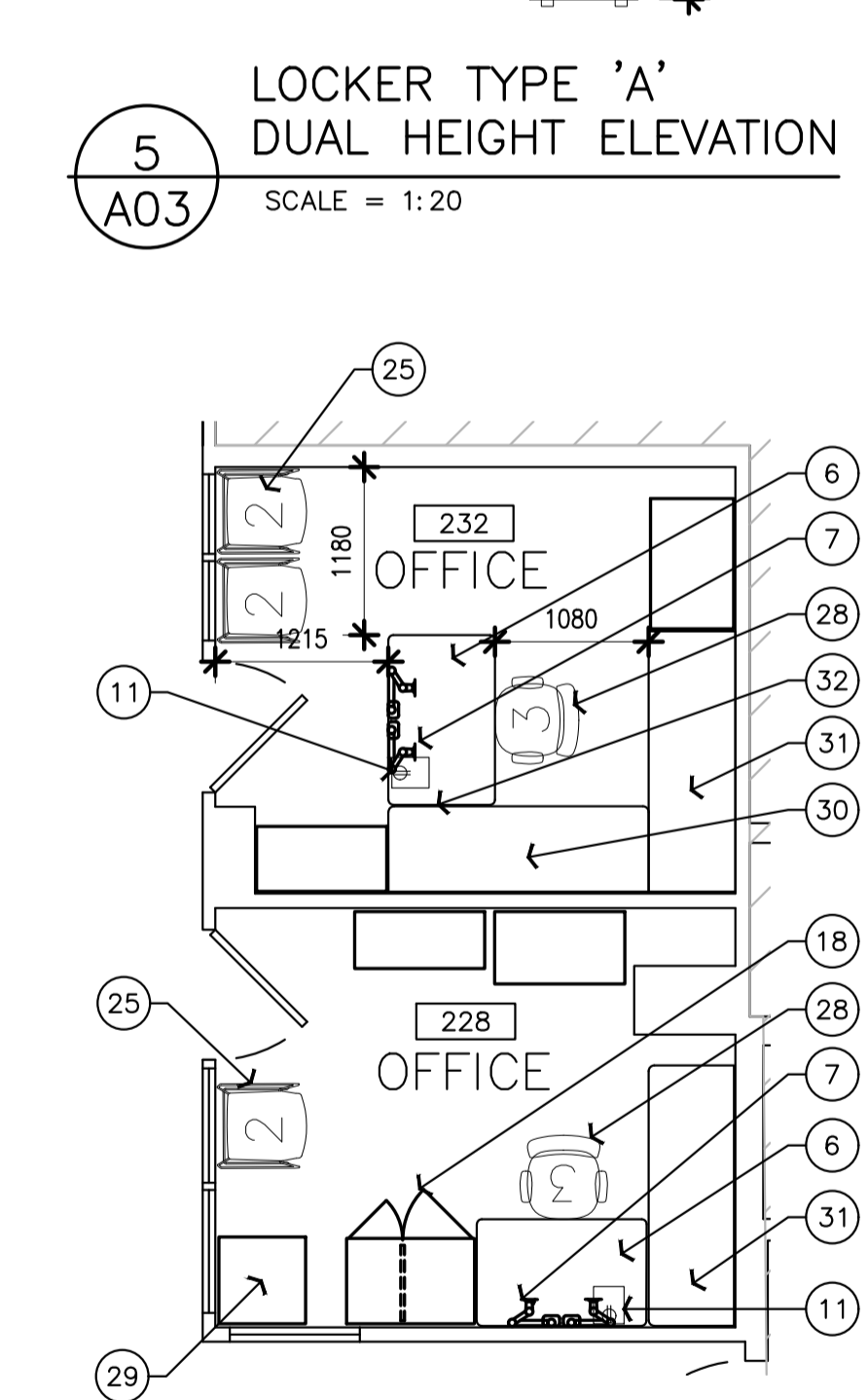
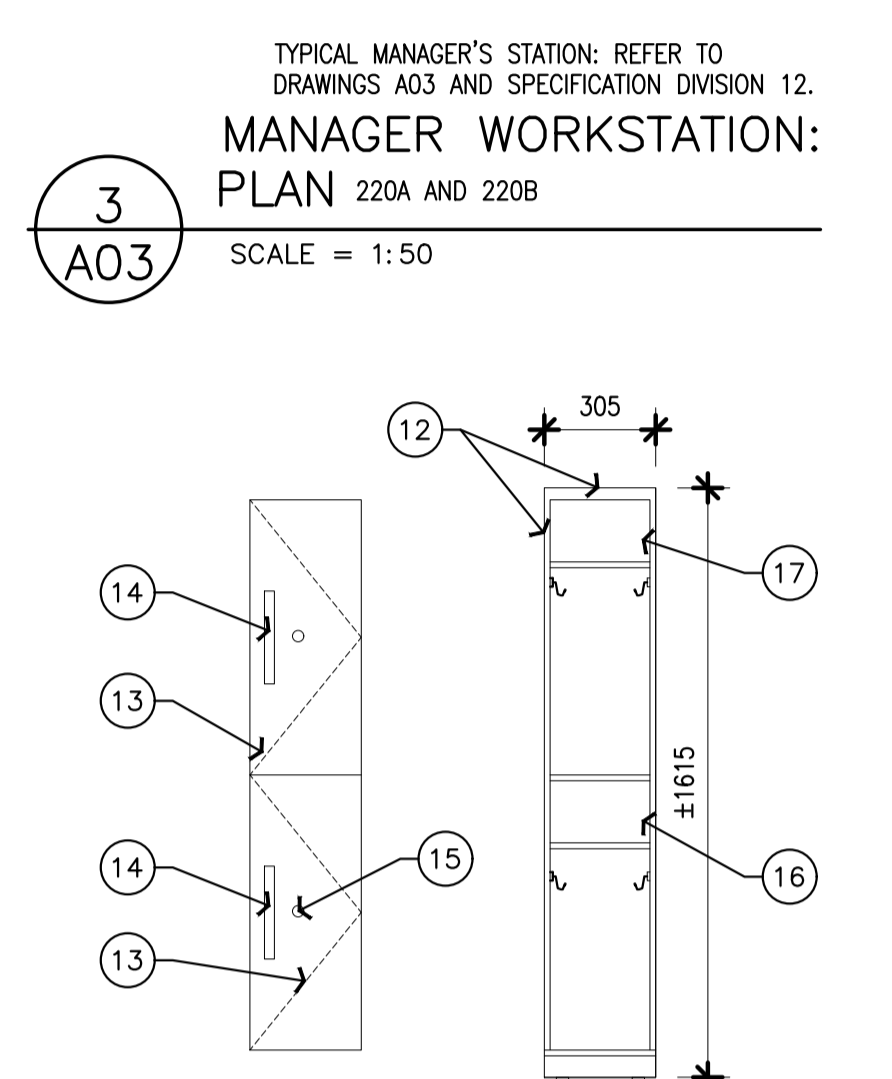
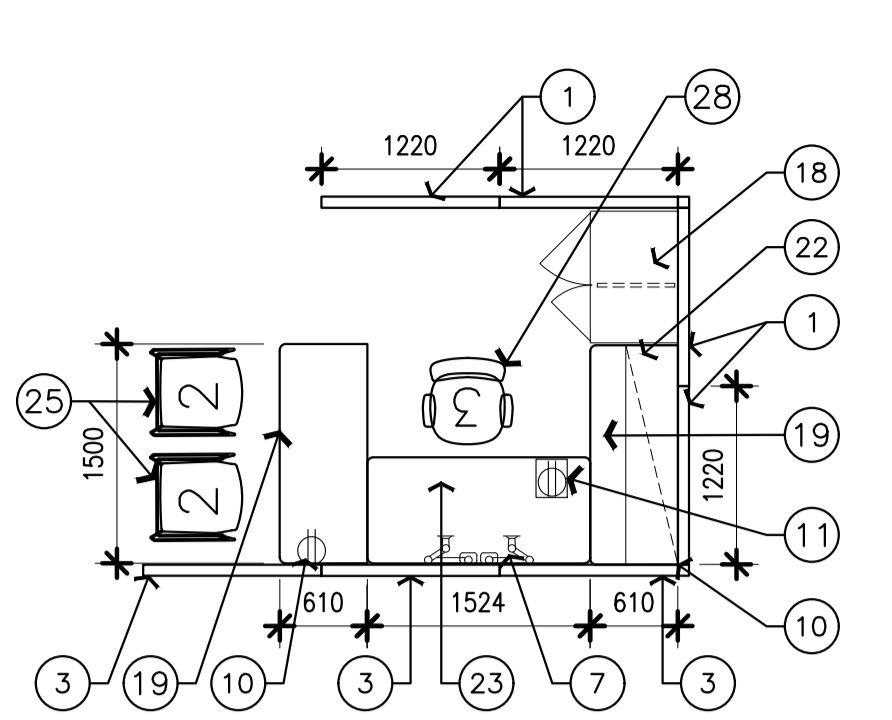
project
**M-19 ROOM 230, SECURITY OFFICE
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 project

MONTREAL ROAD CAMPUS
 dessin
FURNITURE PLAN AND FURNITURE DETAILS

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FURNITURE NOTES
 SHEET A03 ONLY

- 1220mmW x 1670mmH PANEL
- 762mmW x 1220mmH PANEL PLUS 1220mmW x 450mmH FRAMED GLASS STACKER.
- 1220mmW x 1220mmH PANEL PLUS 1220mmW x 450mmH FRAMED GLASS STACKER.
- 760mmW x 1670mmH PANEL.
- ALL PURPOSE COAT HOOK.
- A. 750mmW x 1220mmD ELECTRIC HEIGHT ADJUSTABLE (686mm - 1173mm) WORK SURFACE. C/W UNDER SURFACE MOUNTED, HORIZONTAL WIRE MANAGEMENT. 381mm x 51mm, QTY X PER WORK SURFACE, EQUALLY SPACE OUT.
- TWO SINGLE MONITOR ARMS W/ CENTER EDGE CUTOUT FOR CLAMP.
- 760mmW X 2440mmL WORK SURFACE.
- LOCATION OF NEW POWER IN PANEL HUNG FURNITURE. REFER TO SPECIFICATIONS. TYPICAL.
- LOCATION OF COMS (DATA AND VOICE). TYPICAL
- TYPICAL DESK TOP FOUR (4) PORT POWER MODULE, THREE (3) POWER RECEPTACLES AND ONE (1) USB CHARGING PORT C/W ADJUSTABLE DESK MOUNT BRACKET. REFER TO SPECIFICATIONS.
- LOCKER BODY AND TOP, PAINTED STEEL.
- DOOR BODY, LAMINATE FINISH.
- LINEAR DOOR PULL.
- LOCKING HASP.
- ADJUSTABLE BASE, DOUBLE COAT HOOK, EACH SIDE.
- NON-ADJUSTABLE PAINTED STEEL SHELF.
- 1676mm x 900mmW x 610mmD STORAGE TOWER WITH BBF. WITH 3 ADJ SHELF, UNLESS OTHERWISE NOTED.
- 610mmW x 1500mmL FREE STANDING WORK SURFACE.
- ROUND COFFEE TABLE. SEE SPECIFICATIONS.
- NO PANELS AGAINST WALL (TYPICAL).
- NEW FIXED HEIGHT RETURN WITH HUTCH. 610 X 1500mm. NEW 1220mmW LED TASK LIGHT WITH OCCUPANCY SENSOR.
- 725mmD x 1524mmW ELECTRIC HEIGHT ADJUSTABLE WORK SURFACE C/W UNDER SURFACE MOUNTED, HORIZONTAL WIRE MANAGEMENT, 381mm x 51mm, QTY X PER WORK SURFACE, EQUALLY SPACE OUT.
- TOUCHDOWN STATION TASK CHAIR. SEE SPECIFICATIONS.
- GUEST CHAIR. SEE SPECIFICATIONS.
- STATIONERY LOUNGE CHAIR. SEE SPECIFICATIONS.
- 610mm x 610mm x 50mm MOUNTED ACOUSTIC SOUND BLOCKS, c/w 6mm PET FELT. (SUMMER TO 3 FORM HUSH BLOCKS & 300.43) SOUND ABSORPTION: NRC 80. REFER TO 6/A03 FOR MOUNTING HEIGHTS.
- ERGONOMIC WORKSTATION TASK CHAIR. SEE SPECIFICATIONS.
- RELOCATE EXISTING SAFE AS PER NRC DEPARTMENTAL REPRESENTATIVE.
- NEW 610mmD X 1830mmL ELECTRIC HEIGHT ADJUSTABLE (686mm - 1173mm) WORK SURFACE. C/W UNDER SURFACE MOUNTED, HORIZONTAL WIRE MANAGEMENT. 381mm x 51mm, QTY X PER WORK SURFACE, EQUALLY SPACE OUT.
- NEW 610mmD X 1830mmL FREE STANDING, FIXED-HEIGHT WORK SURFACE.
- CONNECT ADJACENT HEIGHT ADJUSTABLE WORK SURFACES TO ENSURE SIMULTANEOUS MOVEMENT.
- NEW 750mmD x 1830mmW COMPUTER WORK BENCH. SEE SPECIFICATIONS
- PAINTED STEEL PANEL TILE: - - - - (REFER TO PLAN & SPECIFICATIONS)
- SINGLE MONITOR ARM W/ CENTER EDGE CUTOUT FOR CLAMP.
- HEXAGON SHAPED COLLABORATION TABLE. SEE SPECIFICATIONS.



