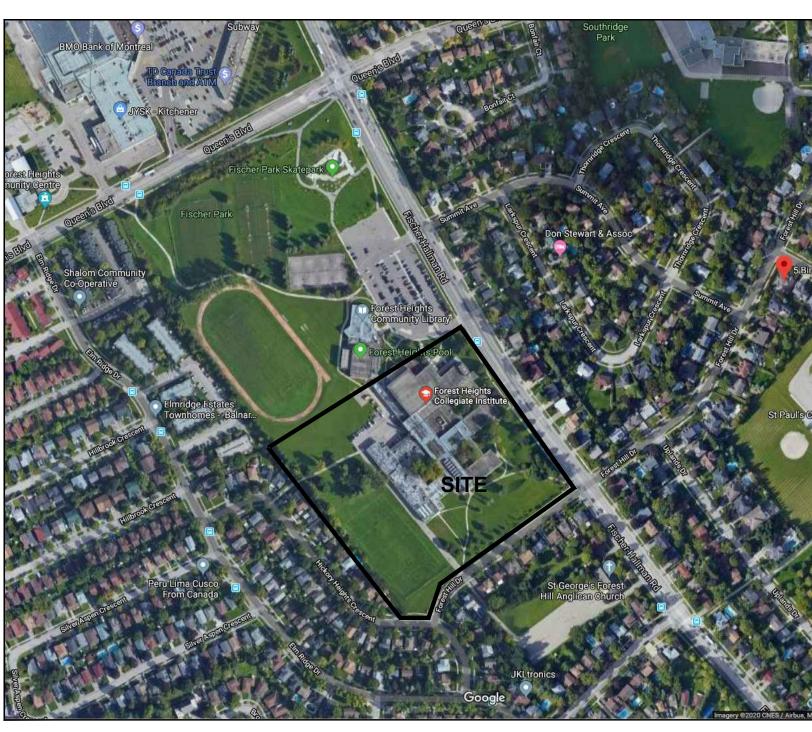


# WATERLOO REGION DISTRICT SCHOOL BOARD

## FOREST HEIGHTS COLLEGIATE INSTITUTE TECH. SHOP REVITALIZATION AND WINDOW REPLACEMENT TENDER # 25-7636-RFT 255 Fischer-Hallman Rd, Kitchener, ON N2M 4X8

## **ONTARIO BUILDING CODE DATA MATRIX**

Toronto, Onta Telephone: 4 Facsimile: 41 Email: C.King Ct: FOREST HEIG FAMILY STUE BRICK, ASPH 255 Fischer-Hallm Kitchener, ON N2N Ode Data Matrix -	S., B.Arch., ) ÅP Street, Suite 308 ario M6K 3J1 116-203-7799 x 6-203-7763 usland@Kingslar GHTS C.I. DIES RENO, PA HALT REPLACEL an Rd, 44x8 - Parts 3 & 9 New Addition Alteration Alteration Alteration Rew: Below 0 STING entire building selected floor basement [] i not required	105 ndPlus.com RTIAL WINDOW, MENT & BF WR ■ Part 11 Total: <u>15,893.00</u> Total: <u>32,942.50</u> Grade: 1 N2 Partments	exercised re with respect to The architect the archi	noted above has sponsible control o design activities. 's seal number is tect's BCDN. Ceference	Ontar 11.1 11.2 11.3	io Building Code Da         Project Description:         Alteration to Existing Building is:         Reduction in Performance Level:	Ata Matrix - Parts 11 - Rei Describe Existing Use: <u>SCH</u> Construction index: Hazard Index: Not Applicable (no chang Basic Renovation Extensive Renovation Structural:	100L - A2				
Partner, B.E.S. O.A.A., LEED 219 Dufferin S Toronto, Onta Telephone: 4 Facsimile: 41 Email: C.King Ct: FOREST HEIG FAMILY STUU BRICK, ASPH 255 Fischer-Hallm Kitchener, ON N2N Ode Data Matrix -	S., B.Arch., ) ÅP Street, Suite 308 ario M6K 3J1 116-203-7799 x 6-203-7763 usland@Kingslar GHTS C.I. DIES RENO, PA HALT REPLACEL an Rd, 44x8 - Parts 3 & 9 New Addition Alteration Alteration Alteration Rew: Below 0 STING entire building selected floor basement [] i not required	105 ndPlus.com RTIAL WINDOW, MENT & BF WR Part 11 Total: 15,893.00 Total: 32,942.50 Grade: 1 Jacobian Grade: 1	exercised re- with respect to The architect the architect OBC R ■ Part 3 1.1.2. [A] 3.1.2.1.(1) 1.4.1.2. [A] 1.4.1.2 [A] 1.4.1.2 [A] 3.2.2.10 & 3.2.5 3.2.2.49.	sponsible control o design activities. 's seal number is tect's BCDN. Ceference	11.1	Project Description: Project Description: Alteration to Existing Building is: Reduction in	Describe Existing Use:       SCH         Construction index:	100L - A2				
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hter Access: EXIS ASSEMBLY OCCUPANCY d: [ [ [ [ [ [ [ [ [ [	STING GROUP A DIVISION Gentire building Selected comp Selected floor basement [] in trequired	partments areas	3.2.2.10 & 3.2.5 3.2.2.49.				By Increase in occupant loa	■ No d: ■ No				
ASSEMBLY OCCUPANCY	, GROUP A DIVISION ☐ entire building ☐ selected comp ■ selected floor □ basement □ i □ not required	) partments areas	3.2.2.49.				By change of major occupar	ncy: 🔳 No				
] :: [ [ [ [ [ [ [	<ul> <li>□ entire building</li> <li>□ selected comp</li> <li>□ selected floor</li> <li>□ basement □ i</li> <li>□ not required</li> </ul>	) partments areas							Plumbing Sewage		Plumbing: Sewage-system:	■ N ■ N
	<ul> <li>selected comp</li> <li>selected floor</li> <li>basement  <ul> <li>not required</li> </ul> </li> </ul>	partments areas										
[	□ basement □ i □ not required		3.2.1.5.		11.4	Compensating Construction:	Structural:	No				
			3.2.2.17. INDEX									
I	🗆 Yes 🛛 🔳	No	3.2.9.1									
	Yes 🗆	No	3.2.4.1				Increase in occupant load:	■ No				
lequate:	Yes 🗆	No	3.2.5.7									
	🗆 Yes 🛛 🔳		3.2.6.1									
				Comb. Permitted  ■ Non-comb. required  □ Both Combustible   ■ Non-combustible   □ Both								
			3.2.1.1.(3)-(8)				Change of major occupancy	/: ■ No				
•	■ design of build IG_ persons	ding	3.1.17.									
∎ Yes □ No			3.8									
□ Yes ■ No			3.3.1.2 & 3.3.1.1	9.			Plumbing:	🗆 No				
	Description		3.2.2.2083 EXISTING				Plumbing fixtures replaced	n Family Studie				
<u>45</u> Min: e: <u>n/a M</u> in	s		-				Soworo Sustan	No				
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ruction of Exterior Ma			3231									
or Permitted Pro Max. % of % of	oposed FRR of (Hours)	Listed Design ) or Description	Comb. Comb.		11 <u>.</u> 5	Compliance Alternatives Proposed:	■ No □ Yes (give number(s))					
– EXISTING				- —								
					11.6	Alternative Measures Proposed:	■ No					
– EXISTING												
– EXISTING		_		- —			<u> </u>					
	tal Assemblies ours) <u>1</u> Hou 45 Min 2: n/a Min ting Members ours) <u>1</u> Hou - 45 Min 2: n/a Min 2: n/a Min 2: n/a Min 2: 00 Exterior Wa 3: 00 Openings Op - EXISTING - EXISTING	tal Assemblies ours) Listed Desi Description Hours 45Mins a:Min Listed Desi Description Hours Hours Min Min Min Min Min Min Min Min Min  Min Min Min  Min  Min   	tal Assemblies ours)       Listed Design No. or Description (SB-3)        45Mins         a:      Min         ting Members ours)       Listed Design No. or Description (SB-3)        45Mins        45Mins        45Mins        45Mins        45Mins        45Mins        45Mins         a:      Min        1000000000000000000000000000000	tal Assemblies ours)       Listed Design No. or Description (SB-3)       3.2.2.2083 EXISTING        45Mins	tal Assemblies       Listed Design No. or Description (SB-3)       3.2.2.2083        45       Mins        45       Min        45       Mins         ructor of Exterior Walls       3.2.3.1         or       Permitted Max. % of Openings       Proposed (Hours)       FRR (Hours)       Comb. or Description       Comb. Const.       Non Cladding       Const.	tal Assemblies ours)     Listed Design No. or Description (SB-3)     3.2.2.2083 EXISTING      1     Hours 45    45      1a     Min    45      1a     Min      1a     Hours      1a     Hours      1a     Hours      1a     Listed Design No. or Description (SB-3)      1a     Hours      1a     Hours      1a     Hours      1a     Hours      1a     Min      1a     Sa.2.3.1       ruction of Exterior Walls     3.2.3.1       or     Permitted Max. % of Openings     Proposed (Hours)     FRR (Hours)     Listed Design or Description     Comb. Const.     Comb. Const. Nonc. Cladding     Non-comb. Const.       -     EXISTING     -     -     -     -       -     EXISTING     -     -     -       -     EXISTING     -     -     -     -       -     EXISTING     -     -     -     -       -     EXISTING     -     -     -     -	tal Assemblies ours)     Listed Design No. or Description (SB-3)     3.2.2.2083 EXISTING      45Mins	I how is in the image of the image. The image of the				



## **KEY PLAN**

## SATELLITE VIEW

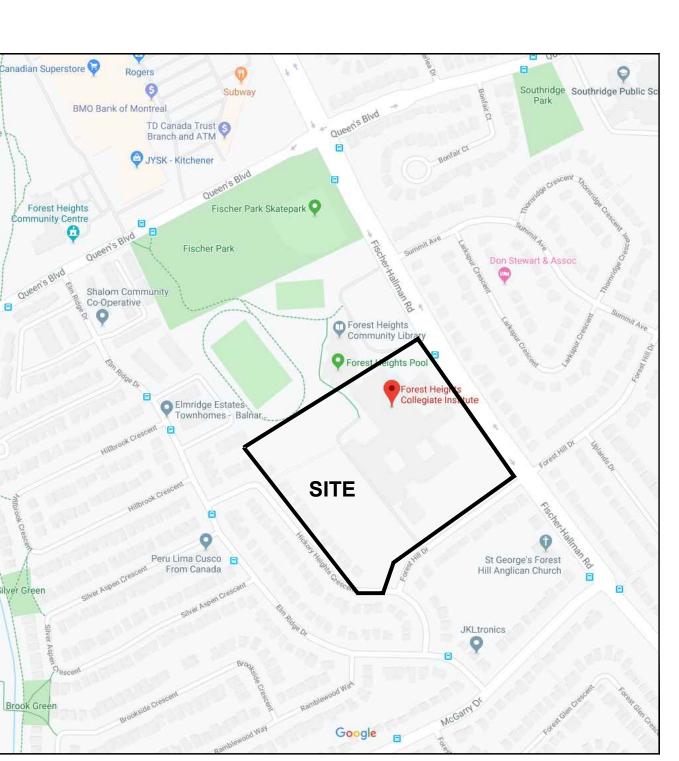
## SYMBOL LEGEND

of Existing Bui	lding	OBC Reference
2		11.2.1.1
occupancy)		
		11.3.3.1
No No No	Yes Yes Yes Yes Yes	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
■ No □	Yes (explain)	11.4.3 11.4.3.2
■ No □	Yes (explain)	11.4.3.3
■ No □	Yes (explain)	11.4.3.4
□ No ■ Studies Classroom	Yes (explain)	11.4.3.5
■ No □	Yes (explain)	11.4.3.6
		11.5.1
		11.5.2

	EXISTING WALL
	EX. WALL TO BE REMOVED
	NEW WALL
	FIRE SEPARATION
W1	WALL TYPE - SEE SPECIFICATION
100-1	DOOR NUMBER EXISTING DOOR
100.3-1	DOOR NUMBER NEW DOOR
1 A3-2	—BUILDING SECTION NUMBER —SHEET NUMBER
2 (A3-4)	-WALL SECTION NUMBER -SHEET NUMBER
2 A3-4	-DETAIL NUMBER -SHEET NUMBER
(1-105)	-DETAIL DRAWING NUMBER SEE SPECIFICATION
W1	WINDOW TYPE
<b>S1</b>	SCREEN TYPE
NAME 000	ROOM NAME ROOM NUMBER
	– CEILING MATERIAL – CEILING HEIGHT
	SCHEDULE AND ROOM FINISH SEE SPECIFICATION.

### LIST OF DRAWINGS

ARCHIT	ECTURAL
A0-0 A2-0 A2-1	COVER & OBC MATRIX OVERALL FIRST AND SECOND FLOOR PLAN OVERALL ROOF FLOOR PLAN PARTIAL SECOND FLOOR AND ROOF PLANS
A2-2	PARTIAL FIRST FLOOR PLAN TECH WING DEMOLITION & PROPOSED
A2-3	TECH WING CLASSROOM INTERIOR ELEVATIONS
A2-4	TECH WING CLASSROOM INTERIOR ELEVATIONS
A2-5	TECH WING CLASSROOM INTERIOR ELEVATIONS ENLARGEMENT PLAN AT NEW DOORS OPENING
A2-6	STAFF ROOM - DEMO & NEW AND INTERIOR ELEVA BARRIER FREE - ADO
A2-7	PARTIAL FIRST FLOOR PLAN TECH WING WINDOW REPLACEMENT
A6-1	PARTIAL DEMO AND NEW CEILING PLANS
STRUCT	URAL
S1.0 S2.0	ROOF FRAMING PLAN, DETAILS, GENERAL NOTES STEEL STUD DETAILS
MECHAN	NICAL
M000 M100 M200 M300 M301 M400 M401 M402 M500	MECHANICAL TITLE SHEET PARTIAL FLOOR PLAN - SANITARY DEMOLITION & PARTIAL FLOOR PLAN - DEMOLITION & NEW DOME PARTIAL PLAN - HEATING DEMOLITION PARTIAL FLOOR PLAN - NEW HEATING PARTIAL FLOOR & ROOF PLANS - HVAC DEMOLITIC PARTIAL FLOOR & ROOF PLANS - NEW HVAC SECTIONS & DETAILS - NEW HVAC MECHANICAL SCHEDULES & DETAILS
ELECTR	ICAL
E000 E100 E200 E201 E202 E300 E301	ELECTRICAL TITLE SHEET PARTIAL FLOOR PLAN - DEMOLITION & NEW LIGHT PARTIAL FLOOR PLAN - DEMOLITION & NEW POWE PARTIAL FLOOR PLAN - DEMOLITION & NEW POWE ELECTRICAL RISER DIAGRAM ELECTRICAL SCHEDULES AND DETAILS







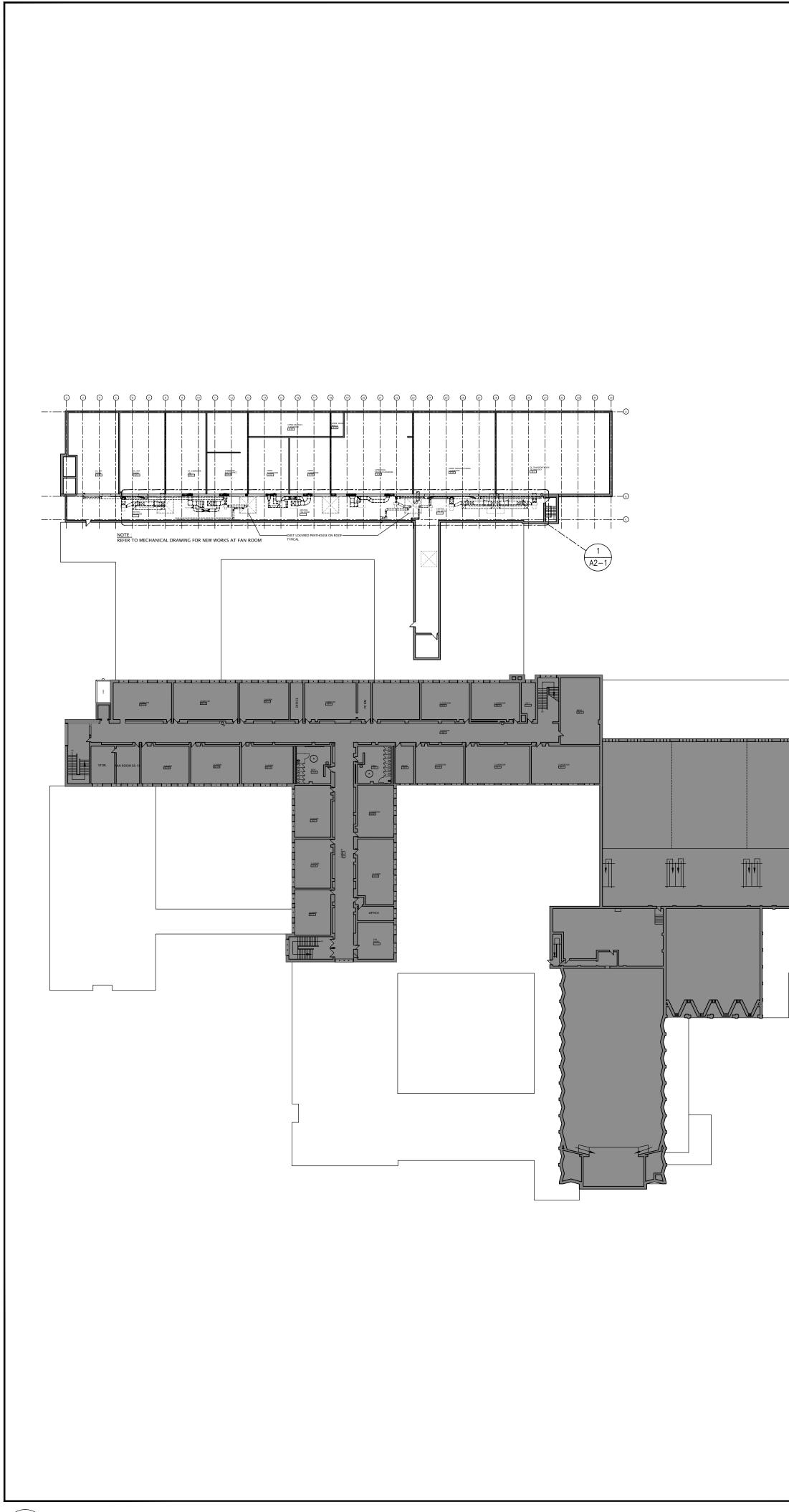
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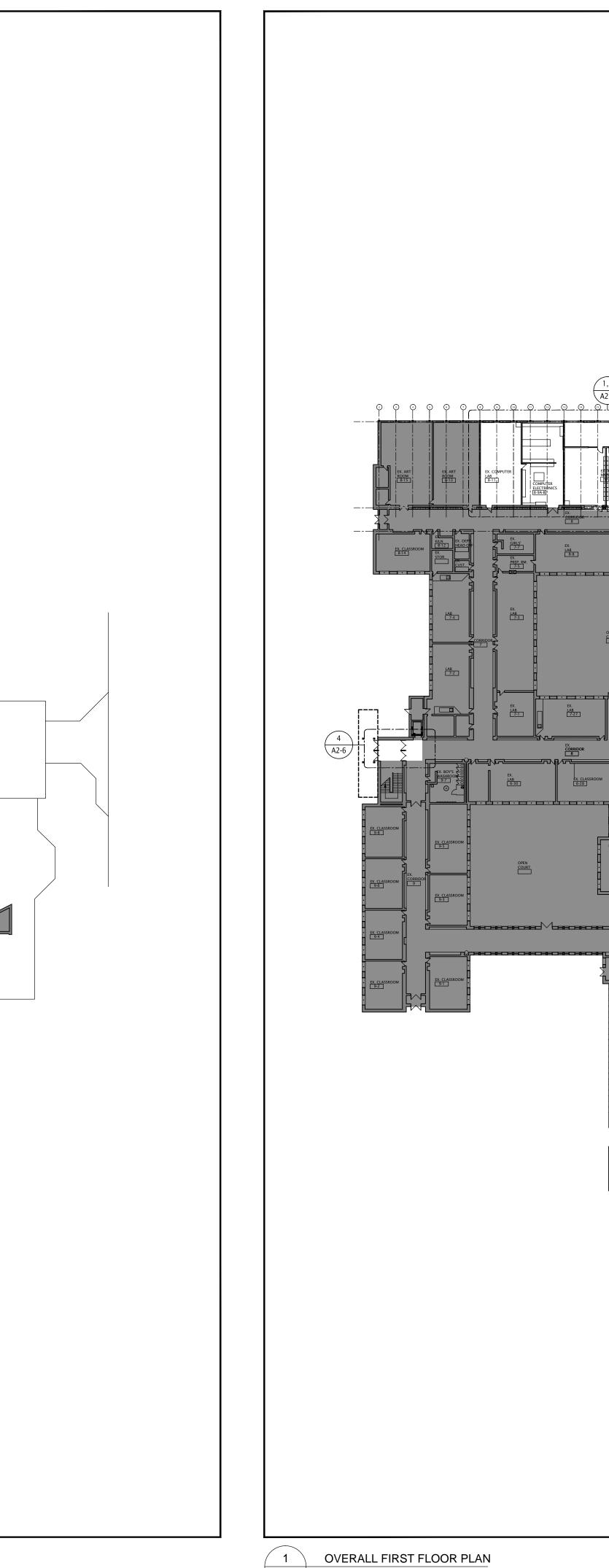
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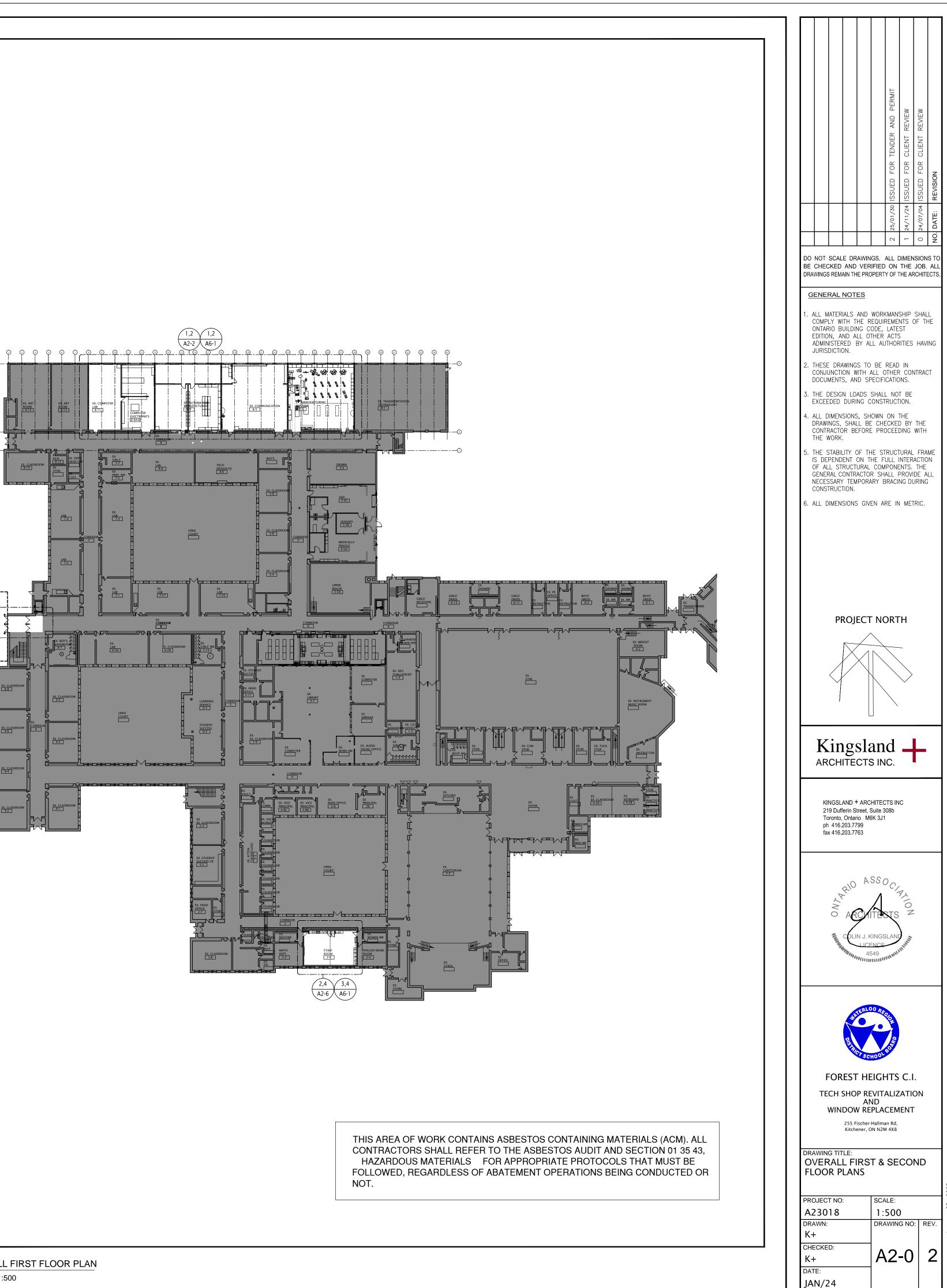
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GENERAL NOTES					
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DRAWINGS, SHALL BE CONTRACTOR BEFORE THE WORK.	E CHE	ECKEI	D BY		
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NECESSARY TEMPORA CONSTRUCTION.	ARY E	BRACI	NG DI	JRING	
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ARCHITECTS	S IN	C.			
KINGSLAND + ARC 219 Dufferin Street, 5	Suite 3	08b	IC		
Toronto, Ontario M6 ph 416.203.7799 fax 416.203.7763	6K 3J1				
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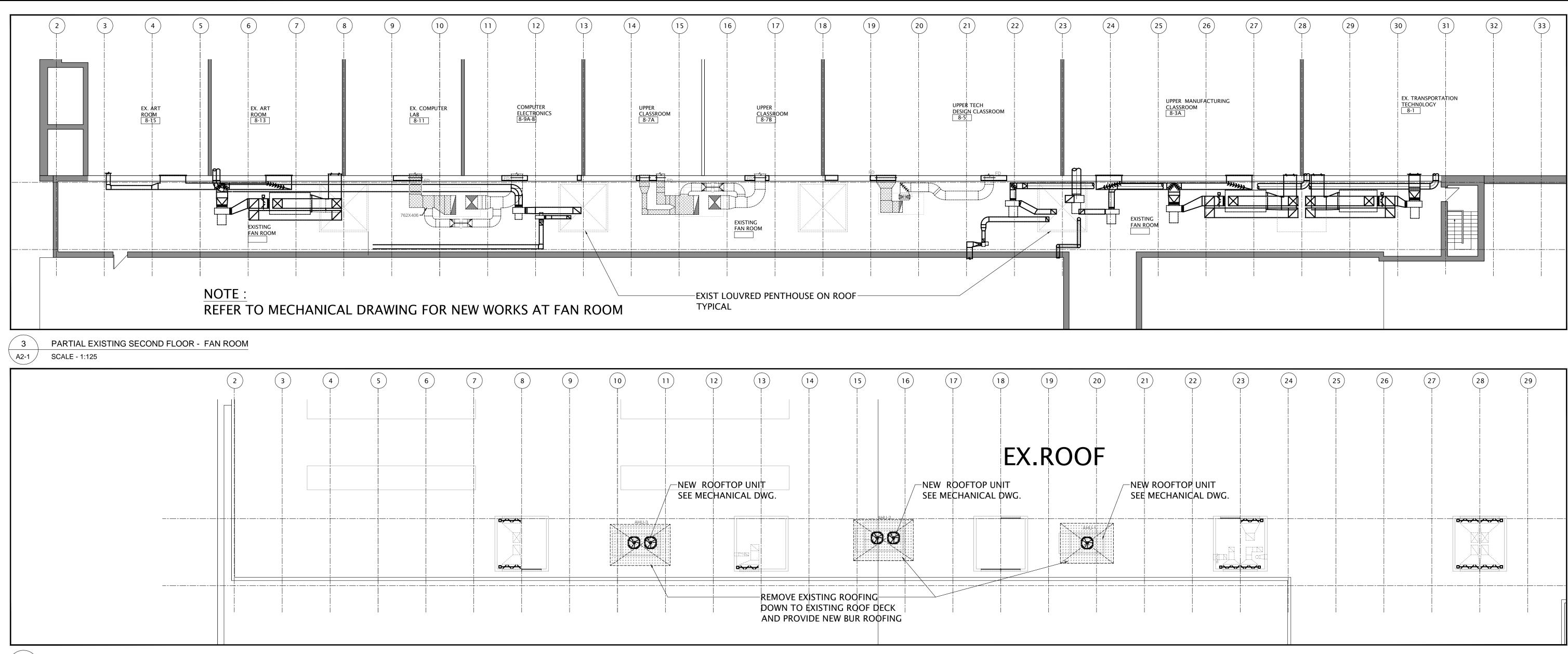


A2-0

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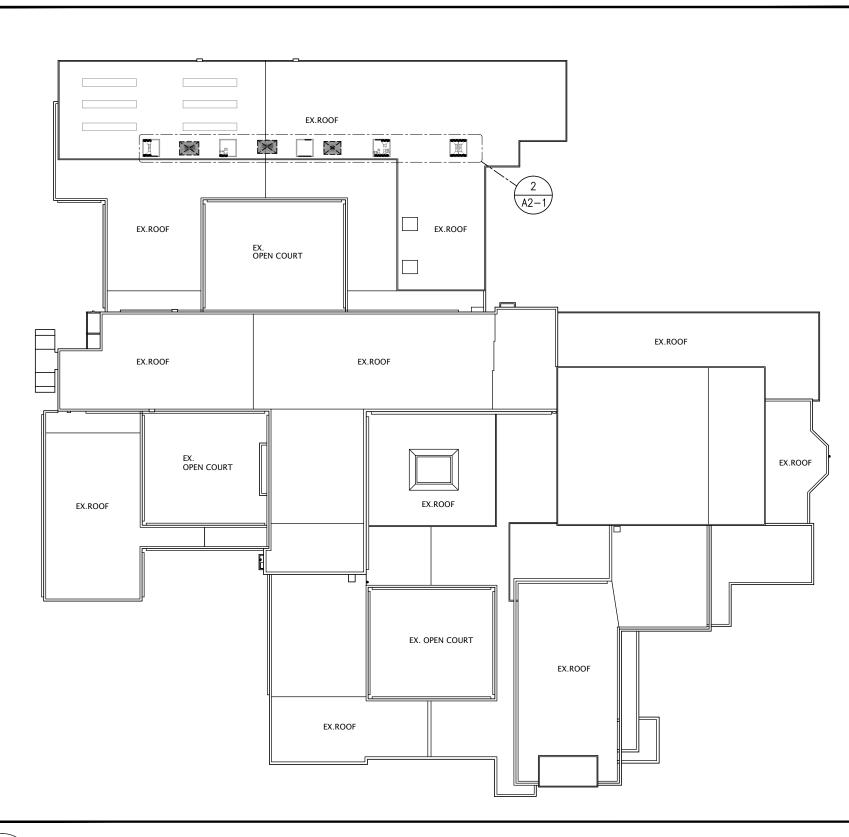


O A23018 – A2–0 OVERALL PLAN.DWG





PARTIAL EXISTING ROOF PLAN

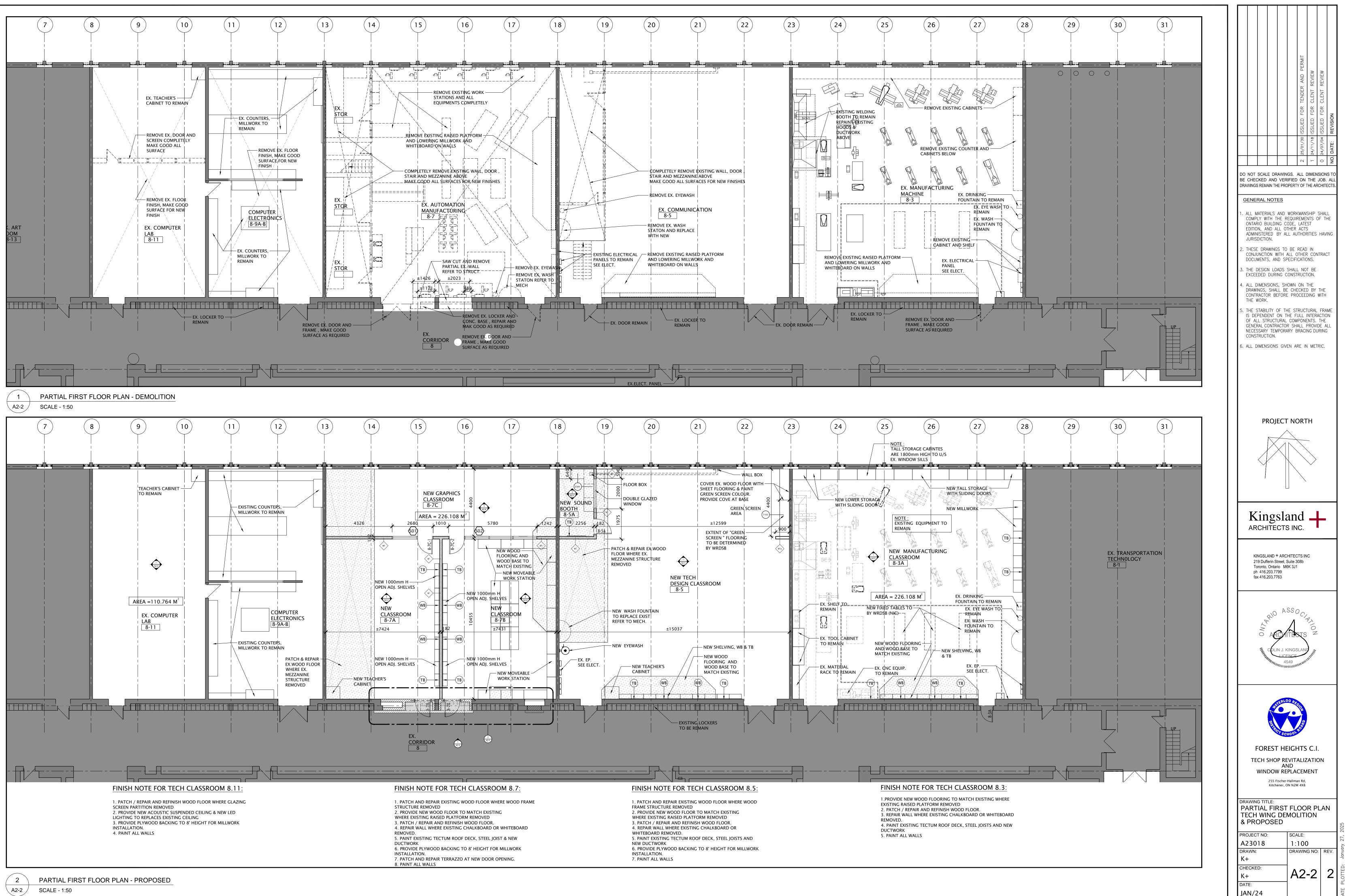


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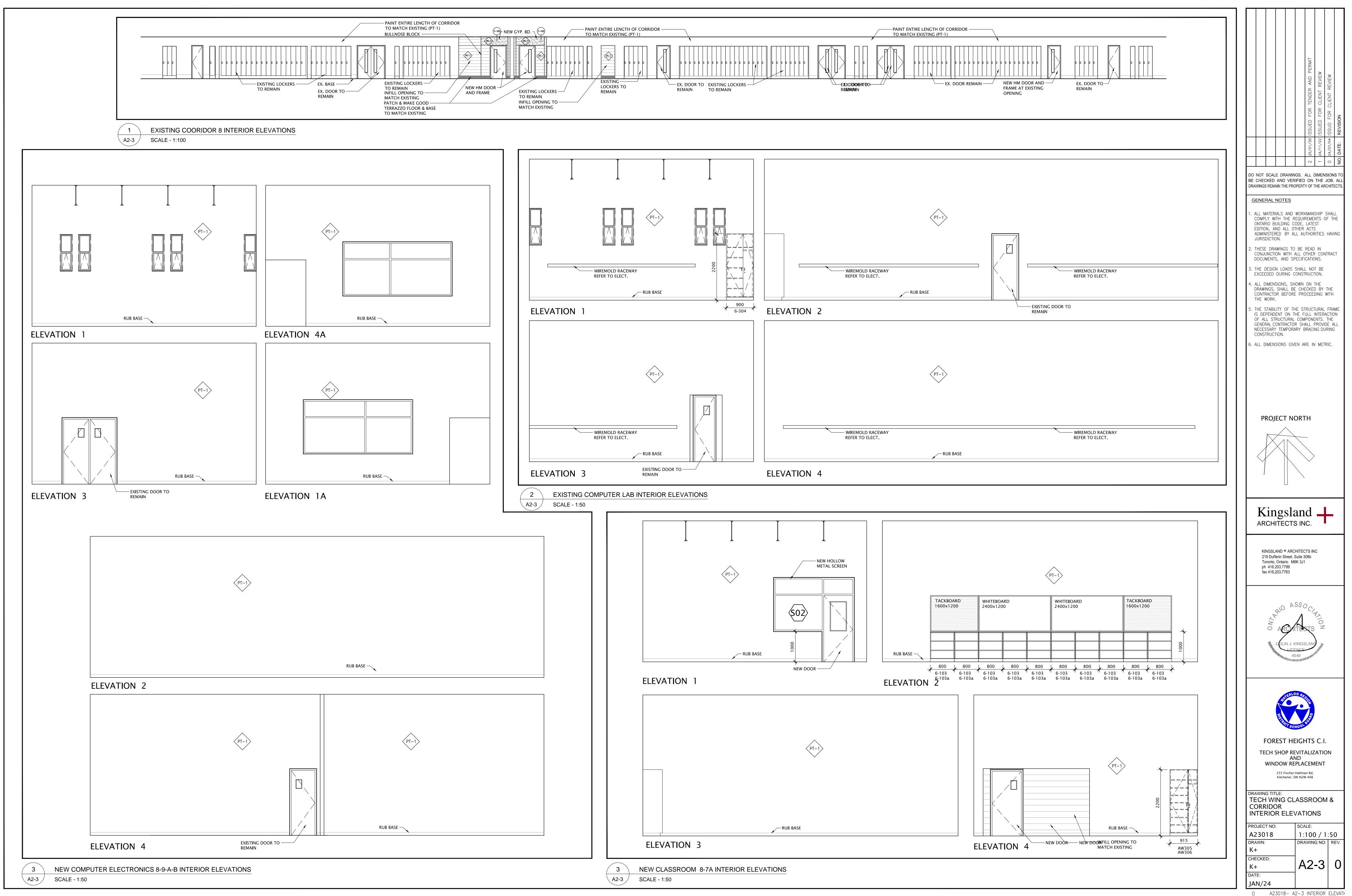
OVERALL ROOF PLAN

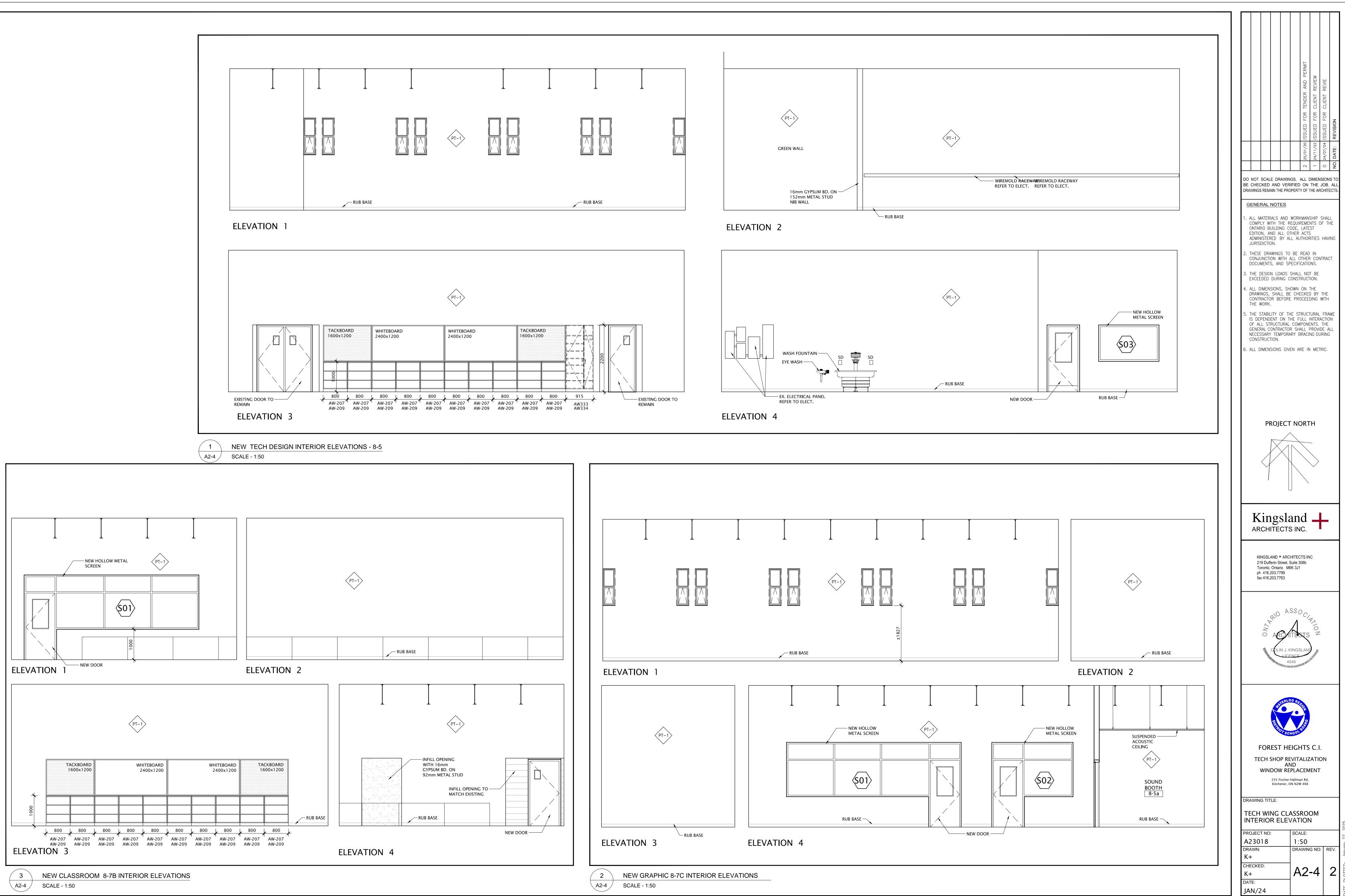
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<ul> <li>DO NOT SCALE DRAWINGS. ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.</li> <li>GENERAL NOTES</li> <li>1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.</li> <li>2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.</li> <li>3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.</li> <li>4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.</li> <li>5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.</li> <li>6. ALL DIMENSIONS GIVEN ARE IN METRIC.</li> </ul>	
PROJECT NORTH         Image: Constraint of the second state of the se	
ph 416.203.7799 fax 416.203.7763	
FOREST HEIGHTS C.I. FOREST HEIGHTS C.I. TECH SHOP REVITALIZATION AND WINDOW REPLACEMENT 255 Fischer-Hallman Rd, Kitchener, ON N2M 4X8 DRAWING TITLE: OVERALL EXISTING ROOF PLN PROJECT NO: A23018 PROJECT NO: K+ CHECKED: K+ A22-1 2	BLOTTED: January 27, 2025

DAT 0 A23018- A2-1 OVERALL ROOF & PA

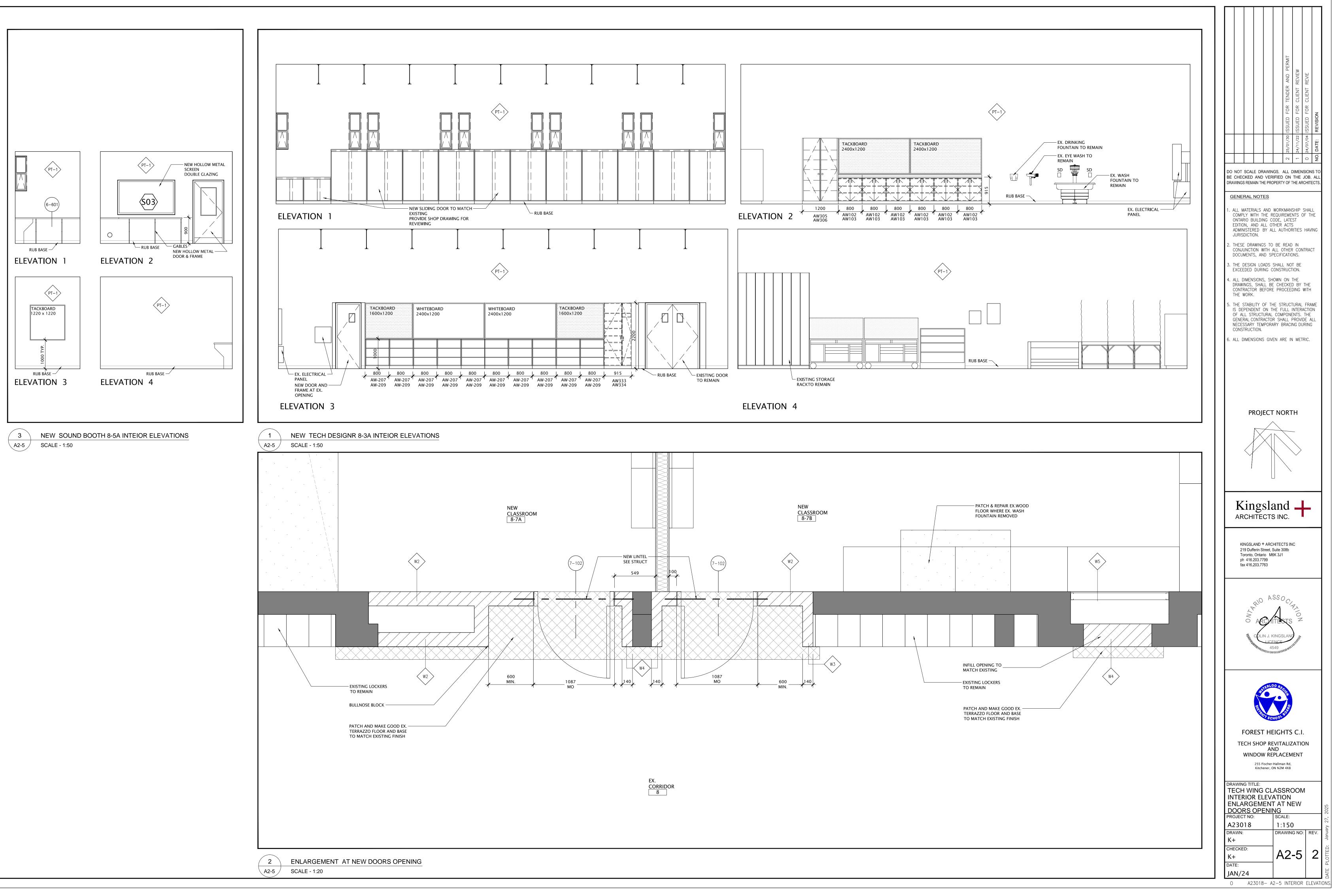


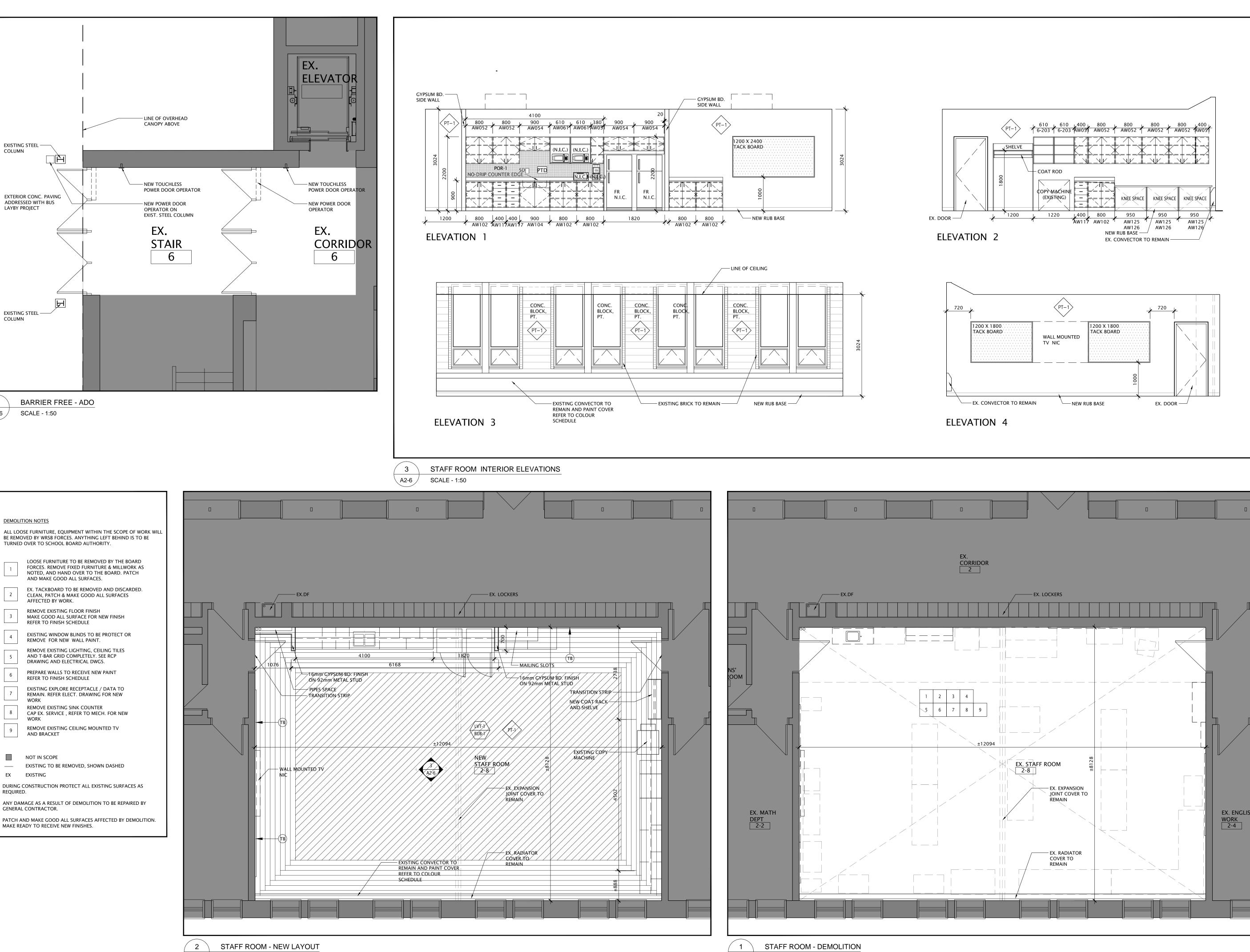
O A23018- A2-2 PARTIAL DEMO & NEV





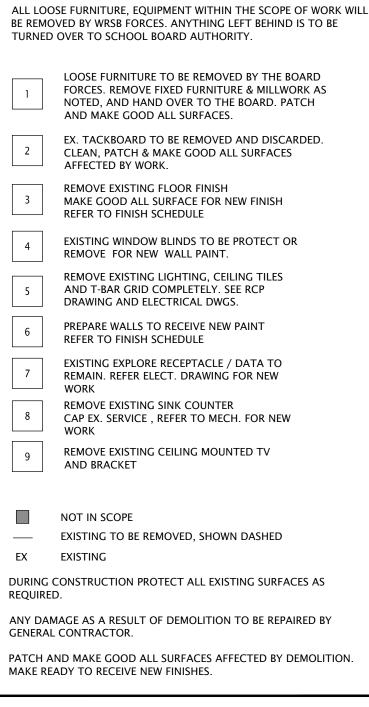
O A23018- A2-4 INTERIOR ELEVATIONS.