<p>1 MEETING CHAIR/ TOUCHDOWN STATION TASK CHAIR: REFER TO DRAWINGS A03 AND SPECIFICATION DIVISION 12</p> <p>2 GUEST CHAIR: REFER TO DRAWING A03 AND SPECIFICATION DIVISION 12.</p> <p>3 WORKSTATION ERGO TASK CHAIR: REFER TO DRAWING A03 AND SPECIFICATION DIVISION 12.</p> <p>5 STATIONERY LOUNGE CHAIR: REFER TO DRAWING A03 AND SPECIFICATION DIVISION 12.</p>	<p>(14) ROUND COFFEE TABLE: REFER TO DRAWINGS A03 AND SPECIFICATION SECTION DIVISION 12.</p> <p>(15) COLLABORATION TABLE: 1220mm x 3505mm TWO PIECE HEXAGON SHAPED TOP. REFER TO DRAWINGS A03 AND SPECIFICATION SECTION DIVISION 12.</p>	<p>TYPICAL WORKSTATION: REFER TO DRAWINGS A03 AND SPECIFICATION DIVISION 12.</p> <p>TYPICAL MANAGER'S WORKSTATION/SUPERVISOR'S WORKSTATION: REFER TO DRAWINGS A03 AND SPECIFICATION DIVISION 12.</p>	<p>TOUCHDOWN STATION: REFER TO DRAWINGS A03 AND SPECIFICATION DIVISION 12.</p>	<p>LOCKER TYPE 'A', REFER TO DRAWINGS A03 AND SPECIFICATION SECTION DIVISION 12.</p>
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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.
- CONTRACTOR MUST VISIT THE SITE AND FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK PRIOR TO PROJECT COMMENCEMENT.
- ALL TRADES TO COORDINATE WORK ON SITE, WITH APPROVAL OF DEPARTMENTAL REPRESENTATIVE TO AVOID ANY CONFLICTS AND/OR INTERFERENCE.
- ANY AND ALL REQUIRED SHUTDOWNS SHALL BE COORDINATED WITH DEPARTMENTAL REPRESENTATIVE.
- INSTALLATION OF ALL SYSTEMS SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
- CONTRACTOR TO BE RESPONSIBLE FOR REINSTATEMENT AND REPAIR OF ANY DAMAGE CAUSED BY WORK.
- CONTRACTOR SHALL PREVENT THE SPREAD OF DUST AND DEBRIS BEYOND AREA OF WORK AND CLEAN ALL SURFACES AT COMPLETION.

KEY PLAN / PLAN CLÉ

7			
6			
5			
4			
3			
2			
1	30/05/2022	ISSUED FOR TENDER	SWH
No.	Date	Revision	By: / Par:

Date Printed: 19/04/2022 / Date imprimée

- 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
B	B Location drawing no. / sur dessin n°	B
C	C Drawing no. / dessin n°	C

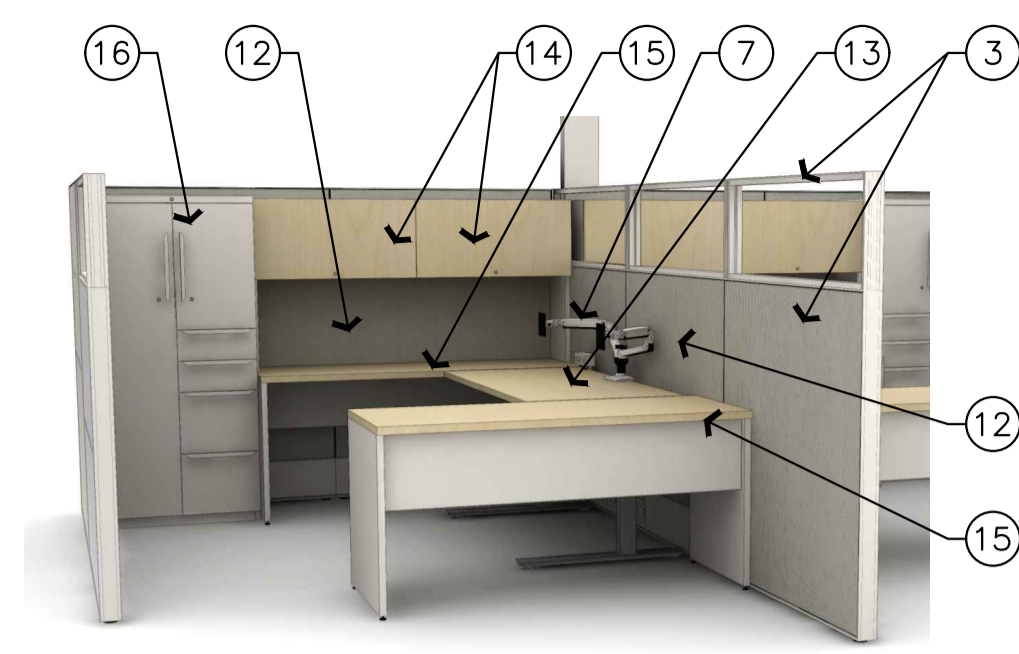
project / projet
 M-19 ROOM 230, SECURITY OFFICE ACCOMMODATION PILOT PROJECT
 MONTREAL ROAD CAMPUS

drawing / dessin
 FURNITURE IMAGES

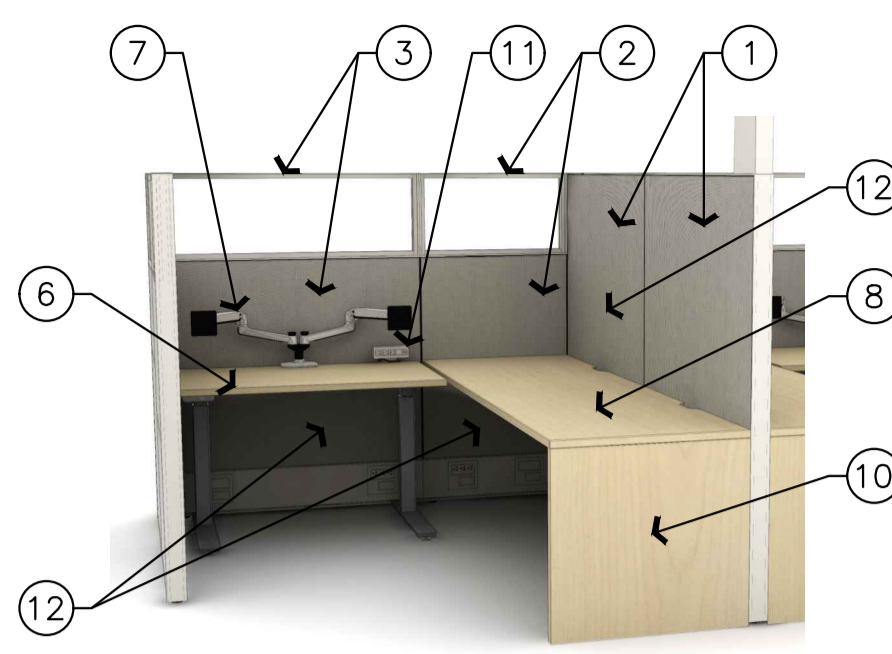
designed / conçu	SWH	date	MAY 2022
drawn / dessiné	SWH / FD / MD	scale / échelle	AS NOTED
checked / vérifié	J.D.	sheet / feuille	5 of/de 5
approved / approuvé	J.L.	W.O.no.	D.T.no.
dwg.no.	6073-A04	dessin n°	
ACAD file:		fichier CDAO:	

FURNITURE NOTES
 SHEET A05 ONLY

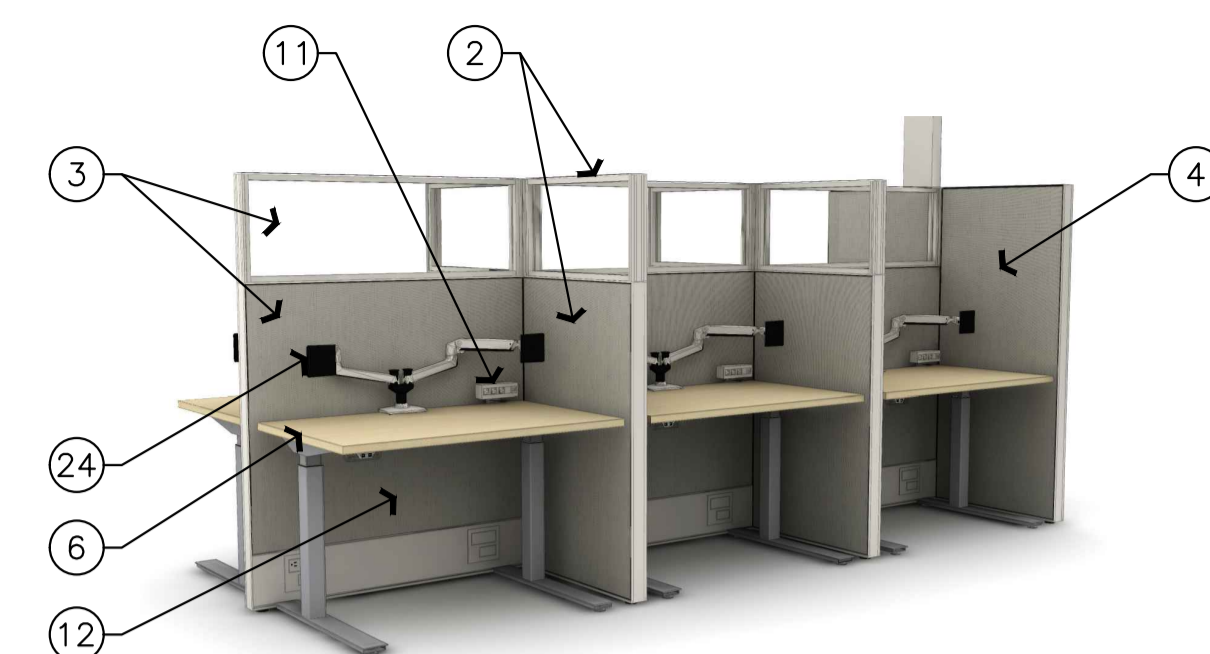
- 1220mmW x 1670mmH PANEL.
- 762mmW x 1220mmH PANEL PLUS 1220mmW x 450mmH FRAMED GLASS STACKER.
- 1220mmW x 1220mmH PANEL PLUS 1220mmW x 450mmH FRAMED GLASS STACKER.
- 760mmW x 1670mmH PANEL.
- EXTERIOR PANELS - PAINTED STEEL TILES.
- 750mmW x 1220mmD ELECTRIC HEIGHT ADJUSTABLE (686mm - 1173mm) WORK SURFACE. C/W UNDER SURFACE MOUNTED, HORIZONTAL WIRE MANAGEMENT. 381mm x 51mm, QTY X PER WORK SURFACE, EQUALLY SPACE OUT.
- DUAL MONITOR ARM W/ CENTER EDGE CUTOUT FOR CLAMP.
- 760mmW x 2440mmL WORK SURFACE.
- EXTERIOR PANELS - MARKERBOARD TILES.
- WORK SURFACE END GABLE SOLID LEG.
- TYPICAL DESK TOP FOUR (4) PORT POWER MODULE, THREE (3) POWER RECEPTACLES AND ONE (1) USB CHARGING PORT C/W ADJUSTABLE DESK MOUNT BRACKET. REFER TO SPECIFICATIONS.
- POWERED PANEL.
- 725mmD x 1524mmW ELECTRIC HEIGHT ADJUSTABLE WORK SURFACE C/W UNDER SURFACE MOUNTED, HORIZONTAL WIRE MANAGEMENT, 381mm x 51mm, QTY X PER WORK SURFACE, EQUALLY SPACE OUT.
- NEW FIXED HEIGHT RETURN WITH HUTCH. 610 X 1500mm. NEW 1220mmW LED TASK LIGHT WITH OCCUPANCY SENSOR.
- 610mmW x 1500mmL FREE STANDING WORK SURFACE.
- 1676mm x 900mmW x 610mmD STORAGE TOWER WITH BBF. WITH 3 ADJUSTABLE SHELF, UNLESS OTHERWISE NOTED.
- 1220mmW x 3200mmL TWO PIECE HEXAGON SHAPED TOP.
- ROUND COLLABORATION TABLE. SEE SPECIFICATIONS.
- COLLABORATION LOUNGE CHAIR. SEE SPECIFICATIONS.
- SIDE GUEST CHAIR. SEE SPECIFICATIONS.
- MEETING ROOM CHAIR. SEE SPECIFICATIONS.
- TOUCHDOWN CHAIR. SEE SPECIFICATIONS.
- TYPICAL ERGONOMIC CHAIR. SEE SPECIFICATIONS.
- SINGLE MONITOR ARM W/ CENTER EDGE CUTOUT FOR CLAMP.
- NEW LAMINATE COUNTERTOP ON STEEL 750mmD X 1830mmW IT/LAN WORKBENCH BASE WITH HEIGHT ADJUSTABLE LEGS. REFER TO SPECIFICATIONS.
- NEW 305mmD x 1830mmW STEEL UPPER SHELF. REFER TO SPECIFICATIONS.
- THREE NEW 1220mmHT STEEL UPRIGHTS. REFER TO SPECIFICATIONS.
- NEW STEEL 150mm & 305mm UNDERMOUNT DRAWER UNITS. REFER TO SPECIFICATIONS.
- NEW 1830mm LONG RAIL ACROSS UPRIGHTS. REFER TO SPECIFICATIONS.
- NEW 1830mm LONG POWER STRIP MOUNTED ONTO RAIL. REFER TO SPECIFICATIONS.
- THREE NEW LCD MONITOR ARMS MOUNTED TO UPRIGHTS. REFER TO SPECIFICATIONS.
- NEW ADJUSTABLE KEYBOARD TRAY C/W MOUSE TRAY. REFER TO SPECIFICATIONS.