∖ A2-6 /

SCALE - 1:50



A2-6

SCALE - 1:50

COLUMN

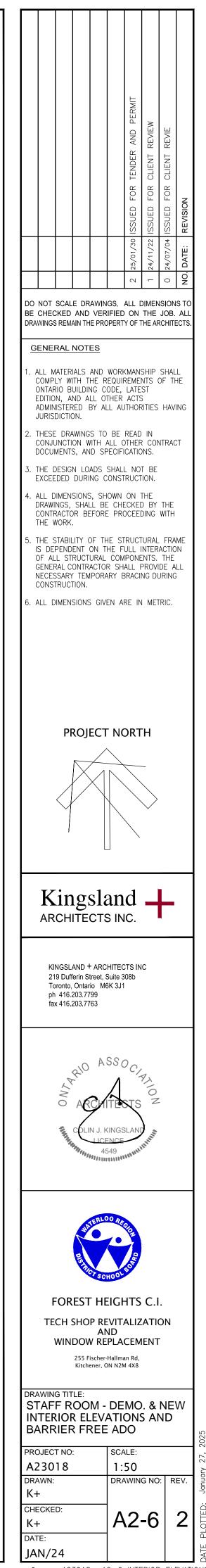
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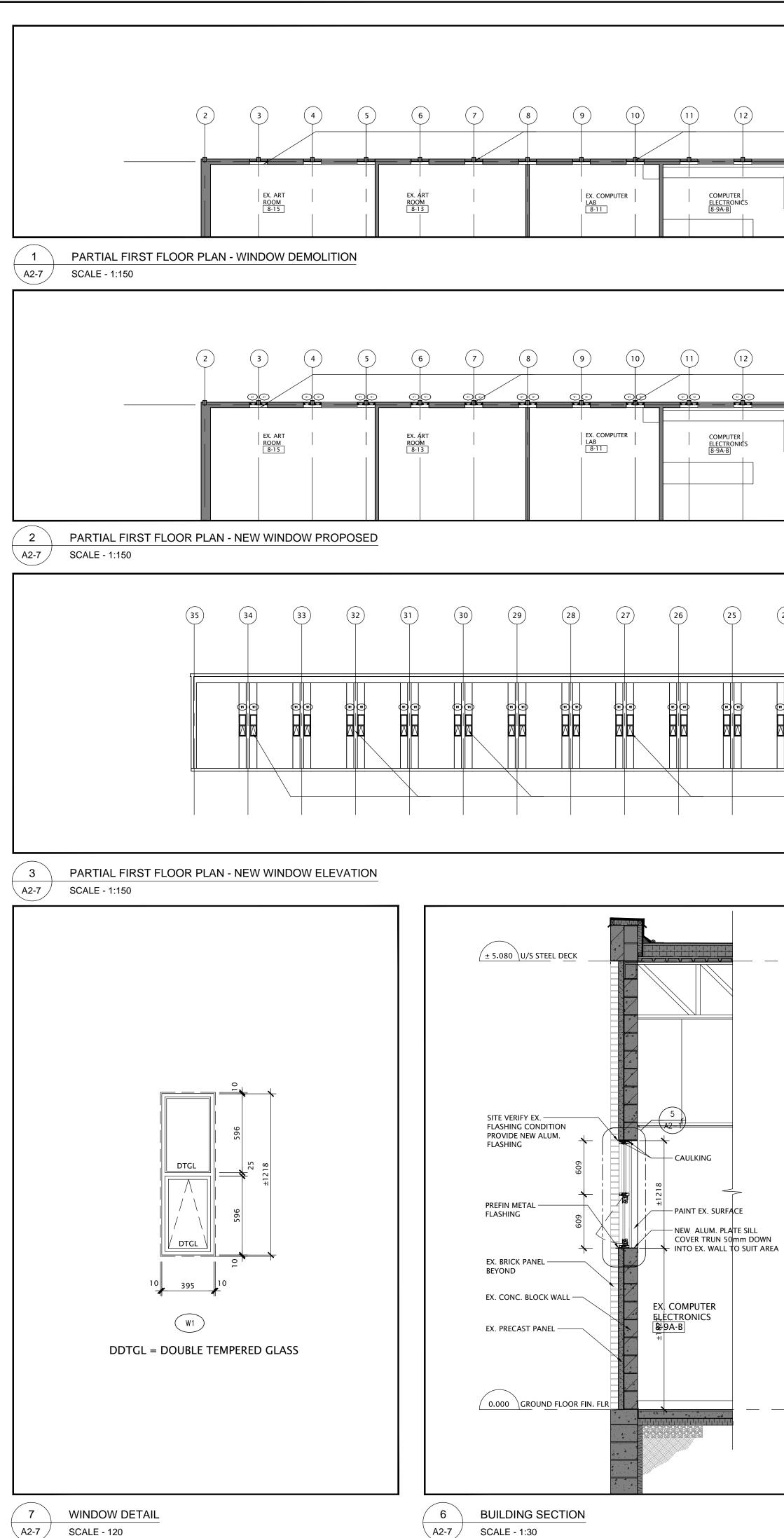
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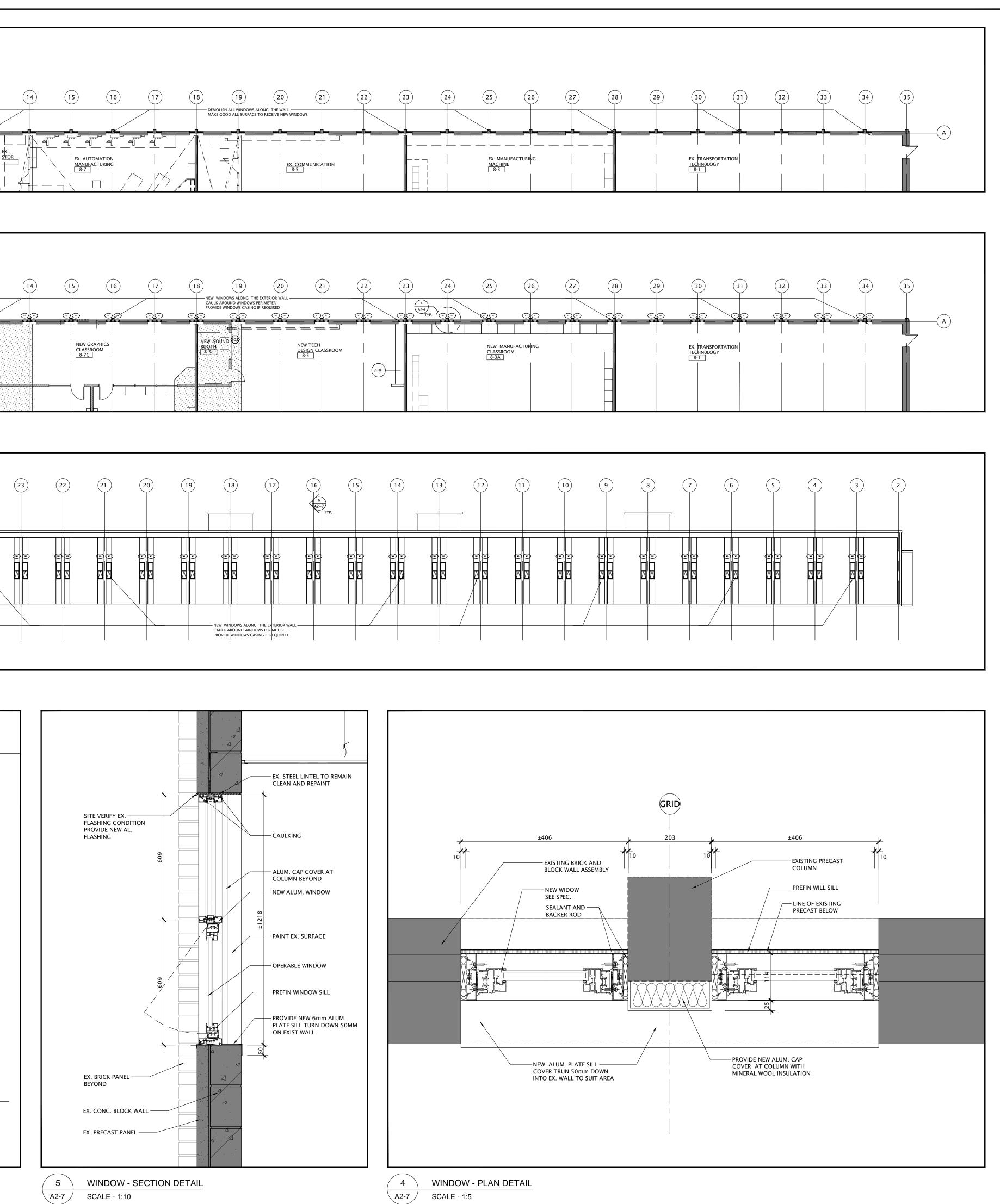
COLUMN



0 A23018- A2-6 INTERIOR ELEVATIONS.



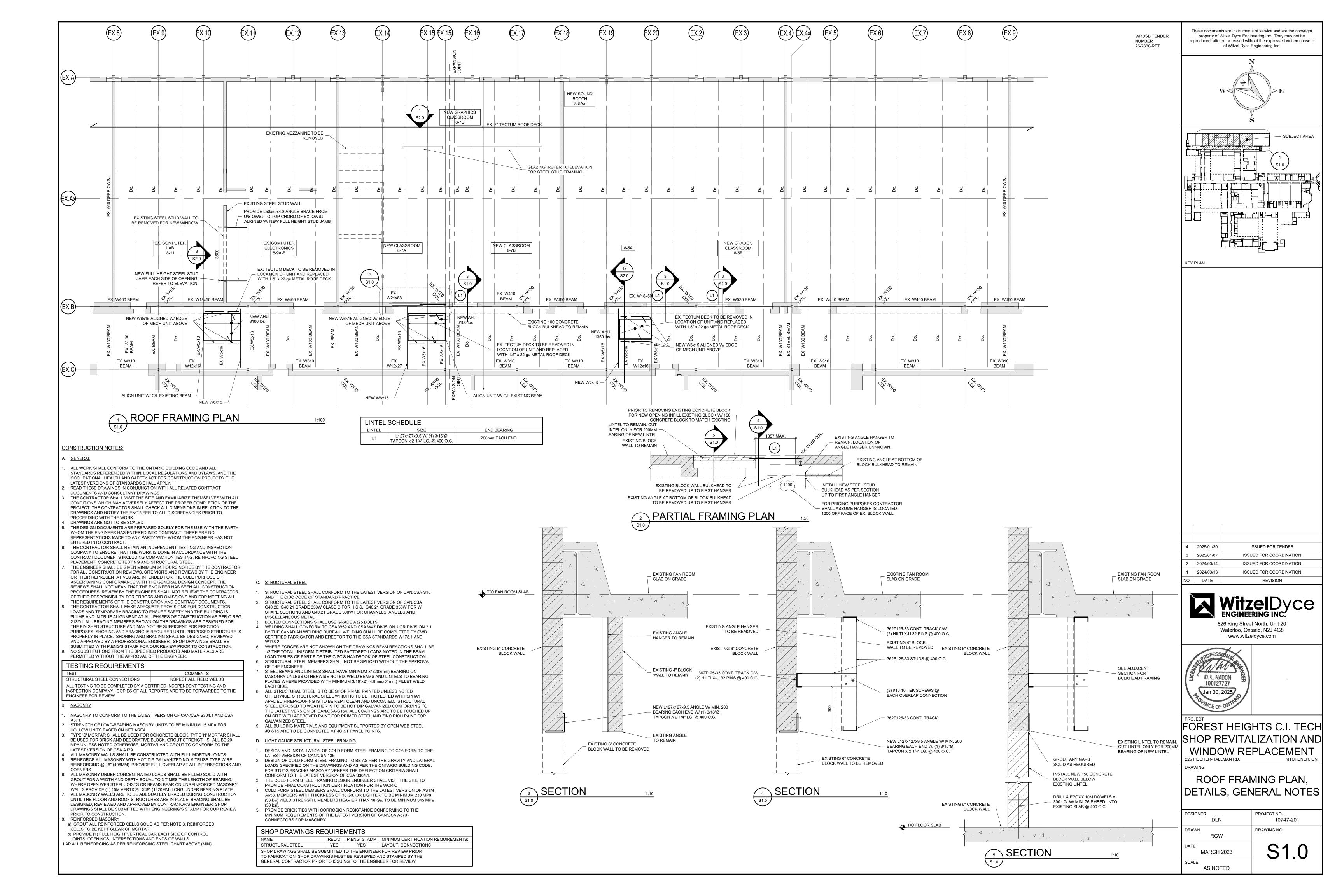
13 14 EX. STOR	15 16	18 DEMOLISH ALL WINDOW MAKE GOOD ALL SURF/			2 23	25 26 EX. MANUFACTURING MACHINE 8-3	
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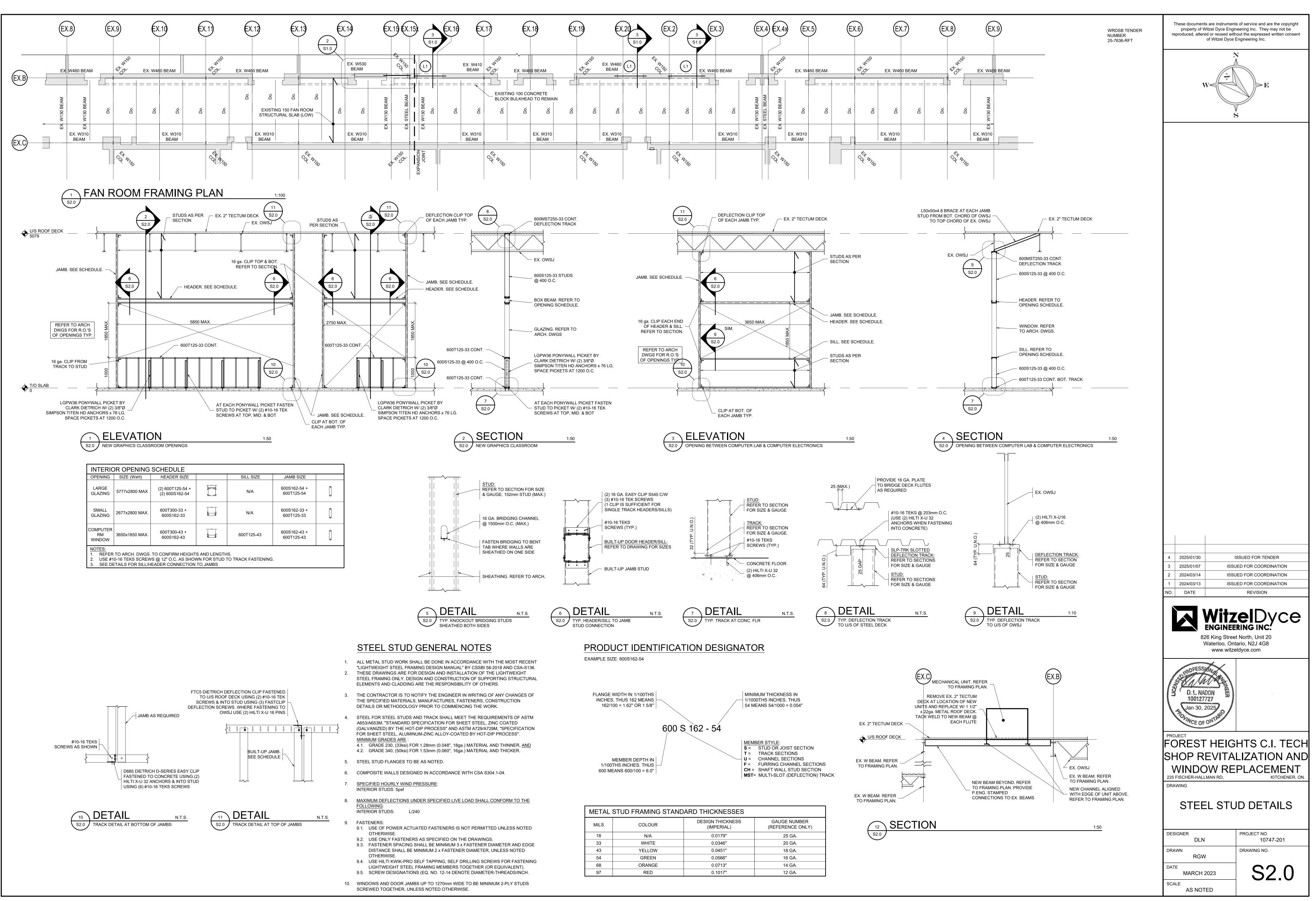


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0 A23018- A2-7 WINDOW REPLACEMEN







# FOREST HEIGHTS COLLEGIATE INSTITUTE (TENDER #25-7636-RFT) **TECH SHOP REVITALIZATION &** PARTIAL WINDOW REPLACEMENT KITCHENER, ONTARIO

## WRDSB PROJECT NO. A23018 EXP PROJECT NO. LON-24003082-A0

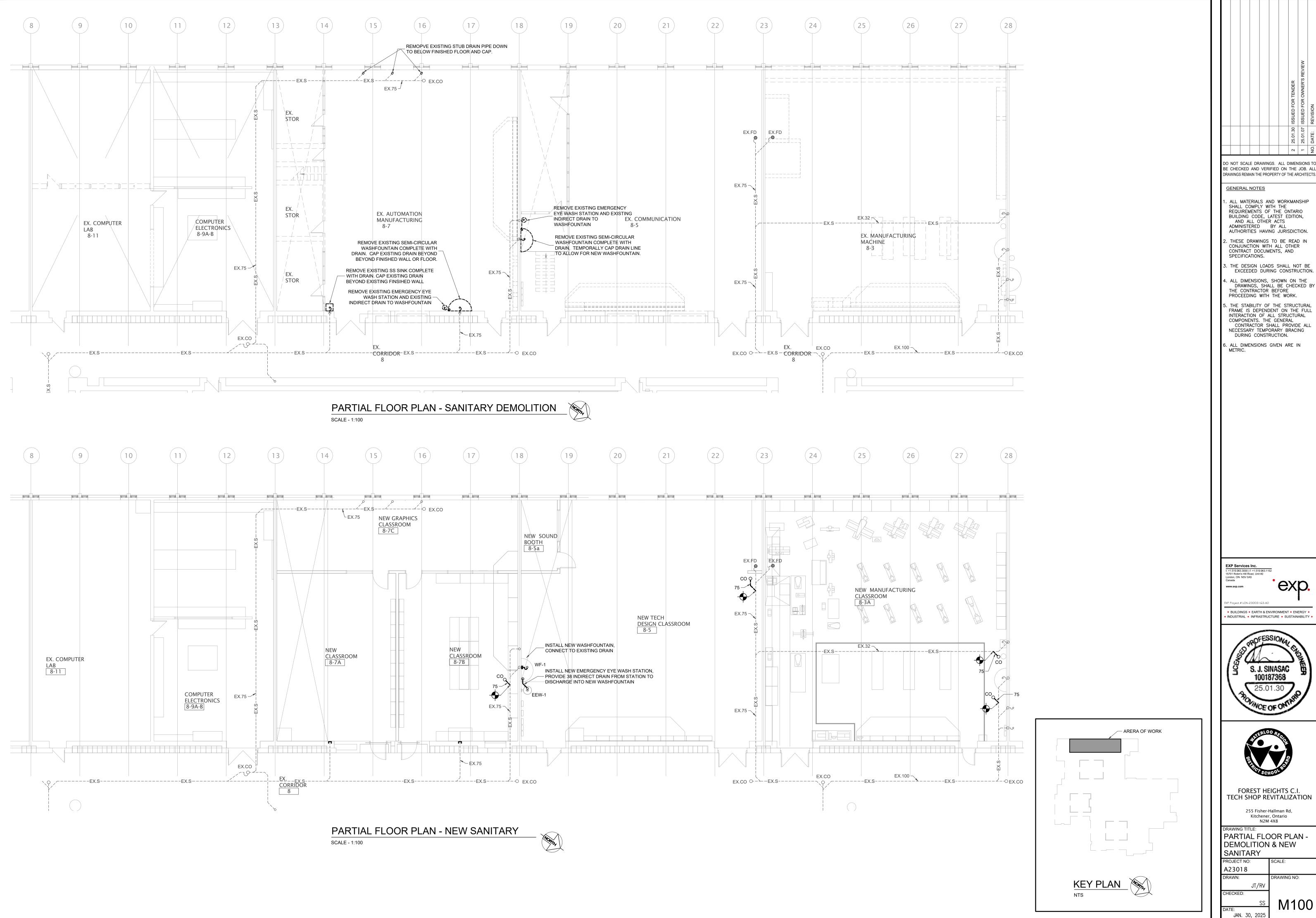
**MECHANICAL DRAWING LIST:** 

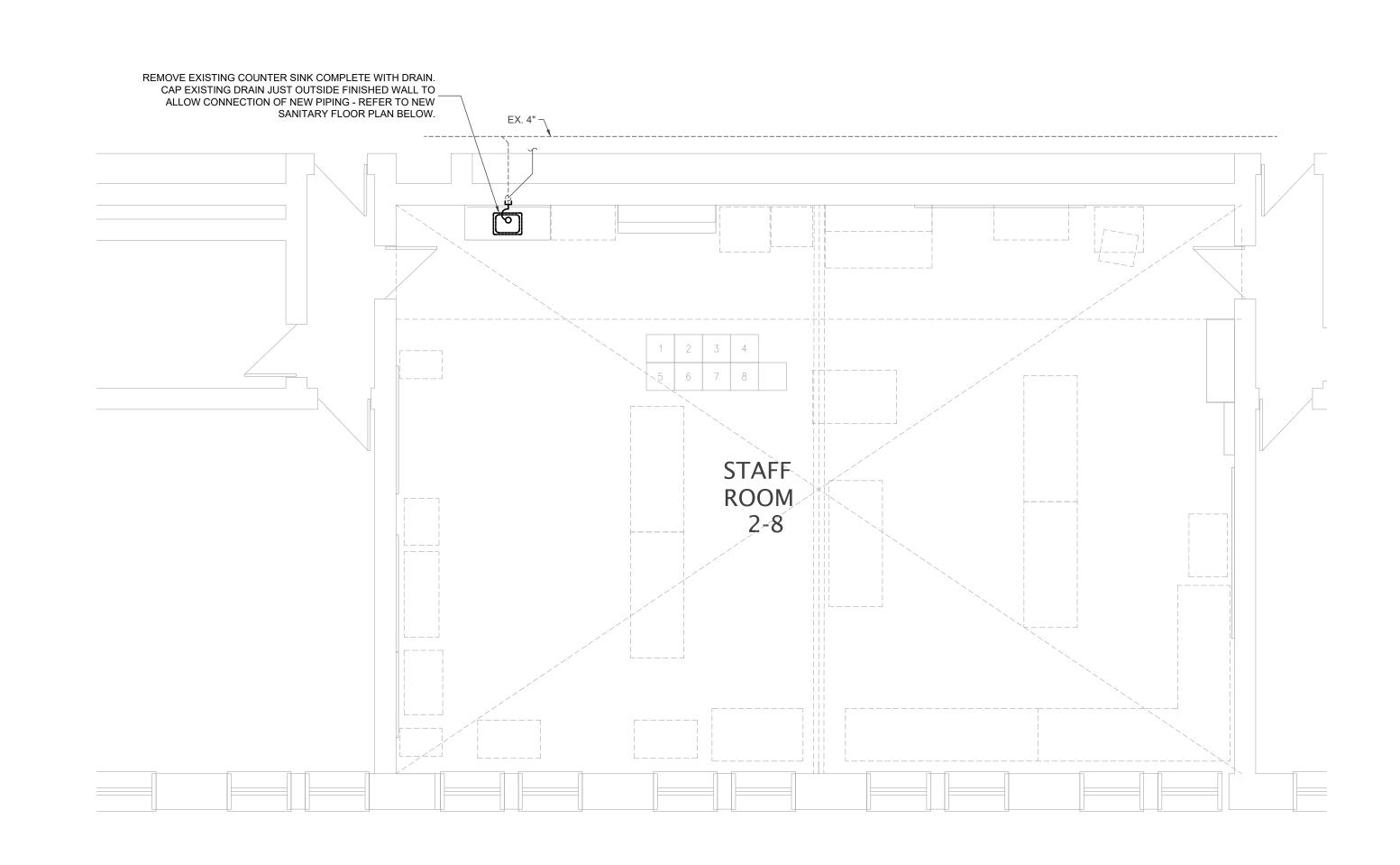
M000	MECHANICAL TITLE SHEET
M100	PARTIAL FLOOR PLAN - DEMOLITION & NEW SANITARY
M101	PARTIAL FLOOR PLAN - DEMOLITION & NEW SANITARY
M200	PARTIAL FLOOR PLAN - DEMOLITION & NEW DOMESTIC
M201	PARTIAL FLOOR PLAN - DEMOLITION & NEW DOMESTIC
M300	PARTIAL FLOOR PLAN - HEATING DEMOLITION
M301	PARTIAL FLOOR PLAN - NEW HEATING
M400	PARTIAL FLOOR & ROOF PLAN - HVAC DEMOLITION
M401	PARTIAL FLOOR & ROOF PLAN - NEW HVAC
M402	SECTIONS AND DETAILS - NEW HVAC
M500	MECHANICAL SCHEDULES & DETAILS

	n			
SYMBOL	DESCRIPTION		ICAL LEGEND	MOUNTING HEIGHT
PIPING		VALVES		
EX.S	EXISTING SANITARY PIPING			
S EX.ST	SANITARY PIPING EXISTING STORM PIPING			
ST	STORM PIPING			
	EXISTING COLD WATER PIPING		REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	MIN. 12" (300mm) AFF per CSA B64.10
	COLD WATER PIPING	φ	BALL VALVE	
	EXISTING DOMESTIC HOT WATER PIPING		GATE VALVE	
	DOMESTIC HOT WATER PIPING	&	THERMOSTATIC MIXING VALVE	
	EXISTING DOMESTIC HOT WATER RECIRCULATING PIPING		GLOBE VALVE	
	DOMESTIC HOT WATER RECIRCULATING PIPING	\$	ELECTRICALLY SUPERVISED O,S & Y VALVE	
	EXISTING TEMPERED WATER PIPING	<u> </u>	TWO-WAY CONTROL VALVE	
	TEMPERED WATER PIPING		RADIATION CONTROL VALVE	
V	EXISTING VENT PIPING		MIXING VALVE	
v	VENT PIPING	BFP	BACKFLOW VALVE	
—EX.SP—	EXISTING SPRINKLER PIPING		PRESSURE REDUCING VALVE	
	SPRINKLER PIPING			
— EX.F ——	EXISTING FIRE PROTECTION PIPING			
— F ——	FIRE PROTECTION PIPING		TEMPERATURE & PRESSURE RELIEF VALVE	
— EX.G —	EXISTING GAS PIPING	<u></u> ААУ Т		
— G ——	GAS PIPING		GAS COCK (SHUT OFF VALVE)	
—EX.STM —	EXISTING STEAM PIPING		GAS METER	
— STM ——	STEAM PIPING	FS		
	EXISTING CONDENSATE PIPING			
C	CONDENSATE PIPING	®		
— EX.D——	EXISTING DRAIN PIPING		STRAINER	
— D ——	DRAIN PIPING		UNION	
— EX.HS —	EXISTING HEATING SUPPLY PIPING	Џт фт Фрд		
— HS ——	HEATING SUPPLY PIPING	ΎPG ΎP&T	PRESSURE GAUGE PRESSURE AND TEMPERATURE GAUGE	
- EX.HR	EXISTING HEATING RETURN PIPING	P&I ──₩ FPWH	FROST PROOF WALL HYDRANT	
- — HR — — —	HEATING RETURN PIPING	— <del>— </del>	HOSE BIBB	
-EX.HPS	EXISTING HEAT PUMP SUPPLY PIPING	CLEAN OUTS AN		1
— HPS ——	HEAT PUMP SUPPLY PIPING		1	
-EX.HPR	EXISTING HEAT PUMP RETURN PIPING			
— HPR — —	HEAT PUMP RETURN PIPING			
EX.GLY.HS-	EXISTING GLYCOL HEATING SUPPLY PIPING		CLEAN OUT (CEILING MOUNTED) FLOOR DRAIN	
-GLY.HS-	GLYCOL HEATING SUPPLY PIPING		HUB DRAIN	
EX.GLY.HR	EXISTING GLYCOL HEATING RETURN PIPING		FUNNEL FLOOR DRAIN	
-GLY.HR	GLYCOL HEATING RETURN PIPING		FLOOR DRAIN	
—EX.LIQ—	EXISTING LIQUID REFRIGERATION LINE		HUB DRAIN	
			FUNNEL FLOOR DRAIN	
- EX.SUC	EXISTING SUCTION REFRIGERATION LINE		ROOF DRAIN	
— SUC —	SUCTION REFRIGERATION LINE	SPRINKLER		
- EX.CHWS-	EXISTING CHILLED WATER SUPPLY		UPRIGHT SPRINKLER	
– CHWS –––	CHILLED WATER SUPPLY		PENDENT SPRINKLER	
-EX.CHWR	CHILLED WATER RETURN		SEMI RECESSED SPRINKLER	
-			SIDEWALL SPRINKLER	
			EXTENDED COVERAGE SIDEWALL SPRINKLER	
-			CONCEALED SPRINKLER	
- ACE1	ACETYLENE PIPING	HVAC	1	1
			FIRE DAMPER	
			COMBINATION SMOKE / FIRE DAMPER	
EGEND NOTES	<u>3:</u>	$\neq$ $\neq$ $\neq$ $\neq$ MD	MOTORIZED DAMPER	
	STANDARD LEGEND. ALL SYMBOLS MAY NOT		BALANCING DAMPER	
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	D MOUNTING HEIGHTS SHOWN ON LEGEND SHALL BE		SPLITTER DAMPER	
,	LESS NOTED OTHERWISE. ALL TRADES TO COORDINATE	T T	THERMOSTAT	48" (1200mm) AFF per 3.8.1.5, O.B.C
THESE HE	EIGHTS PRIOR TO INSTALLATION.	H	HUMIDISTAT	48" (1200mm) AFF per 3.8.1.5, O.B.C
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		Ē	FAN SPEED CONTROLLER	48" (1200mm) AFF per 3.8.1.5, O.B.C
			NEW CONNECTION TO EXIST. PIPES/HVAC	
		FIRE PROTECTIO		1
			FIRE HOSE CABINET	
		FEX C	FIRE EXTINGUISHER CABINET	
		F EX	FIRE EXTINGUISHER 40 GF	lbs (18 kg) OR LESS, NOT MORE THAN (1500mm) AFF AS PER 6.2.4, O.F.C. EATER TO 40 lbs (18 kg) NOT MORE AN 44" (1100mm) AFF AS PER 6.2.4,
		~~^^*	FIRE DEPARTMENT PUMPER CONNECTION	C. T LESS THAN 12" (300mm) AND NOT DRE THAN 36" (900mm) ABOVE GROUND VEL PER 3.2.5.16, O.B.C.

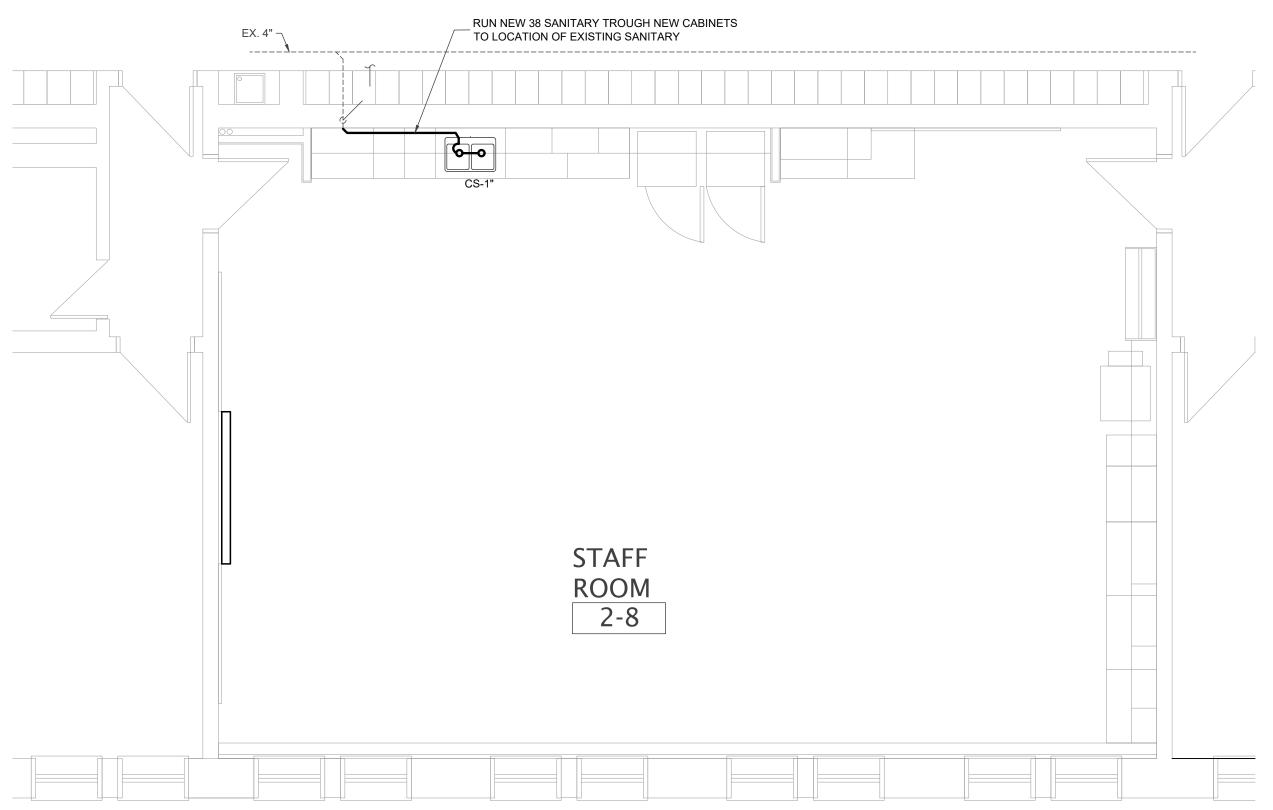
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EXP Services Inc.	
EXP Services Inc. t: +1.519.963.3000   f: +1.519.963.115 15701 Robin's Hill Road, Unit #2 London, ON N5V 0A5 Canada	
www.exp.com EXP Project # LON-23003   63-A0	exp.
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SCALE - 1:50



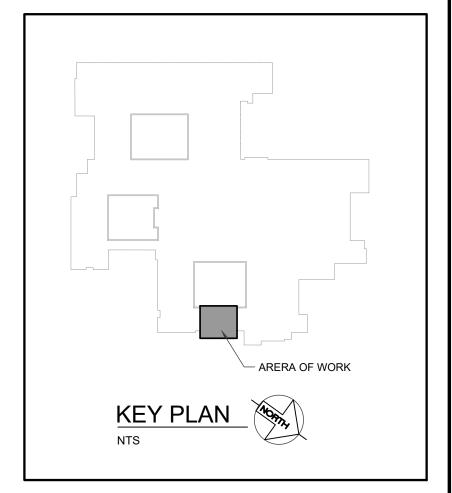
PARTIAL FLOOR PLAN - NEW SANITARY SCALE - 1:50

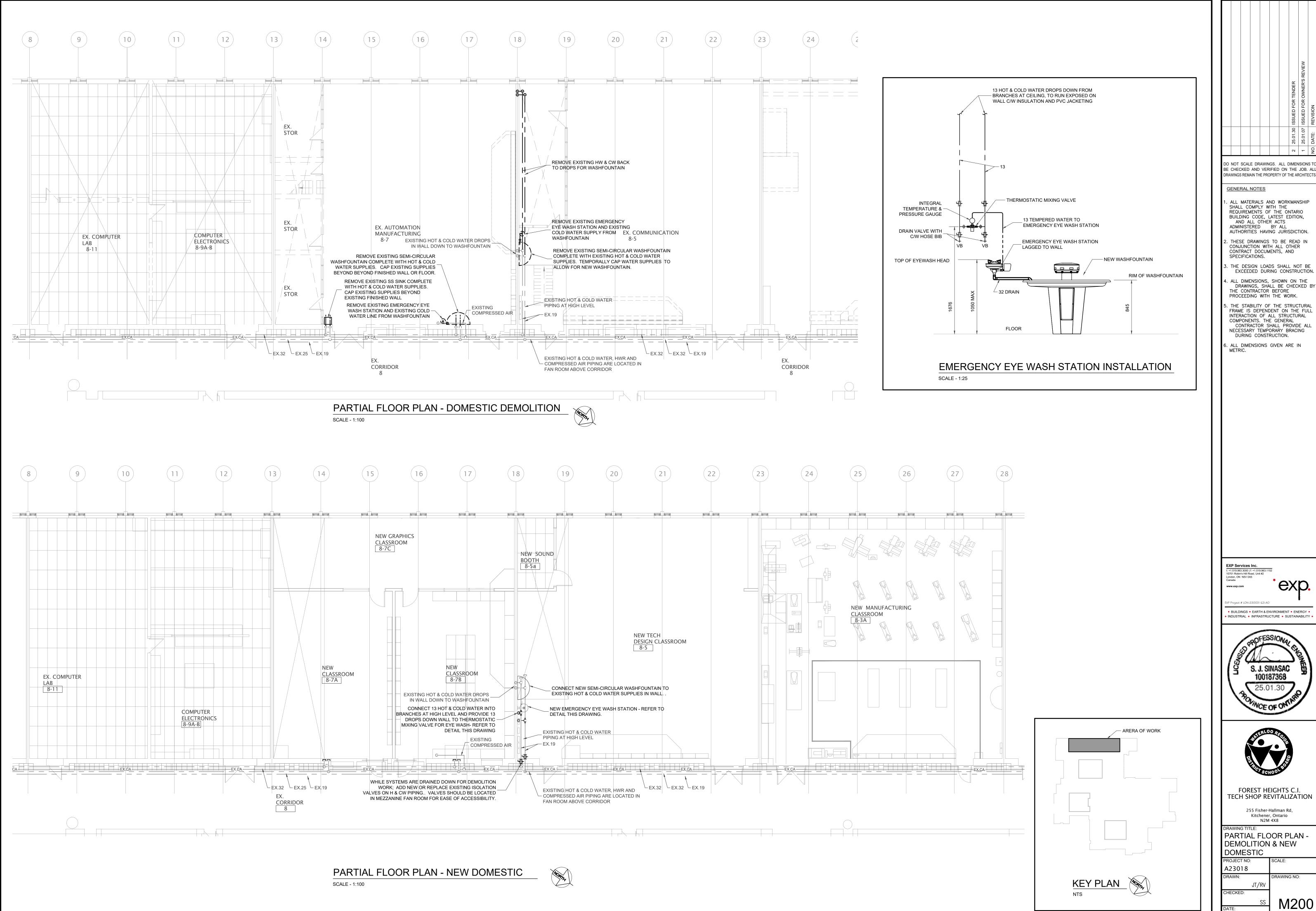
## PARTIAL FLOOR PLAN - SANITARY DEMOLITION



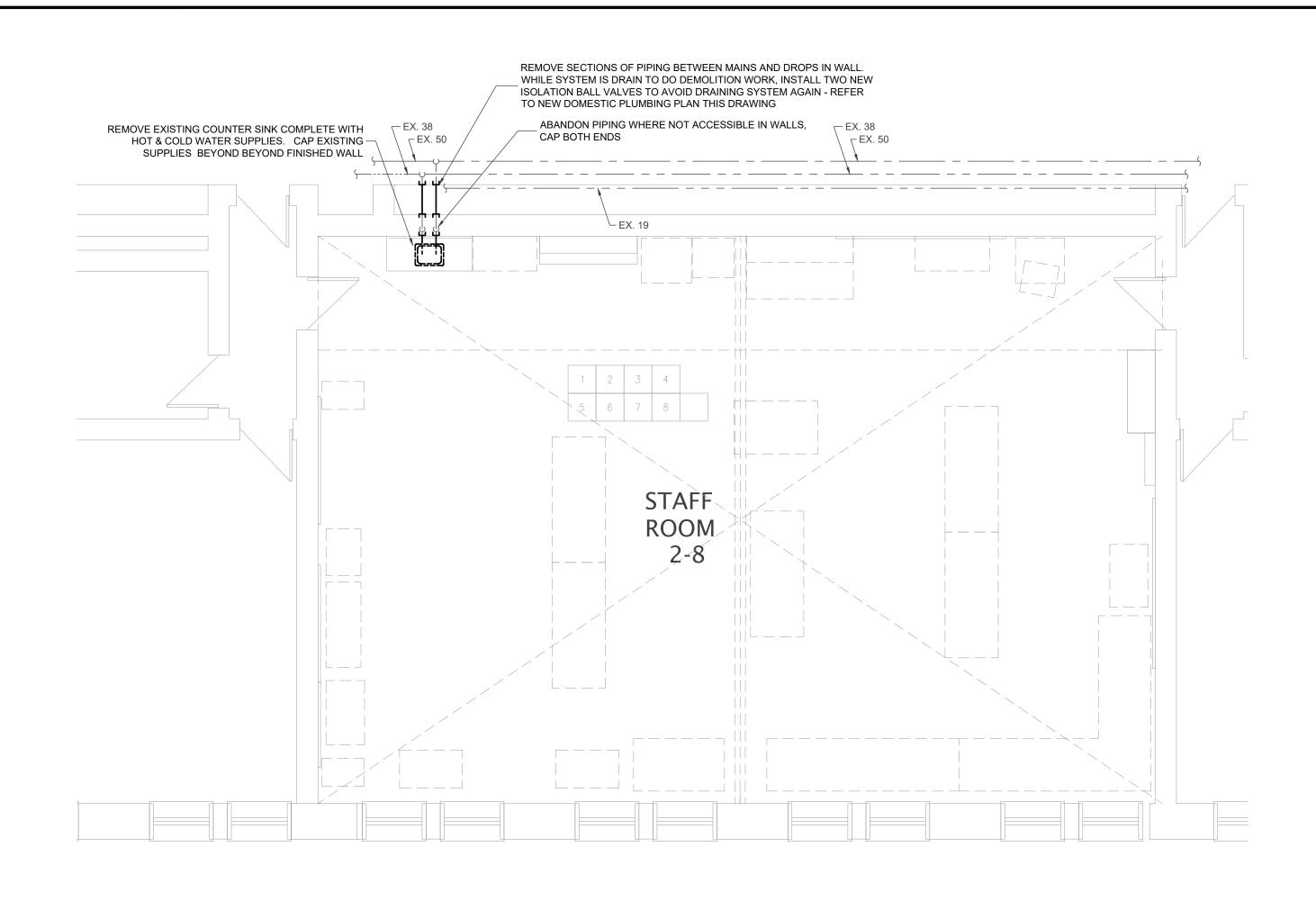


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PARTIAL FLOOR PLAN - DEMOLITION & NEW SANITARY PROJECT NO: A23018 DRAWN: JT/RV CHECKED: SS	т		FOR H SI	EST HOF	Scr Scr Sher- henen	Halln r, On	A A A A A A A A A A A A A A A A A A A	C.I ZA		N
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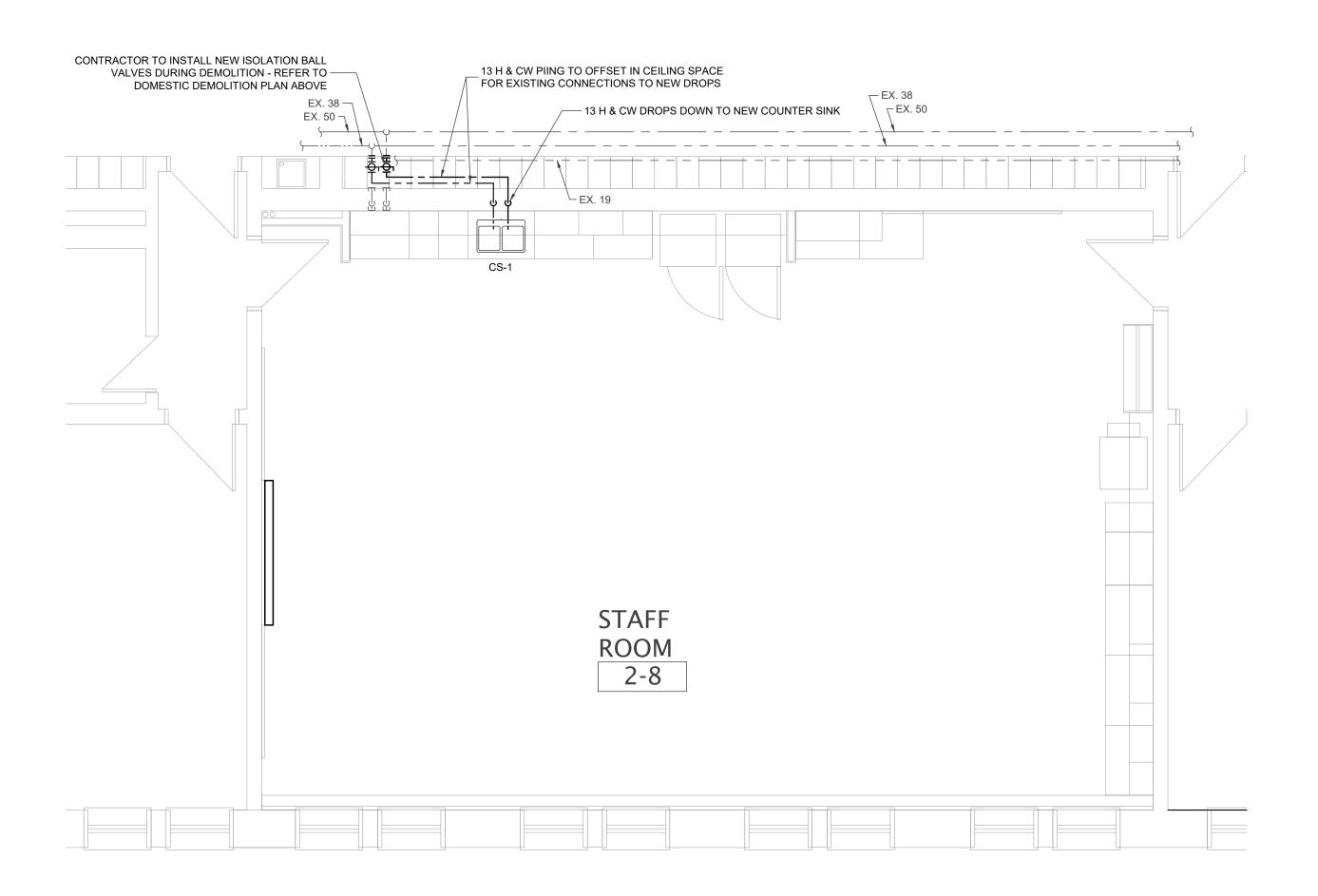




JAN. 30, 2025



## SCALE - 1:50



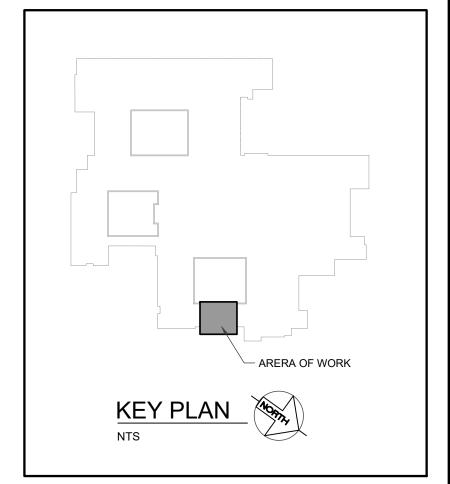
PARTIAL FLOOR PLAN - NEW DOMESTIC SCALE - 1:50

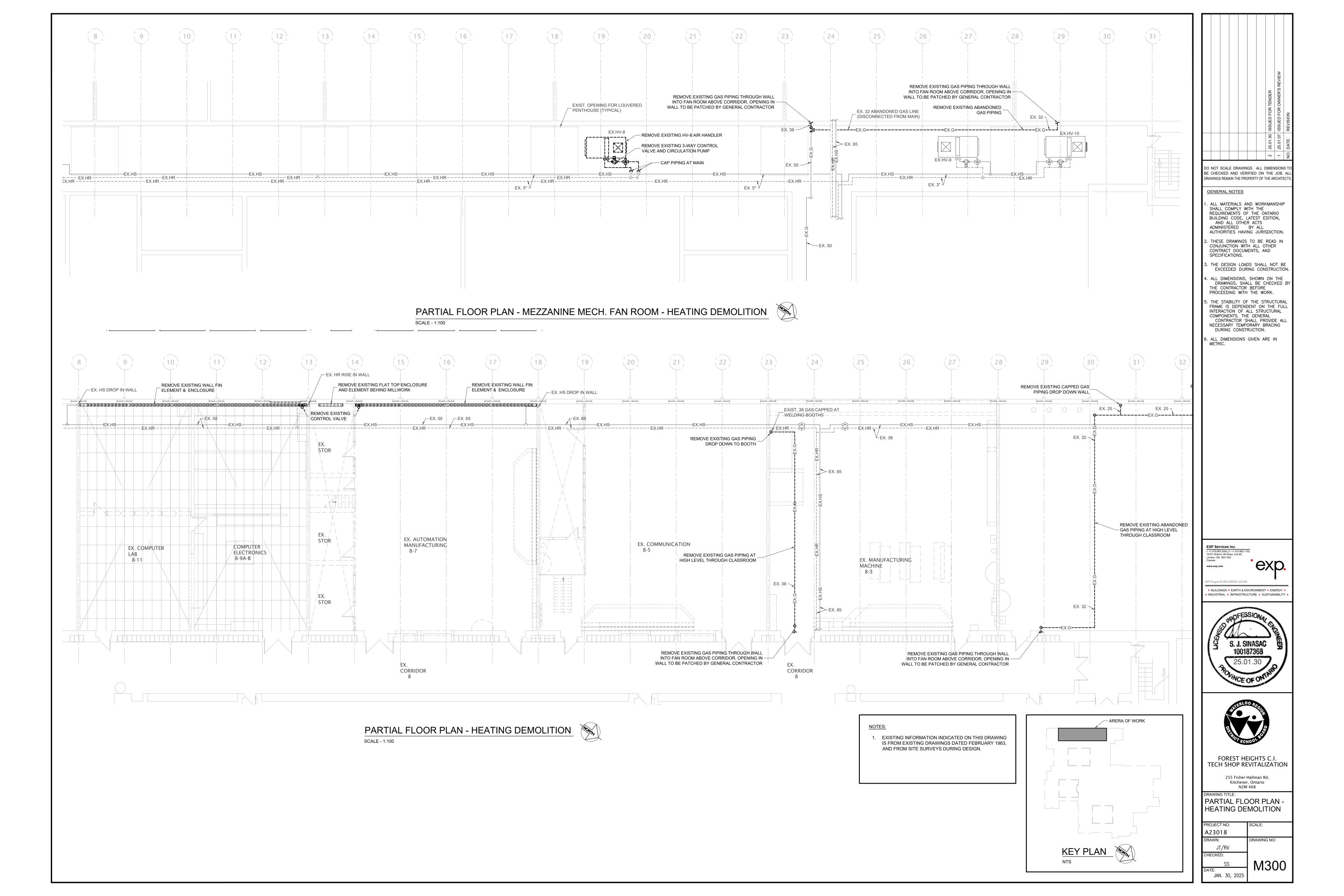
## PARTIAL FLOOR PLAN - DOMESTIC DEMOLITION