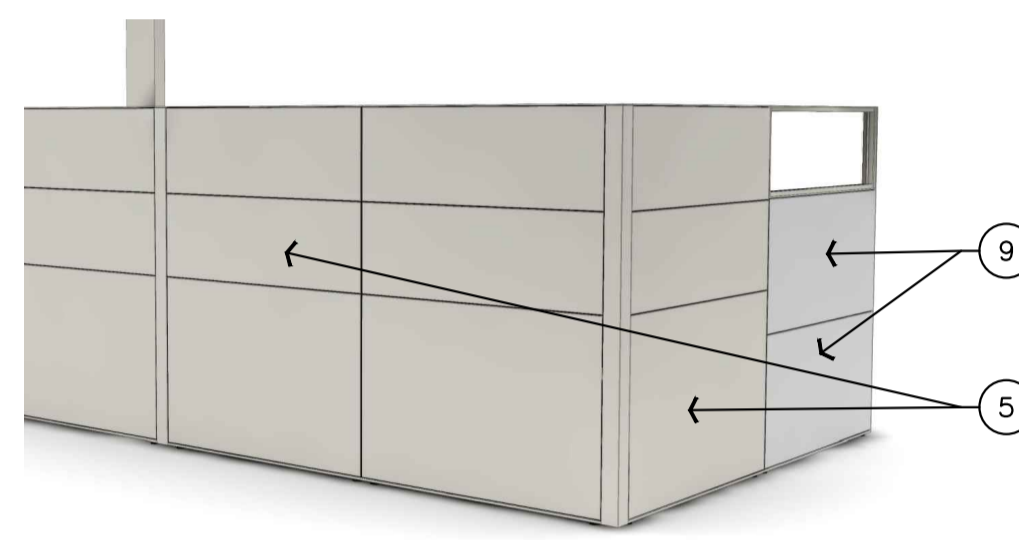
1
A04
 MANAGER WORKSTATION ISOMETRIC
 SCALE = NTS



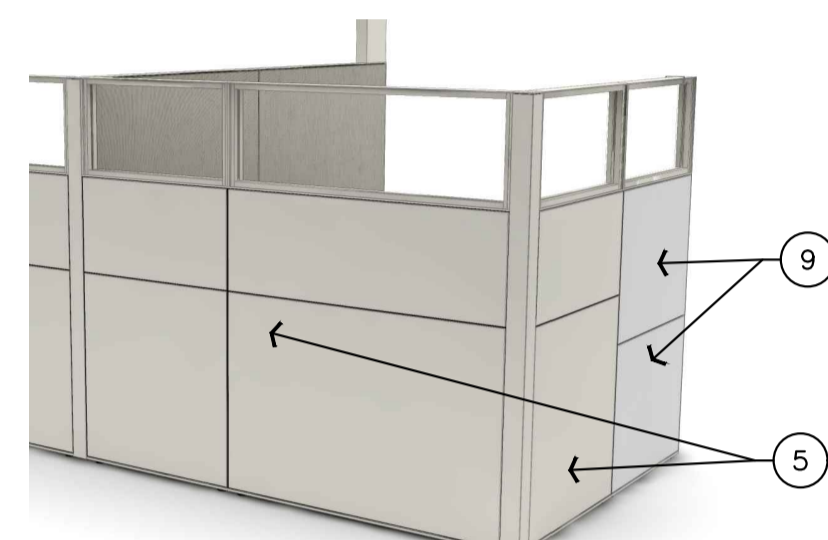
2
A04
 TYPICAL WORKSTATION ISOMETRIC
 SCALE = NTS



3
A04
 TYPICAL TOUCHDOWN ISOMETRIC
 SCALE = NTS



4
A04
 MANAGER WORKSTATION DIVIDER PANELS ISOMETRIC
 SCALE = NTS



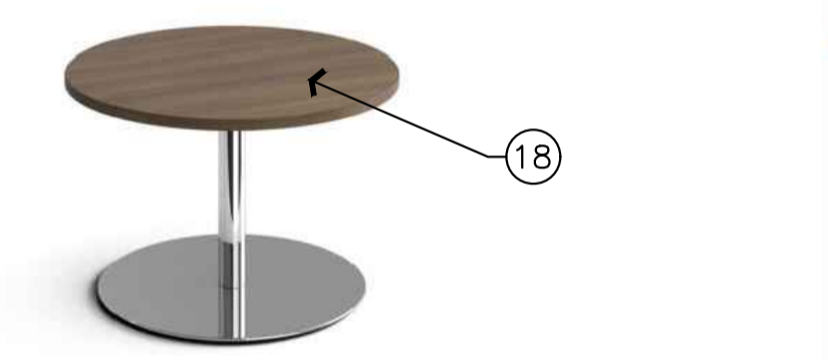
5
A04
 TYPICAL WORKSTATION DIVIDER PANELS ISOMETRIC
 SCALE = NTS



6
A04
 TYPICAL TOUCHDOWN DIVIDER PANEL ISOMETRIC
 SCALE = NTS



7
A04
 OPEN COLLABORATION TABLE ISOMETRIC
 SCALE = NTS



8
A04
 ROUND COLLAB. TABLE ISOMETRIC
 SCALE = NTS



9
A04
 LOUNGE CHAIR ISOMETRIC
 SCALE = NTS



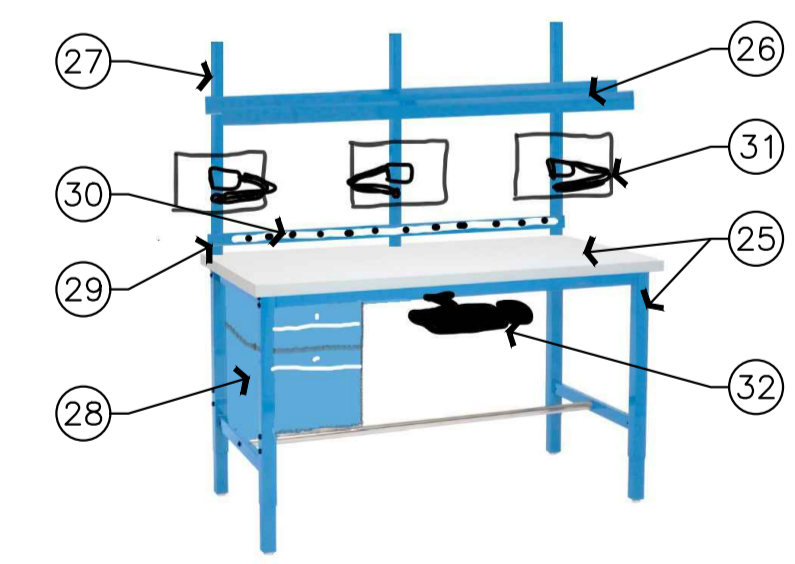
10
A04
 SIDE GUEST CHAIR ISOMETRIC
 SCALE = NTS



11
A04
 MEETING/ TOUCHDOWN CHAIR ISOMETRIC
 SCALE = NTS



12
A04
 ERGO WORKSTATION CHAIR ISOMETRIC
 SCALE = NTS



13
A04
 IT/LAN WORKBENCH ISOMETRIC
 SCALE = NTS

C

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MECHANICAL LEGEND	
(Symbol)	INDICATES NEW
(Symbol)	INDICATES EXISTING (TO REMAIN)
(Symbol)	INDICATES DEMOLISHED/ REMOVED
SAN	SANITARY DRAIN PIPING
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER RETURN
(Symbol)	CONTROL LINE
(Symbol)	PIPE UP
(Symbol)	PIPE DOWN
(Symbol)	UNION
(Symbol)	CAP
(Symbol)	BALL VALVE
(Symbol)	2-WAY CONTROL VALVE - DDC
(Symbol)	3-WAY CONTROL VALVE - DDC
(Symbol)	CIRCUIT BALANCING VALVE
(Symbol)	DRAIN VALVE
(Symbol)	STRAINER
(Symbol)	CLEANOUT
(Symbol)	AIR VENT
(Symbol)	RECTANGULAR DUCTWORK
(Symbol)	RECTANGULAR DUCTWORK - WITH ACOUSTIC LINER
(Symbol)	FAN COIL UNIT
(Symbol)	FLEX CONNECTION
(Symbol)	SQUARE SUPPLY DIFFUSER
(Symbol)	RETURN GRILLE
(Symbol)	FLEXIBLE DUCTWORK, INSULATED
(Symbol)	ROUND TAKE OFF C/W BALANCING DAMPER
(Symbol)	SPACE TEMPERATURE SENSOR (DDC)

FAN COIL UNITS

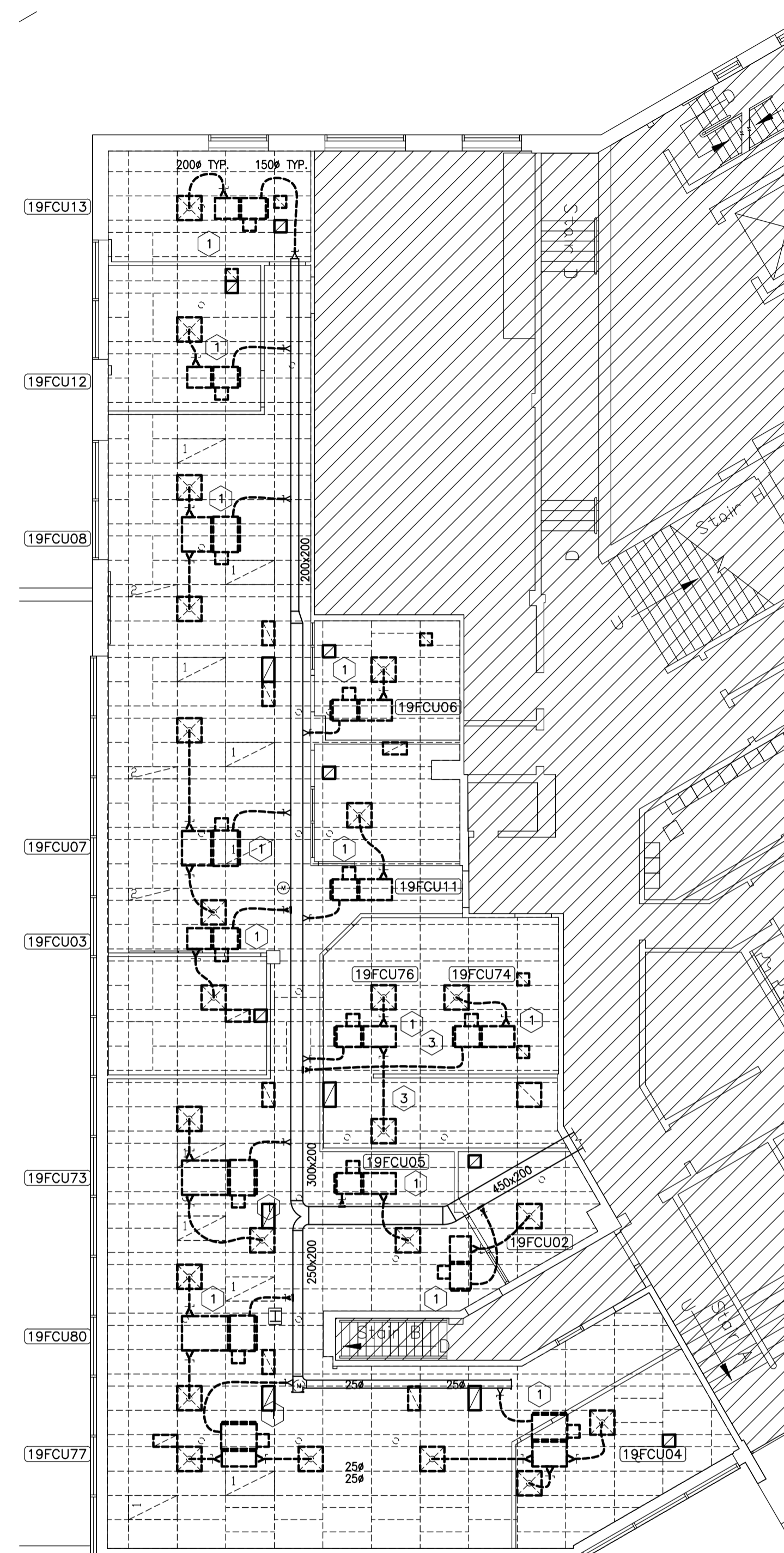
MANUFACTURER	TRANE
EQUIPMENT I. D.	19FCU13; 19FCU12; 19FCU03; 19FCU06; 19FCU11
MODEL	FCCB020
AIR FLOW	L/s / CFM 95/200
EXT. S. P.	Pa / in.w.c. 62.5/0.25
COOLING COIL	3-ROWS
CAPACITY SENS.	kW / MBH 1.3/4.51
CAPACITY TOTAL	kW / MBH 1.7/5.92
ENTER AIR	°C / °F 26.7/19.4 / 80.0/67.0 (DB/WB)
ENTER WATER	°C / °F 7.2/45
WATER FLOW	L/m / GPM 4.5 / 1.18
WATER P. D.	kPa / ft. 6.5 / 2.18
ELECTRICAL	
POWER SUPPLY	V/PH/Hz 115/1/60
POWER	W 67
EQUIPMENT I. D.	19FCU08; 19FCU07; 19FCU73; 19FCU04; 19FCU02
MODEL	FCCB040
AIR FLOW	L/s / CFM 189/400
EXT. S. P.	Pa / in.w.c. 62.5/0.25
COOLING COIL	3-ROWS
CAPACITY SENS.	kW / MBH 2.8/9.68
CAPACITY TOTAL	kW / MBH 3.8/13.05
ENTER AIR	°C / °F 26.7/19.4 / 80.0/67.0 (DB/WB)
ENTER WATER	°C / °F 7.2/45
WATER FLOW	L/m / GPM 9.8 / 2.6
WATER P. D.	kPa / ft. 30.5 / 10.2
ELECTRICAL	
POWER SUPPLY	V/PH/Hz 115/1/60
POWER	W 167
EQUIPMENT I. D.	19FCU80; 19FCU77; 19FCU05
MODEL	FCCB060
AIR FLOW	L/s / CFM 283/600
EXT. S. P.	Pa / in.w.c. 62.5/0.25
COOLING COIL	3-ROWS
CAPACITY SENS.	kW / MBH 4.0/13.68
CAPACITY TOTAL	kW / MBH 5.1/17.56
ENTER AIR	°C / °F 26.7/19.4 / 80.0/67.0 (DB/WB)
ENTER WATER	°C / °F 7.2/45
WATER FLOW	L/m / GPM 13.2 / 3.5
WATER P. D.	kPa / ft. 14.4 / 4.8
ELECTRICAL	
POWER SUPPLY	V/PH/Hz 115/1/60
POWER	W 229
REMARK	HORIZONTAL CONCEALED FAN COIL UNITS C/W RETURN PLENUM WITH BACK DUCT COLLAR INLET, 25mm MERV 13 FILTER, HIGH STATIC ECM MOTOR, VIBRATION ISOLATORS, CUSTOMER SUPPLIED TERMINAL INTERFACE (CSTI), AND UNIT MOUNT NON-FUSED DISCONNECT.

DIFFUSERS & GRILLES

MANUFACTURER	E. H. PRICE
PRODUCT	SQUARE DIFFUSERS
REF	SD
MODEL	ø200/600x600/APDMC-BN/3/B12
AIR FLOW	L/s / CFM 94.4/200
REMARK	-
PRODUCT	RETURN GRILLES
REF	RG1
MODEL	600x300/80/CH/B12
REF	RG2
MODEL	300x300/80/CH/B12
REMARK	CHANNEL BORDER FOR T-BAR LAYIN

CIRCUIT BALANCING VALVE

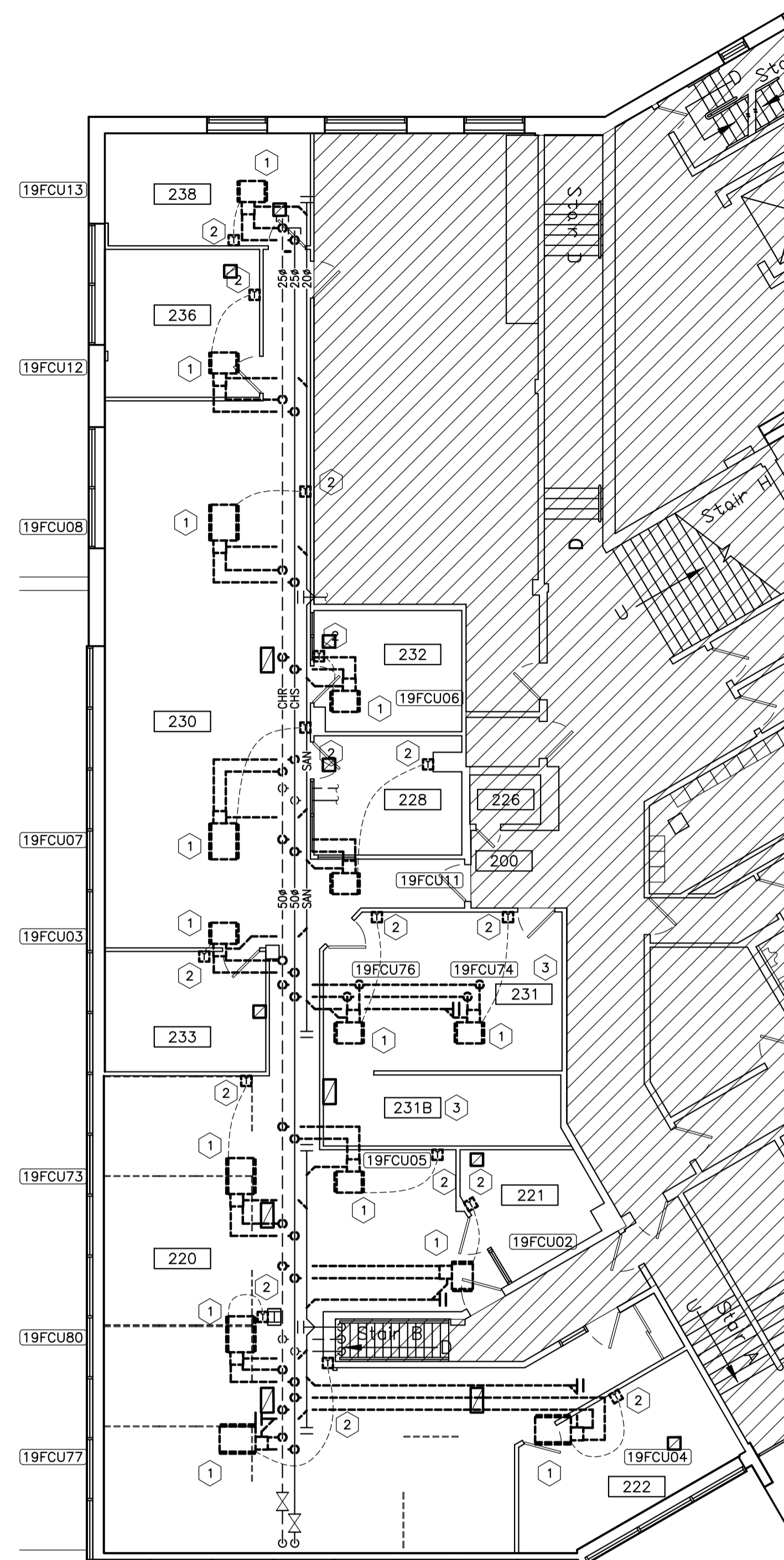
MANUFACTURER	IMI HYDRONIC (TA)
REF	CBV
MODEL	STAS
SIZE	DN20
REMARK	FOR ALL FAN COIL UNITS



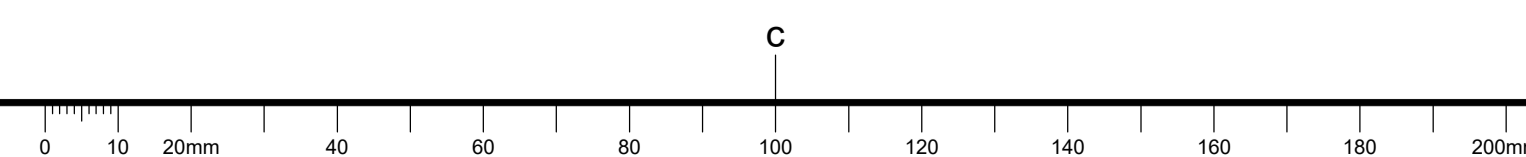
1 DEMOLITION: DUCTWORK PLAN
 M01 SCALE 1:100

MECHANICAL NOTES:

- DISCONNECT AND REMOVE ALL FIFTEEN (15) FAN COIL UNITS C/W SUPPLY & RETURN DUCTWORK, SUPPLY DIFFUSERS, AND RETURN GRILLES. REMOVE FLEXIBLE OUTDOOR AIR DUCT BACK TO TAKE-OFF, CAP FOR FUTURE CONNECTION. REMOVE RELATED CHILLED WATER SUPPLY & RETURN PIPING, CONDENSATE DRAIN PIPING BACK TO MAIN, CAP FOR FUTURE CONNECTION.
- DISCONNECT AND REMOVE ALL EXISTING SMART SENSORS CONTROLLING EXISTING FAN COIL UNITS AND PERIMETER HEATING VALVES BY DN. 25.
- ROOM 231-231B: ALL DEMOLITION AND NEW WORK IN THESE ROOMS WILL NEED TO BE COMPLETED DURING A SPECIFIC SCHEDULED, CONTINUOUS 5 DAY TIME FRAME, PRE-APPROVED BY NRC DEPARTMENTAL REPRESENTATIVE. THE WORK SHALL INCLUDE BUT IS NOT LIMITED TO: CEILING GRID AND TILES, FAN COIL UNITS AND ASSOCIATED WORK, LIGHT FIXTURES AND ASSOCIATED WORK, THE PROTECTION OF ALL EQUIPMENT AND SURFACES IN THESE ROOMS DURING THE DEMOLITION AND NEW WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



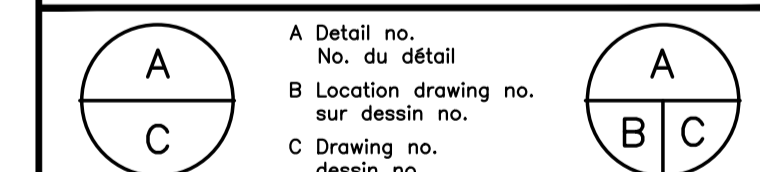
2 DEMOLITION: PIPING PLAN
 M01 SCALE 1:100



No.	Date	Revision	By:
1	19 05 2022	ISSUED FOR TENDER	ZM
0	10 05 2022	ISSUED FOR TRANSLATION	ZM

Date Printed: _____ Date Imprimée: _____

- 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



project: M-19 ROOM 230, SECURITY OFFICE ACCOMMODATION PILOT PROJECT

design: MECHANICAL DEMOLITION PLANS SCHEDULE AND LEGENDS

designed	conçu	date	date
ZM		MAY 2022	
drawn	dessiné	scale	échelle
ZM		AS NOTED	
checked	vérifié	sheet	feuille
PS		1 of/de 2	
approved	approuvé	W.O.no.	D.T.no.
J.L.			

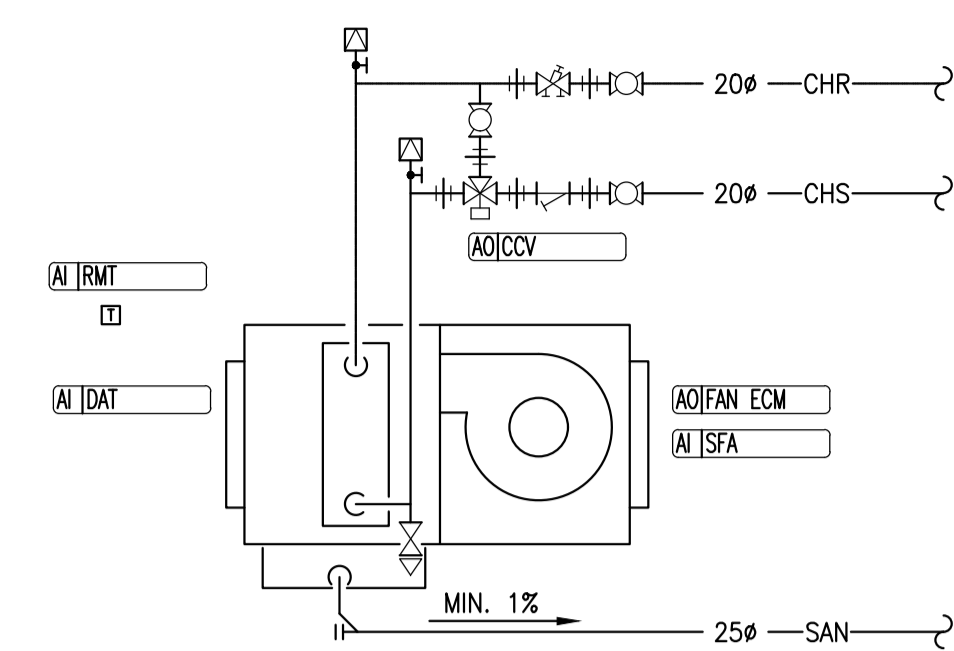
dwg.no. 6073-M01
 ACAD file: _____ fichier CDAO: _____

GENERAL NOTES

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OUTSIDE AIR FLOW

O.A. CONNECTION	O.A. FLOW	
	L/s	CFM
19FCU13	23.7	50
19FCU12	9.4	20
19FCU08	30.8	65
19FCU07	30.8	65
19FCU03	23.6	50
19FCU02	14.2	30
19FCU73	19.0	40
19FCU00	19.0	40
19FCU77	19.0	40
19FCU04	9.4	20
19FCU05	14.2	30
19FCU11	9.4	20
19FCU06	9.4	20



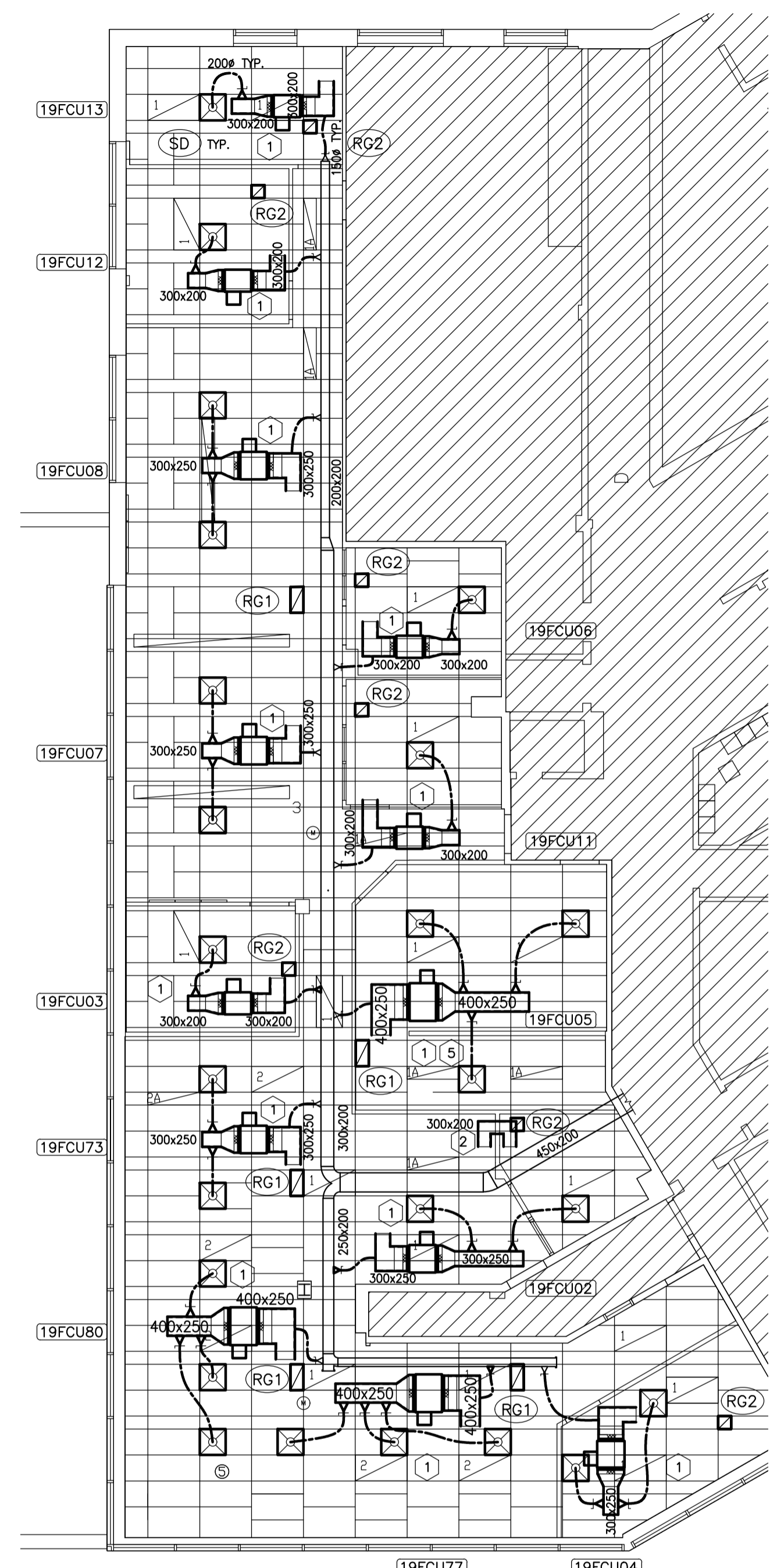
3 FAN COIL UNIT DIAGRAM
 N. T. S.