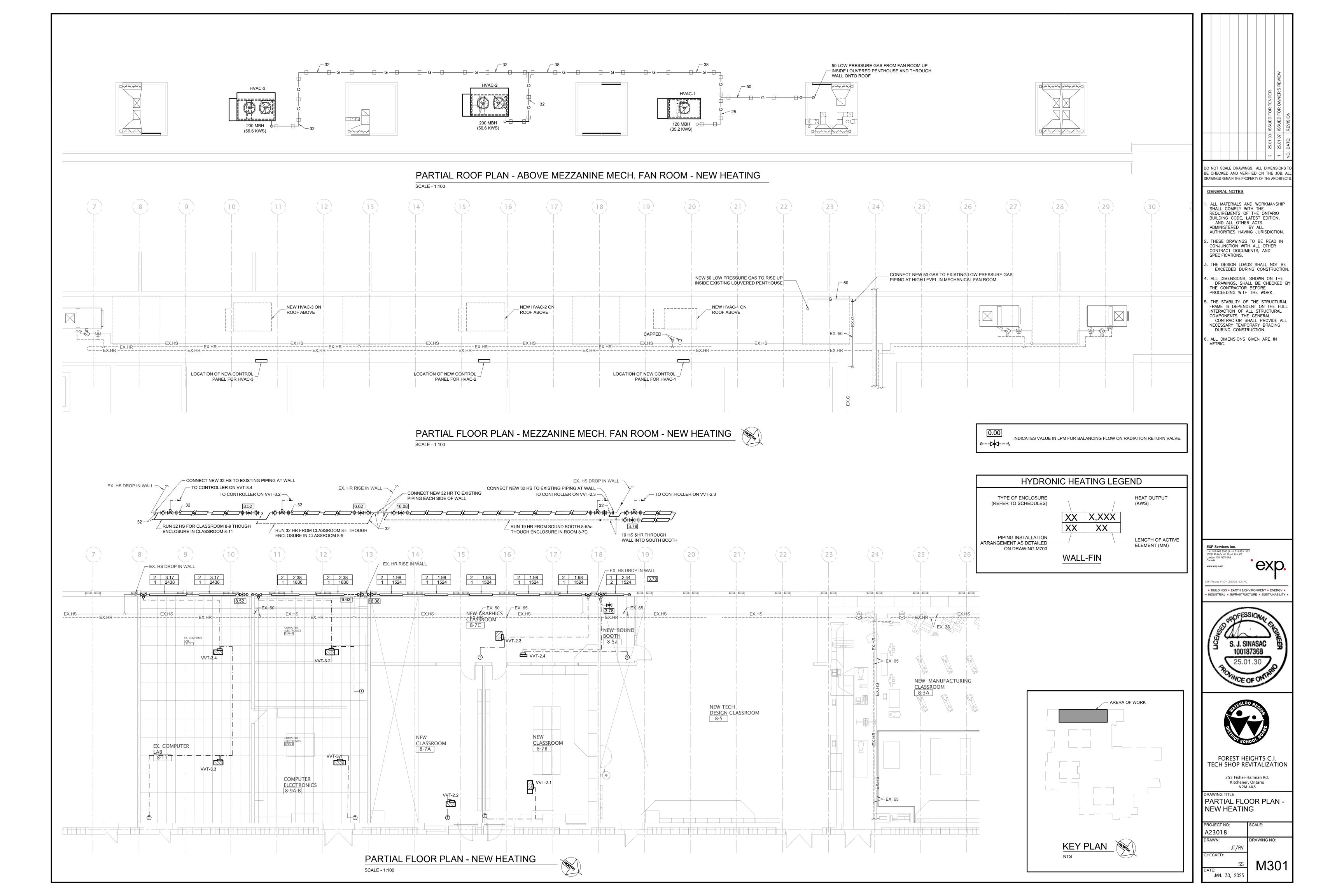


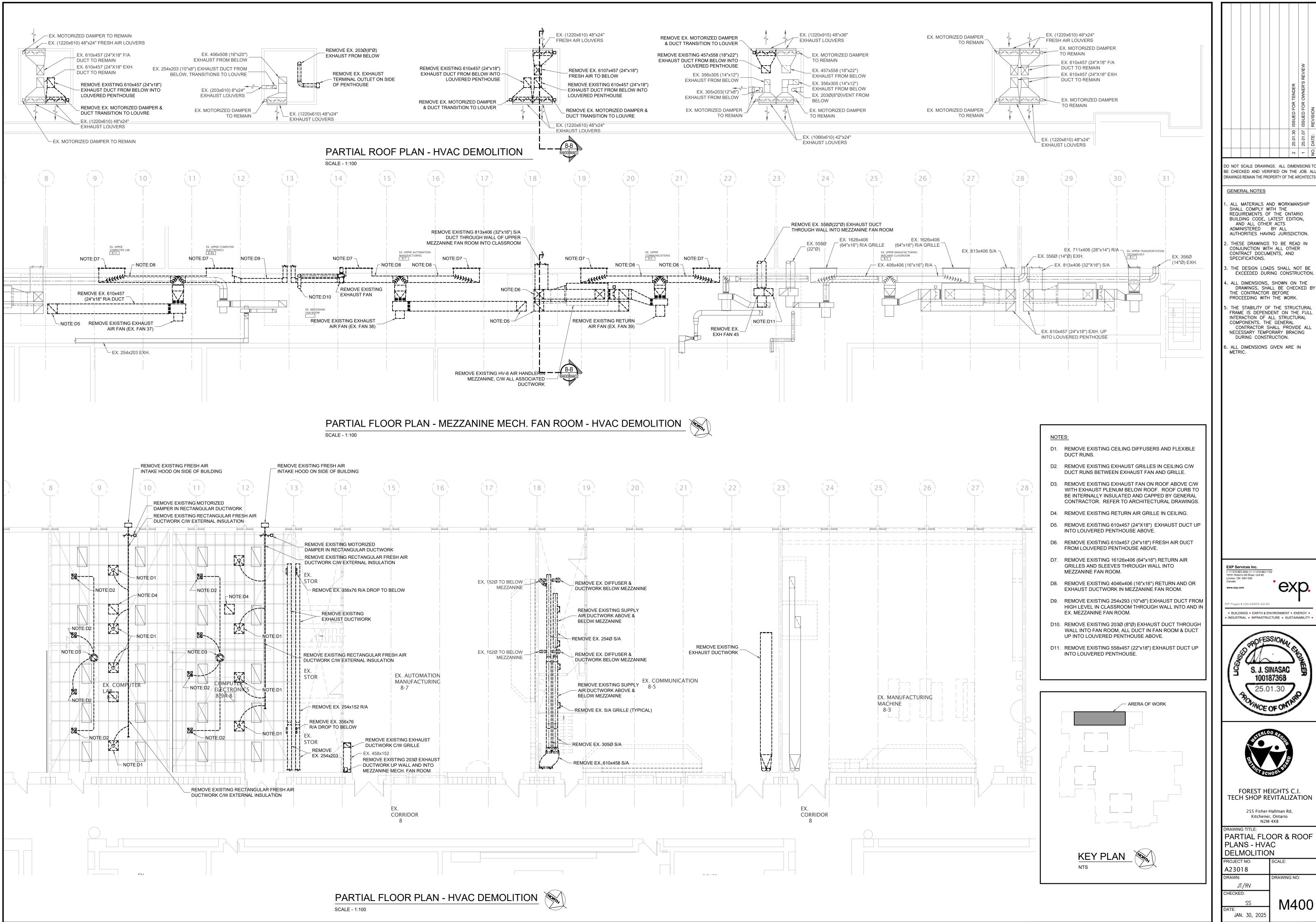


Image: Second State       Image: Second State         Image: Second State       Image: Second State <th>EP Services Inc.         EP Services Inc.         EVENDMENT SOLUTION         I. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.         I. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRUCTION.         I. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRUCTION.         I. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.         I. ALL DIMENSIONS, SHOWN ON THE PURCECEDING WITH THE WORK.         I. THE STABILITY OF THE STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL BE CHECKED BY THE CONTRACTOR SHALL BE CHECKED BY THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.         I. ALL DIMENSIONS GIVEN ARE IN METRIC.         I. THE STABILITY OF THE STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.         I. ALL DIMENSIONS GIVEN ARE IN METRIC.         I. METRIC.</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	EP Services Inc.         EVENDMENT SOLUTION         I. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.         I. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRUCTION.         I. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRUCTION.         I. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.         I. ALL DIMENSIONS, SHOWN ON THE PURCECEDING WITH THE WORK.         I. THE STABILITY OF THE STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL BE CHECKED BY THE CONTRACTOR SHALL BE CHECKED BY THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.         I. ALL DIMENSIONS GIVEN ARE IN METRIC.         I. THE STABILITY OF THE STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.         I. ALL DIMENSIONS GIVEN ARE IN METRIC.         I. METRIC.									
<ul> <li>BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS.</li> <li>GENERAL NOTES</li> <li>1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITIES HAVING JURISDICTION.</li> <li>2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS.</li> <li>3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION.</li> <li>4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.</li> <li>5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL INTERACTION OF ALL STRUCTURAL COMPONENTS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION.</li> <li>6. ALL DIMENSIONS GIVEN ARE IN</li> </ul>	BE CHECKED AND VERIFIED ON THE JOB. ALL DRAWINGS REMAIN THE PROPERTY OF THE ARCHITECTS. GENERAL NOTES 1. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, LATEST EDITION, AND ALL OTHER ACTS ADMINISTERED BY ALL AUTHORITES HAVING JURISDICTION. 2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS, AND SPECIFICATIONS. 3. THE DESIGN LOADS SHALL NOT BE EXCEEDED DURING CONSTRUCTION. 4. ALL DIMENSIONS, SHOWN ON THE DRAWINGS, SHALL BE CHECKED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK. 5. THE STABILITY OF THE STRUCTURAL FRAME IS DEPENDENT ON THE FULL NOTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION. 6. ALL DIMENSIONS GIVEN ARE IN METRIC. 6. ALL DIMENSIONS GIVEN ARE IN METRIC. 7. THE STABILITY OF THE STRUCTURAL NECESSARY TEMPORARY BRACING DURING CONSTRUCTION. 6. ALL DIMENSIONS GIVEN ARE IN METRIC.								25.01.07	DATE:
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	t: +1.519.963.3000   f: +1.519.963.1152 15701 Robin's Hill Road, Unit #2 London, ON NSV DA5 Canada www.exp.com EXP Project # LON-23003 I 63-A0 • BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •	2. 3. 4. 5.	ADMI AUTH CONJ SPEC THE EX ALL FRAM THE FRAM NECE DU ALL	NISTI IORIT IORIT IUNCC IRACC IFIC/ DES CCEEI DIME SAWIN CON CEED STA IE IS SACTE PONE ISSAI JRINC DIME	ERED RAWING TION W TOOL ATIONS. IGN LC DED DL ENSION: GS, SH TRACTO ING WI BILITY DEPEI ON OF CNTS. T ACTOR RY TEM G CONS	BY VING S TO (ITH A JMENT ADS JRING S, SH HALL OF TH NDEN ALL SHAL PORA STRUC	ALL JURIS BE JLL O S, AI CON BE CON BE CON OWN BE CON FORE IE WC FORE IE STRU ENER RY B STRU ENER RY B TION.	REAI THEF ND CNC STRU ORK. TRUC THE JCTU AL OVID RACI	D IN R JCTIC THE KED TUR/ E FU RAL E AL NG	E DN. BY
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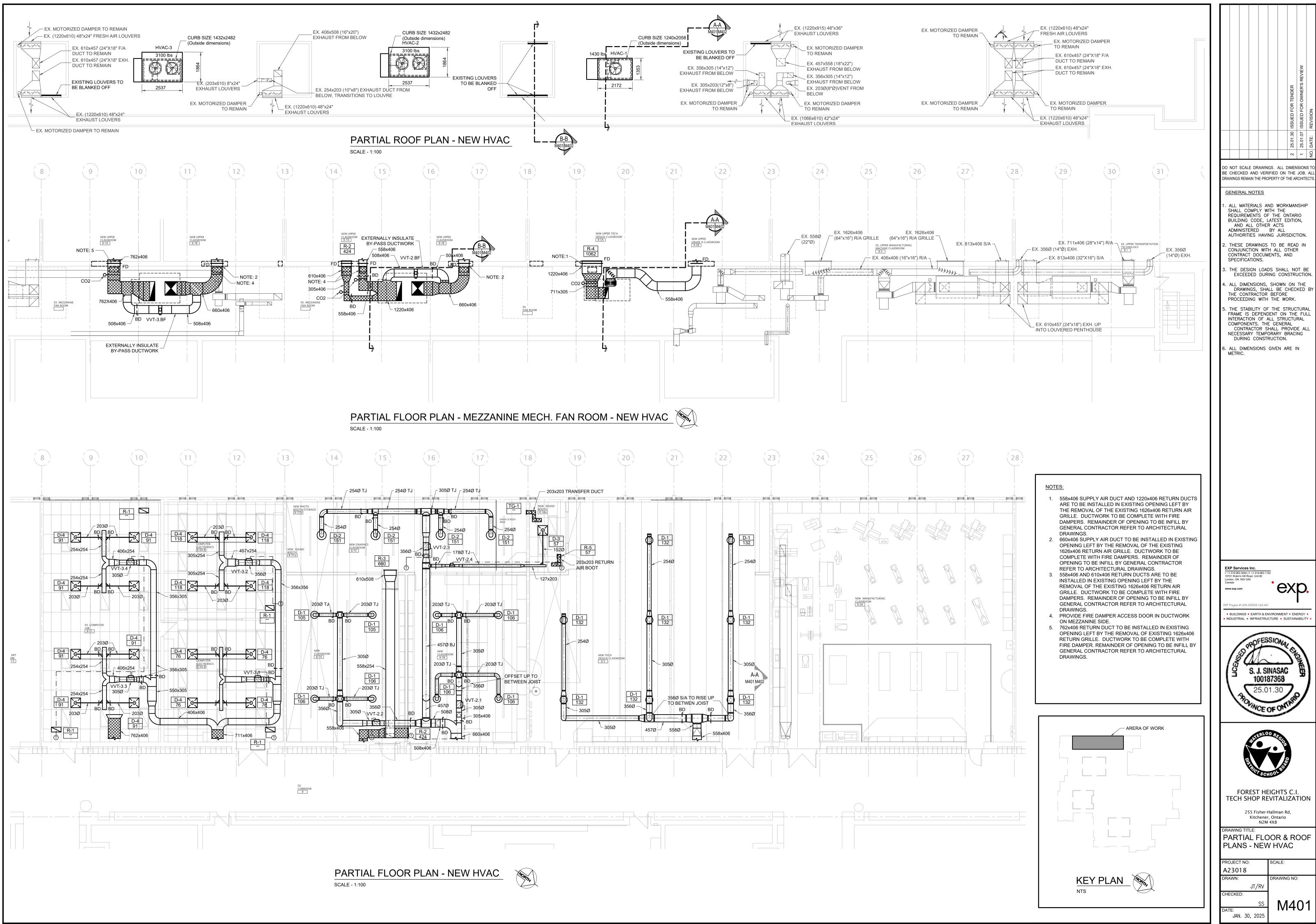
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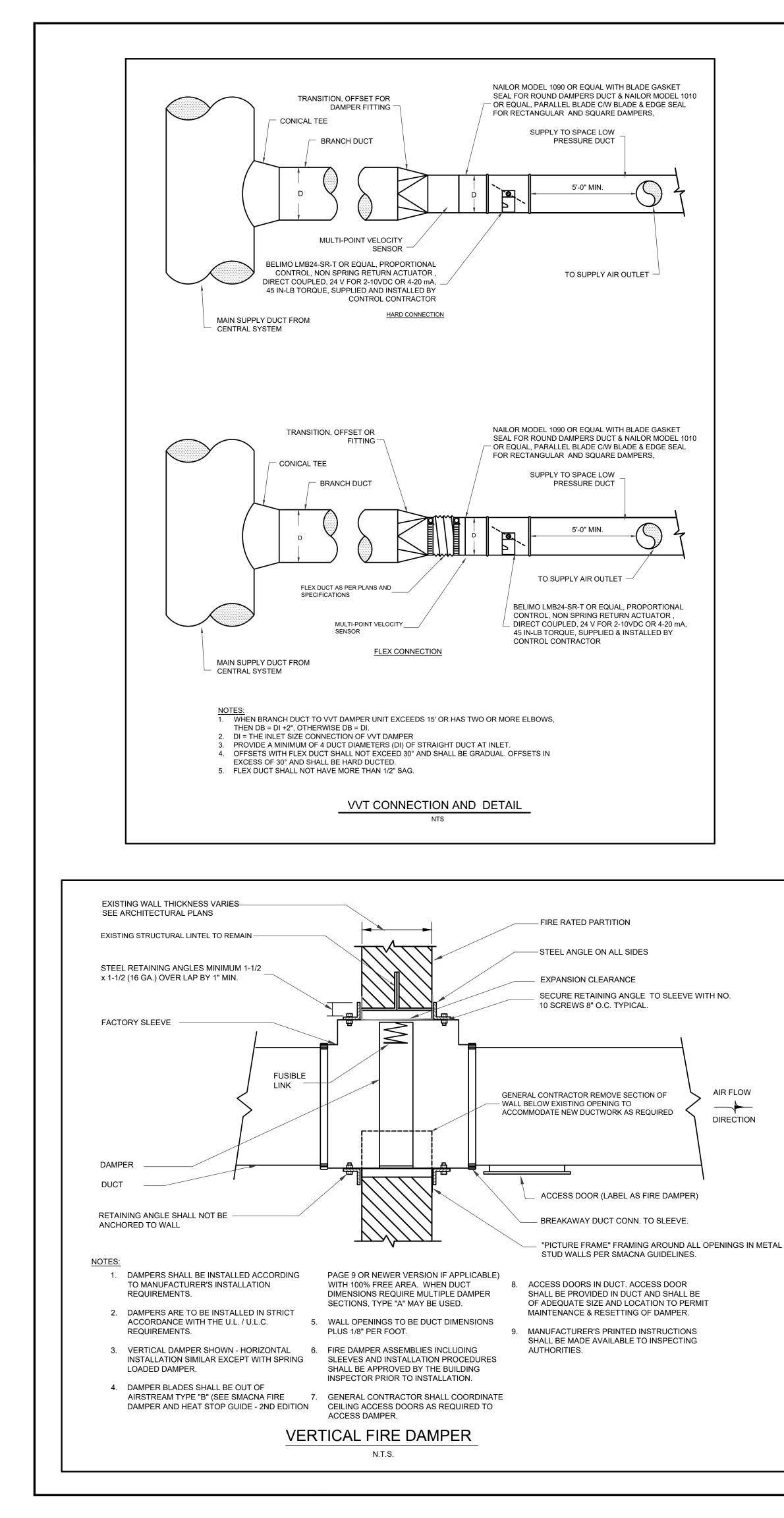
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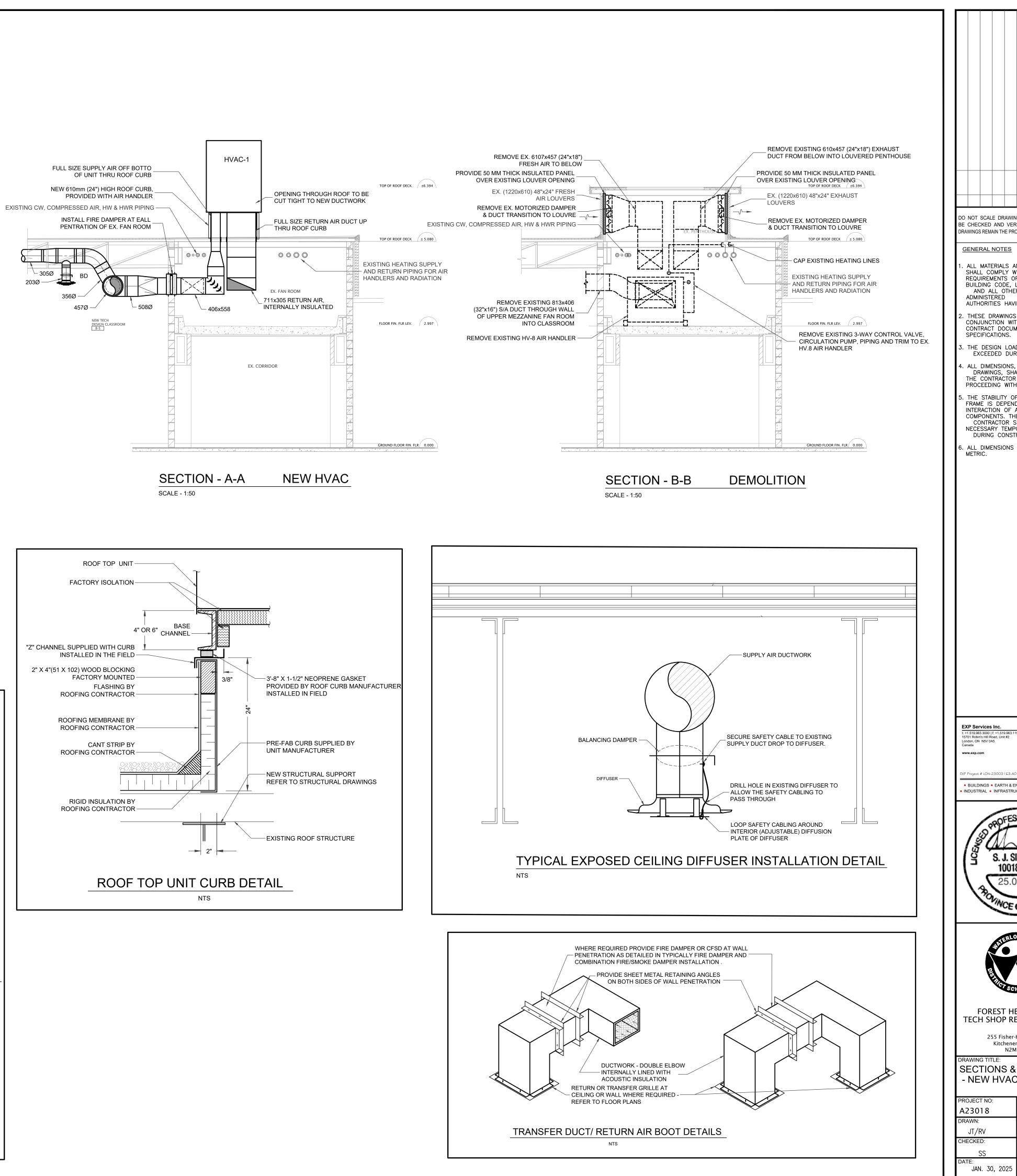
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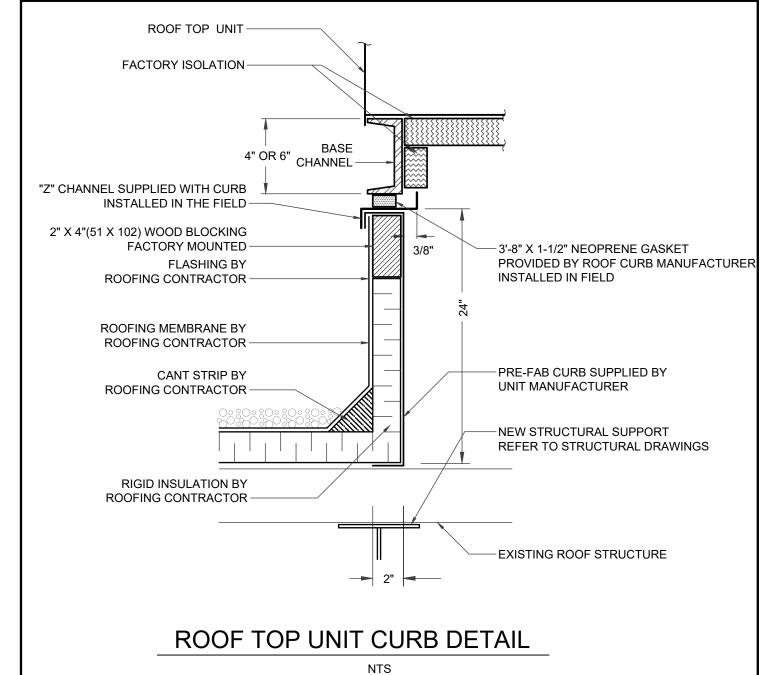
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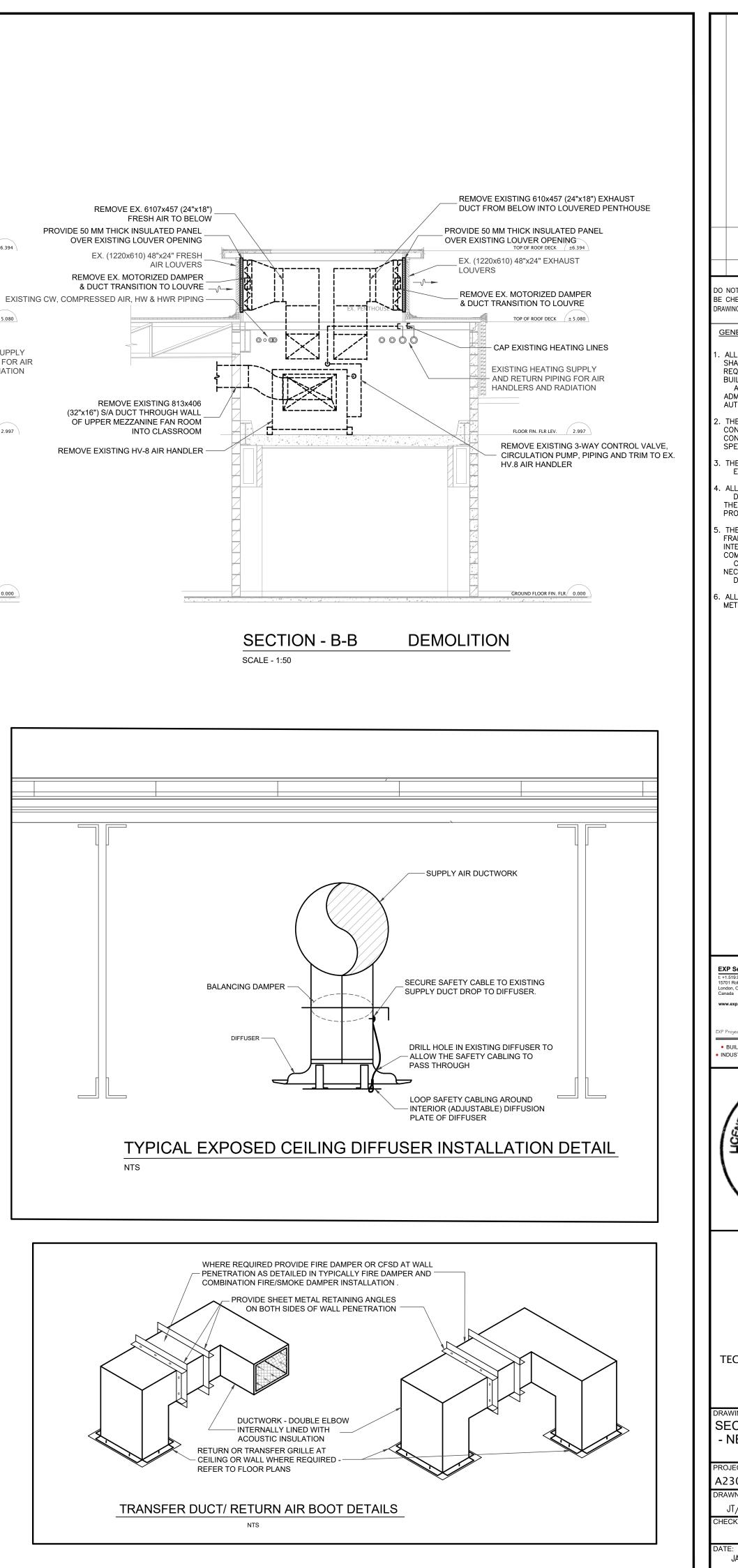
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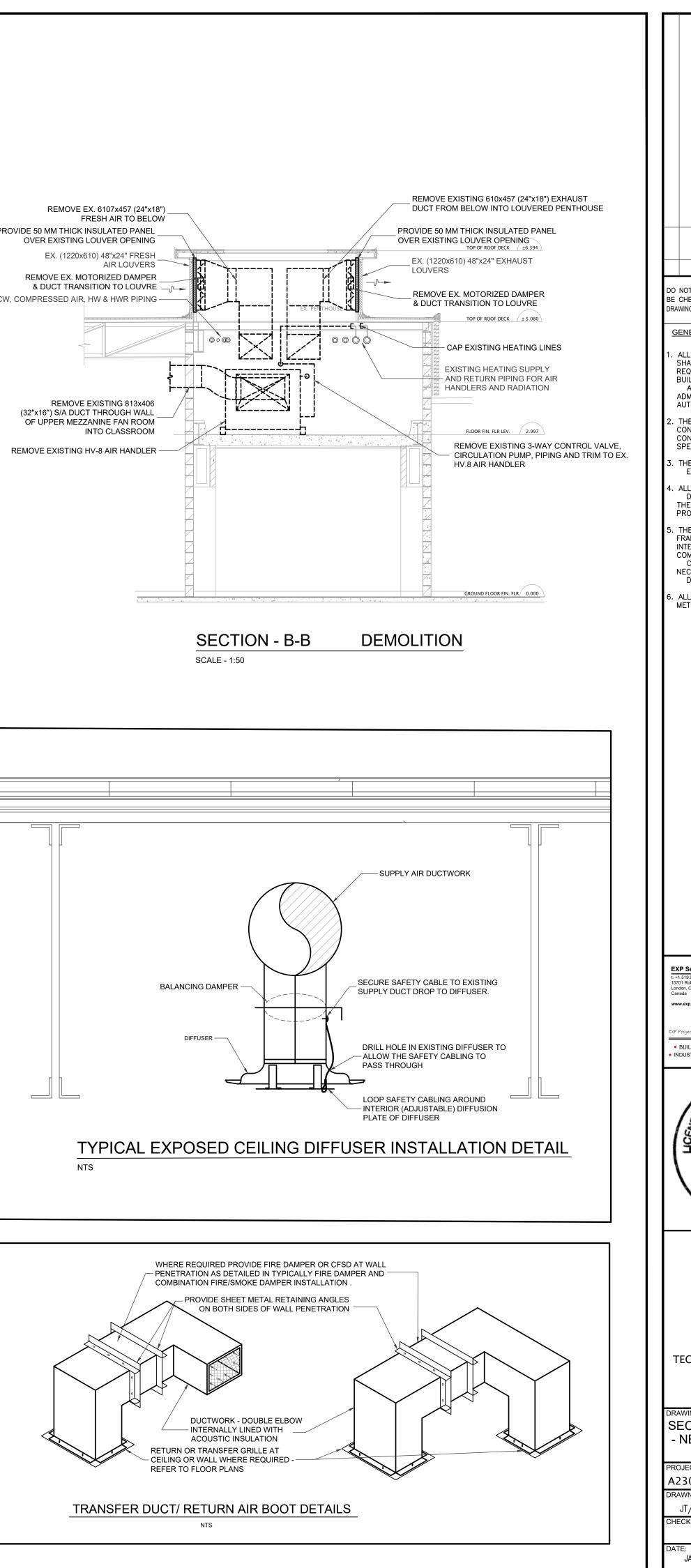






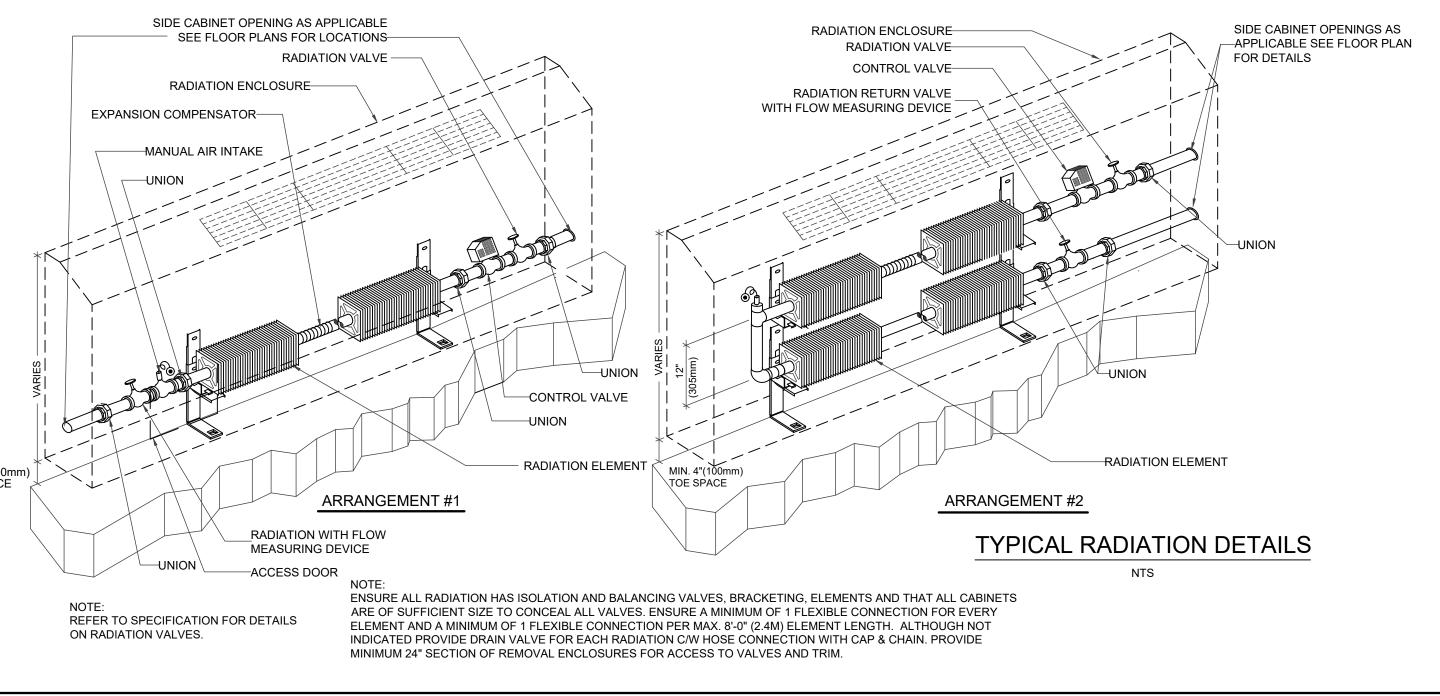






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Here         APP and	W)] [BTUH (KW)] REFRIGERANT TYP	1	_				
HVAC-1         DAIKIN         DPSH05B         CLASSROOM 8-5         2250 (1062)         1.00 (249)         4.05 (1082)         3.0 (224)         208/3/60         ECM         1.00 (249)         1.7 (1.268)         208/3/60         ECM         0.30 (74.65)         76.8/64.4 (24.9/18.0)         55.5/54.4 (13.1/12.4)         4         14         50.096 (14.68)           HVAC-2         DAIKIN         DPSH10B         CLASSROOM 8-5Aa         3.200 (1,510)         1.00 (249)         3.67 (3.21)         4.3 (3.21)         208/3/60         ECM         3.00 (2.24)         208/3/60         ECM         0.30 (2.24)         76.8/64.4 (24.9/18.0)         55.5/54.4 (13.1/12.4)         4         14         50.096 (14.68)           HVAC-2         DAIKIN         DPSH10B         CLASSROOMS 8-7A, 8-7B 8-7C & BOOTH 8-5Aa         3.200 (1,510)         1.00 (249)         3.67 (3.21)         4.3 (3.21)         208/3/60         ECM         3.20 (311.05)         208/3/60         ECM         0.33 (82.11)         75.8/63.0 (24.3/17.2)         4.4         15         91,670 (26.86)           HVAC-3         DAIKIN         DPSH10B         ELECTRONICS 8-9A & B, 3.200         1.00         3.67         4.3         208/3/60         ECM         3.20 (3.21)         208/3/60         ECM         0.33         75.5/62.6         48.2/48.2		EAT DB LAT				IEER HSPF2	WE L (K
HVAC-2       DAIKIN       DPSH10B       CLASSROOMS 8-7A, 8-7B 8-7C & BOOTH 8-5Aa       3,200 (1,510)       1.00 (249)       3.67 (913)       4.3 (3.21)       208/3/60       ECM       3.0 (1,510)       208/3/60       ECM       3.0 (2.24)       208/3/60       ECM       0.33 (82.11)       75.8/63.0 (24.3/17.2)       48.6/48.6 (9.2/9.2)       4       15       91,670 (26.86)         HVAC-3       DAIKIN       DPSH10B       ELECTRONICS 8-9A & B, 3,200       1.00       3.67       4.3       208/3/60       ECM       3.00 (2.24)       208/3/60       ECM       0.33 (82.11)       75.8/63.0 (24.3/17.2)       4       15       91,670 (26.86)	5 59,415 ) (17.41) R32	<sup>-</sup> °F (°C) LDB (°F) 60.3 100.2 (15.7) (37.9)	120,000 97,200	S) RATIO	42.7 60 12.3	(SEER2) HSPF2 (19.5) 7.9	1
HVAC 3       DAIKIN       DESH10B       ELECTRONICS 8-9A & B,       3,200       1.00       3.67       4.3       208/3/60       FCM       3.00       208/3/60       FCM       0.33       75.5/62.6       48.2/48.2       4       15       91,858	118,527	65.4 112.1	200,000 162,000		76.3 110 11.5	19.0 N/A	
COMPUTERS 8-11         (1,510)         (249)         (913)         (3.21)         Consists         Consists <thconsists< th=""> <thconsis< th="">         Co</thconsis<></thconsists<>	) (34.72) 3 117,735 B22	(18.5) (44.5) 67.5 114.1	200,000 162,000		76.3 110 11.5	19.0 N/A	
	) (34.49) K32	(19.7) (45.6)	(58.6) (47.47)				(*
AIR HANDLING UNIT SCHEDULE CONTINUED							
UNIT NO.     MINIMUM CFM (L/S)     DESIGN CFM (L/S)     TYPE     ENT. S/A (O/A) DB/WB °F (°C)     LVG. S/A DB/WB °F (°C)     ENT. R/A DB/WB °F (°C)     MIXED AIR DB/WB °F (°C)     ENERGY RECOVERED BTUH (KWS)     EFF. %     S/A P.D. IN.WG.(Pa)     EAT DB °F (°C)     LAT DB °F (°C)     TOTAL CAPACITY BTUH (KWS)     AMBIENT DB °F (°C)		LOUVE	ER, GRILLE ANI				
HVAC-1         450 (212)         1000 (472)         WINTER         -4.0/-5.0 (-20.0/-20.5)         48.9/39.7 (9.39/4.28)         70.0/53.0 (21.1/11.7)         60.3/47.5 (15.7/8.61)         67,437 (19.76)         69.0         0.37         0.37         0.37         N/A         47 (8.3)           BUMMER         90.0/75.0 (32.2/23.8)         79.0/66.7 (26.1/19.3)         75.0/62.5 (23.8/16.9)         76.8/64.4 (24.9/18.0)         30,327 (8.89)         70.0         (92.07)         60.3 (15.7)         81.7 (27.6)         52.572 (15.4)         41 (5.0)	SYMBO	L AIR FLOW RANGE [CFM (L/S)]	NECK SIZE/ FACE SIZE [INCH. (MM)]	MODEL NUMBER	DESCRIPTION		
HVAC-2         400 (189)         1220 (576)         WINTER         -4.0 / -5.0 (-20.0 / -20.5)         58.0 / 46.0 (14.4 / 7.77)         70.0 / 53.0 (21.1 / 11.7)         65.4 / 50.4 (18.6 / 10.2)         100.766 (29.5)         82.0         0.05         0.05         0.05         109.719 (32.15)         47 (8.3)           BUMMER         90.0 / 75.0 (32.2 / 23.8)         77.2 / 64.6 (25.1 / 18.1)         75.0 / 62.5 (23.8 / 16.9)         75.8 / 63.0 (24.3 / 17.2)         45.957 (13.46)         80.0         (12.44)         (12.44)         65.4 (18.5)         95.1 (35.05)         102,429 (30.01)         41 (5.0)	D-1 CFM	140 - 280 (66 -132)	8"Ø / 18"Ø (203Ø / 457Ø)	8"Ø/RCDA/B12	FULLY ADJUSTABLE ROUND C	CONE, 4 CONES,	
HVAC-3         410 (194)         875 (413)         WINTER         -4.0 / -5.0 (-20.0 / -20.5)         60.7 / 47.5 (15.9 / 8.61)         70.0 / 53.0 (21.1 / 11.7)         67.5 / 51.6 (19.7 / 10.9)         74,831 (21.93)         84.0         0.03         0.03         0.03         109,719 (32.15)         47 (8.3)           BVAC-3         0.01 (194)         0.01 / 53.0 (22.2 / 23.8)         76.7 / 64.2 (24.4 / 17.8)         75.0 / 62.5 (23.8 / 16.9)         75.5 / 62.6 (24.1 / 17.0)         34,079 (9.98)         82.0         (7.46)         67.5 (19.7)         97.2 (36.2)         102,568 (30.05)         41 (5.0)	D-2 CFM	280 - 435	10"Ø / 22.5"Ø	10"Ø/RCDA/B12	FULLY ADJUSTABLE ROUND C	CONE, 4 CONES,	
	D-3 CFM	(132 -205) 0 - 160	(254Ø / 572Ø) 6"Ø / 24" x 24"	6"Ø/24"x24"/SCD/31/3C/B12	WHITE STEEL,           2         FIXED SQUARE CONE, T-BAR I	MOUNT, 3 CONES,	
	CFM D-4 CFM	(0 -76) 160 - 315	(152Ø / 610 x 610) 8"Ø / 24" x 24"	8"Ø/24"x24"/SCD/31/3C/B12		MOUNT, 3 CONES,	
OR EQUAL - ENGINEERED AIR, BEACON MORRIS, ZEHNDER-RITTLING AND TRANE RADIANT WALL FIN SCHEDULE		(76 -149)	(203Ø / 610 x 610)		WHITE STEEL		
UNIT TYPE LOCATION MANUFACTURER MODEL NO. OUTPUT USGPM PER FT  °F L.W.T. L.W.T. L.W.T. L.W.T. L.N.T.	R-1 CFM	VARIES	24" x 12"	24"x12"/80/TB/B12	EGG CRATE FACE RETURN		
(KWS/M)       (LPM/M)       (°C)]       (°C)]       IN.(mm)       IN.(mm)       IN.(mm)         IN.(mm)       IN.(mm)       IN.(mm)       IN.(mm)       IN.(mm)       IN.(mm)       IN.(mm)		900	(610 x 305) 24" x 16"		T-BAR LAY-IN, WHITE	45° DEFLECTION. FLAT B	BORDE
1         REFER TO FLOOR PLANS         SIGMA CORPORATION         SWE-24S-44C075         (1.60)         (2.04)         (82.2)         (71.1)         2         FLOOR PLANS         (610)         (133)         ALUMINUM FINS, 144 FINS/METER (44 FINS/FOOT)           1         1         1         1         1         2         FLOOR PLANS         (610)         (133)         ALUMINUM FINS, 144 FINS/METER (44 FINS/FOOT)           1	CFM	(424)	(610 x 406) 24" x 20"	24"x16"/530/F/L/A/B12	W/ COUNTERSINK SCREW HAI	LES, 3/4" BLADE SPACINO	ING, WH
$\frac{2}{1.30} = \frac{1.355}{1.30} = \frac{1.355}{1.30} = \frac{1.00}{1.00} = \frac{1.00}{1.00}$	CFM	(660)	(610 x 508) 48" x 16"	24"x20"/530/F/L/A/B12	W/ COUNTERSINK SCREW HAI	LES, 3/4" BLADE SPACINO	ING, WH
	R-4 CFM	(1062)	(1220 x 406)	48"x16"/530/F/L/A/B12	W/ COUNTERSINK SCREW HA		
	R-5 CFM	VARIES	8" x 8" (203 x 203)	8"x8"/80/F/A/B12	EGG CRATE FACE RETURN FLAT BORDER W/ COUNTERSI	NK SCREW HOLES, WHI	IITE
			0" v 0"				
	TG-1 CFM	VARIES	8" x 8" (203 x 203)	8"x8"/530/F/L/A/B12	LOUVERED RETURN GRILLE, 4 W/ COUNTERSINK SCREW HAI		
	* MANUF	ACTURER: E.H. PRICE					
ROOF/FLOOR STRUCTURE     PIPING SUPPORT SPACING       1"(25mm) WIDE BAND     1"(25mm) WIDE BAND	<u></u>			V.V.T. CONTRC	DL DAMPER SCHE	DULE	
AS PER SMACNA U AS PER SMACNA U AS PER SMACNA		VVT#	SERVING	М	AODEL INLET DIA. INCH (mm)	RANGE CFM (L/S)	0
1-1/4" TO 2-1/2" - HORIZONTAL 3" TO 4" - HORIZONTAL 10 (3) 15 (5)		2.1	NEW CLASSROOM 8-7B	3 NAIL	LOR 1090 12" (305)	630-950 (297-448)	3)
Image: Note: The support spacing shall comply with this table and additional support shall be provided for every threaded fitting, change in the support shall be provided for every threaded fitting, change in the support shall be provided for every threaded fitting, change in the support shall be provided for every threaded fitting, change in the support shall be provided for every threaded fitting, change in the support shall be provided for every threaded fitting, change in the support shall be provided for every threaded fitting, change in the support shall be provided for every threaded fitting, change in the support shall be provided for every threaded fitting.		2.2	NEW CLASSROOM 8-7A	A NAIL	LOR 1090 12" (305)	630-950 (297-448)	3)
		2.3	NEW GRAPHICS CLASS	ROOM 8-7C NAIL	LOR 1090 14" (356)	1125- 1575 (530-743)	43) 1
CLAMP GAS LINE GAS LINE		2.4	NEW CLASSROOM 8-7A	A NAIL	LOR 1090 6" (150)	160-240 (76-113)	5)
ALL SUPPLY AIR DIFFUSERS TO BE PROVIDED		2.BP	BY-PASS	NAIL	LOR 1010 20"x18" (508x457)	1125- 1575 (530-743)	43)
WITH E.H. PRICE MODEL VCR-7 RADIAL OPPOSED BLADE DAMPER VITH E.H. PRICE MODEL VCR-7 RADIAL OPPOSED BLADE DAMPER OPPOSED BLADE DAMPER	GAS LINE						
DIFFUSER TO BE BALANCED SO THAT AIR LEAVES ALL SIDES EQUALLY THAT AIR LEAVES ALL SIDES EQUALLY THAT AIR LEAVES ALL SIDES EQUALLY	E	3.1	COMPUTER ELECTRO	DNICS 8-9A NAIL	LOR 1090 12" (305)	630-950 (297-448)	3)
		3.2	COMPUTER ELECTRO	DNICS 8-9B NAIL	LOR 1090 14" (356)	850-1275 (401-601)	1)
NOTES:         1. MINIMUM DIMENSION REQUIRED, NOTE: WHERE MINIMUM DIMENSION         CANNOT BE INSTALLED DUE TO BEDUICED CELLING SPACE AND/OP		3.3	EX. COMPUTER LA		LOR 1090 12" (305)	630-950 (297-448)	-
CANNOT BE INSTALLED DUE TO REDUCED CEILING SPACE AND/OR OTHER OBSTRUCTIONS CONTRACTOR TO INSTALL DIFFUSERS AS DETAILED IN CONFINED CEILING SPACE DIFFUSER & DUCT CONNECTION.		3.4	EX. COMPUTER LA		LOR 1090 12" (305)	630-950 (297-448)	
TYPICAL DIFFUSER &	ANE	3.4 3.BP	BY-PASS		LOR 1030 12 (503)		
CONNECTION W/ FLEXIBLE DUCT TYPICAL DIFFUSER & DUCT CONNECTION GAS LINE SUPPORT DETAIL		J.Dr	DIFROO			1 1125- 1575 (550-745)	
NTS NTS							
SIDE CABINET OPENING AS AP			RADIATI			SIDE CABINET OPEI	FNING
AS PER SMACNA	TION VALVE	$\geq$	R/			APPLICABLE SEE FI	
				N RETURN VALVE		Å	
FLEXIBLE DUCT CONNECTION, MAX. 3'							
				0			
DIFFUSER TO BE BALANCED SO							
DIFFUSER TO BE BALANCED SO THAT AIR LEAVES ALL SIDES EQUALLY ALL SUPPLY AIR DIFFUSERS TO BE PROVIDED DIFFUSER TO BE BALANCED SO THAT AIR LEAVES ALL SIDES EQUALLY ALL SUPPLY AIR DIFFUSERS TO BE PROVIDED							
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						S REVIEW	
					25.01.30 ISSUED FOR TENDER	25.01.07 ISSUED FOR OWNER'S REVIEW	NO. DATE: REVISION
1. ALL M SHALL REQUI BUILD ANI ADMIN AUTHO 2. THES CONJI CONTI SPECI 3. THE EXO 4. ALL I PROCI 5. THE FRAME INTER COMP CO NECES	KED AND REMAIN TH CAL NOT ALL NOT MATERIAL COMPL REMENT: ING COD IISTERED DO ALL CO IISTERED DO ALL CO IISTERED DO ALL CO IISTERED DIMENSION CEEDED DIMENSION CEEDED DIMENSION STABILIT E IS DEI ACTION STABILIT E IS DEI ACTION STABILIT E IS DEI ACTION CONTRACT CONT	VER EE PRC S AI ES S AI S S S S AI S S S S AI S S S S S S S S S S S S S S S S S S S	IFIED IFIED ITH ATES	WORH WORH THE E OI ST E CALL BE LL O SALL BE LL O SALL CON BE CORE E ST STRU E ST STRU E ST STRU E ST STRU E ST STRU E ST STRU	THE AF THE AF CALL AND	JOB. ACHITE ISHIF IO N, FION. TON.	E DN. BY
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# FOREST HEIGHTS COLLEGIATE INSTITUTE (TENDER #25-7636-RFT) **TECH SHOP REVITALIZATION &** PARTIAL WINDOW REPLACEMENT

## KITCHENER, ONTARIO

## WRDSB PROJECT NO. A23018 EXP PROJECT NO. LON-24003082-A0

### **ELECTRICAL DRAWING LIST:**

- ELECTRICAL TITLE SHEET E000 PARTIAL FLOOR PLAN - DEMOLITION & NEW LIGHTING E100
- E200 **PARTIAL FLOOR PLAN - DEMOLITION & NEW POWER** E201 PARTIAL FLOOR PLAN - DEMOLITION & NEW POWER E202 **PARTIAL FLOOR PLAN - DEMOLITION & NEW POWER**
- ELECTRICAL RISER DIAGRAM E300 E301 ELECTRICAL SCHEDULES AND DETAILS

- GENERAL NOTES:

- AUTHORITY HAVING JURISDICTION.

- INFORMATION.

- REQUIREMENTS.

		ELECTRIC	AL LEG	END	
SYMBOL	DESCRIPTION	MOUNTING / HEIGHT	SYMBOL	DESCRIPTION	MOUNTING / HEIGHT
	2'-0" x 4'-0" LIGHT FIXTURE	CEILING	K	KEY PAD	900mm TO 1100mr
	2'-0" x 2'-0" LIGHT FIXTURE	CEILING		DOOR CONTACT - SECURITY	AS PER OBC 3.8.1. T/O DOOR
	1'-0" x 4'-0" LIGHT FIXTURE	CEILING	ES		FRAME DOOR
					LATCH 900mm TO 1100mr
	STRIP LIGHT FIXTURE	CEILING		CARD READER	AS PER OBC 3.8.1
0	RECESSED DOWNLIGHT FIXTURE	CEILING		TIME CLOCK	AS NOTED
<b>O•</b>	LIGHT FIXTURE	POLE AS NOTED		MOTION SENSOR - SECURITY	2440mm AFF
O <sup>+</sup>	LIGHT FIXTURE	WALL	•	PUSH BUTTON	AS NOTED
Ó	TRACK LIGHTING	CEILING		SECURITY CAMERA	AS NOTED
\$	1 POLE, LIGHT SWITCH	900mm TO 1100mm AS PER OBC 3.8.1.5	Ū	THERMOSTAT	1200mm AFF AS PER OBC 3.8.1
\$	GANGED LIGHT SWITCHES	900mm TO 1100mm AS PER OBC 3.8.1.5	Θ	HUMIDISTAT	1200mm AFF AS PER OBC 3.8.1
¢	DIMMER SWITCH	900mm TO 1100mm AS PER OBC 3.8.1.5	Ē	FAN SPEED CONTROLLER	1200mm AFF
 *	347V SINGLE POLE SWITCH	900mm TO 1100mm	Ē	FLOW SWITCH	AS PER OBC 3.8.1 AS NOTED
<u>*</u> (\$)	LOW VOLTAGE SWITCH	AS PER OBC 3.8.1.5 900mm TO 1100mm	S	SUPERVISORY VALVE	AS NOTED
		AS PER OBC 3.8.1.5 WALL /			
M	OCCUPANCY SENSOR - LIGHTING	3050mm AFF		END OF LINE RESISTOR	2286mm AFF
M	OCCUPANCY SENSOR - LIGHTING	CEILING	┝╲╾╱ <del>╴</del> ┙ MD	MOTORIZED DAMPER	AS NOTED
$M\!\!\rightarrow$	OCCUPANCY SENSOR - LIGHTING (AIMING AS NOTED)	WALL / 3050mm AFF		ELECTRIC HEATER	AS NOTED
$\textcircled{M} \rightarrow$	OCCUPANCY SENSOR - LIGHTING (AIMING AS NOTED)	CEILING	-11-	ELECTRIC HEAT TRACING (PIPE OR AREA)	AS NOTED
PC	PHOTO CELL	AS NOTED	FIRE ALAR	М	
MERGENO	CY LIGHTING			FIRE ALARM MANUAL PULL STATION	1200mm AFF AS PER OBC 3.8.1
	EMERGENCY BATTERY UNIT AND RECEPTACLE	2286mm AFF		FIRE ALARM SIGNAL APPLIANCE 6" OR 10" GONG	2300mm AFF TO TO
420	REMOTE EMERGENCY LIGHTING HEADS	2286mm AFF		FIRE ALARM HORN/STROBE	CAN/ULC-ULC-S524 2300mm AFF TO TO
					CAN/ULC-ULC-S524 2300mm AFF TO TO
<b>V</b>		2286mm AFF	<b>X</b>		CAN/ULC-ULC-S524 - 2000mm AFF TO 2400
40	REMOTE EMERGENCY LIGHTING HEADS	CEILING		FIRE ALARM STROBE	CAN/ULC-ULC-S524
¥	REMOTE EMERGENCY LIGHTING HEAD	CEILING	•	SMOKE DETECTOR	CEILING
$\mathbf{v}$	RECESSED EMERGENCY LIGHTING HEAD	CEILING	. ⊕=	SMOKE DUCT DETECTOR	IN DUCT
XIT LIGHT	'ING		$\otimes$	SMOKE ALARM	CEILING
EXIT	EXIT LIGHT FIXTURE	WALL OR CEILING	Φ	HEAT DETECTOR 194° FIXED TEMPERATURE	CEILING
EXIT	EXIT RIGHT ARROW LIGHT FIXTURE	WALL OR		HEAT DETECTOR 135° RATE OF RISE	CEILING
		CEILING WALL OR			WALL OR
EXIT	EXIT LEFT ARROW LIGHT FIXTURE	CEILING WALL OR		ELECTRO-MAGNETIC DOOR HOLD OPEN DEVICE	FLOOR
EXIT	EXIT DUAL FACE RIGHT ARROW LIGHT FIXTURE	CEILING	COMMUNIC		
EXIT	EXIT DUAL FACE LEFT ARROW LIGHT FIXTURE	WALL OR CEILING	ИУ	TELEPHONE OUTLET (y INDICATES # OF OUTLETS AT THIS LOCATION)	457mm AFF
OWER			🖾 у	TELEPHONE OUTLET (y INDICATES # OF OUTLETS AT THIS LOCATION)	FLOOR
	ELECTRICAL LIGHTING OR POWER PANEL	1980 mmAFF TO TOP	×	DATA OUTLET (x INDICATES # OF OUTLETS AT THIS LOCATION)	457mm AFF
	ELECTRICAL EQUIPMENT PANEL AS NOTED	AS NOTED	X	DATA OUTLET (x INDICATES # OF OUTLETS AT THIS LOCATION)	FLOOR
Φ	DUPLEX RECEPTACLE	457mm AFF		COMBINATION DATA AND TELEPHONE OUTLET	457mm AFF
-		OVER	-	(x = # OF DATA DROPS, y = # OF PHONE DROPS) COMBINATION DATA AND TELEPHONE OUTLET	
₩	SPLIT DUPLEX RECEPTACLE	COUNTER	<b>≤</b> x,y	(x = # OF DATA DROPS, y = # OF PHONE DROPS)	FLOOR
Ф	GFI RECEPTACLE	457mm AFF	4	TELEVISION (CABLE) OUTLET	457mm AFF
Ф	DUPLEX RECEPTACLE	FLOOR	H	HDMI OUTLET	AS NOTED
$\heartsuit$	DIRECT CONNECTION TO AN ELECTRICAL DEVICE	AS NOTED	Ś	SOUND SYSTEM SPEAKER OUTLET	CEILING
$\bigcirc$	DIRECT CONNECTION TO A DATA DEVICE	AS NOTED	⊮ᢒ∽	P/A SPEAKER C/W SWITCH	900mm TO 1100mr AS PER OBC 3.8.1.
$\overline{\Phi}$	QUAD-PLEX RECEPTACLE	457mm AFF	<b>N</b>	P/A HORN	2286mm AFF
<u> </u>	SWITCHED RECEPTACLE	AS NOTED		PROGRAM BELL	2286mm AFF
-	RANGE OUTLET	104mm AFF		SOUND SYSTEM VOLUME CONTROL	900mm TO 1100mr
₩			P		AS PER OBC 3.8.1. 900mm TO 1100mm
50A ₩	DRYER OUTLET	104mm AFF	<b>▼</b>	NURSE CALL PATIENT STATION	AS PER OBC 3.8.1.
$\mathbf{\Phi}$	HALF-SWITCHED DUPLEX RECEPTACLE	457mm AFF		NURSE CALL LAVATORY STATION	900mm TO 1100mr AS PER OBC 3.8.1.
$\oplus$	DUPLEX RECEPTACLE	CEILING	S ▼	NURSE CALL STAFF STATION CONSOLE	-
$\bigcirc$	JUNCTION BOX	AS NOTED		NURSE CALL TUB/SHOWER STATION	900mm TO 1100mr AS PER OBC 3.8.1
ው	CLOCK	2286mm AFF	Ň	NURSE CALL DOME LIGHT	AS NOTED
	MOTOR DISCONNECT SWITCH	1524mm AFF		TIONS	
	COMBINATION MANUAL STARTER	1524mm AFF	AFF	ABOVE FINISHED FLOOR	
N		1524mm AFF	AFG	ABOVE FINISHED GRADE	
$\boxtimes$	MAGNETIC STARTER	1524mm AFF	HOA	HAND OFF AUTO	
Ш	MANUAL MOTOR STARTER OR CONTACTOR	1524mm AFF	PL	PILOT LIGHT	
٨⁄	ELECTRICAL MOTOR OR MOTORIZED EQUIPMENT	-	HD	HAND DRYER	
	ELECTRICAL EQUIPMENT OR DEVICE AS NOTED	-	WG	WIRE GUARD	
5	VFD	-	с	DENOTES MOUNTED ABOVE COUNTER	
	CIRCUITING	-	m	DENOTES MOUNTED IN MILLWORK	
			-		
	CONDUIT	-	WM		
			WP	WEATHERPROOF	
EGEND N	NOTES:		EM	DENOTES CONNECTED TO EMERGENCY SUPPLY	
	S IS A STANDARD LEGEND. ALL SYMBOLS MAY NOT NECE DRAWINGS.	SSARILY BE USED	TL	TWIST LOCK	
			RA	REVERSE ACTING	
NOT	NDARD MOUNTING HEIGHTS SHOWN ON LEGEND SHALL ED OTHERWISE. ALL TRADES TO COORDINATE THESE H	-	FH	MANUAL PULL STATION MOUNTED IN FIRE HOSE CAI	BINET
INST	TALLATION		MD	MOTORIZED DAMPER	
	HEIGHTS THAT ARE NOT DICTATED THROUGH A CODE C	-			
INDI	ORDINATE WITH ARCHITECTURAL ELEVATIONS. WHERE A CATED, COORDINATE WITH THE ARCHITECTURAL DRAW		E	EXISTING TO REMAIN	
THE	SAME HEIGHT THROUGHOUT THE PROJECT.		R	EXISTING TO BE REMOVED	
			E/R	EXISTING TO BE RELOCATED	
			RP	REPLACE EXISTING HEAD END DEVICE WITH NEW	
			CLG	CEILING MOUNTED	
			010		

1. ELECTRICAL DOCUMENTS ARE BASED ON AVAILABLE INFORMATION, AND SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL, INTERIOR DESIGN, KITCHEN, MECHANICAL, ELEVATORS, AND LANDSCAPE CONSULTANT DOCUMENTS.

2. THE ROUTING OF SERVIES SHOWN ARE DIAGRAMMATIC TO SHOW DESIGN INTENT. 3. PROVIDE COMPLETE FIRE ALARM SYSTEM AS REQUIRED BY APPLICABLE CODES AND

4. PROVIDE ELECTRICAL COORDINATION WITH MECHANICAL EQUIPMENT SELECTION AND LOCATION. REFER TO MECHANICAL EQUIPMENT SCHEDULES FOR DETAILS. PROVIDE CONNECTION TO VFD's, STARTERS, SWITCHES, AND CONTROL BASED ON MECHANICAL DOCUMENTS. VERIFY THE FINAL LOCATION OF MECHANICAL EQUIPMENT PRIOR INSTALLATION.

5. THE ELECTRICAL DRAWINGS INCLUDE INDICATIVE LAYOUTS FOR SMALL POWER AND SYSTEM DEVICES. THE FINAL LOCATION AND ELEVATION OF ALL ELECTRICAL AND SYSTEM DEVICES TO BE COORDINATED WITH INTERIOR DESIGNER'S/ARCHITECT PACKAGE.

6. THE ELECTRICAL DRAWINGS INCLUDE LIGHTING LAYOUTS AND LIGHTNING CONTROL. FINAL LOCATION OF LIGHTING FIXTURES AND CONTROL DEVICES SHALL BE COORDINATED WITH ARCHITECT REFLECTED CEILING PLAN AND MECHANICAL LAYOUT.

7. REFER TO FF&E DOCUMENTS FOR ELECTRICAL AND SYSTEM REQUIREMENTS.

8. WIRELESS ACCESS POINTS (WAP) SHOWN HEREIN ARE ILLUSTRATIVE ONLY. FINAL QUANTITIES AND LAYOUTS SHALL ACCOUNT FOR ACTUAL FIELD CONDITIONS AND EQUIPMENT SELECTED. FULL COVERAGE IS REQUIRED.

9. DOOR HARDWARE SCHEDULE BY DOOR HARDWARE CONSULTANT. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR HOLD OPEN DEVICE LOCATIONS AND OTHER DOOR HARDWARE

10. CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULL BOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER THE SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE OF AS PER OWNER REQUIREMENTS AND ALL MARKING SHALL BE OF NON-ERASABLE LAMACOID TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANTS.

11. CONTRACTOR TO INCLUDE FOR PAYMENT OF REQUIRED PERMITS, FEE, LICENSE, CERTIFICATES OF INSPECTION ETC.. IF REQUIRED.

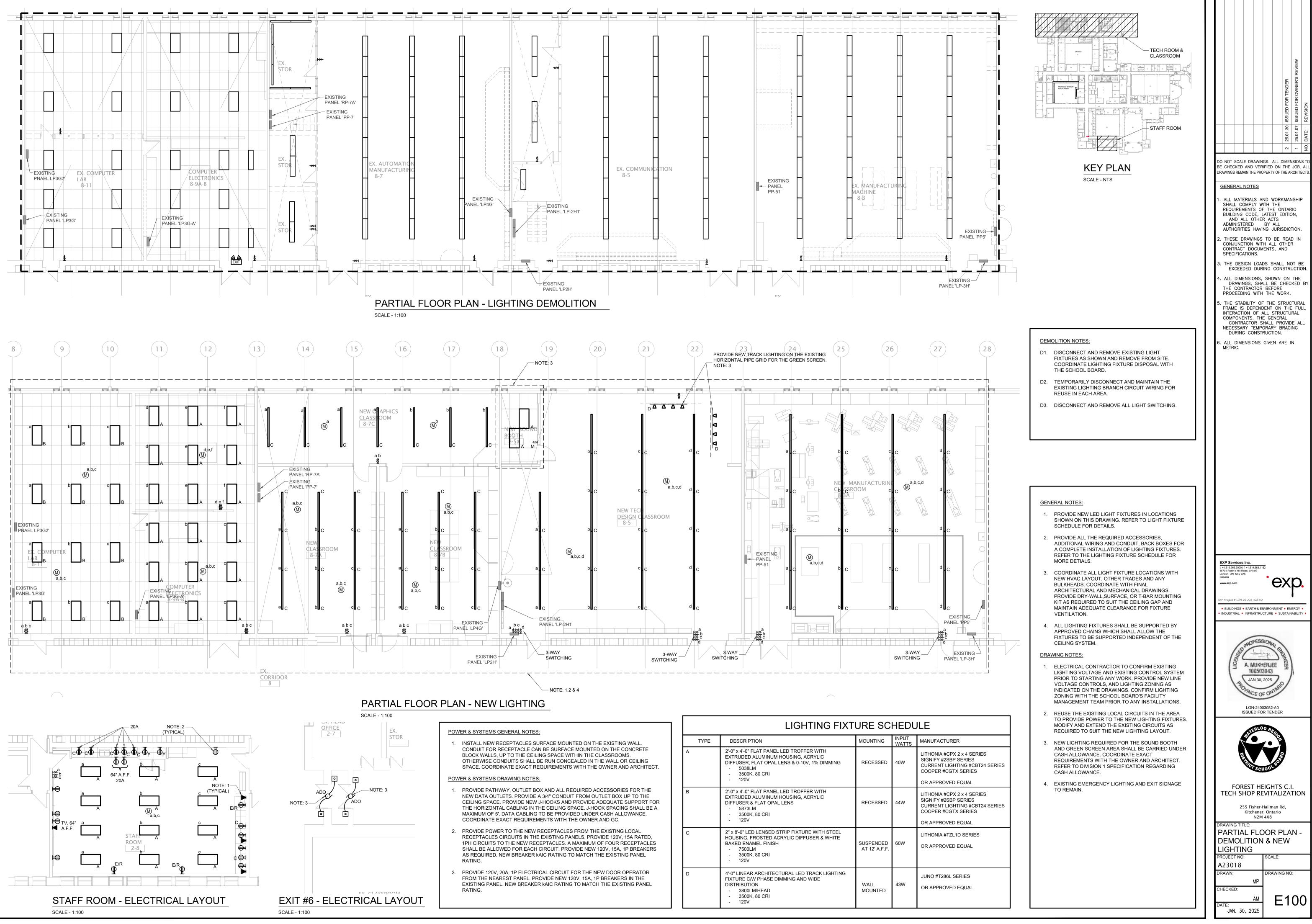
12. WIRING AND CABLES EXPOSED WITHIN THE CEILING SPACES SHALL CONFORM TO THE PLENUM REQUIREMENTS OF ONTARIO BUILDING CODE SENTENCE 3.6.4.3(1).

13. CABLE SIZES INDICATED ON DRAWINGS ARE THE MINIMUM SIZES AND SHALL BE INCREASED BASED ON ACTUAL ROUTING AND VOLTAGE DROP.

14. PROVIDE POWER AND DATA CONNECTIONS FOR ALL BAS PANELS REQUIRED ON PROJECT. COORDINATE WITH MECHANICAL CONTRACTOR AND BAS SUPPLIER FOR EXACT LOCATION AND

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JAN. 30, 2025



	LIGHTING FIXT	URE SC	HEDL	ILE
TYPE	DESCRIPTION	MOUNTING	INPUT WATTS	MANUFACTURER
A	2'-0" x 4'-0" FLAT PANEL LED TROFFER WITH EXTRUDED ALUMINUM HOUSING, ACRYLIC DIFFUSER, FLAT OPAL LENS & 0-10V, 1% DIMMING - 5038LM - 3500K, 80 CRI - 120V	RECESSED	40W	LITHONIA #CPX 2 x 4 SERIES SIGNIFY #2SBP SERIES CURRENT LIGHTING #CBT24 SERI COOPER #CGTX SERIES OR APPROVED EQUAL
В	2'-0" x 4'-0" FLAT PANEL LED TROFFER WITH EXTRUDED ALUMINUM HOUSING, ACRYLIC DIFFUSER & FLAT OPAL LENS - 5873LM - 3500K, 80 CRI - 120V	RECESSED	44W	LITHONIA #CPX 2 x 4 SERIES SIGNIFY #2SBP SERIES CURRENT LIGHTING #CBT24 SERII COOPER #CGTX SERIES OR APPROVED EQUAL
С	2" x 8'-0" LED LENSED STRIP FIXTURE WITH STEEL HOUSING, FROSTED ACRYLIC DIFFUSER & WHITE BAKED ENAMEL FINISH - 7500LM - 3500K, 80 CRI - 120V	SUSPENDED AT 12' A.F.F.	60W	LITHONIA #TZL1D SERIES OR APPROVED EQUAL
D	4'-0" LINEAR ARCHITECTURAL LED TRACK LIGHTING FIXTURE C/W PHASE DIMMING AND WIDE DISTRIBUTION - 3800LM/HEAD - 3500K, 80 CRI - 120V	WALL MOUNTED	43W	JUNO #T286L SERIES OR APPROVED EQUAL

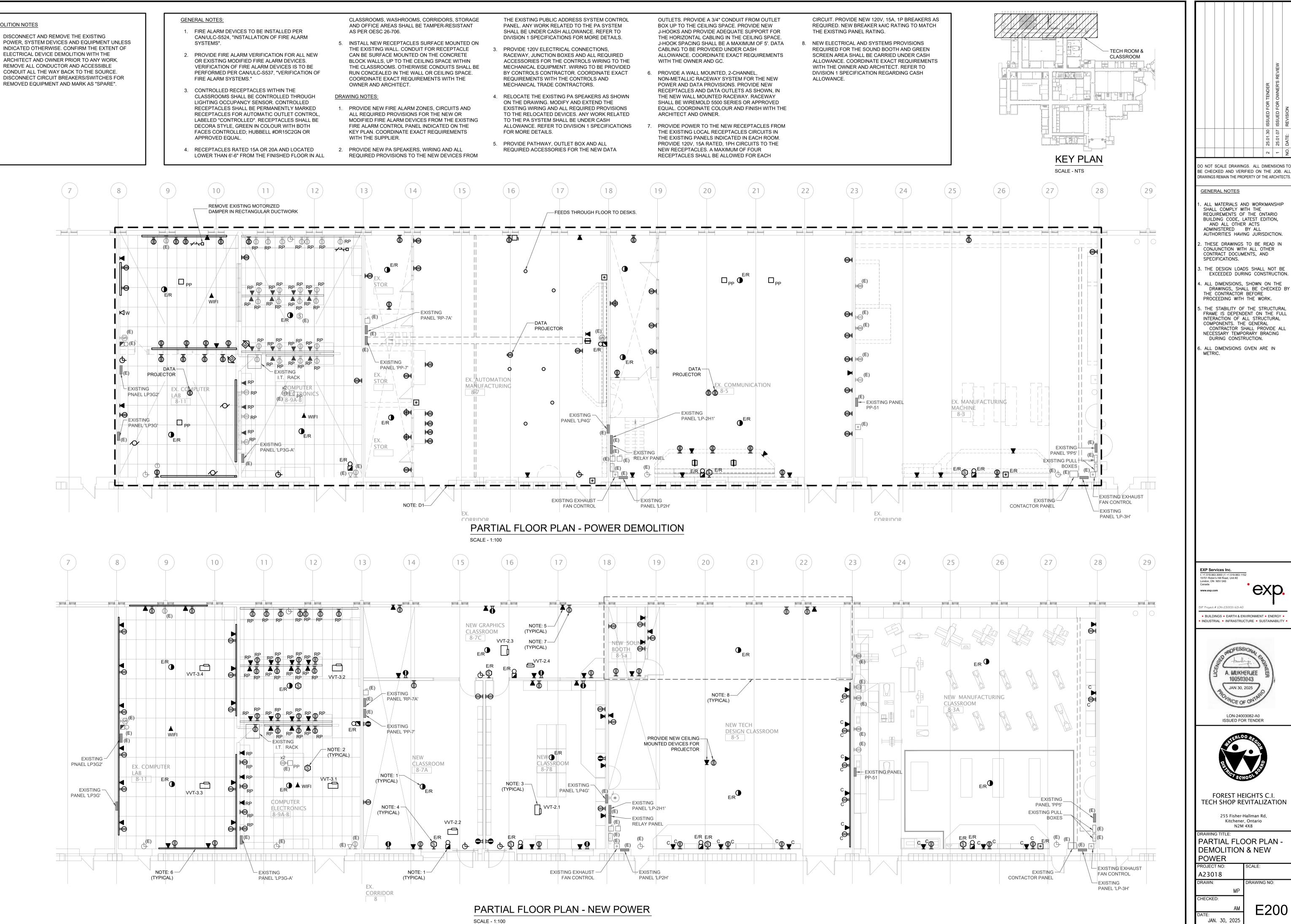


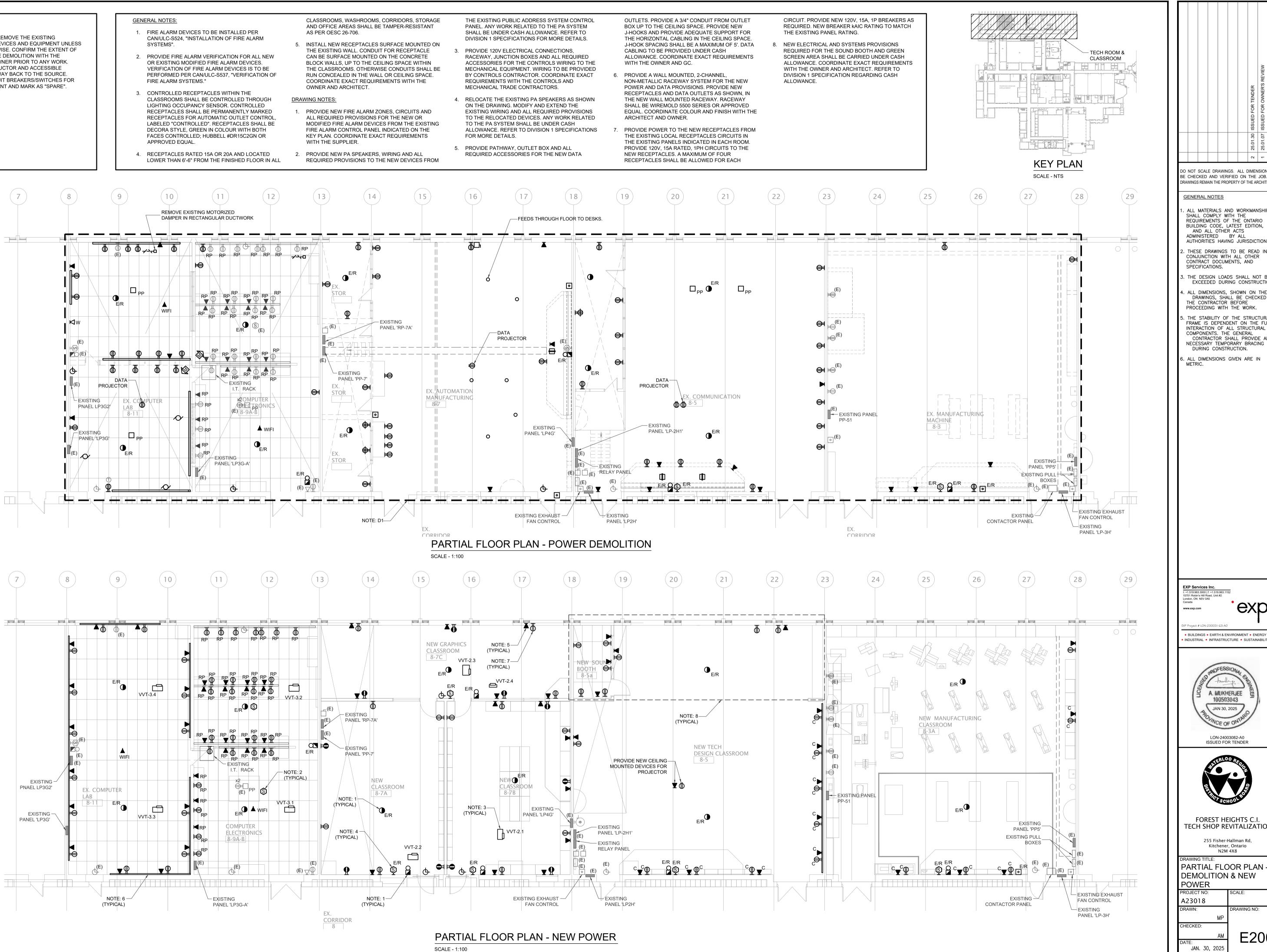
D1. DISCONNECT AND REMOVE THE EXISTING POWER, SYSTEM DEVICES AND EQUIPMENT UNLESS INDICATED OTHERWISE. CONFIRM THE EXTENT OF ELECTRICAL DEVICE DEMOLITION WITH THE ARCHITECT AND OWNER PRIOR TO ANY WORK. REMOVE ALL CONDUCTOR AND ACCESSIBLE CONDUIT ALL THE WAY BACK TO THE SOURCE. DISCONNECT CIRCUIT BREAKERS/SWITCHES FOR

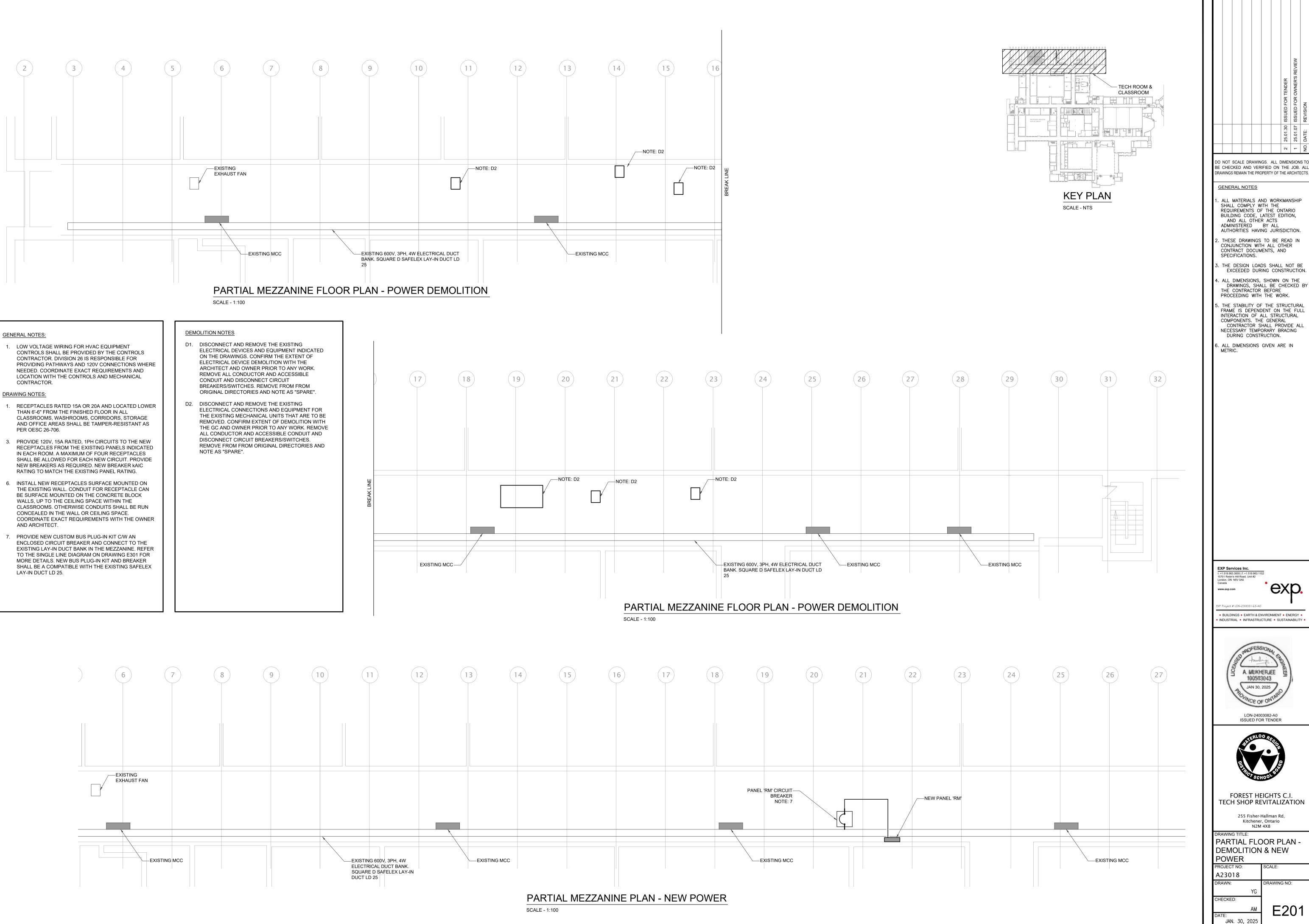
- SYSTEMS".
- OR EXISTING MODIFIED FIRE ALARM DEVICES. VERIFICATION OF FIRE ALARM DEVICES IS TO BE FIRE ALARM SYSTEMS."
- 3. CONTROLLED RECEPTACLES WITHIN THE CLASSROOMS SHALL BE CONTROLLED THROUGH LIGHTING OCCUPANCY SENSOR, CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED RECEPTACLES FOR AUTOMATIC OUTLET CONTROL, LABELED "CONTROLLED". RECEPTACLES SHALL BE DECORA STYLE, GREEN IN COLOUR WITH BOTH FACES CONTROLLED; HUBBELL #DR15C2GN OR

OWNER AND ARCHITECT.

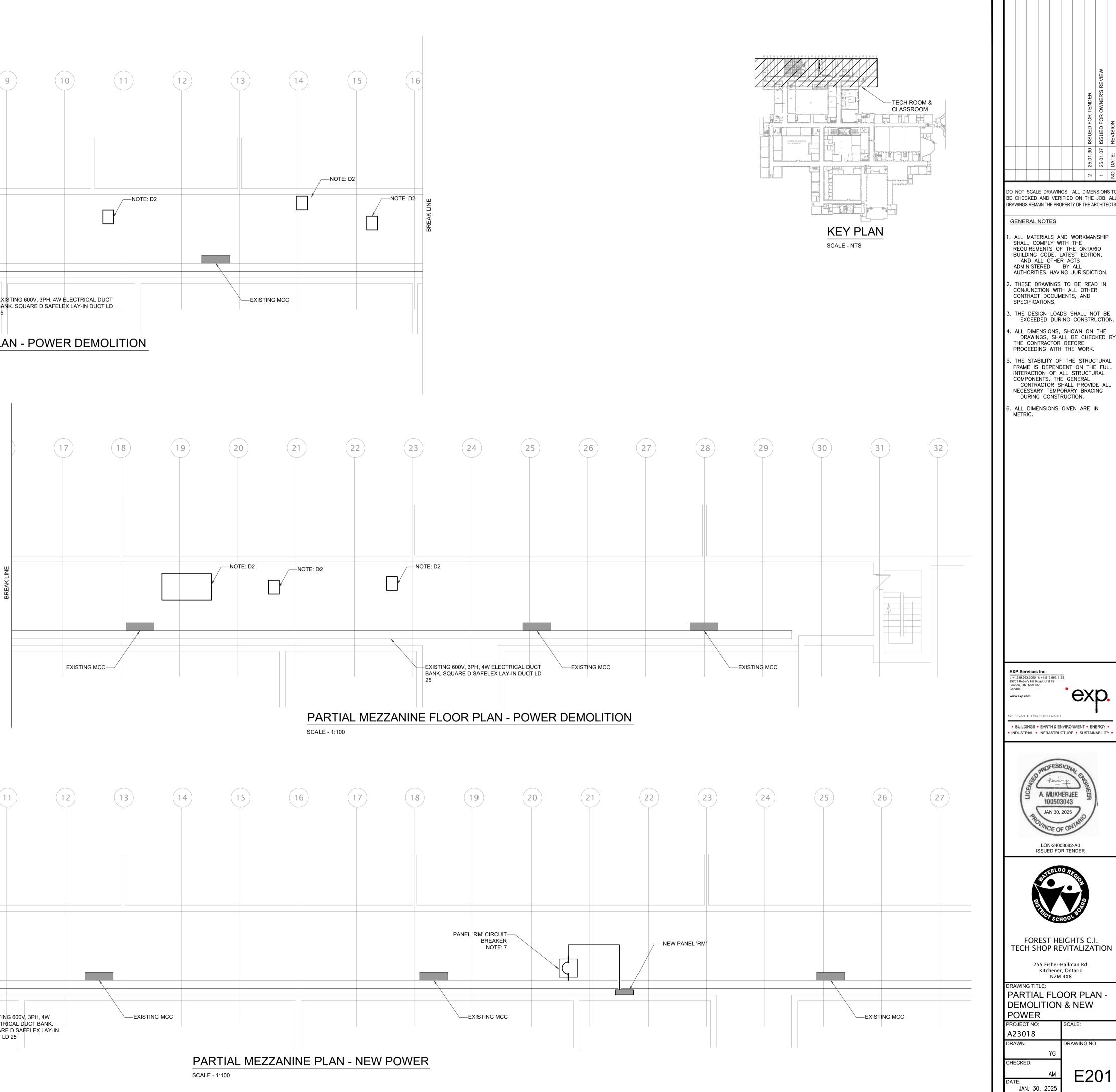
- WITH THE SUPPLIER.

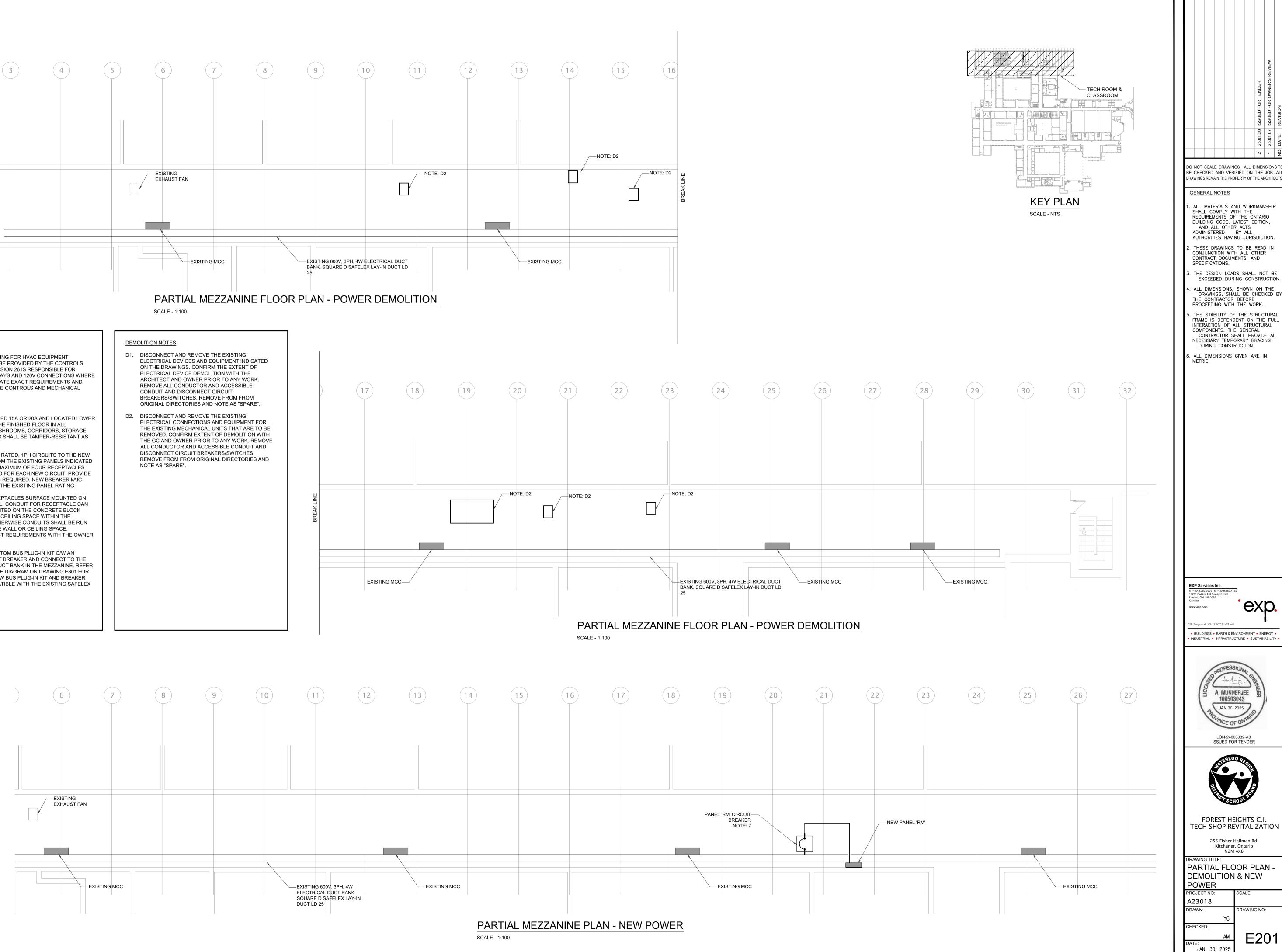


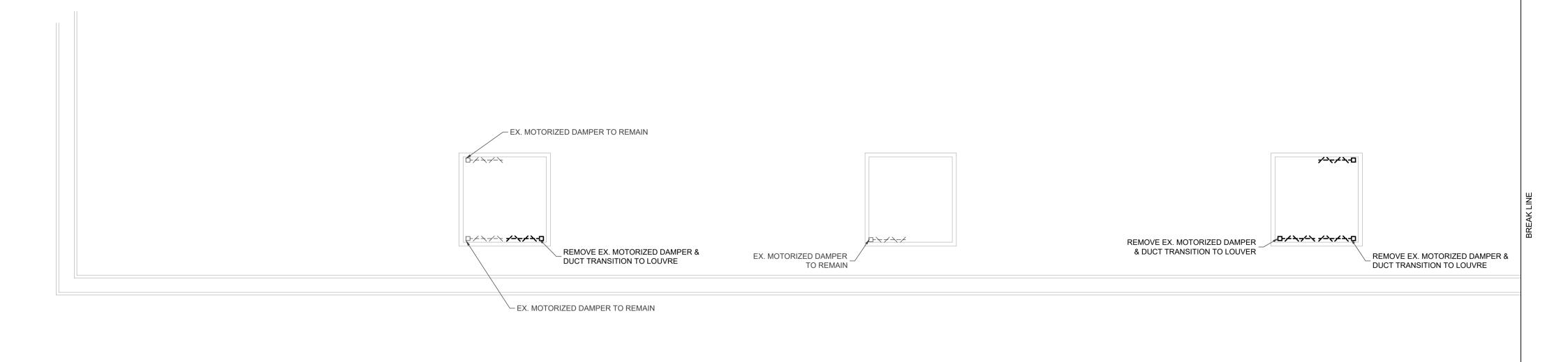




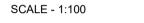










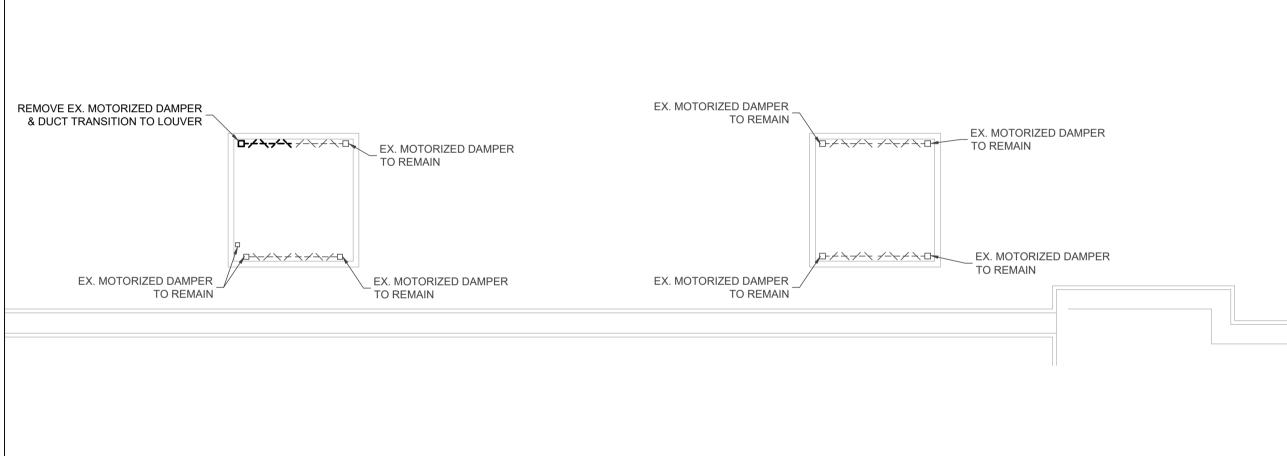


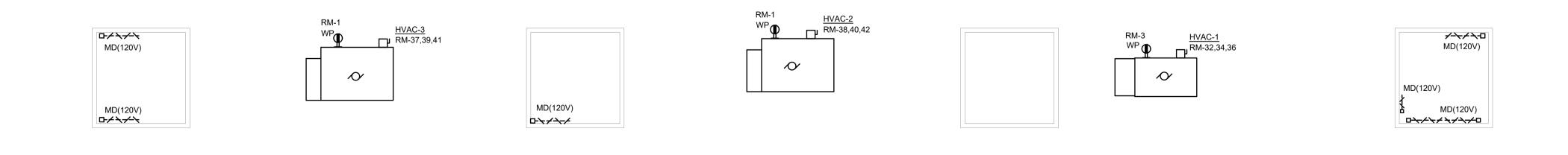
### GENERAL NOTES:

- 1. CONTROLLED RECEPTACLES WITHIN THE CLASSROOMS SHALL BE CONTROLLED THROUGH OCCUPANCY SENSOR AS DETAILED ON DRAWING E100A. CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED RECEPTACLES FOR AUTOMATIC OUTLET CONTROL, LABELED "CONTROLLED". RECEPTACLES SHALL BE DECORA STYLE, GREEN IN COLOUR WITH BOTH FACES CONTROLLED; HUBBELL #DR15C2GN OR APPROVED EQUAL.
- 2. LOW VOLTAGE WIRING FOR HVAC EQUIPMENT CONTROLS SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR. DIVISION 26 IS RESPONSIBLE FOR PROVIDING PATHWAYS AND 120V CONNECTIONS WHERE NEEDED. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH THE CONTROLS AND MECHANICAL CONTRACTOR.

### DEMOLITION NOTES

1. DISCONNECT AND REMOVE THE EXISTING ELECTRICAL DEVICES AND EQUIPMENT INDICATED ON THE DRAWINGS. CONFIRM THE EXTENT OF ELECTRICAL DEVICE DEMOLITION WITH THE ARCHITECT AND OWNER PRIOR TO ANY WORK. REMOVE ALL CONDUCTOR AND ACCESSIBLE CONDUIT AND DISCONNECT CIRCUIT BREAKERS/SWITCHES. REMOVE FROM FROM ORIGINAL DIRECTORIES AND NOTE AS "SPARE".





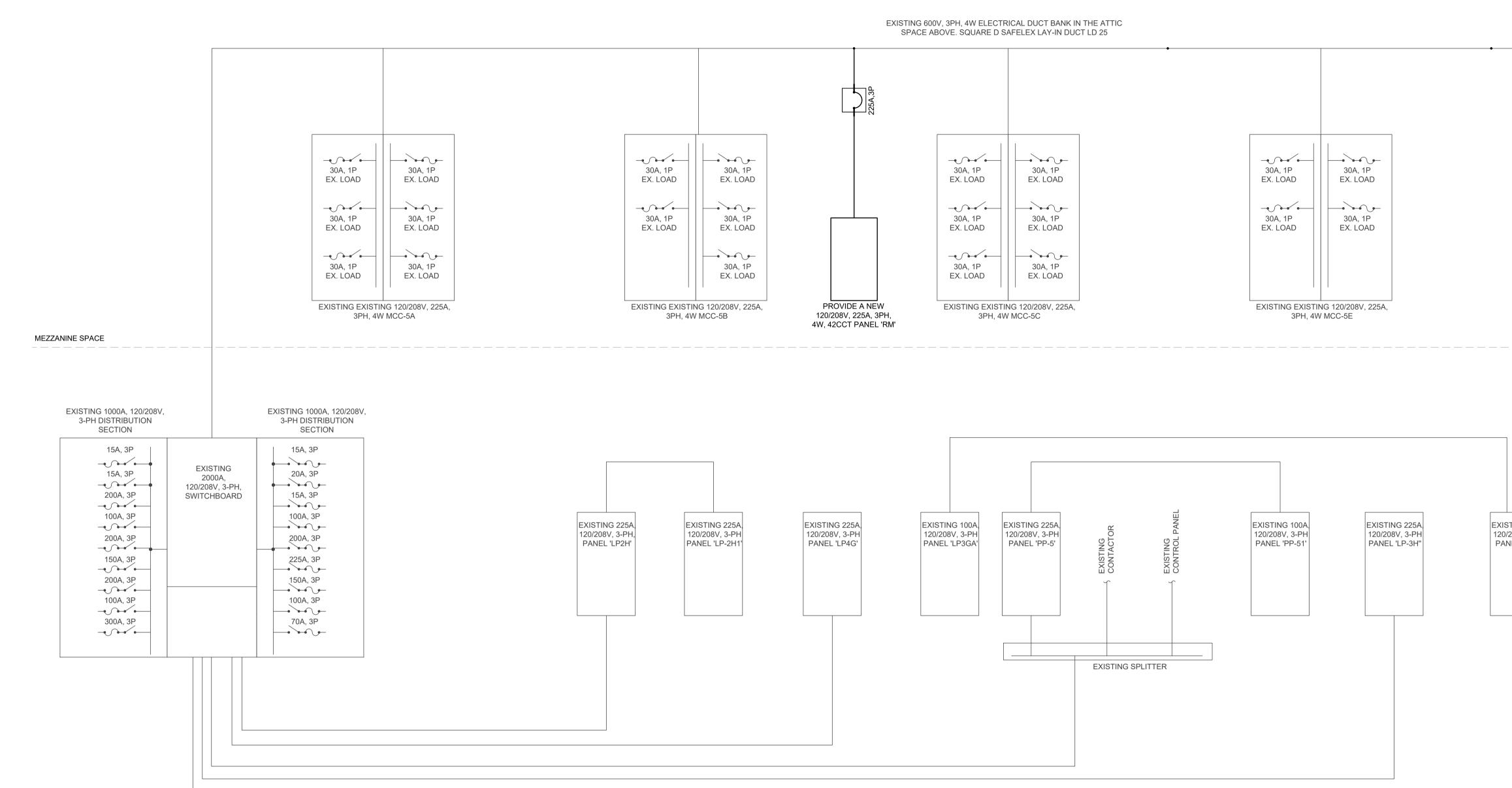
## PARTIAL ROOF PLAN - POWER DEMOLITION

### PARTIAL ROOF PLAN - POWER DEMOLITION SCALE - 1:100

## PARTIAL ROOF PLAN - NEW POWER

SCALE - 1:100

Image: Constrained state stat	Image: State of the structure of the struct
	EXP Services Inc.         Ex1.519.963.3000 [f: 11.519.968.1152         Stori Robins Hill Road, Unit #2         London, ON NSV 0A5         Canada         www.xp.com         EXP Project # LON-23003163-A0         EXP Project # LON-23003163-A0         BUILDINGS • EARTH & ENVIRONMENT • ENERGY •         • NDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •
D MD(120V) MD(120V) MD(120V) MD(120V) D レーン・シーン・マーン・ MD(120V) MD(120V)	A. MUKHERJEE       100503043         JAN 30, 2025       JAN 30, 2025         JAN 2007       JAN 30, 2025         JAN 30, 2025       JAN 30, 2025         JAN 30, 2025       JAN 30, 2025         JAN 2007       JAN 30, 2025         JAN 30, 2025       JAN 30, 2025         JAN 30, 2025       JAN 30, 2025         JAN 30, 2025       JAN 30, 2025         JAN 400       JAN 400



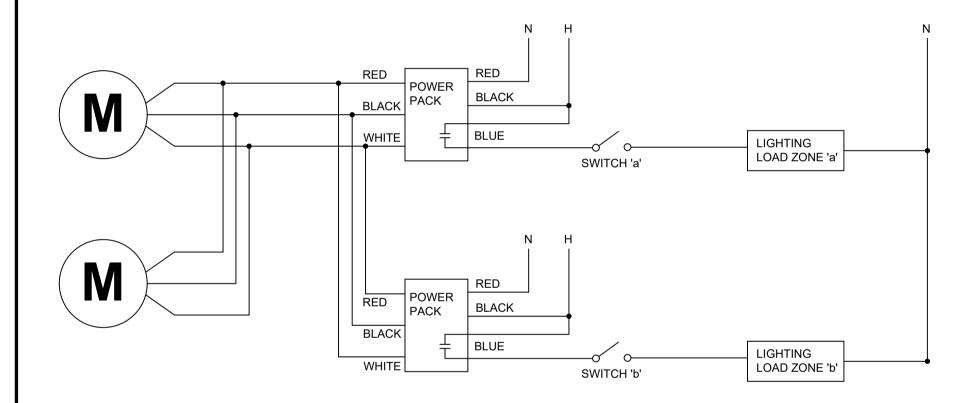
ELECTRICAL ROOM

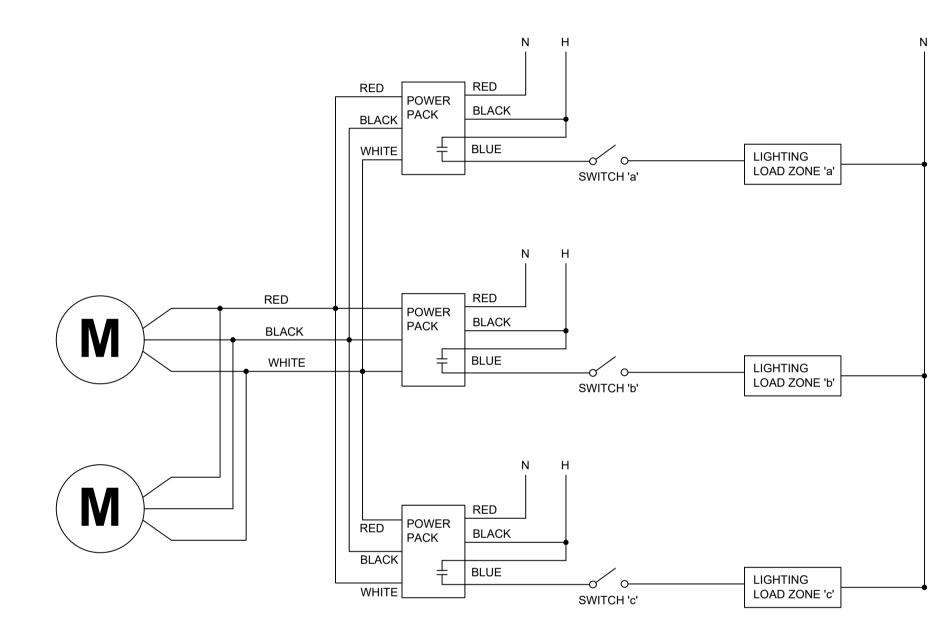
## ELECTRICAL RISER DIAGRAM

SCALE - 1:100

								ISSUED FOR TENDER	ISSUED FOR OWNER'S REVIEW	REVISION
								25.01.30	25.01.07	DATE:
	30A, 1P       30A, 1P         EX. LOAD       Image: Constraint of the second seco		BE C DRAW GE 1. A SI R AI 2. T C C C SI 3. T 4. A T PI 5. T FF IN C U NI 6. A	IHECKED INGS REMA INGS REMA INGS REMA INGS REMA ILL MATE HALL CC EQUIREM UILDING AND AL DMINISTE UTHORITI HESE DI ONJUNC ONTRACT PECIFICA HE DESI EXCEED ILL DIME RAME IS ITERACTI OMPONE CONTRA ECESSAF DURING	AND VE IN THE PI NOTES IRIALS INPLY IENTS C CODE, L OTH IES HA' RAWING TIONS IES HA' RAWING TIONS ISSIONS IGS, SH IRACTO NG WIT BILITY C DEPEN ON OF NTS. T ACTOR RY TEM 5 CONS	AND Y WITH - DF THI LATES ER AC BY J VING J S TO ITH AL IMENTS ADS S IRING S, SHO IALL E R BEF H THE DF THE NDENT ALL S HEL GE SHALL PORAR TRUCT	VORK THE E ON TET EL ST EL UURIS BE FI UURIS BE FI OURIS S, AN HALL CONS BE CI ORE E WO ON E STIL ON E STIL ON E STIL ON E STIL ON E ON	MAN: THE ARI HE ARI ITARI DITIO GDICT READ THER ID STRU ON RK. RUCT THE CTUF AL OVIDE RACIN	SIONS JOB. CHITE SHIP O N, ION. ION. ION. ION. T BE CTIC TURA FUL RAL	OZ STO ALL CTS. BY
1. NEW ELECTRICAL CIRCUIT BREAKER, PANEL AND EQUIPMENT SHALL BE FATED FOR A MINIMUM KAIC RATING TO MATCH THE EXISTING UPSTREAM EQUIPMENT.         1. NEW ELECTRICAL CIRCUIT BREAKER, PANEL AND EQUIPMENT SHALL BE FATED FOR A MINIMUM KAIC RATING TO MATCH THE EXISTING UPSTREAM EQUIPMENT.         1. NEW ELECTRICAL CIRCUIT BREAKER, PANEL AND EQUIPMENT SHALL BE TATED FOR A MINIMUM KAIC RATING TO MATCH THE EXISTING UPSTREAM EQUIPMENT.         1. NEW ELECTRICAL CIRCUIT BREAKER, PANEL AND EQUIPMENT.         1. NEW ELECTRICAL RISER         1. NEW ELECTRICAL			t: +1.6 15701 Londo Canac www. EXP Pr	519.963.3000   1 Robin's Hill Ro hojent y Hill Ro da exp.com exp.com	: +1.519.963 ad, Unit #2 5 :3003   63- EARTH &					
FOREST HEIGHTS C.I. TECH SHOP REVITALIZATION 255 Fisher-Hallman Rd, Kitchener: Ontario N2M 4X8 DRAWING TITLE ELECTRICAL RISER DIAGRAM PROJECT NO: SCALE: A23018 DRAWING NO: YC CHECKED: M F300	1. NEW ELECTRICAL CIRCUIT BREAKER, PAN EQUIPMENT SHALL BE RATED FOR A MININ RATING TO MATCH THE EXISTING UPSTRE	MUM kAIC		ON DOLO	A. MUK 1005 JAN 3 VINCE	HERJE 03043 0, 2025 0F ON 003082	A0			
DATE: JAN. 30, 2025			DRAV EL DI/ PRO. A2 DRAV CHEQ	FOR FOR CH SH 25 WING TIT ECTR AGRA JECT NO: 3018 WN: CKED:	HIGT SC EST H HOP R 5 Fishe Kitchen N2 LE: RICA M	00 RE DHOON EEVIT r-Hallm er, Ont M 4X8 L RI SCA	ALL:	С.І. ZAT н, R		

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	EQUIPMENT		LOCATION			LOAD									START	ERS										PROTECTIC	ON & FEEDER			DISCO	ONNECT	-		CONT	FROL		ľ	NTERLOC	ж	CODES
EQUIPMENT NUMBER	NAME OR DESCRIPTION	SUPPLIER CODE		HORSEPOWER	KW	AMPS (MCA)	VOLTAGE	PHASE	PACKAGED WITH EQUIPMENT	OTHER	SIZE	MANUAL	MAGNETIC	COMBINATION	H-O-A SELECTOR SWITCH	OFF-LOW-HIGH SELECTOR SWITCH	START - STOP PUSH BUTTON	PILOT LIGHT(S)	CONTROL VOLTAGE	AUXILIARY CONTACTS (NO.)	AUXILIARY CONTACTS (N.C.)	SUPPLIER CODE	O.C. PROTECTION TYPE (B- BREAKER, F- FUSE)	AMP RATING	NUMBER OF POLES	CIRCUIT NUMBER	ALL WIRE SIZES ALL WIRE SIZES BASED ON R90 XLPE COPPER UNLESS NOTED OTHERWISE.		SUPPLIER CODE	AMP RATING	NUMBER OF POLES SUPPLIER CODF		THERMOSTAT (REVERSE ACTING WHERE NOTED)		UILDING AUTOMATION SYSTEN 20/1/60 15A-1P, 24VAC COIL AGNETIC CONTACTOR	FIRE ALARM SHUTDOWN	SUPPLIER CODE	INTERLOCK WITH	2 3 4 5 6 6 7 7	SUPPLIED, INSTALLED, AND WIRED BY DIV. 25. SUPPLIED AND INSTALLED BY DIV. 25 AND WIRED BY DIV. 26 SUPPLIED BY DIV. 25 INSTALLED AND WIRED BY DIV. 26. SUPPLIED, INSTALLED AND WIRED BY DIV. 26. SUPPLIED BY OTHERS INSTALLED AND WIRED BY OTHERS INSTALLED BY DIV. 25 WIRED BY DIV. 26. SUPPLIED BY OTHERS INSTALLED AND WIRED BY DIV. 26. SUPPLIED BY OTHERS INSTALLED AND WIRED BY DIV. 26. REMARKS
HVAC-1	AIR HANDLING UNIT	2	ROOF	-	-	42.7	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	В	60	3	PANEL RM	3-#6 CU. + 1-#10 GND	1" CONDUIT	4	60	3 4	4 -	-	-	<b>)</b> -	-				
HVAC-2	AIR HANDLING UNIT	2	ROOF	-	-	76.3	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	в	110	3	PANEL RM	3-#2 CU. + 1-#6 GND	1 1/2" CONDUIT	4 2	200	3 4	1 -	-	-	D -	-				
HVAC-3	AIR HANDLING UNIT	2	ROOF	-	-	76.3	208	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	в	110	3	PANEL RM	3-#2 CU. + 1-#6 GND	1 1/2" CONDUIT	4 2	200	3 4	1 -	-	-	D -	-				
MD(120V)	MOTORIZED DAMPER	2	REFER TO DWGS	FHP	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	в	15	1	PANEL RM	2-#12 CU. + 1-#12 GND	3/4" CONDUIT	4	-			-	-	<b>)</b> -	-				
VVT-2.#	VVT BOX	2	REFER TO DWGS	FHP	-	-	120	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	в	15	1	PANEL RM	2-#12 CU. + 1-#12 GND	3/4" CONDUIT	4	-			-	-	) -	-				





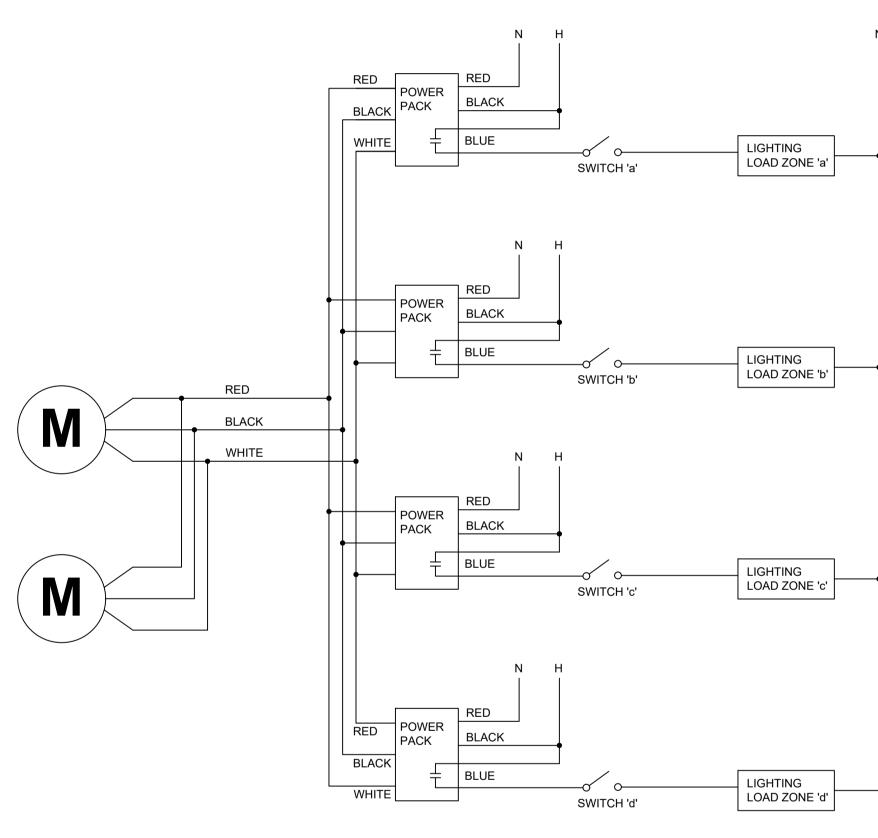
## 2 ZONE LIGHTING CONTROL SCHEMATIC

SCALE - NTS



SCALE - NTS

ANEL	LOCATION	VOLTAGE	PHASE	WIRE	M A	AINS	MCB	A.I.C.	ENCLOSURE	MOUNTING	FED FR	ОМ
RM	MEZZANINE	120 / 208	3	4	22	25A		NOTE:1	NEMA 1	SURFACE	BUS	
•	LOAD DESCRIPTION	VA	CB OPT	СВ	PH	СВ	CB OPT	VA	LOA	D DESCRIPTION	l	ССТ
ROOF	MAINTENANCE RECEPTA	ACLE 400		20	А	15		400	VVT CONTROL	PANEL		2
ROOF	MAINTENANCE RECEPTA	ACLE 400		20	В	15		400	VVT CONTROL	PANEL		4
MD (1	20V)	800		15	С	15		800	MD (120V)			6
SPAR	E			20	А	15			SPARE			8
SPAR	E			20	В	15			SPARE			10
SPAC	E				С				SPACE			12
SPAC	E				А				SPACE			14
SPAC	E				В				SPACE			16
SPAC	E				С				SPACE			18
SPAC	E				Α				SPACE			20
SPAC	E				В				SPACE			22
SPAC	E				С				SPACE			24
SPAC	E				А				SPACE			26
SPAC	E				В				SPACE			28
SPAC	E				С				SPACE			30
SPAC	E				А			4,200				32
SPAC	E				В	60		4,200	]	HVAC-1		34
SPAC	E				С			4,200				36
		7,400			А			7,400				38
	HVAC-3	7,400		110	В	110		7,400		HVAC-2		40
		7,400			С			7,400				42
B OPT:	ST - SHUNT TRIP							P	HASE TOTALS	KVA	AMPS	-
	AF - ARC FAULT CIRCUIT								PHASE-A	19.8	165.0	
	GF - GROUND FAULT CI	RCUIT INTERRUPT	ER						PHASE-B	19.8	165.0	
	FR - 100% RATED								PHASE-C	20.6	171.7	
	L - LOCKABLE											-
								TOTAL		60.2	167.1	
	NOTES:											
	1. PANEL KAIC RATING S	HALL MATCH THE	EXISTING	<b>UPST</b>	REAN	I BUS	RATING					
	2.											
	3.											



SCALE - NTS

## 4 ZONE LIGHTING CONTROL SCHEMATIC

							ISSUED FOR TENDER	ISSUED FOR OWNER'S REVIEW	sion
									E: REVISION
							2 25.01.30	1 25.01.07	NO. DATE:
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t: +1 157/ Loni Can WW		3.3000   's Hill Re N5V 0A om # LON-2	f: +1.519 bad, Unit 5 23003	1 63-A0	• NVIROI				
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