GENERAL CONTROL NOTES:

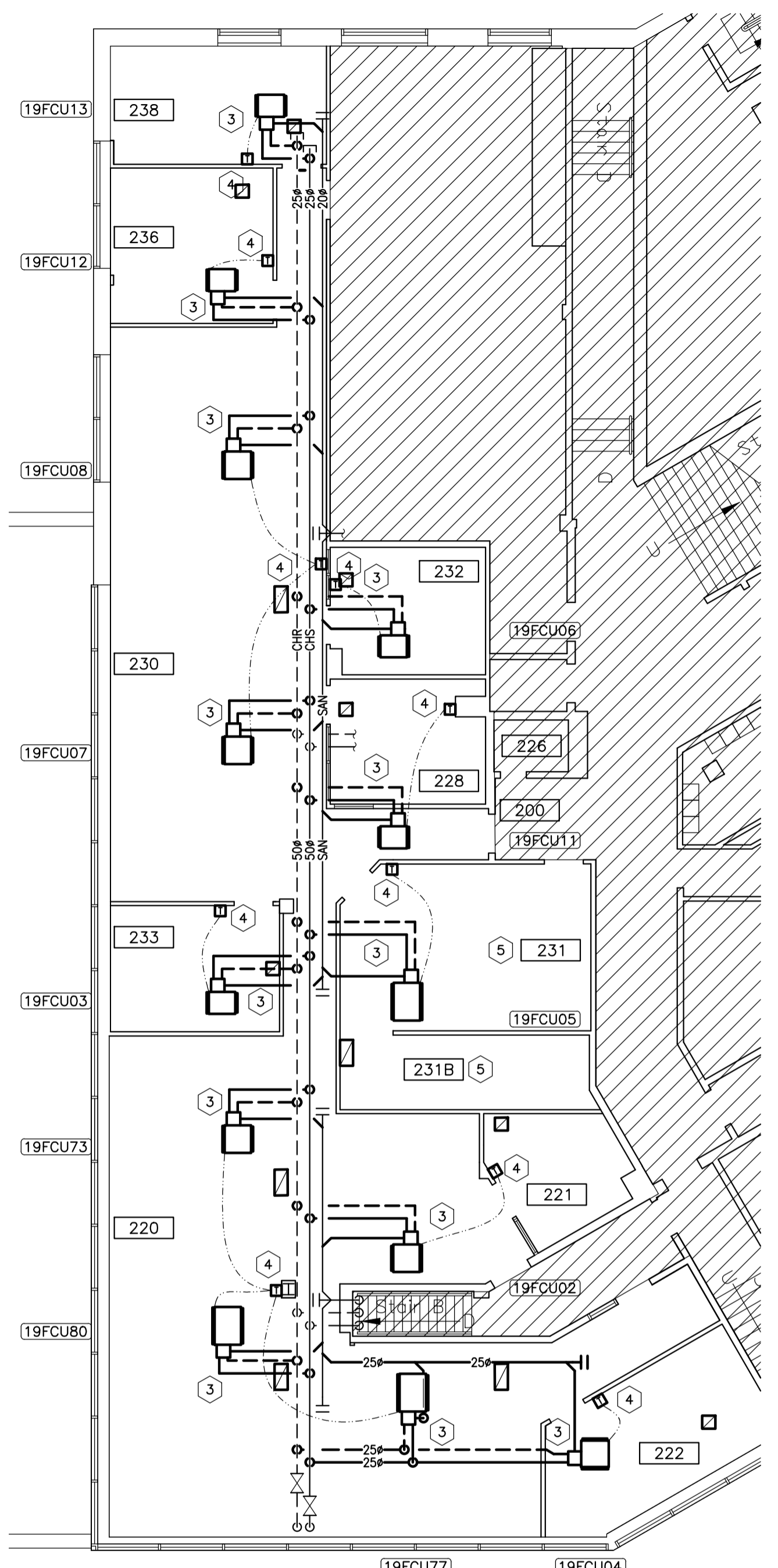
- ALL DDC WORK SHOULD BE CARRIED OUT BY AINSWORTH CANADA, CONTACT: AARON DOBSON, (613)247-7938, AARON.DOBSON@AINSWORTH.COM
- ALL DDC SENSORS AND CONDUIT IN THE FINISHED SPACE SHALL BE RECESSED IN WALL, **NOT SURFACE MOUNTED.**
- MECHANICAL CONTRACTOR TO INSTALL CONTROL VALVES SUPPLIED BY AINSWORTH.
- MECHANICAL CONTRACTOR TO CARRY COST FOR SETUP AND COMMISSIONING BY EQUIPMENT MANUFACTURER TECHNICIAN TOGETHER WITH AINSWORTH.

DDC SEQUENCE OF OPERATION:

- FAN COIL UNITS:
 - HEATING SEASON:
 - ALL FAN COIL UNITS CHILLED WATER VALVES REMAIN CLOSED TO THE COIL. FAN COIL UNITS WILL START AND STOP ACCORDING TO USER-ADJUSTABLE OCCUPANCY SCHEDULE. FAN SHOULD RUN AT 10% SPEED WHEN TURNED ON.
 - CONTROL SYSTEM SHOULD MODULATE THE PERIMETER HEATING VALVES TO MAINTAIN ROOM TEMPERATURE SET POINT.
 - COOLING SEASON:
 - FAN COIL UNITS WILL START AND STOP ACCORDING TO USER-ADJUSTABLE OCCUPANCY SCHEDULE.
 - FANS SHOULD REMAIN AT 10% (USER-ADJUSTABLE) SPEED WHILE SYSTEM MODULATE CHILLED WATER VALVE TO MAINTAIN ROOM TEMPERATURE SET POINT.
 - ONLY WHEN CHILLED WATER IS FULLY OPEN TO COOLING COIL AND ROOM TEMPERATURE IS STILL HIGHER THAN SET POINT FOR MORE THAN 10 MINUTES (USER-ADJUSTABLE), THE SYSTEM SHALL INCREASE THE FAN SPEED TO MAINTAIN ROOM TEMPERATURE SET POINT.
 - WHEN ROOM TEMPERATURE DROPS BELOW SET POINT, SYSTEM SHALL FIRST REDUCE THE FAN SPEED.
- FAN STATUS:
 - CONTROL SYSTEM SHOULD MONITOR FAN STATUS USING CURRENT SENSOR. SEND AN ALARM WHEN FAN MALFUNCTIONS.



1 CONSTRUCTION: DUCTWORK PLAN
 SCALE 1:100



2 CONSTRUCTION: PIPING PLAN
 SCALE 1:100

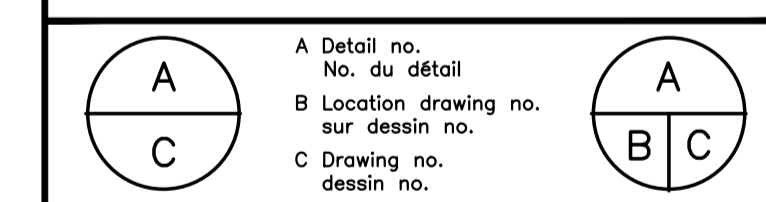
MECHANICAL NOTES:

- PROVIDE NEW FAN COIL UNITS C/W SUPPLY & RETURN DUCTWORK, SUPPLY DIFFUSERS, AND RETURN GRILLES. ALL FLEXIBLE SUPPLY DUCTWORK IS 200#. PROVIDE NEW 150# FLEXIBLE OUTDOOR AIR DUCT AND TAKE-OFF WHERE REQUIRED, CONNECT TO EXISTING MAIN OUTDOOR AIR DUCTWORK. RIGID SUPPLY AND RETURN DUCTWORK SHOULD BE ACOUSTICALLY LINED. REFER TO SPECS FOR DETAILS. REFER TO SCHEDULE ON DRAWING M01 FOR DETAILS REGARDING NEW FAN COIL UNITS, DIFFUSERS AND GRILLES.
- PROVIDE TRANSFER DUCT AS SHOWN. TRANSFER DUCT SHOULD BE ACOUSTICALLY LINED.
- PROVIDE NEW CHILLED WATER SUPPLY & RETURN PIPING, CONDENSATE DRAIN PIPING FOR NEW FAN COIL UNITS, CONNECT TO EXISTING MAIN. INSULATE NEW PIPE AND REPAIR INSULATION ON EXISTING PIPE AS PER SPEC. REFER TO PIPING DIAGRAM FOR FAN COIL UNIT CONNECTION DETAILS.
- PROVIDE NEW DDC TEMPERATURE SENSORS TO CONTROL NEW FAN COIL UNITS, EXISTING HEATING VALVES AND SPLIT AC UNITS BY DIV. 25.
- ROOM 231-231B: ALL DEMOLITION AND NEW WORK IN THESE ROOMS WILL NEED TO BE COMPLETED DURING A SPECIFIC SCHEDULED, CONTINUOUS 5 DAY TIME FRAME, PRE-APPROVED BY NRC DEPARTMENTAL REPRESENTATIVE. THE WORK SHALL INCLUDE BUT IS NOT LIMITED TO: CEILING GRID AND TILES, FAN COIL UNITS AND ASSOCIATED WORK, LIGHT FIXTURES AND ASSOCIATED WORK. THE PROTECTION OF ALL EQUIPMENT AND SURFACES IN THESE ROOMS DURING THE DEMOLITION AND NEW WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- BALANCE OUTDOOR AIR FLOW TO EACH FAN COIL UNIT AS PER TABLE. BALANCE SUPPLY AIR FLOW TO EACH DIFFUSER TO 94.4 L/s (200 CFM).
- BALANCE CHILLED WATER FLOW TO EACH FAN COIL UNIT AS PER SCHEDULE ON DRAWING M01.
- CARRY OUT COMMISSIONING ACCORDING TO SPECS.

No.	Date	Revision	By:
1	19 05 2022	ISSUED FOR TENDER	ZM
0	10 05 2022	ISSUED FOR TRANSLATION	ZM

Date Printed: _____ Date Imprimée: _____

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project: M-19 ROOM 230, SECURITY OFFICE ACCOMMODATION PILOT PROJECT

designed: ZM conçu: ZM date: MAY 2022

drawing: MECHANICAL CONSTRUCTION PLANS AND DIAGRAM dessin: _____

drawn: ZM dessiné: ZM scale: AS NOTED échelle: _____

checked: PS vérifié: PS sheet: 2 of/de 2 feuille

approved: J.L. approuvé: J.L. W.O.no.: _____ D.T.no.: _____

dwg.no.: 6073-M02 dessin no.: _____
 ACAD file: _____ fichier CDAO: _____

NATIONAL RESEARCH COUNCIL CANADA MONTREAL ROAD CAMPUS

M-19 1ST FLOOR, SECURITY ACCOMMODATION RENOVATION ELECTRICAL WORK



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GENERAL DRAWING NOTES

- GENERAL NOTES (APPLIES TO ALL DRAWINGS):
- READ THIS DRAWING IN CONJUNCTION WITH SPECIFICATIONS, ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO NRC DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
 - PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
 - MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
 - FILL ALL HOLES, PATCH & PAINT ALL SURFACES IN CONTRACT AREA. PAINT ALL SURFACE CONDUITS. COLOR SCHEME TO MATCH EXISTING.
 - COORDINATE WORK WITH OTHER TRADES FOR INSTALLATION AND TO AVOID INTERFERENCE.
 - COORDINATE ALL SHUTDOWNS WITH THE NRC DEPARTMENTAL REPRESENTATIVE.
 - REMOVE MEANS REMOVE AND DISPOSE OF OFF SITE UNLESS OTHERWISE NOTED.
 - REMOVE REDUNDANT CONDUIT AND WIRING BACK TO SOURCE UNLESS OTHERWISE NOTED, AND MAKE SAFE.
 - PROVIDE LABELS TO NEW DEVICES TO INDICATE POWER SOURCE. UPDATE PANEL SCHEDULES AFTER JOB COMPLETION AND PROVIDE NEW TYPED SCHEDULES.
 - ALL INTERIOR WIRING SHALL BE #12 AWG CONDUCTOR MINIMUM. TYPE R90 XLPE CROSS-LINK POLYETHYLENE STRANDED FOR SIZE NO.8 AND LARGER. TYPE T90 STRANDED FOR SIZE NO.10 AND SMALLER. ALL NEW RACEWAYS SHALL BE THIN WALL ELECTRICAL METALLIC TUBING (EMT) 1/2" MINIMUM UNLESS OTHERWISE INDICATED. CONDUITS TO BE COMPLETE WITH INSULATED TYPE CONNECTORS AND BUSHING.
 - SURFACE CONDUIT TO RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES. ALL CONDUITS AND JUNCTION BOXES TO BE ANCHORED TO THE BUILDING STRUCTURE.
 - ALL RACEWAYS SHALL BE CONCEALED IN FINISHED AREAS.
 - THE WORD 'PROVIDE' MEANS SUPPLY, INSTALL, CONNECT AND TEST.

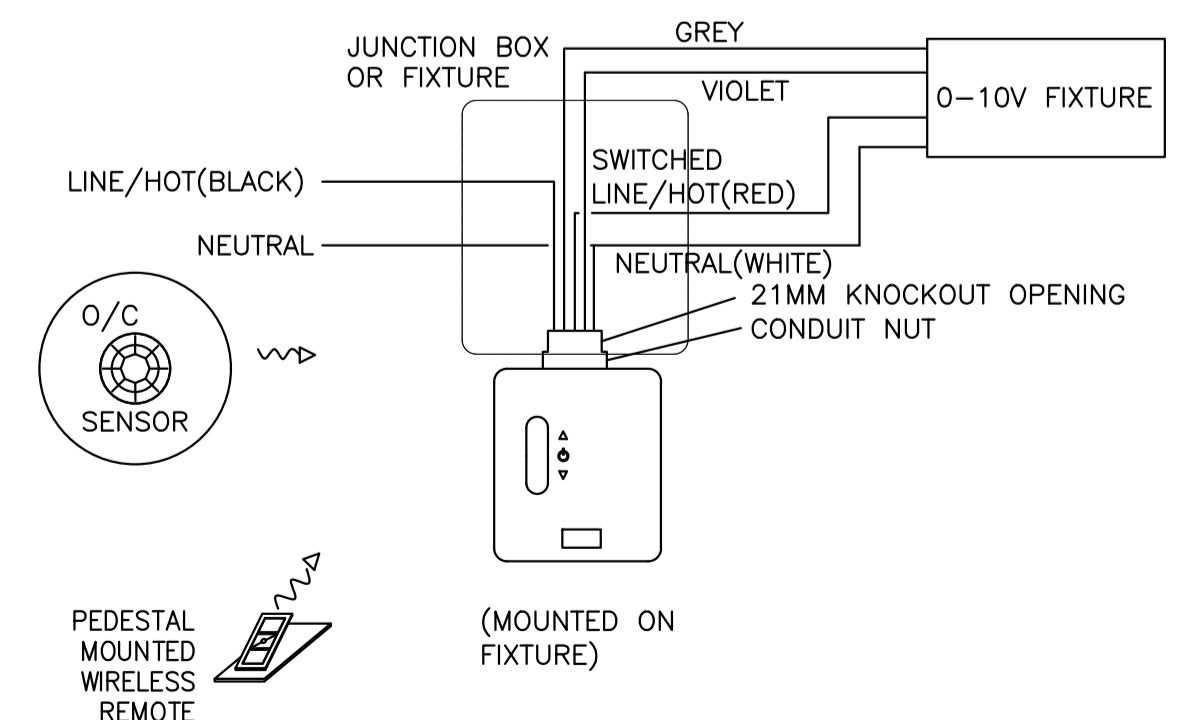
LIGHTING FIXTURE SCHEDULE

TYPE	LUMINAIRE TYPE	TYPE	WATTS	COLOUR TEMP.	LUMEN OUTPUT	CRI	VOLT	MOUNTING	MODEL & NUMBER	NOTES
E	EXISTING RECESSED LIGHT FIXTURE	-	-	4000K	-	-	120V	RECESSED	-	-
1	600x1200mm RECESSED TROFFER	LED	30W	4000K	4040	80	120V	RECESSED	CREE ZR* ZR-24-40L-840-10V5-UNV	*OR EQUAL APPROVED 0-10V DIMMING (CONTROLLED BY WIRELESS ZONE DIMMING CONTROLLER)
1A	300x1200mm RECESSED TROFFER	LED	30W	4000K	4040	80	120V	RECESSED	CREE ZR* ZR-14-40L-840-10V5-UNV	*OR EQUAL APPROVED 0-10V DIMMING (CONTROLLED BY WIRELESS ZONE DIMMING CONTROLLER)
2	600x1200mm RECESSED TROFFER	LED	30W	4000K	4040	80	120V	RECESSED	CREE ZR* ZR-24-40L-840-VDO-UNV	*OR EQUAL APPROVED C/W INTEGRAL LUTRON VIVE FIXTURE CONTROLS AND OCC/VACANCY SENSOR
2A	300x1200mm RECESSED TROFFER	LED	30W	4000K	4040	80	120V	RECESSED	CREE ZR* ZR-14-40L-840-VDO-UNV	*OR EQUAL APPROVED C/W INTEGRAL LUTRON VIVE FIXTURE CONTROLS AND OCC/VACANCY SENSOR
3	DIRECT/INDIRECT SUSPENDED LIGHT FIXTURE	LED	42W	4000K	5491	80	120V	SUSPENDED	SIGNIFY LEDALITE FLOATPLANE* 24R5LABAD127DEWNSZX24	*OR EQUAL APPROVED 0-10V DIMMING (CONTROLLED BY WIRELESS ZONE DIMMING CONTROLLER) SELECT APPROPRIATE MOUNT TYPE. SUSPEND AT 460mm FROM CEILING.
4	DIRECT/INDIRECT SUSPENDED LIGHT FIXTURE	LED	43W	4000K	4797	90	120V	SUSPENDED	SIGNIFY LEDALITE EYELINE* ELGSL94048Q0808DERNSZW04X	*OR EQUAL APPROVED 0-10V DIMMING (CONTROLLED BY WIRELESS ZONE DIMMING CONTROLLER) SELECT APPROPRIATE MOUNT TYPE. SUSPEND AT 460mm FROM CEILING.
5	ROUND PENDANT	LED	35W	3500K	3500	90	120V	SUSPENDED	LUMENWERK POP COLOUR 24 PCROPD-24-ULO-FH-SW-90 -3500-35-12V-D1-1-SWAC36 -WPC-W-NA*	*OR EQUAL APPROVED 0-10V DIMMING (CONTROLLED BY WIRELESS ZONE DIMMING CONTROLLER)

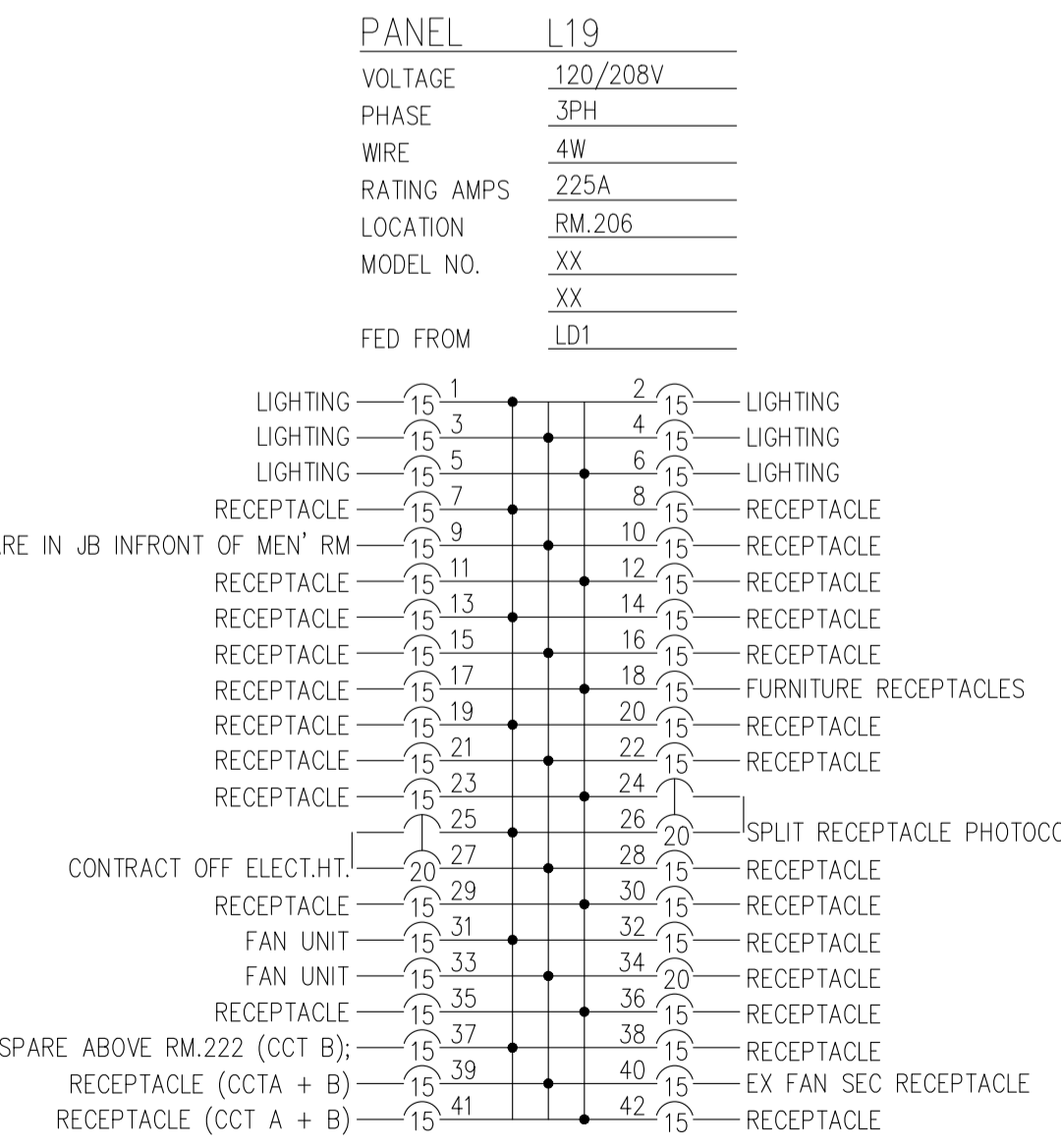
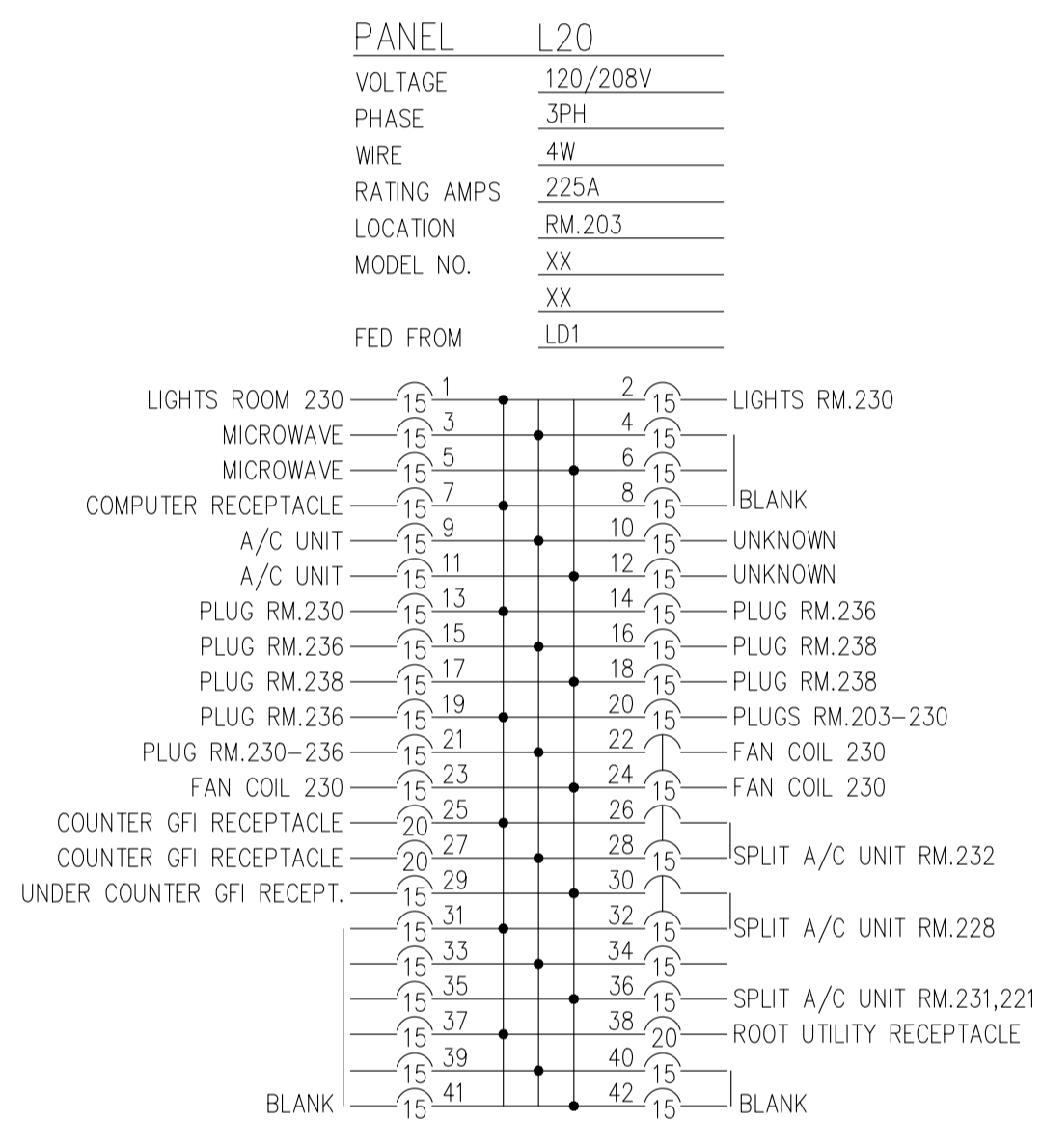
1 LUMINAIRE SCHEDULE E01 N.T.S.

ZONE/ROOM	CONTROLS/SCHEDULING
1	-AUTO ON BY OCCUPANCY SENSOR, DIM TO 50% AFTER 1 HOUR VACANCY -AUTO DIM TO 10% AFTER HOURS (6PM)
2	-MANUAL ON WITH WORKSTATION REMOTE, ABOVE DESK FIXTURE ONLY -AUTO OFF AFTER 15 MINUTES VACANCY
3	-MANUAL ON WITH WALL DIMMER SWITCH -AUTO DIM TO 50% AFTER 30 MINUTES VACANCY, -AUTO OFF AFTER HOURS (6PM)
ENCLOSED ROOMS	-AUTO ON WITH OCCUPANCY/DIMMING WALL SWITCH -AUTO OFF AFTER 15 MINUTES VACANCY

2 LIGHTING CONTROL SCHEDULE E01 N.T.S.



3 WIRELESS DIMMING LOAD CONTROL MODULE WIRING DIAGRAM E01 N.T.S.



4 EXISTING PANEL SCHEDULES E01 N.T.S.

SYMBOL	DESCRIPTION
[Symbol]	600X1200mm LED LIGHT FIXTURE - TYPE AS SHOWN
[Symbol]	300X1200mm LED LIGHT FIXTURE - TYPE AS SHOWN
[Symbol]	LIGHT FIXTURE ON EMERGENCY POWER
[Symbol]	WALL MOUNTED TOGGLE SWITCH
[Symbol]	WIRELESS DIMMING WALL MOUNTED SWITCH
[Symbol]	WIRED 0-10V RF OCCUPANCY/DIMMING WALL MOUNTED SWITCH
[Symbol]	WIRELESS PEDESTAL MOUNTED REMOTE (CONTROLS LIGHT ABOVE WORKSTATION)
[Symbol]	WIRELESS CEILING MOUNTED OCCUPANCY SENSOR
[Symbol]	WIRELESS WALL MOUNTED OCCUPANCY SENSOR
[Symbol]	WIRELESS WALL MOUNTED OCCUPANCY SENSOR (HALLWAY TYPE)
[Symbol]	CEILING MOUNTED EXIT LIGHT, SINGLE OR DOUBLE FACE
[Symbol]	WALL MOUNTED EXIT LIGHT, SINGLE OR DOUBLE FACE
[Symbol]	CEILING MOUNTED EXIT LIGHT, DOUBLE FACE
[Symbol]	LIGHTING CONTROL HUB
[Symbol]	FIRE ALARM HEAT DETECTOR
[Symbol]	FIRE ALARM BELL
[Symbol]	15A, 120V WALL MOUNTED DUPLEX RECEPTACLE
[Symbol]	FURNITURE BASE FEED
[Symbol]	120V, 20A, 5-20R DUPLEX RECEPTACLE
[Symbol]	FURNITURE POLE C/W JUNCTION BOX AT TOP OF POLE BY OTHERS. MAKE FINAL FURNITURE CONNECTION AT THIS BOX & CONNECT TO CEILING JUNCTION BOX
[Symbol]	ELECTRICAL PANEL
[Symbol]	DISCONNECT SWITCH
[Symbol]	SURFACE DATA RACEWAY
[Symbol]	DATA OUTLET
[Symbol]	TELEPHONE OUTLET
[Symbol]	IBM OUTLET
[Symbol]	SOUNDMASKING SYSTEM 8-CHL CONTROLLER
[Symbol]	SOUNDMASKING PLENUM SPEAKER
[Symbol]	SOUNDMASKING SOUND SENSOR
A.F.F.	ABOVE FINISHED FLOOR
---	DARK SOLID LINE DENOTES NEW OR RELOCATED
---	LIGHT SOLID LINE DENOTES EXISTING TO REMAIN
----	DASHED LINE DENOTES DEMOLITION WORK

GENERAL NOTES

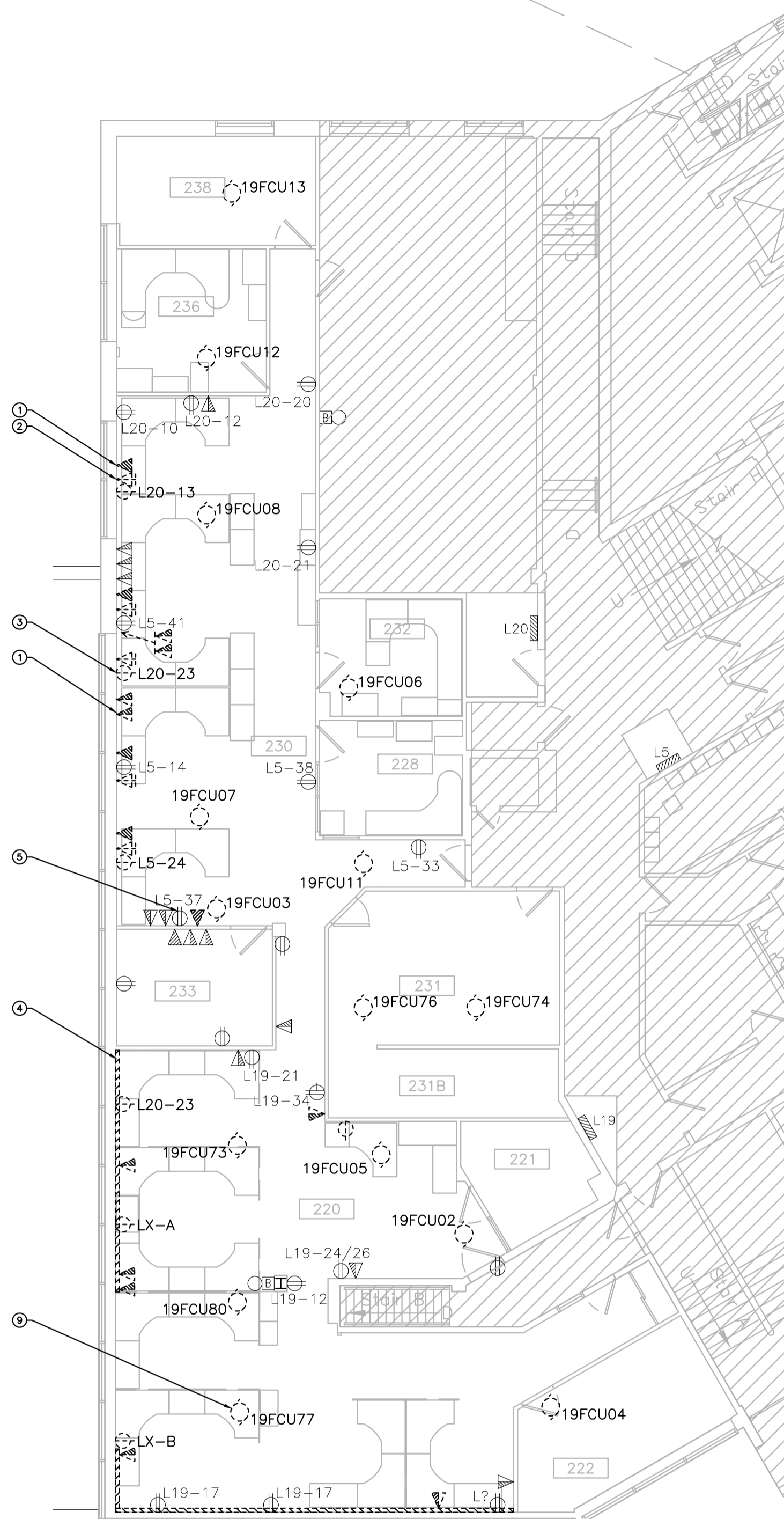
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SOUND MASKING:

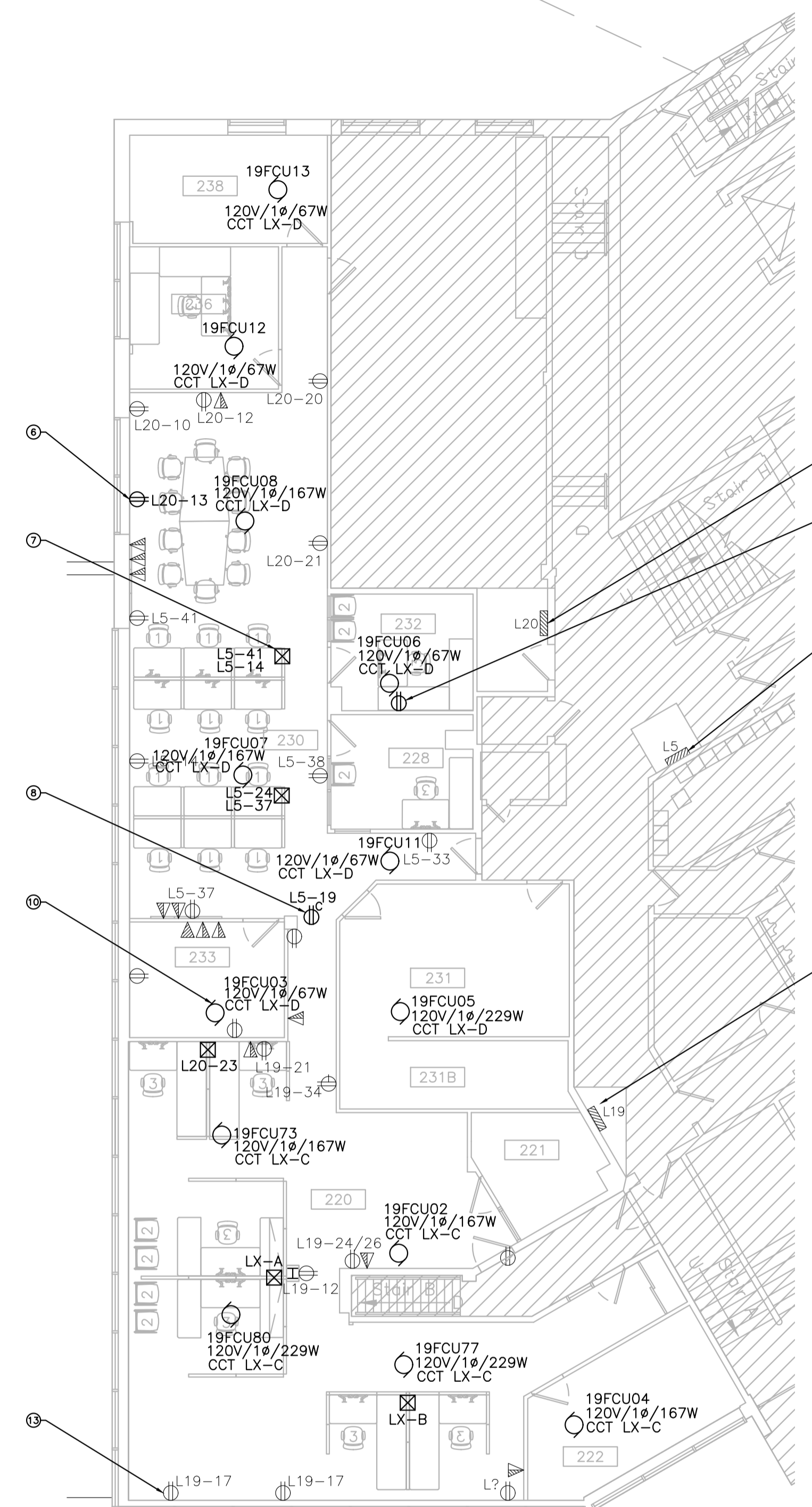
1. PROVIDE COMPLETE SOUND MASKING SYSTEM WHICH INCLUDES BUT IS NOT LIMITED TO:

- 1.1. CONTROLLERS IN CEILING SPACE;
- 1.2. PLENUM SPEAKERS IN OPEN OFFICE AREA;
- 1.3. PLENUM SPEAKERS IN CLOSED OFFICES, MEETING ROOMS AND QUIET ROOMS;
- 1.4. SOUND SENSORS;
- 1.5. WIRING AND ALL FINAL CONNECTIONS;
- 1.6. CALIBRATION;
- 1.7. PROGRAMMING AND COMMISSIONING;
- 1.8. TRAINING;

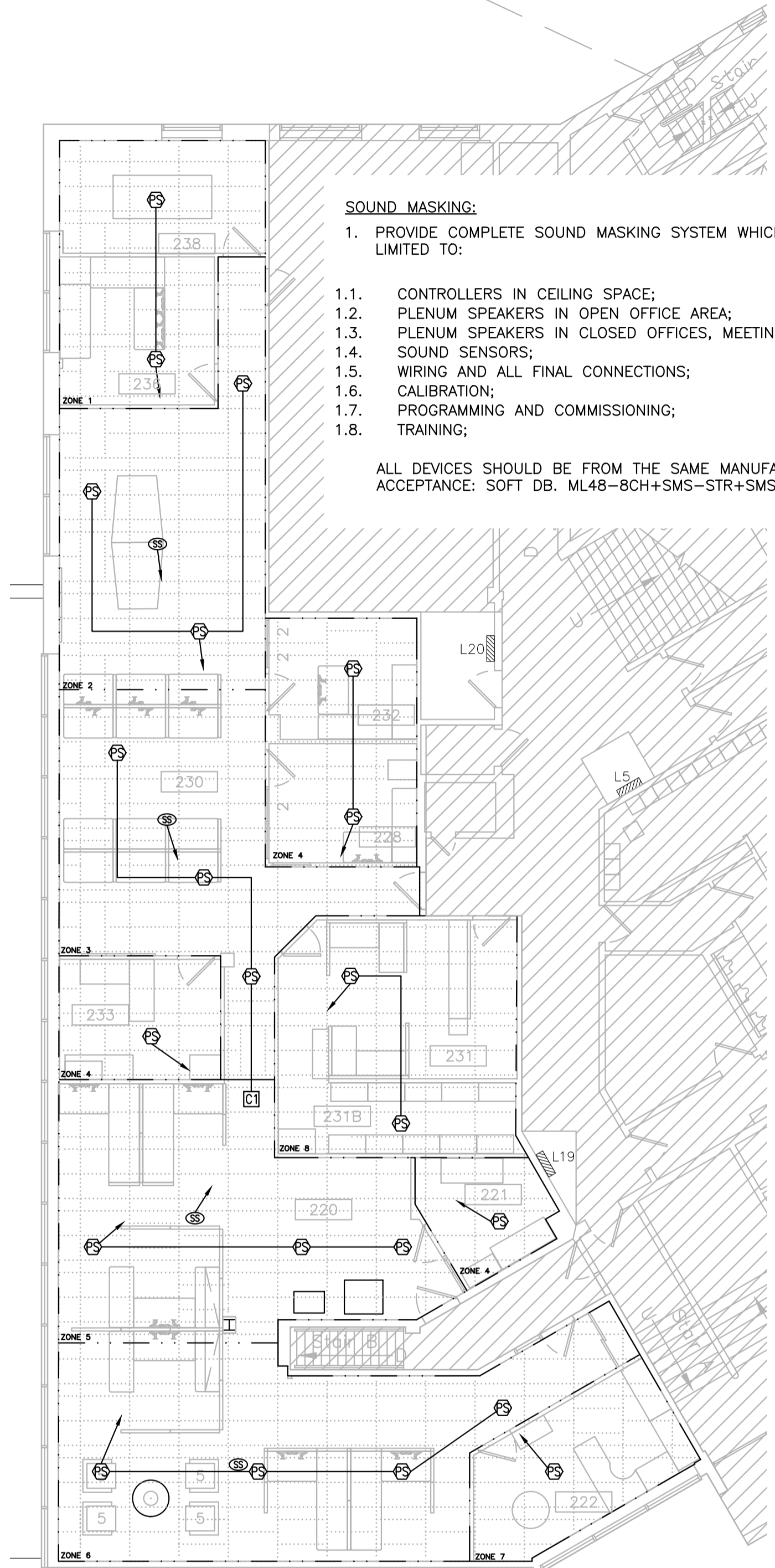
ALL DEVICES SHOULD BE FROM THE SAME MANUFACTURER. STANDARD OF ACCEPTANCE: SOFT DB. ML48-8CH+SMS-STR+SMS-SEN.



1 DEMOLITION — POWER AND SYSTEMS
 SCALE 1:100



2 NEW WORK — POWER AND SYSTEM
 SCALE 1:100



3 NEW WORK — SOUND MASKING SYSTEM
 SCALE 1:100

SYSTEM COMPONENTS
 CONTROLLER (C1)
 8 ZONES
 22 SPEAKERS (PS)
 4 SOUND SENSORS (SS)

DRAWING NOTES

1. **TYPICAL:** DISCONNECT AND REMOVE PHONE/DATA OUTLET. IDENTIFY AND PULL BACK CABLING UP TO CEILING AND COIL IN CEILING SPACE.
2. **TYPICAL:** DISCONNECT AND REMOVE IBM OUTLET. CUT CABLING AT THE END OF CONSTRUCTION AREA AND REMOVE.
3. **TYPICAL:** DISCONNECT FURNITURE BASEFEED. PULL BACK WIRING AND CONDUIT BACK TO SOURCE AND MAKE SAFE, OR RE-USE CIRCUIT AS REQUIRED, REFER TO DETAIL 2/E02.
4. **TYPICAL:** REMOVE SURFACE MOUNTED WIREWAY. IDENTIFY DATA CABLING AND COIL IN CEILING SPACE.
5. **TYPICAL:** EXISTING OUTLET ON PC350 PARTITION. REMOVE COVER PLATE TO ALLOW DRYWALL INSTALLATION. PROVIDE NEW STAINLESS STEEL COVER PLATE C/W NEW LABEL ONCE WALL IS FINISHED.
6. PROVIDE NEW RECEPTACLE. RE-USE CIRCUIT AND BACK BOX IN THIS LOCATION USED FOR FURNITURE BASEFEED. REFER TO DETAIL 1/E02.
7. **TYPICAL:** FURNITURE POLE BY OTHERS. PROVIDE CONNECTION TO FURNITURE WHIP IN CEILING ABOVE. CONNECT TO CIRCUITS SHOWN MADE AVAILABLE FROM DEMOLITION WORK. PROVIDE CIRCUIT LABELS ON FURNITURE POLE.
8. PROVIDE NEW RECEPTACLE IN CEILING SPACE FOR SOUND MASKING SYSTEM AND LIGHTING CONTROL HUB. SPARE CIRCUIT L5-19 IS AVAILABLE IN THIS LOCATION ON RM 233 PARTITION.
9. **TYPICAL:** DISCONNECT FAN COIL UNITS AND RETAIN 2 CIRCUITS FOR RE-USE. REFER TO NOTE 10.
10. **TYPICAL:** NEW FAN COIL UNIT BY OTHERS. PROVIDE CONNECTION TO UNIT. CONNECT TO CIRCUITS RETAINED FROM DEMOLITION WORK. UPDATE PANEL SCHEDULES.
11. REFER TO PANEL SCHEDULES ON E01 FOR INFORMATION. TRACE ALL CIRCUITS AND UPDATE SCHEDULES. SCHEDULES SHALL INDICATE WHAT EACH CIRCUIT IS FEEDING AND ITS LOCATION, e.g. RECEPTACLE ROOM 228.
12. PROVIDE NEW RECEPTACLE AND CONNECT TO ROOM 232 EMERGENCY CIRCUIT. EXISTING ROUGH-IN IN THIS LOCATION MAY BE USED.
13. REPLACE ALL EXISTING TO REMAIN RECEPTACLES WITHIN WORK AREA WITH NEW WHITE RECEPTACLES. PROVIDE NEW STAINLESS STEEL COVER PLATE FOR ALL EXISTING OUTLETS WITHIN WORK AREA. THIS INCLUDES ALL EXISTING OUTLETS, I.E. DATA, POWER, ETC. PROVIDE NEW CIRCUIT LABELS.

No.	Date	Revision	By:
1	30 05 2022	ISSUED FOR TENDER	FG

Date Printed DD MM YYYY Date Imprimée

- 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
B	B Location drawing no. sur dessin n°	B
C	C Drawing no. dessin n°	C

project
 M-19 ROOM 230, SECURITY OFFICE
 ACCOMMODATION PILOT PROJECT
 project

MONTREAL ROAD CAMPUS
 dessin
 ELECTRICAL
 POWER, SYSTEMS AND SOUND MASKING
 NEW AND DEMOLITION WORK

designed	F.G.	conçu	date	MAY 2022	date
drawn	F.G.	dessiné	scale	AS NOTED	échelle
checked	C.Y.C.	vérifié	sheet	1	of/de 3
approved	A.S.	approuvé	W.O.no.		D.T.no.
dwg.no.	6073-E02	dessin n°			
ACAD file:		dessin			ACAD file:

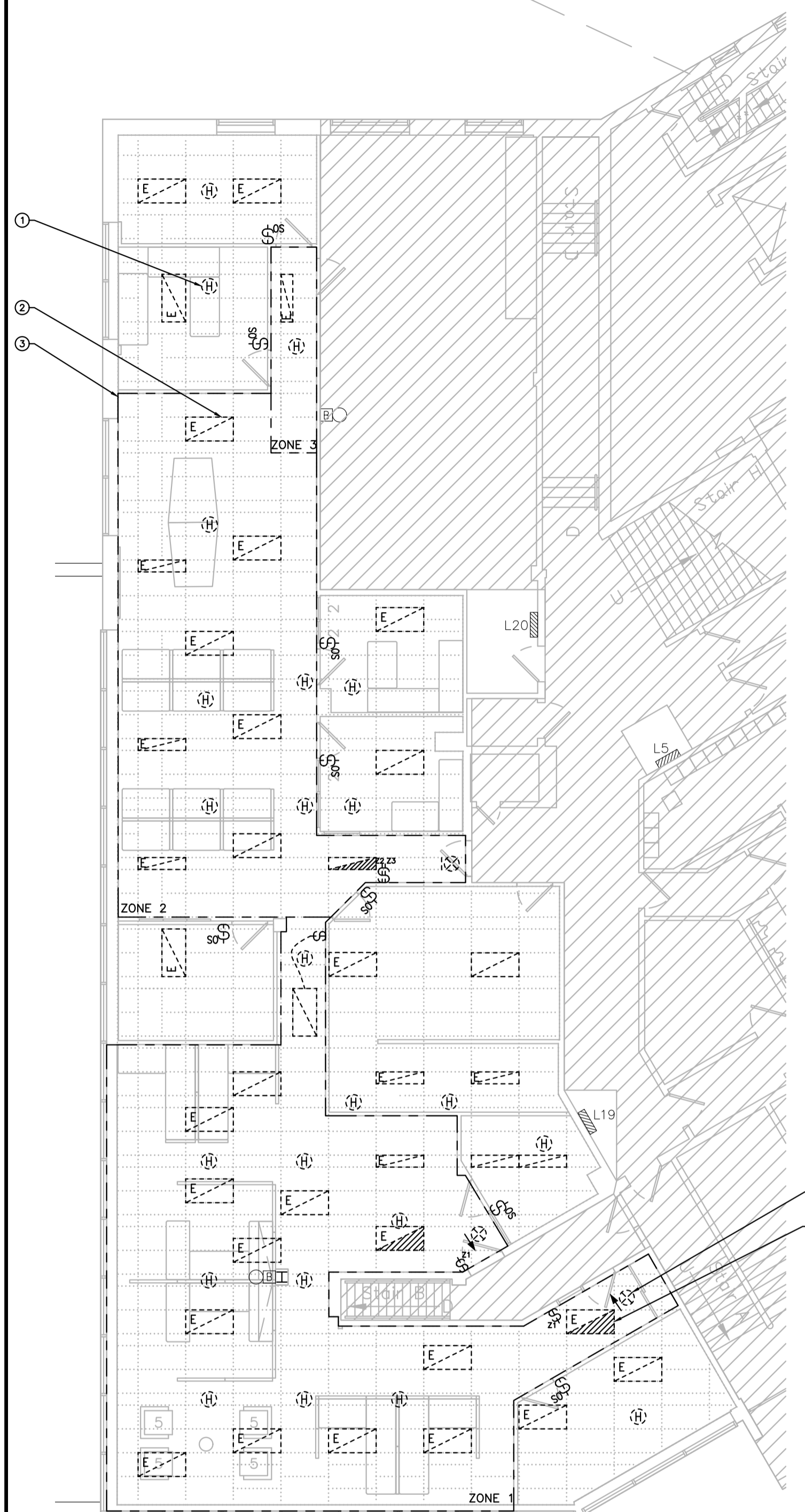


GENERAL NOTES

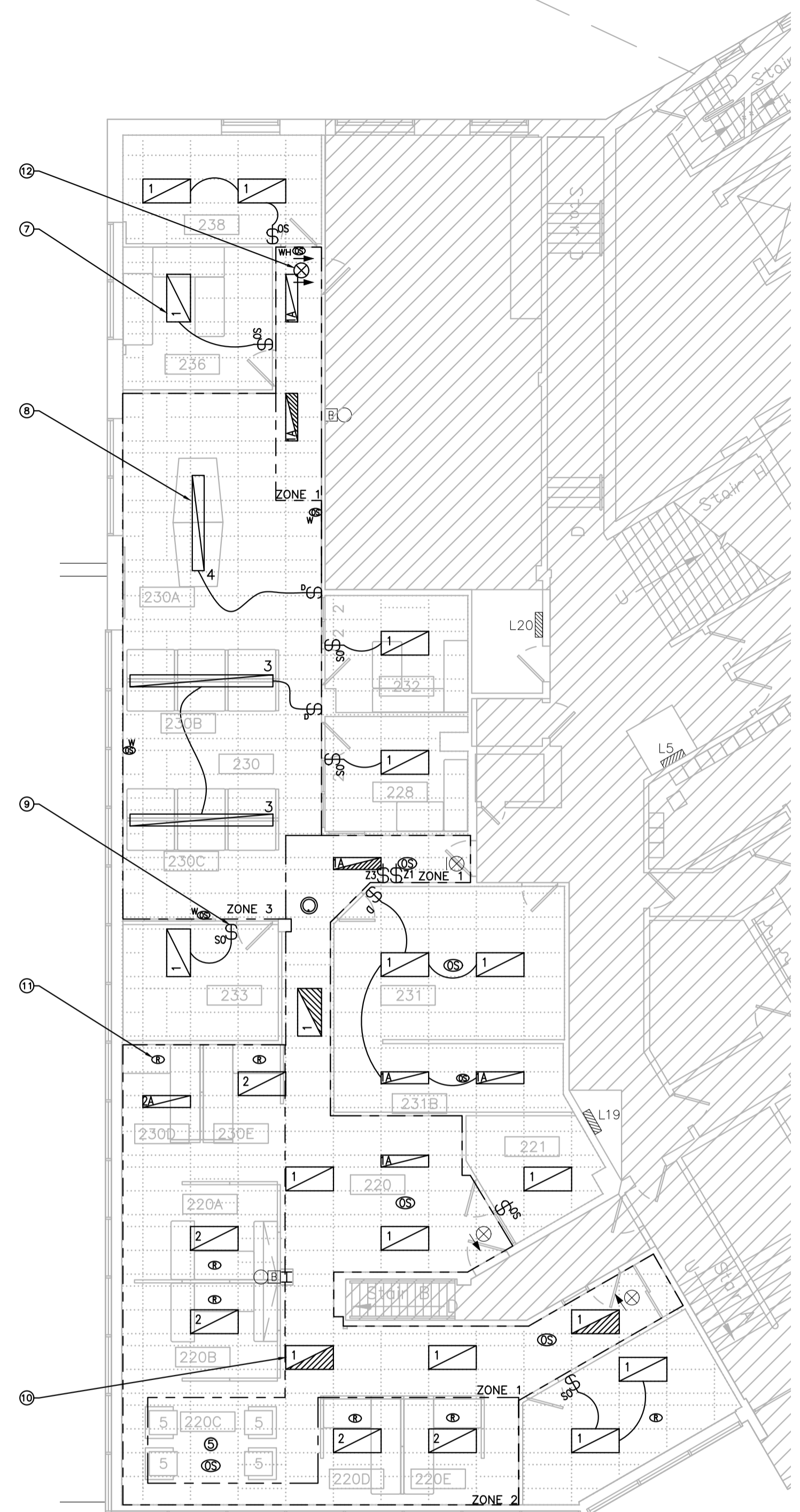
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DRAWING NOTES

- LIGHTING AND FIRE ALARM:**
- TYPICAL: DISCONNECT & REMOVE EXISTING HEAT DETECTOR. PROVIDE FIRE ALARM VERIFICATION REPORT UPON COMPLETION.
 - TYPICAL: DISCONNECT AND REMOVE LIGHT FIXTURE. RETAIN CIRCUIT FOR RE-USE. REMOVE ALL REDUNDANT WIRING AND CONDUITS BACK TO SOURCE.
 - EXISTING LIGHTING SWITCHING ZONE.
 - NOT USED.
 - TYPICAL: DISCONNECT AND REMOVE EXIT LIGHT TO ALLOW CEILING REPLACEMENT. RE-INSTATE ONCE NEW CEILING IS INSTALLED.
 - RETAIN EMERGENCY CIRCUIT FOR RE-USE IN NEW CONSTRUCTION.
 - TYPICAL: PROVIDE NEW LUMINAIRE, TYPE AS SHOWN, AND CONNECT TO LOCAL LIGHTING CIRCUIT. REFER TO LUMINAIRE SCHEDULE, DETAIL 1/E01.
 - TYPICAL: SUSPENDED FIXTURES, ZONE 1 AND RM 231 FIXTURES SHALL BE CONTROLLED BY A WIRELESS DIMMING MODULES. REFER TO SPECIFICATIONS FOR DETAILS.
 - TYPICAL: PROVIDE A WIRED RF OCCUPANCY/DIMMING (0-10V) SWITCH TO CONTROL FIXTURES IN ENCLOSED ROOMS. REFER TO SPECIFICATIONS FOR DETAILS.
 - TYPICAL: CONNECT LUMINAIRE TO UN-SWITCHED EMERGENCY CIRCUIT RETAINED FROM DEMOLITION. EMERGENCY LUMINAIRES SHALL HAVE AN EMERGENCY TYPE WIRELESS DIMMING MODULE, THEY SHALL GO TO 100% BRIGHTNESS UPON NORMAL POWER LOSS. REFER TO SPECIFICATIONS FOR DETAILS.
 - TYPICAL: PROVIDE ONE PEDESTAL MOUNTED WIRELESS DIMMING SWITCH AT EACH WORKSTATION AND PROGRAM TO CONTROL FIXTURE ABOVE DESK.
 - PROVIDE NEW EXIT SIGN. REFER TO SPECIFICATIONS FOR STANDARD OF ACCEPTANCE.



1 DEMOLITION - LIGHTING AND FIRE ALARM
 E03 SCALE 1:100

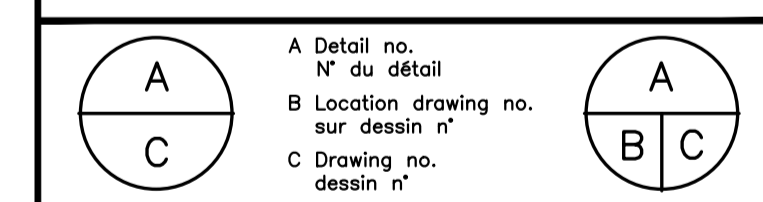


2 NEW - LIGHTING AND FIRE ALARM
 E03 SCALE 1:100

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			Par:

Date Printed DD MM YYYY Date imprimée

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project / projet
 M-19 ROOM 230, SECURITY OFFICE ACCOMMODATION PILOT PROJECT
 MONTREAL ROAD CAMPUS

drawing / dessin
 ELECTRICAL LIGHTING, FIRE ALARM AND SOUND MASKING NEW AND DEMOLITION

designed / conçu	date
F.G.	MAY 2022
drawn / dessiné	scale / échelle
F.G.	AS NOTED
checked / vérifié	sheet / feuille
C.Y.C.	3 of/de 3
approved / approuvé	W.O.no. / D.T.no.
A.S.	

dwg.no. / dessin n°
 6073-E03
 ACAD file: / fichier CDAO: