

Architectural Addendum No. 03

date July 6, 2026

project University of Toronto – Dentistry Clinic 2 Renovation

**project/file
no.** 24082 (UofT Project Number: P065-21-050)

It is the intent of this addendum that the revisions generally described herein shall be understood to affect all pertinent contract documents including drawings, details, specifications, and schedules. It is agreed that the attached descriptions and detailed sketches represent a guide to scope changes and are not intended to comprise an exhaustive list. It is the responsibility of the Contractor to ensure complete coordination of all sub-trades whether directly or indirectly affected by these revisions.

A REVISIONS TO PROJECT MANUAL

Make the following amendments and additions to the Specifications and include this cost in the Contract Price. These revisions have been ~~struck-out~~ for removed items and ***bolded and italicized*** for added items in the attached documents.

No revisions.

B REVISIONS TO DRAWINGS

Make the following amendments and additions to the Drawings and include this cost in the Contract Price. These revisions have been clouded on attached drawings.

Revisions have been made on the following Architectural sheets below. Revisions are clouded and tagged on each sheet.

B1. Sheet A1501 – Patient Lobby & Parking Garage Reflected Ceiling Plans

- B1.1.** Drawing 2/A1501 – **ADD** EXP exposed ceiling tag to south east portion of ceiling in Waiting Room/Lobby (M200).
- B1.2.** Drawing 2/A1501 – **ADD** Renovation Keynote R22 to south east portion of ceiling in Waiting Room/Lobby (M200).
- B1.3.** Renovation Keynotes – **ADD** Renovation Keynote R22.
- B1.4.** Reflected Ceiling Plan Legend – **REMOVE** “Refer to finish schedule for paint” note under Exposed Ceiling.

B2. Sheet A1502 – Level 1 Reflected Ceiling Plan

- B2.1.** Reflected Ceiling Plan Legend – **REMOVE** “Refer to finish schedule for paint” note under Exposed Ceiling.

B3. Sheet A1503 – Level 2 Reflected Ceiling Plan

- B3.1.** Reflected Ceiling Plan Legend – **REMOVE** “Refer to finish schedule for paint” note under Exposed Ceiling.

B4. Sheet A1504 – Level 3 Reflected Ceiling Plan

- B4.1.** Reflected Ceiling Plan Legend – **REMOVE** “Refer to finish schedule for paint” note under Exposed Ceiling.

B5. A3302 – Wall Sections – Patient Lobby

- B5.1.** Drawing 5/A3302 – **REMOVE** RB1 resilient base.

B6. A5201 – Roof Details

- B6.1.** Drawing 4/A3302 – **REVISE** note about painting ceiling.

B7. A6102 – Schedule – Doors and Screens

- B7.1.** Door Schedule – **REVISE** panel type from A to B for doors 135K, 202K, 202V, and 219.
- B7.2.** Door Schedule – **REMOVE** glazing from door 226C.

C ATTACHMENTS

C.1 Architectural drawings: 7 pages, issued by Montgomery Sisam Architects and Kahler Slater on July 6, 2026.

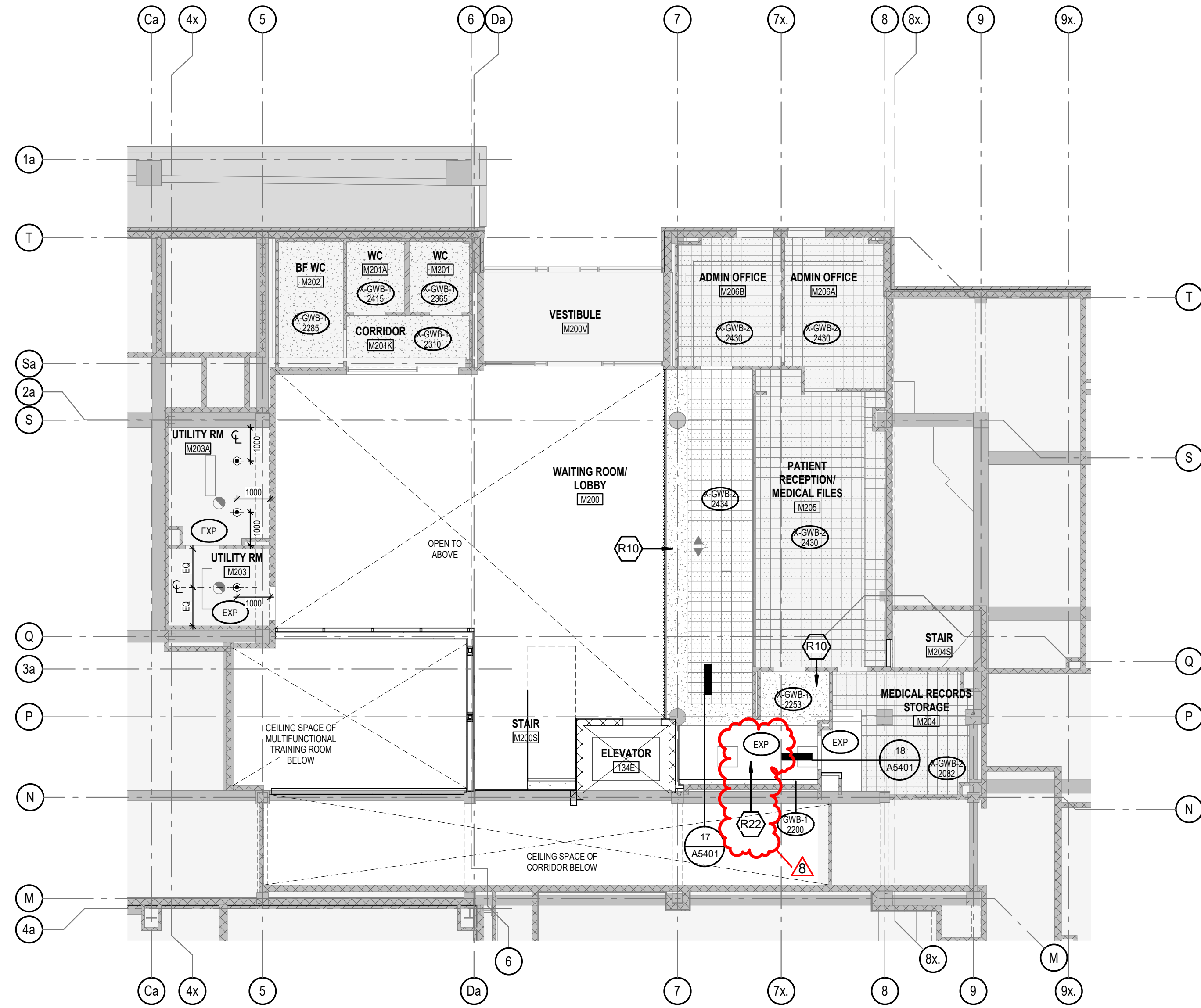
C.2 Mechanical Addendum No. 2: 1 page, issued by EXP on July 2, 2026.

C.3 Mechanical drawings: 2 pages, issued by EXP on July 2, 2026.

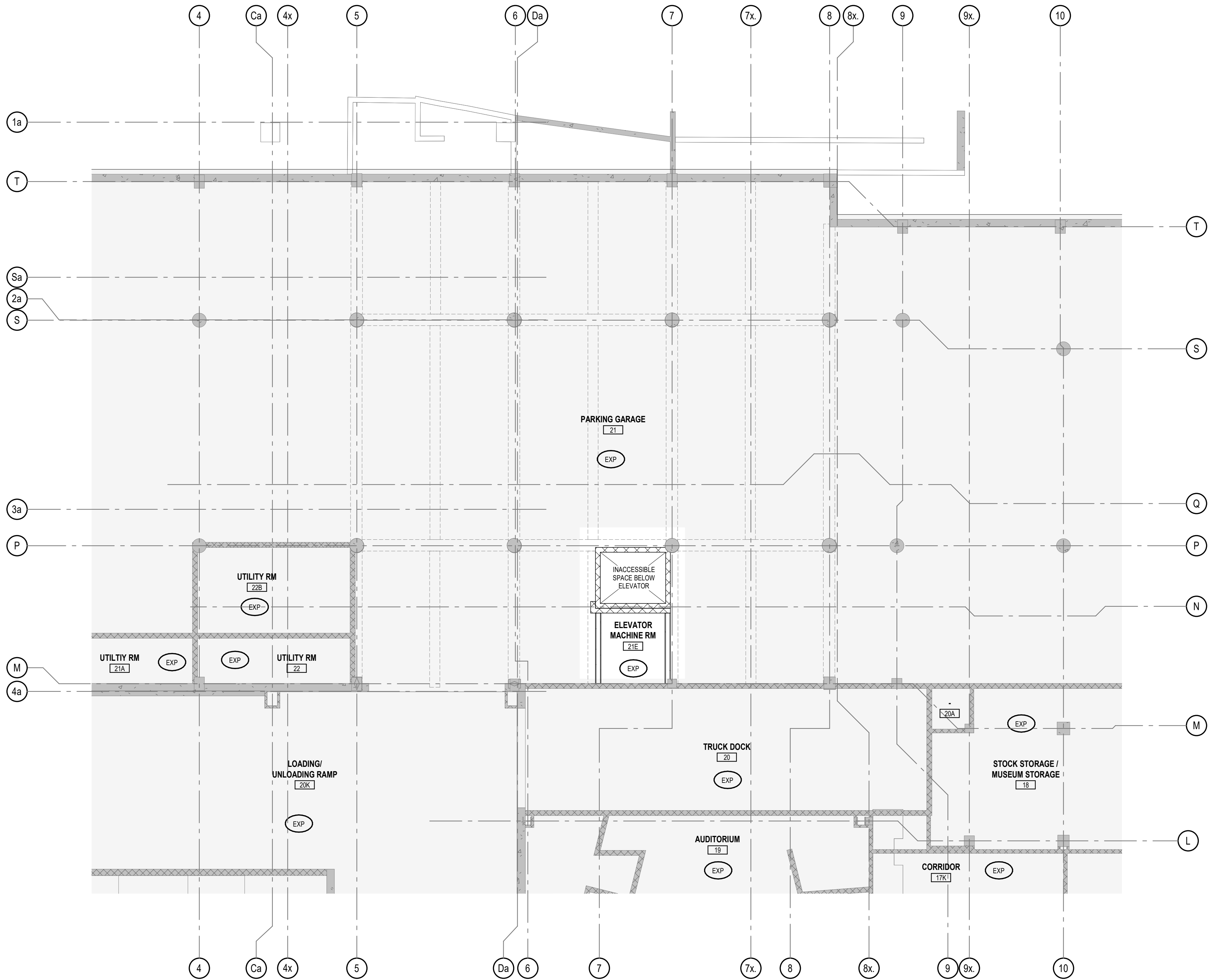
C.4 Electrical Addendum No. 3: 2 pages, issued by EXP on July 3, 2026.

----- END OF ADDENDUM NO. 3 -----

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2 PATIENT LOBBY - REFLECTED CEILING PLAN
1 : 100



1 PARKING GARAGE - REFLECTED CEILING PLAN
1 : 100

REFLECTED CEILING PLAN LEGEND

- ACT-1 ACOUSTIC CEILING TILE - 610 x 610mm
- ACT-1A ACOUSTIC CEILING TILE - 610 x 610mm W/ 50mm ACOUSTIC INSULATION ABOVE
- ACT-2 ACOUSTIC CEILING TILE - 610 x 1220mm
- X-ACT-1 EXISTING CLIP-IN METAL ACOUSTIC CEILING TILES. TYP. PANEL SIZE 610 x 305mm OR 615 x 305mm. SIZE VARIES.
- X-ACT-2 EXISTING ACOUSTIC CEILING TILE - 610 x 1220mm
- X-ACT-3 EXISTING ACOUSTIC CEILING TILE - 610 x 610mm
- GWB-1 GYPSUM BOARD CEILING ONE LAYER 16mm GWB ON STEEL STUD
- GWB-1A GYPSUM BOARD CEILING ONE LAYER 16mm GWB ON STEEL STUD 50mm ACOUSTIC INSULATION ABOVE
- GWB-2 GYPSUM BOARD CEILING THREE LAYERS 16mm TYPE X GWB ON STEEL STUD. ULC S101
- X-GWB-1 EXISTING GWB ON STEEL STUD. THICKNESS OF GWB AND STUD SIZE VARIES
- X-GWB-2 EXISTING 305 x 305mm ACOUSTIC TILE LAMINATED TO GWB ON STEEL STUD. THICKNESS OF GWB AND STUD SIZE VARIES
- WDP-1 WOOD VENEER PANEL
- EXP EXPOSED CEILING
- AREA NOT IN SCOPE. EXISTING TO REMAIN

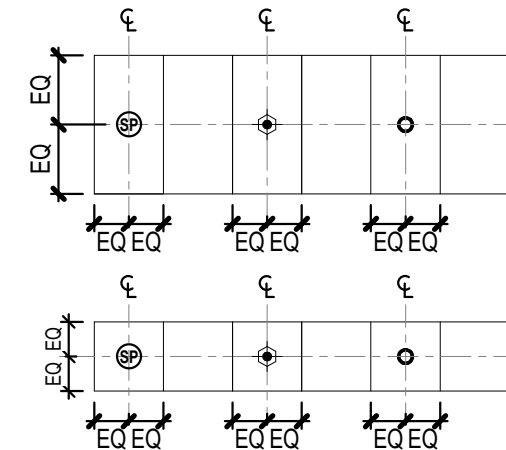
- SQUARE DIFFUSER - REFER TO MECHANICAL
- CIRCULAR DIFFUSER - REFER TO MECHANICAL
- LINEAR DIFFUSER/RETURN - REFER TO MECHANICAL
- RETURN GRILLE - REFER TO MECHANICAL
- EXHAUST GRILLE - REFER TO MECHANICAL
- SPRINKLER HEAD - REFER TO MECHANICAL
- SHAFT OPENING
- ACCESS PANEL - COORDINATE WITH MECHANICAL

- EXIT SIGN - REFER TO ELECTRICAL
- SMOKE DETECTOR - REFER TO ELECTRICAL
- DUCT SMOKE DETECTOR - REFER TO ELECTRICAL
- HEAT DETECTOR - REFER TO ELECTRICAL
- STROBE LIGHT - REFER TO ELECTRICAL
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- 2x2 LIGHT FIXTURE - REFER TO ELECTRICAL
- 1'x4' LIGHT FIXTURE - REFER TO ELECTRICAL
- 2'x4' LIGHT FIXTURE - REFER TO ELECTRICAL
- CEILING MOUNTED EXAM LIGHT - REFER TO ELECTRICAL
- CCTV CAMERA
- AUTOMATIC ROLLER SHADE, BLACK-OUT

REFLECTED CEILING PLAN GENERAL NOTES

- REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ACTUAL FIXTURE TYPES, QUANTITIES AND LOCATIONS, AND COORDINATE THE WORK WITH THESE PLANS.
- ALL EXPOSED ROUTING OF ELECTRICAL SERVICES ON CEILING LEVELS ABOVE TO BE REVIEWED ONSITE WITH ARCHITECT PRIOR TO INSTALLATION
- UNLESS OTHERWISE NOTED, CEILING MOUNTED DEVICES IN ACT TILES TO BE LOCATED IN CENTRE OF TILE
- PROVIDE CONCEALED BRACING TO Laterally STABILIZE SUSPENDED CEILINGS WHERE CEILINGS ARE NOT FASTENED TO WALLS
- PROVIDE ENGINEERED STEEL STUD FRAMING ABOVE ENCLOSED OP CEILING TO SUPPORT MECHANICAL AND ELECTRICAL FIXTURES.
- LIGHT FIXTURES AND CEILING TILE LAYOUT IN ENCLOSED OPERATORIES SHALL BE CENTERED ABOVE THE CENTERLINE OF THE DENTAL CHAIR.

RCP TYPICAL DIMENSIONS



- ALIGN ELECTRICAL AND MECHANICAL CEILING MOUNTED ELEMENTS AND CEILING ACCESS PANELS TO CENTRELINE OF ACOUSTIC CEILING TILE, UNLESS OTHERWISE NOTED.



- EXIT SIGN CENTERED AT DOOR OF ASSOCIATED ROOM.

RENOVATION KEYNOTES

#	DESCRIPTION
1	REPAIR NEW PAINT PANELS ON US OF EXISTING EXPOSED CEILING TO BE PAINT PROTECT.

Montgomery Sisam Architects Inc.

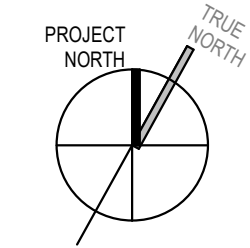
187 Spadina Avenue, Toronto, Ontario M5T 2C8 montgomerysisam.com
Tel 416.364.8079 Fax 416.364.7723

MontgomerySisam

Kahler Slater Inc.

730 N. Water Street, Suite 1700, Milwaukee WI 53202
kahlerslater.com Tel. 414.272.2030

Kahler Slater



#	DATE	REVISION	BY
1	2025-07-03	ISSUED FOR TENDER	MSAKS
2	2025-07-03	ISSUED FOR 10% CD	MSAKS
3	2025-07-03	ISSUED FOR BUILDING PERMIT	MSAKS
4	2025-07-03	ISSUED FOR 30% CD	MSAKS
5	2025-07-03	ISSUED FOR 10% CD	MSAKS
6	2025-07-03	ISSUED FOR 30% CD	MSAKS
7	2025-07-03	ISSUED FOR 10% CD	MSAKS
8	2025-07-03	ISSUED FOR 30% CD	MSAKS

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UNIVERSITY OF TORONTO
DENTISTRY BUILDING - CLINIC 2
RENOVATION
24082

124 EDWARD STREET
TORONTO, ON M5G 1G8

PATIENT LOBBY & PARKING
GARAGE REFLECTED CEILING
PLANS

SCALE: 1 : 100

DRAWN BY: Author

REVIEWED BY: Checker

JOB NUMBER: 24082

PLOT DATE: 02/27/25

DRAWING NUMBER:

A1501

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1 LEVEL 1 - REFLECTED CEILING PLAN
1:100



REFLECTED CEILING PLAN LEGEND

- ACT-1 ACOUSTIC CEILING TILE - 610 x 610mm
- ACT-1A ACOUSTIC CEILING TILE - 610 x 610mm W/ 50mm ACOUSTIC INSULATION ABOVE
- ACT-2 ACOUSTIC CEILING TILE - 610 x 1220mm
- X-ACT-1 EXISTING CLIP-IN METAL ACOUSTIC CEILING TILES. TYP. PANEL SIZE 610 x 305mm OR 615 x 305mm. SIZE VARIES.
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- EXP EXPOSED CEILING
- AREA NOT IN SCOPE, EXISTING TO REMAIN

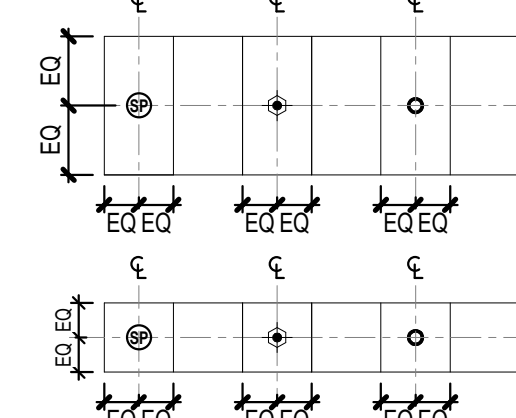
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- ACCESS PANEL - COORDINATE WITH MECHANICAL

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- AUTOMATIC ROLLER SHADE, BLACK-OUT

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RCP TYPICAL DIMENSIONS



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- EXIT SIGN CENTERED AT DOOR OF ASSOCIATED ROOM.

RENOVATION KEYNOTES

#	DESCRIPTION
R1	NEW GWB CEILING UNDER STAIRS
R2	NEW 1'X4' LIGHT FIXTURE, REFER TO ELEC.
R3	NEW 2'X4' LIGHT FIXTURE, REFER TO ELEC.
R4	NEW 2'X4' LIGHT FIXTURE, REFER TO ELEC.
R5	NEW 2'X4' LIGHT FIXTURE, REFER TO ELEC.
R6	EXISTING BULKHEAD TO REMAIN, PROTECT FROM DAMAGE

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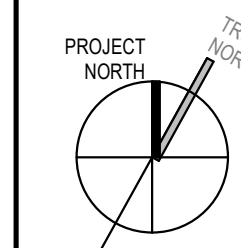
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#	DATE	REVISION	BY
1	10/17/22	ISSUED FOR 10% SCHEMATIC DESIGN	MSAKS
2	11/2/2025	DO PROGRESS SET	MSAKS
3	11/2/2025	ISSUED FOR 10% CD	MSAKS
4	11/2/2025	ISSUED FOR CLINIC 1 CEILING 100% SD	MSAKS
5	11/2/2025	ISSUED FOR CLINIC 1 CEILING 100% SD	MSAKS
6	11/2/2025	ISSUED FOR BUILDING PERMIT	MSAKS
7	11/2/2025	ISSUED FOR 10% CD	MSAKS
8	11/2/2025	ISSUED FOR 10% CD	MSAKS
9	11/2/2025	ISSUED FOR 10% CD	MSAKS
10	11/2/2025	ISSUED FOR ADDENDUMS 01	MSAKS
11	11/2/2025	ISSUED FOR ADDENDUMS 02	MSAKS
12	11/2/2025	ISSUED FOR ADDENDUMS 03	MSAKS

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UNIVERSITY OF TORONTO
DENTISTRY BUILDING - CLINIC 2
RENOVATION
24082

124 EDWARD STREET
TORONTO, ON M5G 1G8

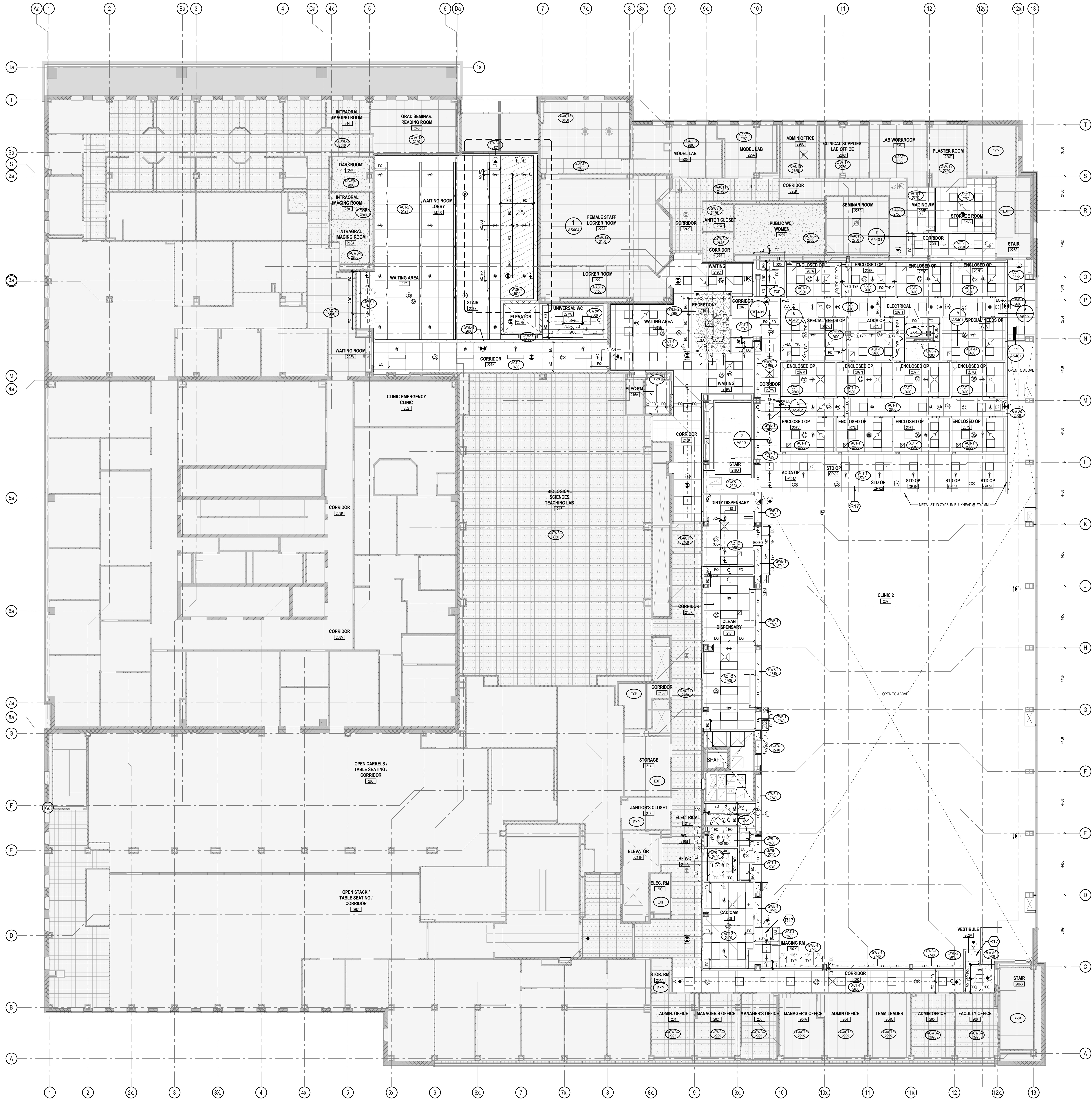
LEVEL 1 REFLECTED CEILING
PLAN

SCALE: 1:100
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: 24082
PLOT DATE: 10/17/22

DRAWING NUMBER:
A1502

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1 LEVEL 2 - REFLECTED CEILING PLAN
1: 100



REFLECTED CEILING PLAN LEGEND

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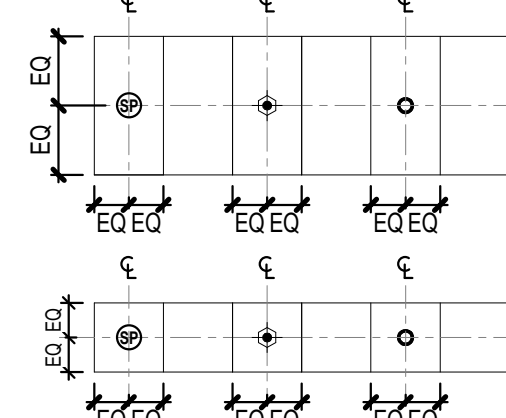
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- EXHAUST GRILLE - REFER TO MECHANICAL
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RCP TYPICAL DIMENSIONS



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RENOVATION KEYNOTES

#	DESCRIPTION
RT	INSTALL NEW RECOMMEND STEEL FRAMING ABOVE NEW ACT CEILING FOR MECHANICAL AND SUSPENSION OF ALL NEW MME SERVICES AND ACT CEILINGS. MIN. STUD SIZE 10mm. SPACING OF STUDS AS REQUIRED FOR INSTALLATION OF ALL REQUIRED MME SERVICES.

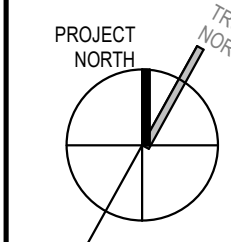
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MontgomerySisam

Kahler Slater Inc.

730 N. Water Street, Suite 1700, Milwaukee WI 53202
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#	DATE	REVISION	BY
1	JUL 4 2025	ISSUED FOR ARCHITECTURAL 03	MSAKS
2	JUL 10 2025	ISSUED FOR ARCHITECTURAL 01	MSAKS
3	MAY 29 2025	ISSUED FOR TENDER	MSAKS
4	JUN 10 2025	ISSUED FOR 10% CD	MSAKS
5	DEC 3 2025	ISSUED FOR BUILDING PERMIT	MSAKS
6	SEPT 26 2025	ISSUED FOR 80% CD	MSAKS
7	MAY 20 2025	ISSUED FOR 100% CD	MSAKS
8	MAY 2 2025	CD PROGRESS SET	MSAKS
9	FEB 20 2025	ISSUED FOR 10% SCHEMATIC DESIGN	MSAKS

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DENTISTRY BUILDING - CLINIC 2
RENOVATION
24082

124 EDWARD STREET
TORONTO, ON M5G 1G8

LEVEL 2 REFLECTED CEILING
PLAN

SCALE: 1: 100

DRAWN BY: Author

REVIEWED BY: Checker

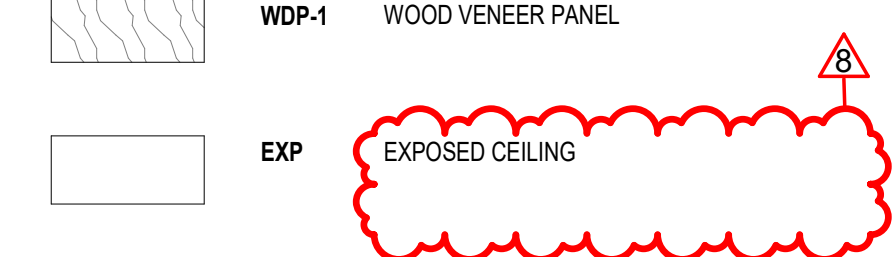
JOB NUMBER: 24082

PLOT DATE: 10/17/22

DRAWING NUMBER:
A1503



	ACT-1	ACOUSTIC CEILING TILE - 610 x 610 mm
	ACT-1A	ACOUSTIC CEILING TILE - 610 x 610 mm W/ 50mm ACOUSTIC INSULATION ABOVE
	ACT-2	ACOUSTIC CEILING TILE - 610 x 1220 mm
	X.ACT-1	EXISTING CLIP-IN METAL ACOUSTIC CEILING TILES: TYP. PANEL SIZE 915 x 305mm, OR 915 x 305mm, SIZE VARIES.
	X.ACT-2	EXISTING ACOUSTIC CEILING TILE - 610 x 1220mm
	X.ACT-3	EXISTING ACOUSTIC CEILING TILE - 610 x 610mm
	GWB-1	GYPSUM BOARD CEILING ONE LAYER 16mm GWB ON STEEL STUD
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	GWB-2	GYPSUM BOARD CEILING THREE LAYERS 16mm TYPE X GWB ON STEEL STUD, ULC S101
	X.GWB-1	EXISTING GWB ON STEEL STUD, THICKNESS OF GWB AND STUD SIZE VARIES
	X.GWB-2	EXISTING 305 x 305mm ACOUSTIC TILE UNMOUNTED TO GWB ON STEEL STUD, THICKNESS OF GWB AND STUD SIZE VARIES



- | | |
|---|--|
|  | SQUARE DIFFUSER - REFER TO MECHANICAL |
|  | CIRCULAR DIFFUSER - REFER TO MECHANICAL |
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|  | SPRINKLER HEAD - REFER TO MECHANICAL |
|  | SHAFT OPENING |
|  | ACCESS PANEL - COORDINATE WITH MECHANICAL |

- | | |
|---|--|
|  | EXIT SIGN - REFER TO ELECTRICAL |
|  | SMOKE DETECTOR - REFER TO ELECTRICAL |
|  | DUCT SMOKE DETECTOR - REFER TO ELECTRICAL |
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|  | DAYLIGHT SENSOR - REFER TO ELECTRICAL |
|  | RECESSED LED - REFER TO ELECTRICAL |
|  | PENDANT LIGHT FIXTURE - REFER TO ELECTRICAL |
|  | ZxZ LIGHT FIXTURE - REFER TO ELECTRICAL |
|  | LINEAR LIGHT FIXTURE - REFER TO ELECTRICAL |
|  | 1xK LIGHT FIXTURE - REFER TO ELECTRICAL |
|  | ZxK LIGHT FIXTURE - REFER TO ELECTRICAL |
|  | CEILING MOUNTED EXAM LIGHT - REFER TO ELECTRICAL |
|  | CCTV CAMERA |
|  | AUTOMATIC ROLLER SHADE, BLACK-OUT |

1. REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR ACTUAL, FIXTURE TYPES, QUANTITIES AND LOCATIONS, AND COORDINATE THE WORK WITH THESE PLANS.
2. ALL EXPOSED ROUTING OF ELECTRICAL SERVICES ON CEILINGS/LEVELS ABOVE TO BE REVIEWED ONSITE WITH ARCHITECT PRIOR TO INSTALLATION
3. UNLESS OTHERWISE NOTED, CEILING MOUNTED DEVICES IN ACT TILES TO BE LOCATED IN CENTRE OF TILE
4. PROVIDE CONCEALED BRACING TO LaterALLY STABILIZE SUSPENDED CEILINGS WHERE CEILINGS ARE NOT FASTENED TO WALLS
5. PROVIDE ENGINEERED STEEL STUD FRAMING ABOVE ENCLOSED OR CEILING TO SUPPORT MECHANICAL AND ELECTRICAL FIXTURES.
6. LIGHT FIXTURES AND CEILING TILE LAYOUT IN ENCLOSED OPERATORIES SHALL BE CENTERED ABOVE THE CENTERLINE OF THE DENTAL CHAIR.

1. ALIGN ELECTRICAL AND MECHANICAL CEILING MOUNTED ELEMENTS AND CEILING ACCESS PANELS TO CENTRELIN E OF ACOUSTIC CEILING TILE, UNLESS OTHERWISE NOTED.

2. EXIT SIGN CENTERED AT DOOR OF ASSOCIATED ROOM.

RENOVATION KEYNOTES

DESCRIPTION

R13	APPLY NEW PAINT FINISH ON ALL EXPOSED NEW AND EXISTING M&E SERVICES AND UIS OF EXISTING EXPOSED ROOF SLAB. PAINT FINISH PT-3 UNLESS OTHERWISE NOTED.
-----	--

8	JUL 5 2026	ISSUED FOR ADDENDUM NO. 03	MSAK
7	MAY 29 2026	ISSUED FOR TENDER	MSAK
6	JAN 9 2026	ISSUED FOR 100% CD	MSAK
5	DEC 5 2025	ISSUED FOR BUILDING PERMIT	MSAK
4	SEPT 28 2025	ISSUED FOR 80% CD	MSAK
3	MAY 30 2025	ISSUED FOR 100% CD	MSAK
2	MAY 2 2025	DO PROGRESS SET	MSAK
1	FEB 26 2025	ISSUED FOR 100% SCHEMATIC DESIGN	MSAK
#	DATE:	REVISION:	BY:
REVISIONS			

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RENOVATION
24082

124 EDWARD STREET
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LEVEL 3 REFLECTED CEILING
PLAN

SCALE: 1 : 100

DRAWN BY: Author

REVIEWED BY: Checker
JOB NUMBER: 24082

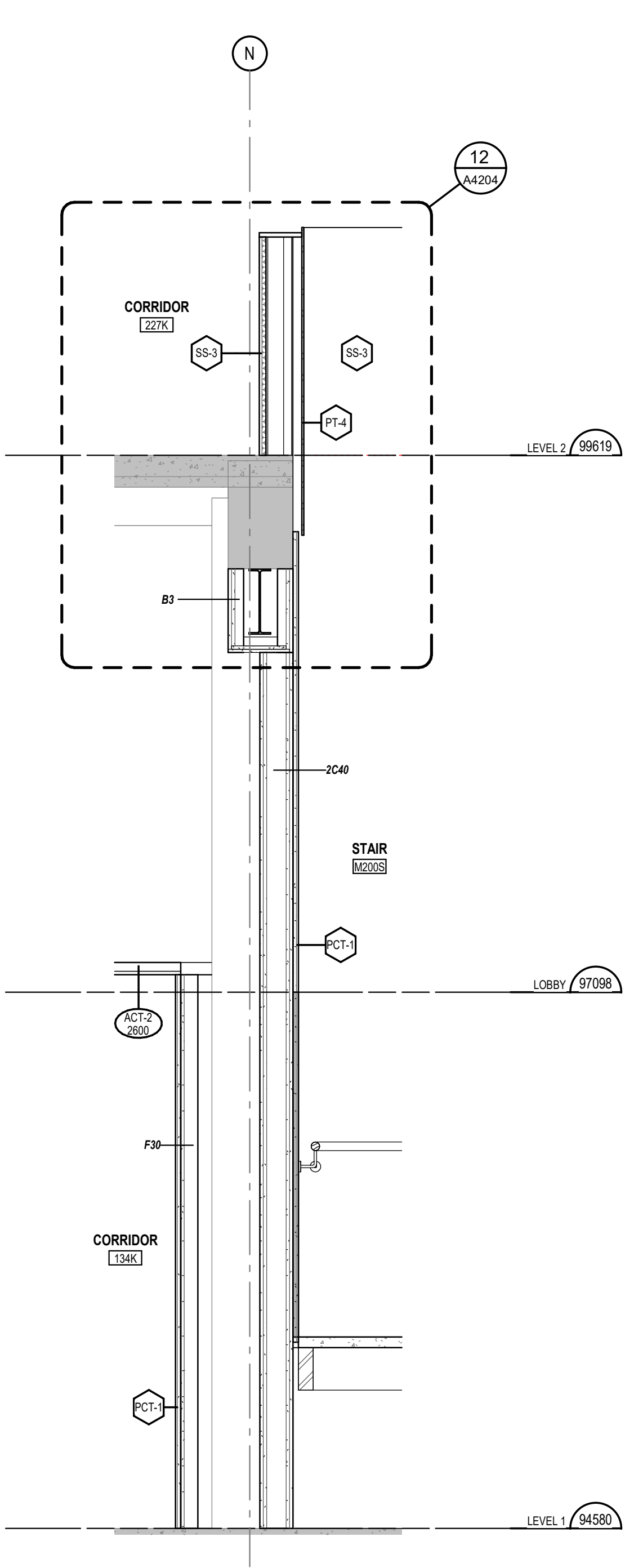
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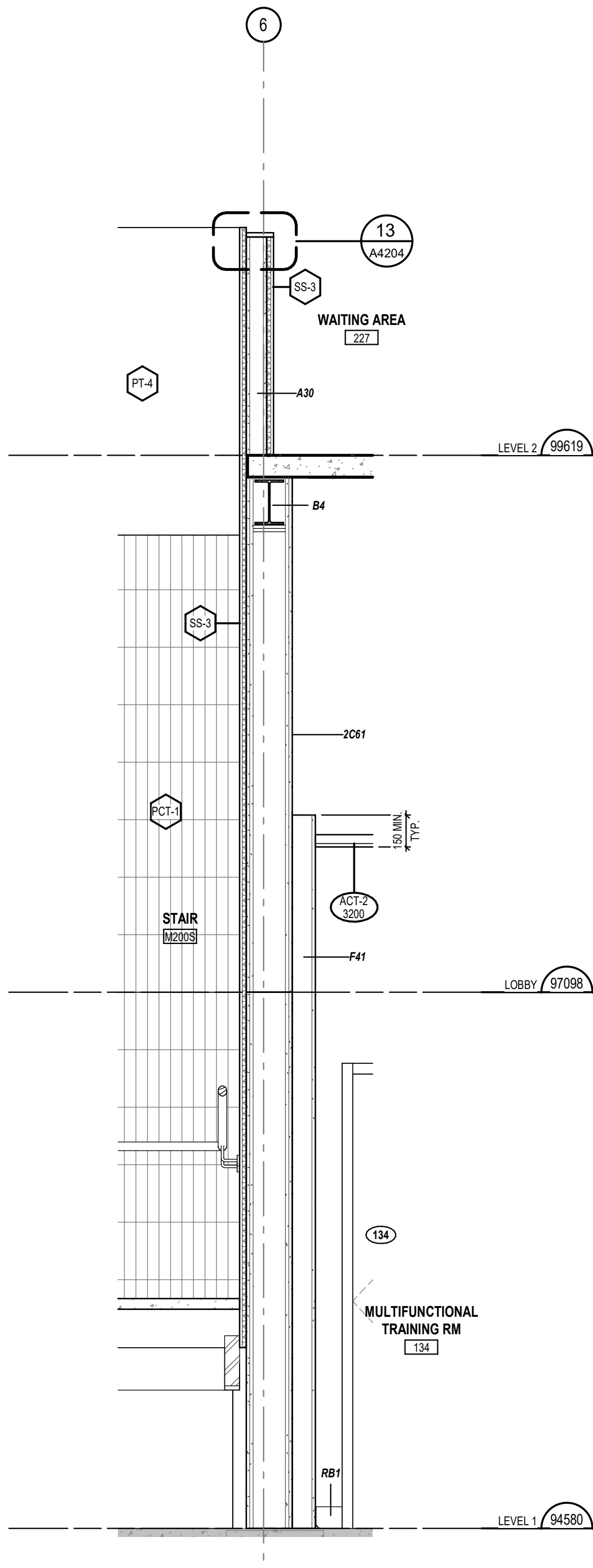
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71504

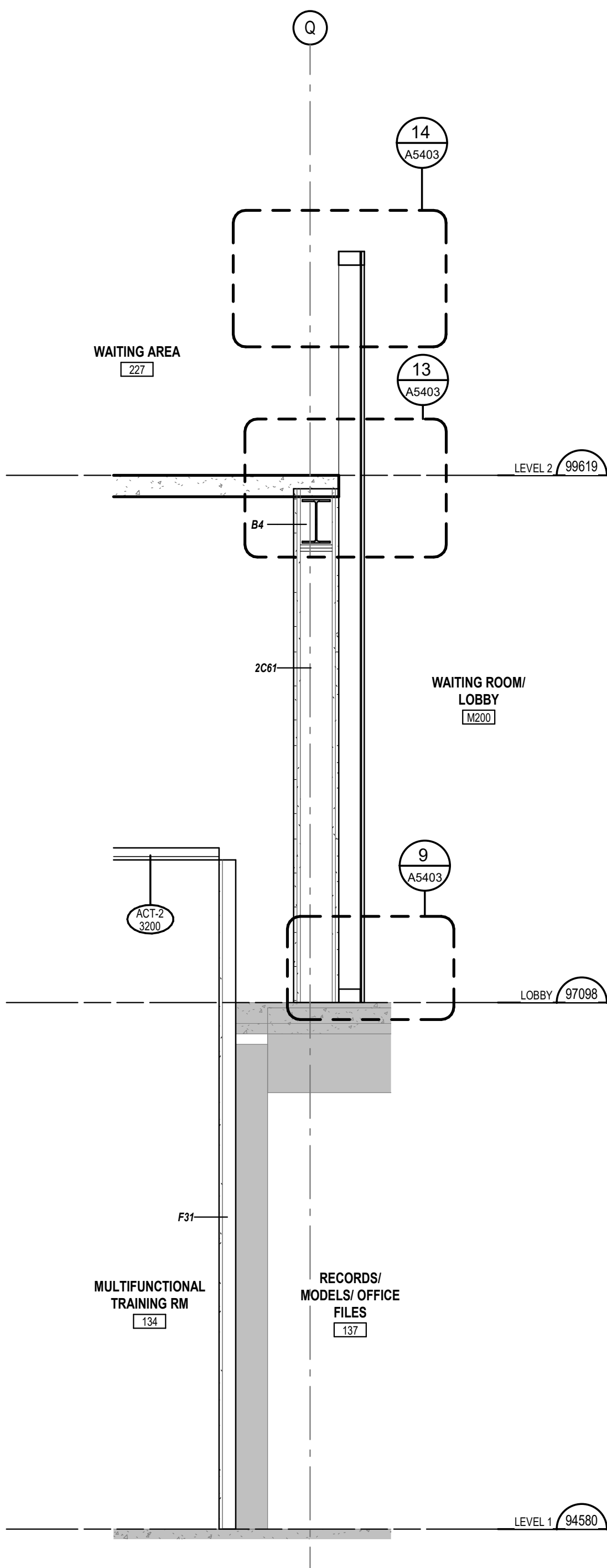
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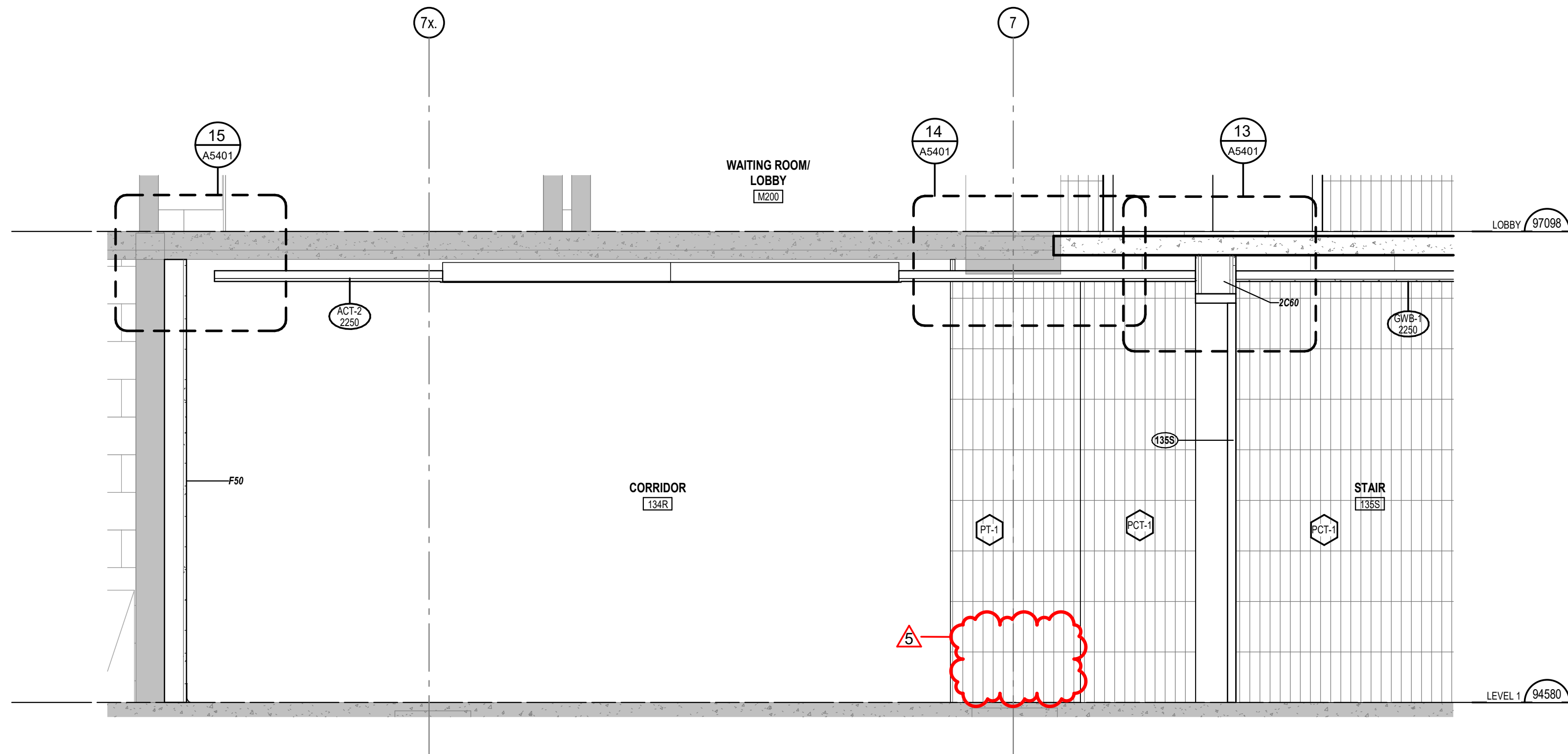
4 SECTION - PATIENT STAIR - SOUTH WALL
1 : 20



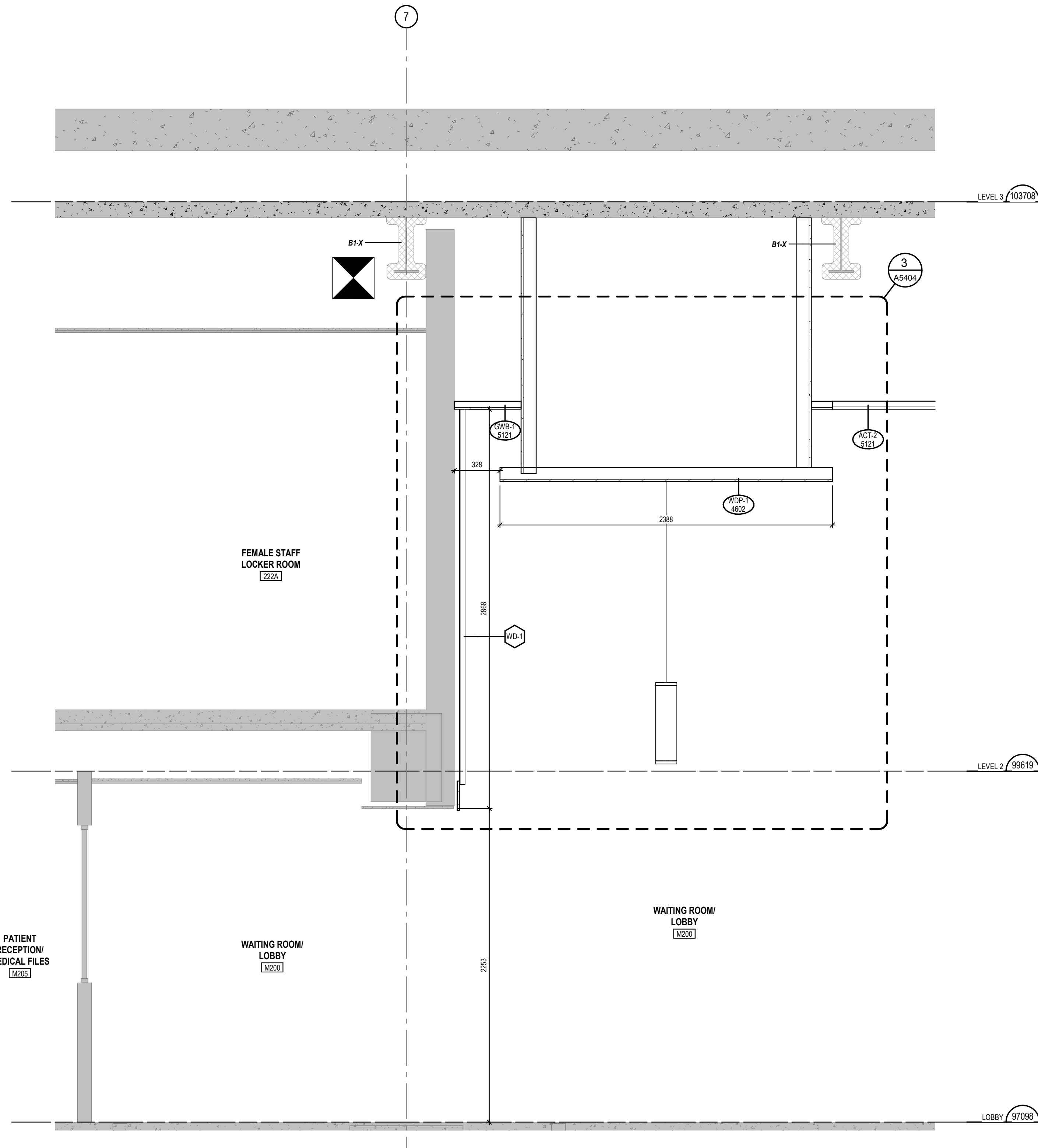
3 SECTION - PATIENT STAIR - WEST WALL
1 : 20



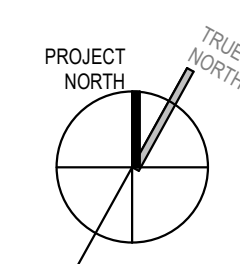
2 SECTION - PATIENT LOBBY - SOUTH WALL
1 : 20



5 SECTION - LEVEL 1 CORRIDOR
1 : 20



1 SECTION - PATIENT LOBBY - EAST WALL
1 : 20



5	JULY 6 2025	ISSUED FOR ADDENDUM 03	MSAKS
4	MAY 29 2025	ISSUED FOR TENDER	MSAKS
3	APR 15 2025	ISSUED FOR 10% CD	MSAKS
2	SEP 5 2024	ISSUED FOR BUILDING PERMIT	MSAKS
1	SEP 25 2023	ISSUED FOR B.V. CD	MSAKS
#	DATE	REVISION	BY
REVISIONS			

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RENOVATION
24082

124 EDWARD STREET
TORONTO, ON M5G 1G6

WALL SECTIONS - PATIENT
LOBBY

SCALE: 1 : 20
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: 24082
PLOT DATE: 08/24/25

DRAWING NUMBER:
A3302



6	JULY 6 2026	ISSUED FOR ADDENDUM NO. 03	MSAKS
5	JUNE 19 2026	ISSUED FOR ADDENDUM NO. 01	MSAKS
4	MAY 29 2026	ISSUED FOR TENDER	MSAKS
3	JAN 9 2026	ISSUED FOR 100% CD	MSAKS
2	DEC 5 2025	ISSUED FOR BUILDING PERMIT	MSAKS
1	SEPT 26 2025	ISSUED FOR 80% CD	MSAKS
#	DATE:	REVISION:	BY:

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UNIVERSITY OF TORONTO
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RENOVATION
24082

124 EDWARD STREET
TORONTO, ON, M5G 1G8

ROOF DETAILS

SCALE: As indicated

DRAWN BY: *Author*

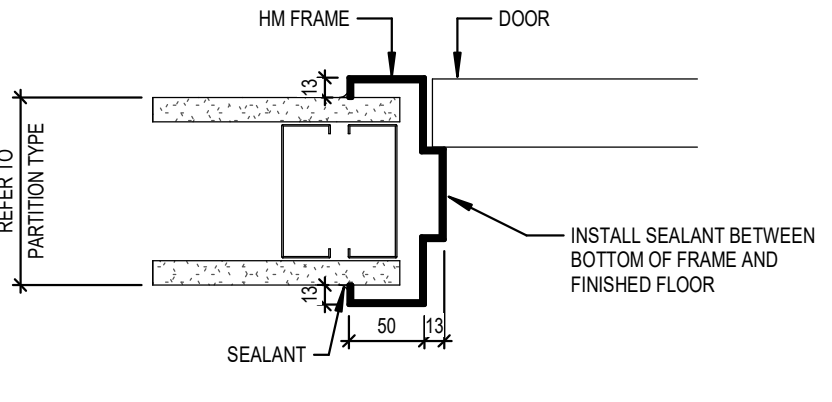
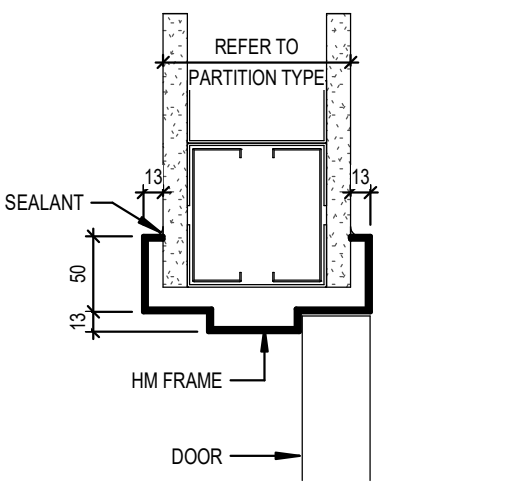
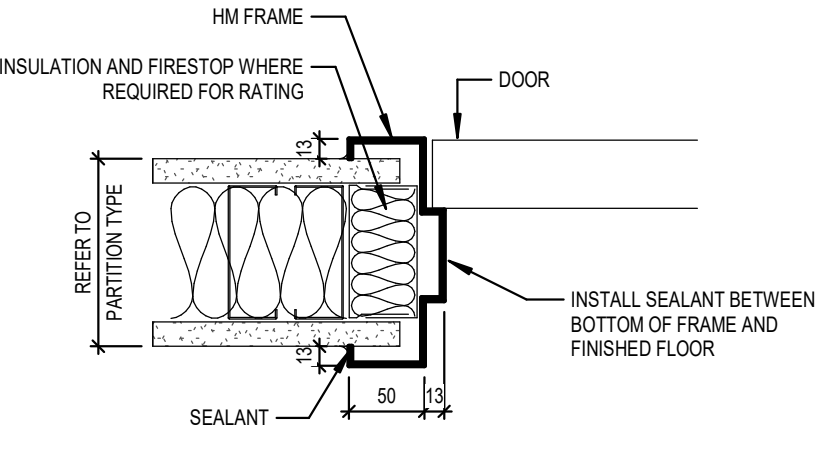
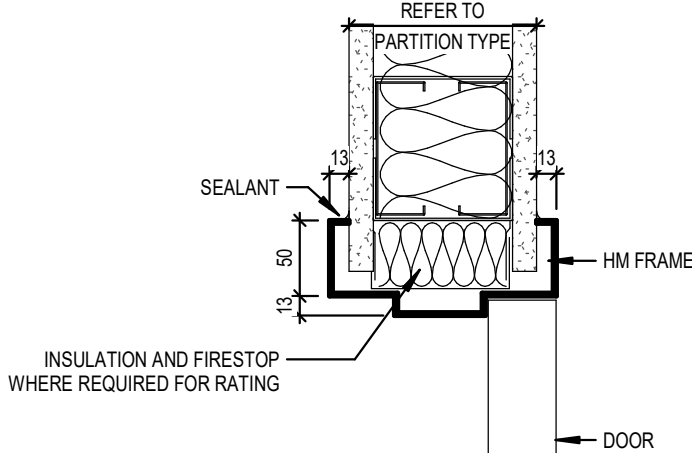
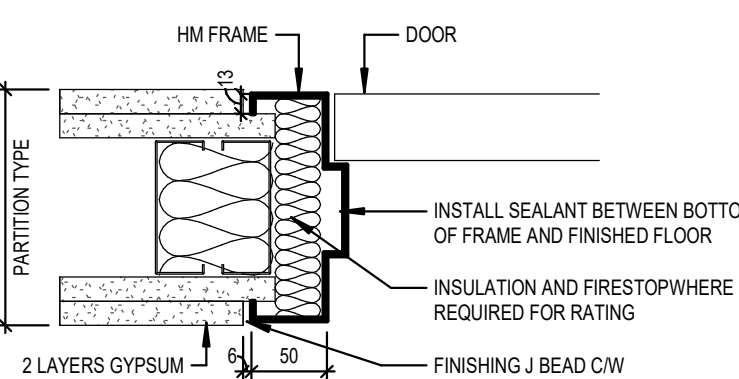
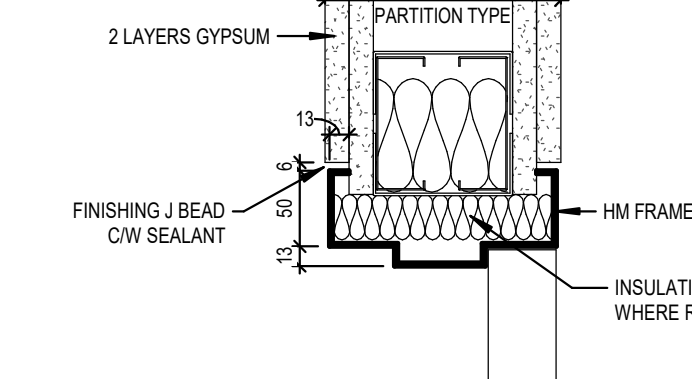
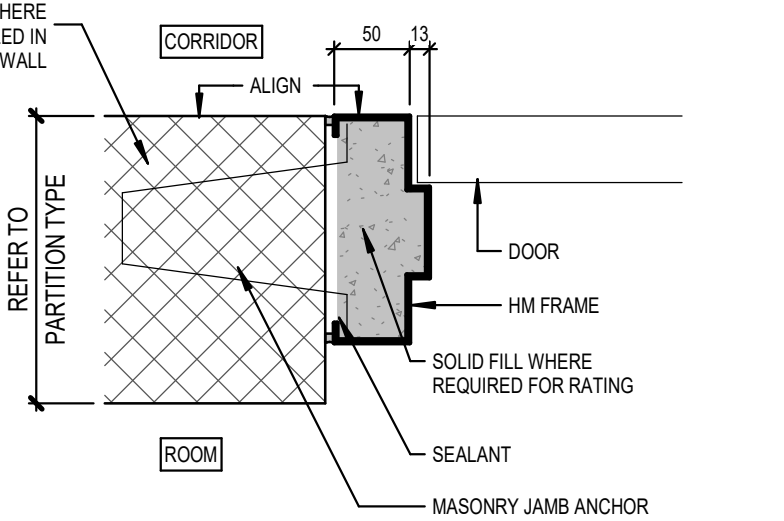
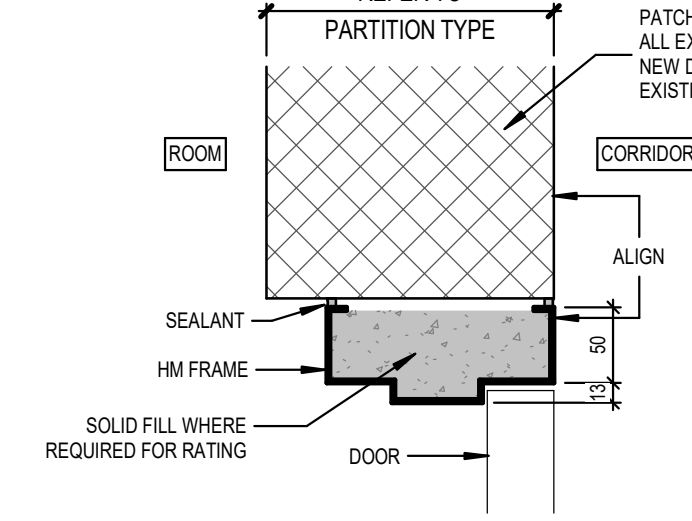
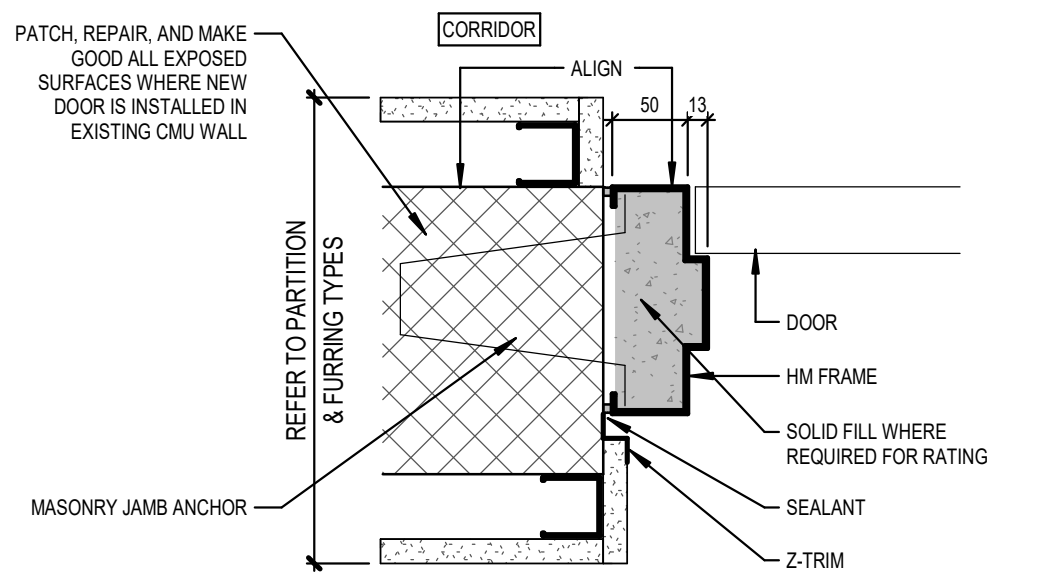
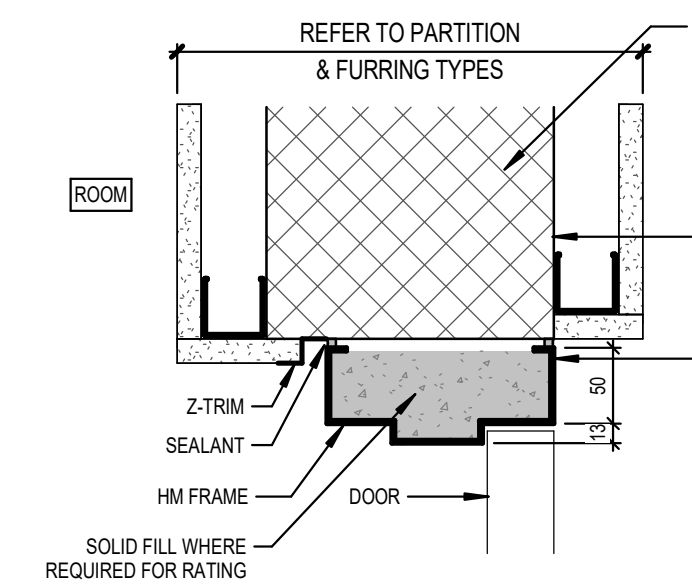
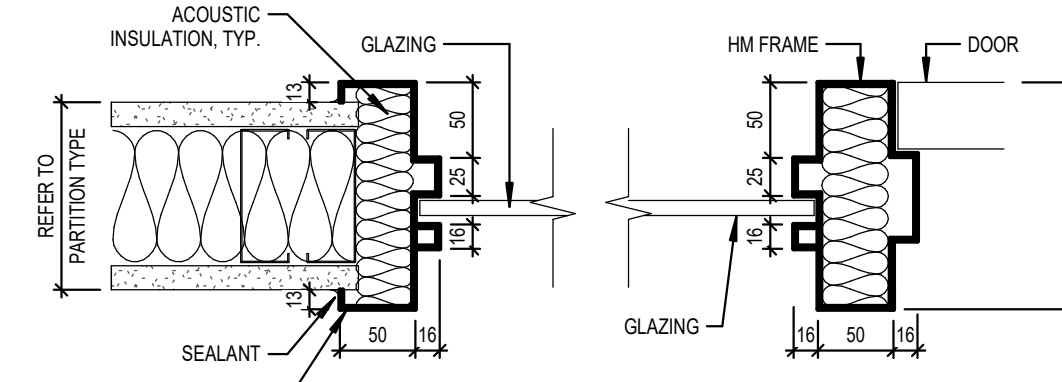
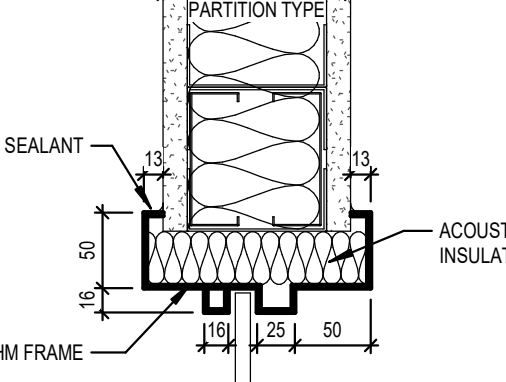
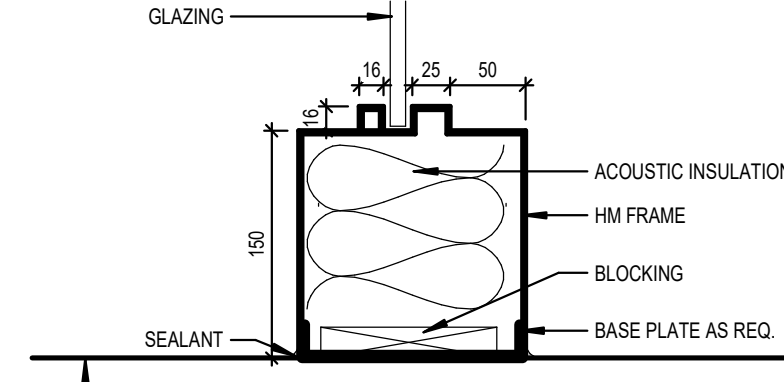
REVIEWED BY: Checker
JOB NUMBER: 24082

PLOT DATE: 09/05/25

DRAWING NUMBER:
A5004

A5201

TYP. DOOR AND FRAME DETAILS

JAMB DETAILS	HEADER DETAILS	SILL DETAILS
HM FRAME DOOR @ GWB (NON-RATED) 		
HM FRAME DOOR @ GWB (1HR FRR WALL OR LESS) 		
HM FRAME DOOR @ GWB (1.5HR FRR WALL OR MORE) 		
HM FRAME DOOR @ CMU (RATED OR NON-RATED) 		
HM FRAME DOOR @ CMU W/FURRING (RATED OR NON-RATED) 		
HM FRAME SIDELITE @ GWB (ACOUSTIC) SCREEN TYPE SC1 		

DOOR SCHEDULE																		
DOOR NUMBER	FROM ROOM	TO ROOM	WIDTH	HEIGHT	TYPE	THICKNESS	PANEL MATERIAL	FINISH	GLAZING TYPE	THICKNESS	FRAME MATERIAL	FINISH	GLAZING TYPE	FRR	STC	COMMENTS		
LEVEL 1																		
134K	CORRIDOR	CORRIDOR	1580	2134	BB	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	-	ADD, ON BOTH LEAFS, EPH	
134	CORRIDOR	MULTIFUNCTIONAL TRAINING RM	1000	2134	C	45	HM		PT-2 GL1A	-	50	HM	PT-2 GL1	-	35	UK	PART OF SC21- REFER TO INTERIOR SCREEN SCHEDULE	
135K	CORRIDOR	CORRIDOR	915	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	-	NEW DOOR AND FRAME TO MATCH SIZE OF EXISTING DOOR AND FRAME. CONTRACTOR TO VERIFY DIMENSIONS ON SITE.	
LEVEL 2																		
202K	CORRIDOR	VESTIBULE	915	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	-	ADD, ES	
202V	CLINIC 2	VESTIBULE	915	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	-	ADD, CR, DC, EPH, REX	
207A	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207B	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207C	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207D	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207E	SPECIAL NEEDS OP	CORRIDOR	2683	2134	D2	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-	35	PART OF SC28- REFER TO INTERIOR SCREEN SCHEDULE		
207H	CORRIDOR	ELECTRICAL	915	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	15HR	-	ADD, ON BOTH LEAFS, EPH
207J	AODA OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207K	SPECIAL NEEDS OP	CORRIDOR	2683	2134	D2	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-	35	PART OF SC28- REFER TO INTERIOR SCREEN SCHEDULE		
207M	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207N	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207P	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207Q	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207R	CORRIDOR	ENCLOSED OP	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207T	ENCLOSED OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207U	ENCLOSED OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207V	ENCLOSED OP	CORRIDOR	2683	2134	D1	45	ALUM	ANOD	GL2		ALUM	ANOD	GL2	-			PART OF SC24- REFER TO INTERIOR SCREEN SCHEDULE	
207X	CLINIC 2	MAGING RM	860	2134	B	45	HM		PT-2 GL1A	F1	50	HM	PT-2	-	-	-		
208	CAD/CAM	CLINIC 2	1000	2134	B	45	HM		PT-2 GL1A	F1	50	HM	PT-2	-	-	30	UK	
210A	BF WC	CLINIC 2	1000	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	35	ADD, CR, DC, ECS, ES, OL, PL, RR	
210B	WC	CLINIC 2	860	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	35		
212	CLINIC 2	ELECTRICAL	860	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	45MIN	-	
216A	ELEC RM	CORRIDOR	860	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	45MIN	-	
217A	CORRIDOR	CLEAN DISPENSARY	1000	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	30	ADD, CR, DC, EPH, REX	
217B	CLINIC 2	CLEAN DISPENSARY	1000	2134	B	45	HM		PT-2 GL1A	F1	50	HM	PT-2	-	-	-	ADD, CR, DC, EPH, REX	
217QH-1	CLINIC 2	CLEAN DISPENSARY	1219	1372	E												COLING COUNTER DOOR REFER TO SPECIFICATION	
217QH-2	CLEAN DISPENSARY	CLINIC 2	1219	1372	E												COLING COUNTER DOOR REFER TO SPECIFICATION	
218A	CORRIDOR	DIRTY DISPENSARY	1000	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	30	ADD, CR, DC, EPH, REX	
218B	CLINIC 2	DIRTY DISPENSARY	1000	2134	B	45	HM		PT-2 GL1A	F1	50	HM	PT-2	-	-	-	ADD, CR, DC, EPH, REX	
218QH-1	DIRTY DISPENSARY	CLINIC 2	1524	1372	E												OVERHEAD DOOR REFER TO SPECIFICATION	
218SA	CORRIDOR	STAR	915	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	15HR	-		
218SB	STAR	CORRIDOR	915	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	15HR	30	UK	
219	CORRIDOR	RECEPTION	915	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	30	ADD, CR, DC, EPH, REX	
219A	CORRIDOR	WAITING	1000	2134	A	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	30	ADD, CR, DC, EPH, REX	
219C	WAITING	CORRIDOR	1000	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	45MIN	30	ADD, CR, DC, EPH, REX	
219K	CORRIDOR	CORRIDOR	1580	2134	BB	45	HM		PT-2 EX	F1	50	HM	PT-2	-	45MIN	-	EXISTING DOOR AND FRAME TO REMAIN. APPLY NEW PAINT FINISH. EXISTING ADD TO REMAIN. RECEPTION FR	
219QH-1	RECEPTION	WAITING	2092	1702	E												COLING COUNTER DOOR REFER TO SPECIFICATION	
219QH-2	CORRIDOR	RECEPTION	3030	1702	E												COLING COUNTER DOOR REFER TO SPECIFICATION	
219QH-3	WAITING	RECEPTION	2592	1702	E												COLING COUNTER DOOR REFER TO SPECIFICATION	
220A	WAITING	IT	860	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	45MIN	-	
220B	WAITING	IT	680	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	45MIN	-	
228B	CORRIDOR	MAGING RM	860	2134	B	45	HM		PT-2 GL1A	F1	50	HM	PT-2	-	-	-		
228C	CORRIDOR	STORAGE ROOM	915	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	-	-	
228L	CORRIDOR	STAR	864	2134	B	45	HM		PT-2	-	EX	EX	EX	PT-2	-	-	-	
228S	CORRIDOR	STAR	864	2134	B	45	HM		PT-2	-	EX	EX	EX	PT-2	-	15HR	-	
227W	CORRIDOR	UNIVERSAL WC	1000	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	-	-	
LEVEL 3																		
319	WAITING AREA	STAR	915	2134	B	45	HM		PT-2 GL3	F1	50	HM	PT-2	-	15HR	-		
319A	STORAGE	WAITING AREA	860	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	-	-	
LOBBY																		
MD04S	STAR	PATIENT RECEPTION/ MEDICAL FILES	1714	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	15HR	-	NEW DOOR AND FRAME TO MATCH SIZE OF EXISTING DOOR AND FRAME. CONTRACTOR TO VERIFY DIMENSIONS ON SITE.
PARKING GARAGE																		
G21E	PARKING GARAGE	ELEVATOR MACHINE RM	915	2134	A	45	HM		PT-2	-	F1	50	HM	PT-2	-	15HR	-	

INTERIOR SCREEN GENERAL NOTES

- COORDINATE DOOR JAMB WEITHS IN SCREENS DURING SHOP DRAWINGS
- PROVIDE SUPPORTS AND ANCHORS AT SCREEN HEAD, SILL, AND JAMB AS REQUIRED

INTERIOR SCREEN LEGEND

REFER TO SPECIFICATIONS FOR ALL INTERIOR SCREEN TYPES

- SCREEN TYPE 1**
SC1 HOLLOW METAL DOORS & FRAMES SINGLE GLAZED ACOUSTIC
- SCREEN TYPE 2A**
SC2A ALUMINUM SLIDING DOOR SINGLE GLAZED
- SCREEN TYPE 2B**
SC2B ALUMINUM SLIDING DOOR SINGLE DOUBLE GLAZED ACOUSTIC
- SCREEN TYPE 3**
SC3 RESIN PANEL DIVIDER
- SCREEN TYPE 4**
SC4 ALUMINUM STOREFRONT SSG SINGLE GLAZED LAMINATED

GLAZING LEGEND

REFER TO SPECIFICATIONS FOR ALL GLAZING TYPES

- GL1 CLEAR TEMPERED GLASS**
- GL1A VISION PANEL - CLEAR TEMPERED GLASS**
- GL2 CLEAR LAMINATED GLASS**
- GL3 CLEAR FIRE-RATED GLASS**
- GL4 CLEAR GUARDRAIL GLASS**
4mm TEMPERED LAMINATED GLASS PANEL GRADIENT FILM INTERLAYER 6mm TEMPERED LAMINATED GLASS PANEL

- RP1 RESIN PANEL**

GLAZING FILM LEGEND

REFER TO SPECIFICATIONS FOR ALL GLAZING FILM TYPES

- GF1 GLASS FILM TYPE 1**
OPAQUE SAFETY VISUAL CUES
- GF2 GLASS FILM TYPE 2**
SOLID OPAQUE FILM ON INTERIOR WINDOWS
- GF3 GLASS FILM TYPE 3**
TRANSLUCENT FILM ON INTERIOR WINDOWS
- GF4 GLASS FILM TYPE 4**
OPAQUE SAFETY VISUAL CUES

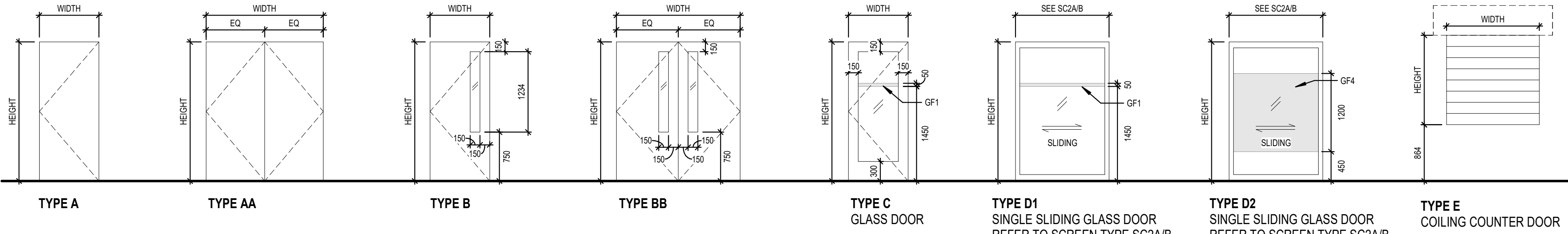
INTERIOR GLAZING GENERAL NOTES

- PROVIDE SAFETY VISUAL CUES IN ALL TRANSPARENT GLASS PANELS. EXCEPTIONS ARE INSTANCES WHERE THE GLAZING BEGINS AT 915 FROM FINISHED FLOOR. ONCE GLAZING FILM IS ALREADY PROVIDED, AN INDICATION OF GLAZING FILM WITH PATTERN WHICH CLEARLY INDICATES PRESENCE OF A SOLID SURFACE. PATTERN OF SAFETY INDICATORS TO BE CHOSEN BY CONSULTANT
- IF GLAZING TYPE IS NOT NOTED, ASSUME GF-1

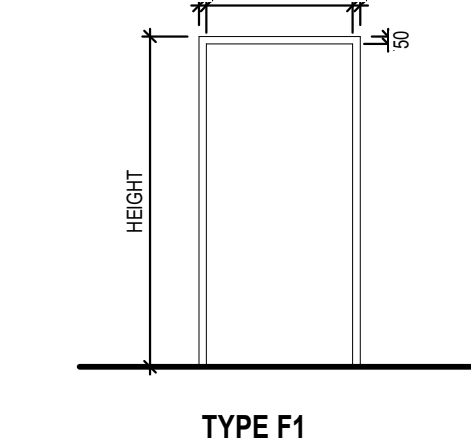
DOOR SCHEDULE ABBREVIATIONS

- DOOR**
ALUM ALUMINUM
HM HOLLOW METAL
PT PAINT
EX EXISTING
- SECURITY**
ADO AUTOMATIC DOOR OPERATOR
CR CREDENTIAL READER
DC DOOR CONTACT
ECS EMERGENCY CALL SYSTEM
ELK ELECTRONIC LOCKSET
EPH ELECTRONIC LOCKSET
ES ELECTRIFIED PANG HARDWARE
ELECTRIC STRIKE
HO HOLD OPEN DEVICE
LK INTEGRATED ELECTRONIC LOCKSET & CARD READER
OL OCCUPIED INDICATOR
PUSH TO LOCK
PR PRESS TO RESET
REX REQUEST TO EXIT

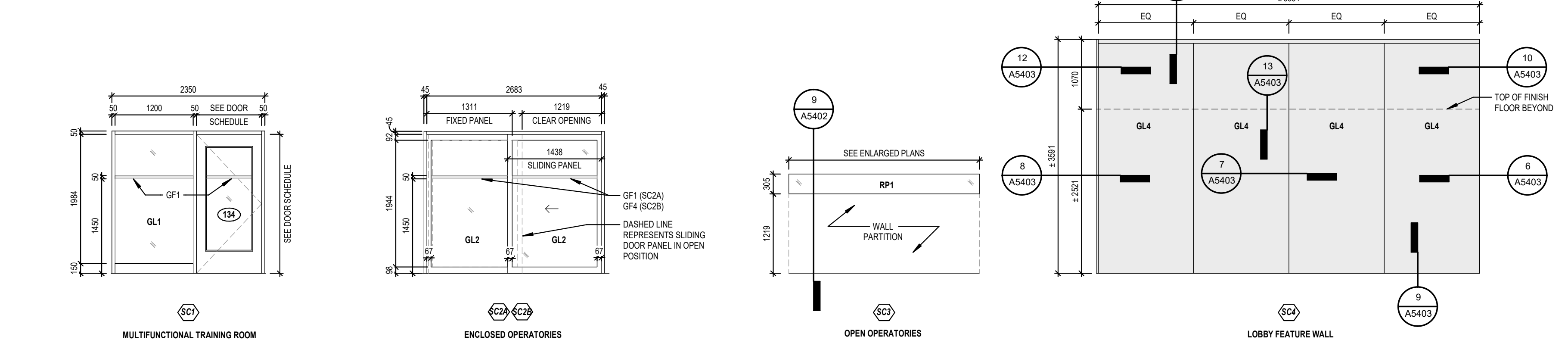
DOOR PANEL TYPE ELEVATIONS SCALE 1:50



FRAME TYPE ELEVATIONS SCALE 1:50



INTERIOR SCREEN ELEVATIONS SCALE 1:50



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Tel 416.364.8079 Fax 416.364.7723

MontgomerySisam

Kahler Slater Inc.

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kahlerslater.com Tel 414.272.2030

Kahler Slater

UNIVERSITY OF TORONTO
DENTISTRY BUILDING - CLINIC 2
RENOVATION
24082

124 EDWARD STREET
TORONTO, ON M5G 1G6

SCHEDULE - DOORS AND
SCREENS

SCALE: As indicated

DRAWN BY: Author

REVIEWED BY: Checker

JOB NUMBER: 24082

PLOT DATE: 10/17/22

DRAWING NUMBER:

A6102



exp Services Inc.
220 Commerce Valley Drive West, Suite 110
Markham, Ontario
L3T 0A8

Telephone: 905.695.3217
Facsimile: 905.695.0167

Mechanical Addendum No. 2

Reference: Coordination and Clarification

Issue Date: July 02, 2026

Project: U of T, Faculty of Dentistry
Clinic 2 Renovation

This addendum shall form an integral part of the Bid Documents for the above project and shall be read in conjunction therewith. This addendum shall, however, take precedence over all requirements of the previously issued Drawings and Specifications with which it may prove to be at variance, unless otherwise clarified by the Consultant.

This addendum must be signed by the Bidder in the appropriate space and must be attached to the back of the Bid Form for submission at the time of bidding. Bids not including this addendum signed as requested may be rejected as informal.

Revisions / Clarifications

The following changes and clarifications shall be considered when submitting your bid.

1. MECHANICAL DRAWINGS

1.1. M-603: control schematics #1

1.1.1. Condensing units tag updated.

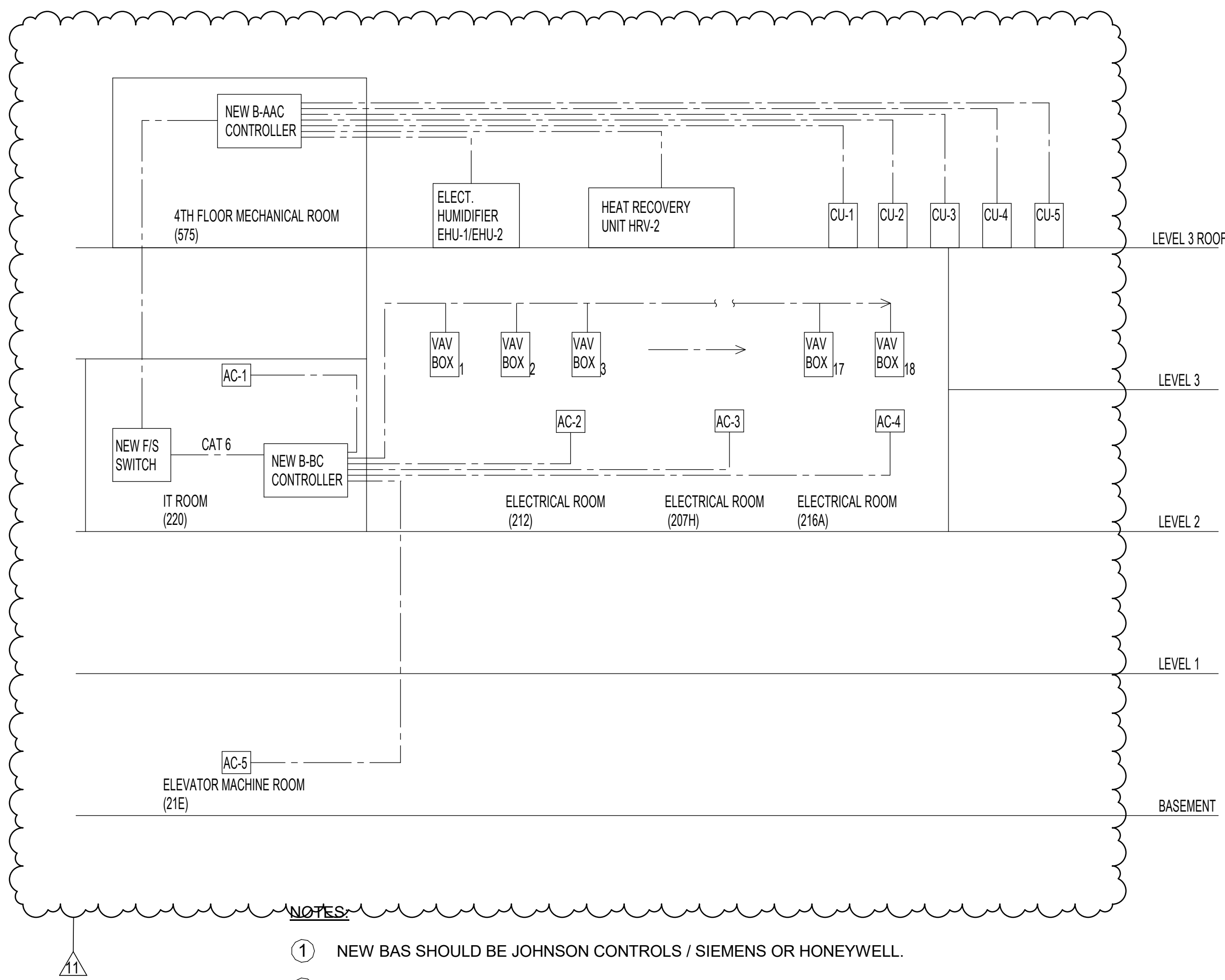
1.2. M-700: SCHEDULE#1

1.2.1. Eye-wash station schedule changed. Both EW-1 and EW-2 use the same deck mount mode DRENCH HOSE H-9459. Floor plans shall read EW-1 only for eye washing tags and any reference to EW-2 shall be deleted.

1.2.2. Sound information of HRV added in the schedule.

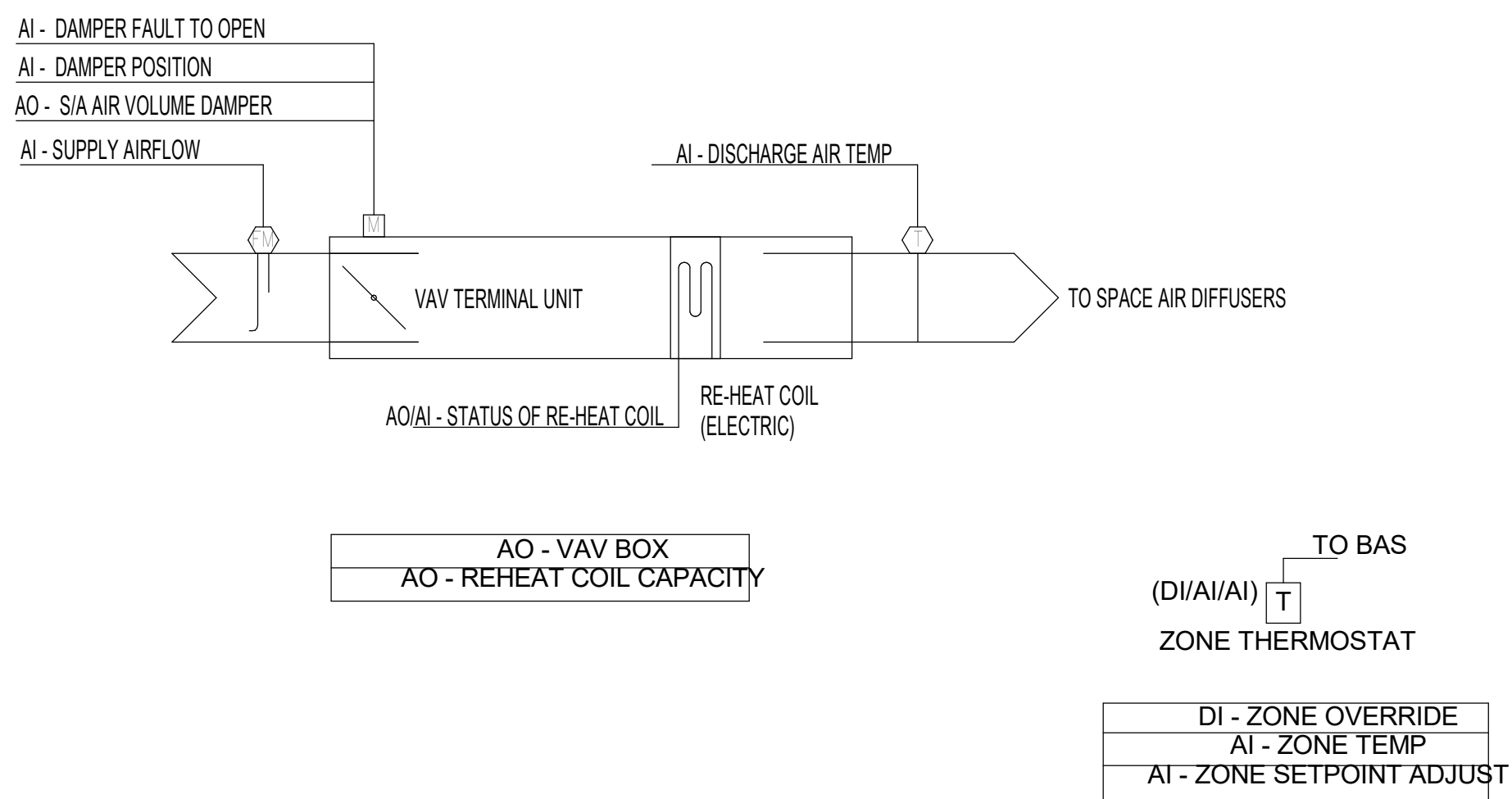
----- END OF MECHANICAL ADDENDUM No. 2 -----

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- NOTES**
1. NEW BAS SHOULD BE JOHNSON CONTROLS / SIEMENS OR HONEYWELL.
 2. AUTOMATED LOGIC AND SCHNEIDER ARE APPROVED VENDORS AS WELL.
 3. ALL DEVICES NEED TO BE CHECKED AND CALIBRATED.
 4. VERIFY & CONFIRM THE EXISTING EMRS REQUIREMENT FOR NEW BAS CONTROLLER TO BE ABLE TO CONNECT TO EXISTING NETWORK.
 5. CONTRACTOR TO SUBMIT THE IP ADDRESS FORM NAMED "F&S NETWORK - IP ADDRESS REQUEST" AS A RFI AFTER THE BAS SHOP DRAWING IS REVIEWED BY CONSULTANTS, C&A AND U of T. FORM WILL BE PROVIDED BY U of T FOR THE DEVICES THAT ARE PLANNED TO PLUG INTO F&S NETWORK SWITCH IN ELECTRICAL ROOM. THIS WILL ALLOW U of T TO BE ABLE TO ASSIGN PORTS ON THE SWITCH.
 6. CAT6 CABLE SHALL NOT EXCEED 100 METERS. PERFORM AND PROVIDE FLUKE TEST RESULTS FOR ALL CAT6 CABLES. ALL CABLES SHALL BE PROPERLY LABELED IN ACCORDANCE WITH THE UNIVERSITY OF TORONTO BAS STANDARD. INCLUDE AND SPECIFY ALL REQUIREMENTS NECESSARY FOR SYSTEM ACCEPTANCE.
 7. THE B-BC SHALL BE INSTALLED IN A NEMA 4 - RATED ENCLOSURE AND POWERED THROUGH AN UNINTERRUPTIBLE POWER SUPPLY (UPS). "LOW BATTERY" AND "OPERATING ON BATTERY" ALARMS SHALL BE PROVIDED AND INTEGRATED INTO THE BAS.

CONTROL SCHEMATIC - BAS NETWORK ARCHITECTURE



SEQUENCE OF OPERATION:

1. **DURING COOLING SEASON**
 - 1.1. THE ZONE THERMOSTAT SHALL MODULATE AIR VOLUME DAMPER IN TERMINAL BOX BETWEEN MINIMUM SETTING OF 30% TO 100% TO MAINTAIN ROOM TEMPERATURE SETTING 24°C (75°F) (ADJUSTABLE).
 - 1.2. THE ZONE THERMOSTAT SHALL ENABLE REHEAT COIL IN TERMINAL BOX WHEN AIR VOLUME DAMPER IS MODULATED AT MINIMUM SETTING POSITION AND THE ROOM TEMPERATURE IS STILL BELOW SET POINT.
 - 1.3. THE ZONE THERMOSTAT SHALL MODULATE REHEAT COIL IN TERMINAL BOX TO MAINTAIN ROOM TEMPERATURE SETTING AT 24°C (75°F) (ADJUSTABLE).
 - 1.4. THE ZONE THERMOSTAT SHALL MODULATE REHEAT COIL IN TERMINAL BOX TO MAINTAIN ROOM TEMPERATURE SETTING AT 26°C (78.8°F) (ADJUSTABLE) IN NIGHT UNOCCUPIED MODE.
2. **DURING HEATING SEASON**
 - 2.1. THE ZONE THERMOSTAT SHALL MODULATE RE-HEAT COIL & VARIABLE AIR VOLUME DAMPER IN TERMINAL BOX IN SEQUENCE TO MAINTAIN ROOM TEMPERATURE SETTING 22°C (72°F), (ADJUSTABLE). THE AIR VOLUME DAMPER SHALL BE MODULATED BETWEEN MINIMUM SETTING OF 30% TO 100%.
 - 2.2. HIGHEST TO GOVERN ZONE THERMOSTAT TO RESET DISCHARGE AIR TEMPERATURE.
 - 2.3. THE NIGHT SETBACK TEMPERATURE SHALL BE 18°C (65°F) IN HEATING SEASON.
 - 2.4. BAS TO PROVIDE TEMPERATURE SENSORS FOR EACH ZONE AND GENERATE TEMPERATURE ALARM AT BAS FOR VAV BOX IF THE ROOM TEMPERATURE EXCEED THE HIGH LIMIT (26°C) OR BELOW THE LOW LIMIT (16°C).

CONTROL SCHEMATIC - VAV BOX WITH RE-HEAT

ACTIVATION OF SYSTEM:

ACTIVATION / DEACTIVATION OF THE FOLLOWING SEQUENCE SHALL BE BASED ON THE PRE-PROGRAMMED TIME SCHEDULE AT BAS. DURING THE OFF PERIOD, WHEN SPACE TEMPERATURE SENSOR DETECTS SPACE TEMPERATURE DIFFERS 45°C (45°F) FROM SETPOINT (HIGHEST TO GOVERN), THE SYSTEM SHALL START AND OVERRIDE THE PRE-PROGRAMED SCHEDULE UNTIL THE SETPOINT IS SATISFIED AND MAINTAINED FOR 30 MINUTES.

SEQUENCE OF OPERATION:

1. SUPPLY AIR TEMPERATURE SENSOR TO MODULATE CONTROL GLYCOL WATER VALVE TO MAINTAIN DISCHARGE AIR TEMPERATURE T4 SETTING AT 13°C (55°F) (ADJUSTABLE) OR AS IDENTIFIED ON EQUIPMENT SCHEDULE.
2. EXHAUST AIR HUMIDIFICATION SENSOR TO MODULATE HUMIDIFIER TO MAINTAIN DISCHARGE AIR R.H. AT 30% (ADJUSTABLE).
3. SYSTEM PRESSURE SENSORS TO MODULATE FAN SPEED TO MAINTAIN CONSTANT PRESSURE IN SUPPLY & EXHAUST AIR DUCT SYSTEM, LOCATED 2/3 OF THE WAY DOWN THE AIR MAIN DUCT FROM THE AIR HANDLING UNIT.
4. HIGH LIMIT PRESSURE SENSOR TO ENSURE S.P. SET POINT AT FAN DISCHARGE IS NOT EXCEEDED.
5. WHEN SYSTEM IS ON, THE SUPPLY AIR FAN(S) START, THE EXHAUST AIR FAN(S) START AND ASSOCIATED EXHAUST AIR DAMPERS TO OPEN ACCORDINGLY . THE SYSTEM IS UNDER AUTOMATIC CONTROL.
6. THE HEAT RECOVERY HEAT PIPE WILL BE MAINTAINED IN OPERATION WHEN OUTDOOR AIR TEMPERATURE IS ABOVE SPACE TEMPERATURE SET POINT 75°F (24°C) IN COOLING AND BELOW SET POINT 72°F (22°C) IN HEATING MODES.
7. FACE AND BYPASS OUTDOOR AIR DAMPER "MD-2" AT THE HEAT PIPE TO BE ACTIVATED FOR FROST CONTROL TO MAINTAIN SET POINT AT 2.22°C (36°F) OF EXHAUST AIR DISCHARGE TEMPERATURE T7 LEAVING HEAT PIPE.
8. EXCEPT UNIT IN FREE COOLING MODE, GLYCOL SUPPLY LOOP (PUMPS LOCATED IN MECHANICAL ROOM) SHALL WORK ALL YEAR ROUND TO PROVIDE COOLING IN SUMMER AND HEATING IN WINTER AS REQUIRED.
9. PROVIDE READINGS AND ALARMS AT ALL FILTER DIFFERENTIAL PRESSURE SENSORS.
10. AN ALARM SHALL BE GENERATED AT BAS IF THE SYSTEM MALFUNCTIONS. ADDITIONALLY, AN AUDIBLE ALARM LOCATED IN THE SPACE WILL SOUND IF THE SYSTEM IS SHUT DOWN ON EMERGENCY CONDITION.

IN EVENT OF FLAMMABLE VAPOUR REMOVAL

1. ACTIVATE ADDITIONAL SUPPLY & EXHAUST FAN TO RUN AT HIGH SPEED ACCORDINGLY IN THE EVENT OF FLAMMABLE VAPOR CONCENTRATIONS REACHING 25% ABOVE THE LOWER EXPLOSIVE LIMIT (LEL 5%), RUN FANS FOR 30 MINUTES. IF THE CONCENTRATIONS CONTINUE TO RISE AFTER 30 MIN, ACTIVATE ALL FANS TO RUN AT HIGHEST SPEED.
2. GENERATE ALARM AT BAS WHEN FLAMMABLE VAPOUR CONCENTRATIONS EXCEED LOWER EXPLOSIVE LIMIT (LEL 5%).

SEQUENCE OF OPERATION AT FREE COOLING

1. WHEN OUTDOOR AIR TEMPERATURE IS REACHING INDOOR SPACE TEMPERATURE, OUTDOOR AIR TEMPERATURE SENSOR TO FULLY OPEN BY-PASS MOTORIZED DAMPERS AT SUPPLY & EXHAUST AIR OF HEAT RECOVERY HEATPIPE.
2. HEAT RECOVERY HEAT PIPE SHALL BE OFF, GLYCOL WATER VALVE SHALL BE CLOSED.

IN EVENT OF FIRE:

1. THE SYSTEM SHALL BE SHUTDOWN BY FIRE ALARM SYSTEM IN A EVENT OF FIRE.

ALARM

- SUPPLY FAN FAILURE
- EXHAUST FAN FAILURE
- DISCHARGE AIR TEMPERATURE EXCEED HIGH LIMIT OR BELOW LOW LIMIT
- HUMIDITY EXCEED HIGH LIMIT OR BELOW LOW LIMIT
- FREEZESTAT FAILURE
- ANY MOTORIZED DAMPER FAILURE TO OPEN OR CLOSE
- DIRTY FILTER ALARM

Montgomery Sisam Architects Inc.

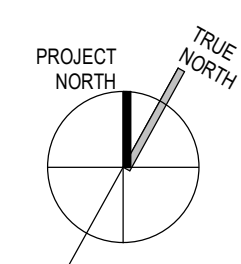
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11	2024-07-02	ISSUED FOR ADDENDUM NO 2	EXP
10	2024-06-29	ISSUED FOR TENDER	EXP
9	2024-01-09	ISSUED FOR 100% CD	EXP
8	2024-12-19	ISSUED FOR 10% CD DRAFT	EXP
7	2025-10-05	ISSUED FOR PERMIT	EXP
6	2024-11-08	RE-ISSUED FOR F&S REVIEW	EXP
5	2024-09-26	ISSUED FOR 80% CD	EXP
4	2024-05-30	ISSUED FOR 100% CD	EXP
3	2024-04-02	ISSUED FOR SHOWN PROGRESS	EXP
2	2024-03-14	REISSUED FOR 100% SCHEMATIC DESIGN	EXP
1	2024-03-08	ISSUED FOR 100% SCHEMATIC DESIGN	EXP
#	DATE	REVISION	BY
REVISIONS			

UNIVERSITY OF TORONTO
DENTISTRY BUILDING
CLINIC 2 RENOVATION
24082

124 EDWARD STREET
TORONTO, ON M5G 1G8

CONTROLS SCHEMATICS #1

SCALE: 1 : 1
DRAWN BY: Author
REVIEWED BY: Checker
JOB NUMBER: 24082
PLOT DATE: 02/04/25

DRAWING NUMBER:

M-603

HEAT RECOVERY UNIT SCHEDULE																																												
REFERENCE TAG	MANUFACTURER	MODEL	LOCATION	SUPPLY AIR					EXHAUST AIR					HEAT RECOVERY (HEAT PIPE)				COIL SECTION (COOLING MODE)					COIL SECTION (HEATING MODE)					HUMIDIFICATION (KG/HR)	EMERGENCY POWER (Y/N)	ELECTRICAL				OCTAVE BAND CENTER FREQUENCY (Hz)								WEIGHT (KG)		
				TOTAL AIRFLOW (US)	EACH FAN				TOTAL AIRFLOW (US)	EACH FAN				SUMMER		WINTER														VOLTAGE V/PH/Hz	FLA	MCA	LOCATION	63	125	250	500	1000	2000	4000	8000			
					AIR FLOW (US)	T.S.P (PA)	POWER (KW)	RPM		NO. OF FANS	AIR FLOW (US)	T.S.P (PA)	POWER (KW)	RPM	NO. OF FANS	E.A.T DB/WB (°C)	L.A.T DB/WB (°C)	E.A.T DB/WB (°C)	L.A.T DB/WB (°C)																									
																				COOLING CAPACITY (KW)	E.A.T DB/WB (°C)	L.A.T DB/WB (°C)	WATER FLOW (US)	E.W.T / L.W.T. (°C)	HEATING CAPACITY (KW)	E.A.T DB (°C)	L.A.T DB (°C)																WATER FLOW (US)	E.W.T / L.W.T. (°C)
HRV-2	ANNEXAIR	ERU-E-20-SL-HP-D-SL-SS-CA-6-M-T	LEVEL 3 ROOF	9,906	3301.0	1674.0	8.2	2125	3	9,906	3,301	844.00	4.3	1698	3	-	30.9/21.6	-	-5.4/-8.8	314	30.9/21.6	12.8/12.8	12.9	5.6/12.2	445	-5.4	31.1	21.5	48.9/43.3	172.8	N	575/360	53	56	SA / OUTLET	94	97	100	95	93	85	81	79	8,255
NOTES: - REFER TO SEPERATE SCHEDULES FOR REMOTE ELECTRICAL HUMIDIFIER - ACOUSTICLY LINED FAN SECTIONS AND INTERNAL SILENCERS AT AIR INLET AND EXHAUST AIR OUTLET, E.A. ACOUSTICAL LOUVER AND PERFORATED O.A. HOOD. - FACE & BYPASS OUTDOOR AIR FOR FROST CONTROL - INTERFACE WITH BAS. - CMV VFDS FOR SUPPLY FANS & EXHAUST FANS - PROVIDE EYE BOLT SUITABLE FOR RIGGING REQUIRED FOR REMOVAL OF FAN ASSEMBLIES, INCLUDING MOTORS FROM THE UNIT - MERV 13 FOR FINAL FILTER - PROVIDE VIBRATION ISOLATOR TYPE C-E (MASON INDUSTRIES) AS RECOMMENDED BY ACOUSTIC ENGINEER																																												

12A

DIFFUSER & GRILLE SCHEDULE							
REFERENCE TAG	MANUFACTURER	MODEL	DESCRIPTION	FACE SIZE	NECK SIZE	DAMPER	REMARKS
A1	E.H. PRICE	RCD	ROUND SUPPLY AIR DIFFUSER	AS PER DRAWING	AS PER DRAWING	Y	
A2	E.H. PRICE	SCD	SQUARE SUPPLY AIR DIFFUSER	600(W)x600(H)	ON PLAN	Y	
A3	E.H. PRICE	520	RECESSED DIFFUSER (LOW LEVEL SUPPLY AIR)	300(W) x 300(H)	300(W) x 300(H)	N	SURFACE MOUNTED
A4	E.H. PRICE	520	RECESSED DIFFUSER (LOW LEVEL SUPPLY AIR)	500(W) x 750(H)	500(W) x 750(H)	N	SURFACE MOUNTED
A5	E.H. PRICE	SDS 100	LINEAR DIFFUSER	1800 LONG	2500	Y	2 SLOT, 25 SLOT WIDTH C/W SDA PLENUM
A6	E.H. PRICE	SDS 100	LINEAR DIFFUSER	1500 LONG	2500	Y	2 SLOT, 25 SLOT WIDTH C/W SDA PLENUM
A7	E.H. PRICE	TBD7	LINEAR DIFFUSER	1220 LONG	2500	Y	4 SLOT, 1 WAY, 6" WIDTH C/W SDA PLENUM
A8	E.H. PRICE	SDS 100	LINEAR DIFFUSER	910 LONG	2500	Y	4 SLOT, 1 WAY, 6" WIDTH C/W SDA PLENUM
B1	E.H. PRICE	10	PERFORATED RETURN GRILLE	AS PER DRAWING	AS PER DRAWING	N	SURFACE MOUNTED
B2	E.H. PRICE	80	EGG CRATE GRILLE	600(W) x 600(H)	611 x 610	N	SURFACE MOUNTED
B3	E.H. PRICE	TBR7	LINEAR RETURN	1220 LONG	-	N	4 SLOT, 1 WAY, 6" WIDTH
C1	E.H. PRICE	80	EGG CRATE EXHAUST GRILLE	300(W)x300(H)	ON PLAN	N	SURFACE MOUNTED
C2	E.H. PRICE	80	EGG CRATE EXHAUST GRILLE (LOW LEVEL EXHAUST AIR)	300(W)x300(H)	ON PLAN	N	SURFACE MOUNTED
C3	E.H. PRICE	80	EGG CRATE EXHAUST GRILLE (LOW LEVEL EXHAUST AIR)	500(W)x750(H)	500(W) x 750(H)	N	SURFACE MOUNTED

NOTES:
1. GRILLE / DIFFUSER AND LOUVER TO BE PAINTED AS PER ARCHITECTURAL REQUIREMENT. FINISH TO BE CLARIFIED PRIOR TO ORDERING
2. PROVIDE VOLUME DAMPER FOR RETURN GRILLE DUCTED BACK TO THE UNIT.

VAV BOXES SCHEDULE														
TAG	AREA SERVED	MODEL	UNIT SIZE	MIN. AIRFLOW (L/S)	AIRFLOW (L/S)	DIFFERENTIAL PD (Pa)	ELECTRICAL REHEAT COIL CAPACITY (KW)	EAT (°C)	LAT (°C)	COIL AMPS	VOLTAGE	MAX DIS NC	MAX RAD NC	REMARKS
VAV-1	CLINIC (LOW LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/360	--	--	
VAV-2	CLINIC (LOW LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/360	--	--	
VAV-3	CLINIC (LOW LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/360	--	--	
VAV-4	CLINIC (LOW LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/360	--	--	
VAV-5	CLINIC (LINEAR DIFFUSERS)	SDV	14	203	700	2.5	4.50	29.40	35.00	12.49	208/360	--	--	
VAV-6	CLINIC (LINEAR DIFFUSERS)	SDV	12	142	600	2.5	3.90	29.40	35.00	10.75	208/360	--	--	
VAV-7	CLINIC (LINEAR DIFFUSERS)	SDV	12	142	600	2.5	3.90	29.40	35.00	10.75	208/360	--	--	
VAV-8	CLINIC (HIGH LEVEL SUPPLY)	SDV	16	272	945	2.5	6.10	29.40	35.00	16.93	208/360	--	--	
VAV-9	CLINIC (HIGH LEVEL SUPPLY)	SDV	12	142	472	2.5	3.90	29.40	35.00	14.42	208/360	--	--	
VAV-10	CLINIC (HIGH LEVEL SUPPLY)	SDV	12	142	472	2.5	3.90	29.40	35.00	14.42	208/360	--	--	
VAV-11	ACOA ROOM	SDV	4	31	56	2.5	0.50	29.40	35.00	2.40	208/360	--	--	
VAV-12	CLEAN DISPENSARY ROOMS	SDV	8	99	283	2.5	1.00	29.40	35.00	7.21	208/360	--	--	
VAV-13	ACOA OF ROOMS	SDV	10	126	388	2.5	2.40	29.40	35.00	11.54	208/360	--	--	
VAV-14	ACOA OF ROOMS	SDV	10	126	388	2.5	2.20	29.40	35.00	10.58	208/360	--	--	
VAV-15	HALLWAY	SDV	10	99	444	2.5	3.00	29.40	35.00	14.42	208/360	--	--	
VAV-16	WAITING AREA	SDV	10	99	444	2.5	3.00	29.40	35.00	14.42	208/360	--	--	
VAV-17	ACOA OF ROOMS	SDV	8	99	295	2.5	1.50	29.40	35.00	7.21	208/360	--	--	
VAV-18	CORRIDOR	SDV	6	62	112	2.5	0.50	29.40	35.00	2.40	208/360	--	--	
VAV-19	DIRTY DISPENSARY ROOMS	SDV	8	99	189	2.5	1.00	29.40	35.00	7.21	208/360	--	--	
VAV-20	SEMINAR ROOMS	SDV	14	243	811	2.5	4.50	29.40	35.00	12.49	208/360	--	--	
VAV-21	LAB	SDV	8	99	295	2.5	1.00	29.40	35.00	5.93	208/360	--	--	
VAV-22	CLINIC 2	SDV	10	108	381	2.5	2.20	29.40	35.00	10.58	208/360	--	--	

Notes:
- DASHES (-) INDICATE NC VALUES LESS THAN 20.
- NC VALUES ARE CALCULATED BASED ON PROCEDURES OUTLINED IN AHSI STANDARD 888-208, "A PROCEDURE FOR ESTIMATING OCCUPIED SPACE SOUNE LEVELS IN THE APPLICATION OF AIR TERMINALS AND AIR OUTLETS."
- SOUND POWER LEVELS ARE GIVEN IN DECIBELS (dB).
- DASHES (-) INDICATE SOUND POWER LEVELS BELOW 30-26-22-19-17 FOR EACH OCTAVE BAND. VALUES BELOW THESE SOUND POWER LEVELS ARE CONSIDERED BELOW SIGNIFICANCE PER AHSI 880.
- MINIMUM OPERATING PRESSURE IS THE MINIMUM STATIC PRESSURE REQUIRED TO OPERATE THE TERMINAL AT MAXIMUM PRIMARY FLOW WITH A WIDE OPEN DAMPER.
- NC VALUES ARE PERFORMED ON LOW POWER LEVELS DETERMINED IN ACCORDANCE WITH AHSI/ASHRAE STANDARD 133-2016 AND AHSI STANDARD 883-2017, WHICH INCLUDE OUT-OF-CHAM REFLECTION CORRECTIONS.
- C-W 3 FT ATTENUATOR.
- COILS, TEMPERATURE SENSORS ETC. SHALL COMPLY WITH LOT 6AS DESIGN.
- SOR CONTROL FOR ELECTRICAL REHEAT COIL.
- IN-TERFERENCE WITH BAS.

FAN SCHEDULE														
EQUIPMENT TAG	MANUFACTURER / MODEL	TYPE	AREA SERVED	LOCATION	AIR FLOW (L/S)	E.S.P. (PA)	FAN SPEED (RPM)	ELECTRICAL				EMERGENCY POWER (V/A)	WEIGHT (KG)	REMARKS
								VOLTAGE (V/PH/Hz)	POWER (KW)	FLA (A)	MOTOR (KW)			
EF-1	PENN BARRY / 210S-INLINE-SC	IN-LINE EXHAUST FAN	DARTY DISPENSARY ROOM	CEILING	236	62	1007	115/160	0.04	2.5	0.25	N	10	1, 2, 3, 4.
1. PROVIDE DIRECT DRIVE WITH EC MOTOR. 2. PROVIDE SPRING ISOLATORS AND BACKCRAFT DAMPER FOR ALL FANS. 3. INTERLOCK WITH AIR INTAKE VAV(S) 4. G.W. 50MM MERV-8 PLEATED FILTER AND FILTER BOX.														

ELECTRIC HEAT TRACING SCHEDULE								
TAG	SERVICE	PIPE		INSULATION (mm)	TENTATIVE OUTPUT (W/FT)	ELECTRICAL V/Phz	EMERGENCY POWER (Y/N)	COMMENTS
		DIAMETER (mm)	LENGTH (m)					
ETC-1	WATER/RAIN LINE HRV-01 HUMIDIFIER	20 840	7 X2	50.0	5	208/160	Y	
ETC-2	WATER/RAIN LINE HRV-02 HUMIDIFIER	20 840	7X2	50.0	5	208/160	Y	
ETC-3	ROOF LOW PRESSURE STEAM LINE FROM...	50	8.0	50.0	5	208/160	Y	
ETC-4	ROOF LOW PRESSURE STEAM LINE FROM...	50	5.0	50.0	5	208/160	Y	
ETC-5	ROOF CONDENSATE DRAIN FROM HRV-2	32	5.0	50.0	5	208/160	Y	

1. PROVIDE CABLE SEGMENTS AS REQUIRED TO COMPLETELY TRACE PIPING RUN AS INDICATED ON DRAWINGS.
2. PROVIDE RAYCLO (OR EQUIVALENT) POWERED AND UN-POWERED CONNECTIONS AND SUPPORTS AS REQUIRED TO PROVIDE COMPLETE SYSTEM.
3. COMMUNICATIONS CABLE IS REQUIRED TO BE EXTENDED FROM PIPE MOUNTED INTO BACK TO CONTROLLER. ALLOW FOR SUFFICIENT CABLES AND CONDUIT.
NOTES:
4. CONTROLS CABLE TO BE IN CONDUIT
5. HEAT TRACING AND PIPE SYSTEMS ARE DESIGNED FOR -10F AMBIENT TEMPERATURE
6. THIS SCHEDULE IS TO BE READ IN CONJUNCTION WITH SPECIFICATION 22 05 33 AND 23 07 19 REGARDING STANDARDS FOR PIPE INSULATION....

PLUMBING FIXTURE SCHEDULE											
TAG	TYPE	LOCATION	MANUFACTURER	MODEL	TRIM AND ACCESSORIES						
					FAUCET/VALVE	FIXTURE DRAIN AND P-TRAP	VALVES AND SUPPLIES	CARRIER	SEAT	MISC	NOTES
LAV-2	UNIVERSAL ACCESS COUNTERTOP BARRIER FREE SINK	PUBLIC WASHROOM	AMERICAN STANDARD	MEZZO SEMI-COUNTERTOP SINK 9960 403	AMERICAN STANDARD MONTERREY 5500 0175	OS&B 3737 STRAINER DRAIN,LESS OVERFLOW MCGUIRE 155WC FIXTURE DRAIN	MIXING VALVE LAWLER 570-86820 SUPPLY MCGUIRE LFBV170	-	-		
WC-1	AFWALL MILLENNIUM FLOWISE TOILET WALL HUNG , FLUSH VALVE TYPE,	PUBLIC WASHROOM	AMERICAN STANDARD	AFWALL MILLENNIUM FLOWISE 3352.101	SLOAN 111 ESS-1.28-YG-OR-HW	MCGUIRE	SUPPLY MCGUIRE LFH166LK	WATTS ISCA-101-LJR	CENTOCO SLOW CLOSE FRONT SEAT 820STSS-001 WITH COVER	24VAC POWER KIT SL-EL-154	-
WC-2	RIGHT WIDTH FLOWISE TOILET FLOOR MOUNTED , FLUSH VALVE TYPE,	PUBLIC WASHROOM	AMERICAN STANDARD	RIGHT WIDTH FLOWISE 3641001.020	SLOAN 111 ESS-1.28-YG-OR-HW	MCGUIRE	SUPPLY MCGUIRE LFH166LK	-	CENTOCO SLOW CLOSE FRONT SEAT 820STSS-001 WITH COVER	24VAC POWER KIT SL-EL-154	-
S-1	STAINLESS STEEL UNDER COUNTER MOUNTED SINK	PHARMACY LAB	ELKAY	ELKAY ELUH2115	ZURN Z831B3-XL	MCGUIREPW2150WC	MIXING VALVE LAWLER 570-86820 SUPPLY MCGUIRE LFCCK165LK	-	-	-	-
S-2	COUNTER MOUNTED	DENTAL OPERATORY	ADEC	ADEC 592	ADEC	MCGUIRE 155WC MCGUIRE 8872CB	MIXING VALVE LAWLER 570-86820 SUPPLY MCGUIRE LFCCK165LK	ADEC			
S-3	T- WALL SINK	DENTAL CHAIROPEN SPACE	ADEC	ADEC 593	ADEC	MCGUIRE 155WC MCGUIRE 8872CB.	MIXING VALVE LAWLER 570-86820 SUPPLY MCGUIRE LFCCK165LK	ADEC		LOOP VENT BY ADEC	OWNER PROVIDE COMBINED UINT SINK AND FAUCET. VALVES AND ALL RELATED TRIM PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR
S-4	COUNTER MOUNTED SINK FOR EYE WASH SPRAY	DENTAL CLINIC	ELKAY	ELKAY LUSTERTONE LR1918	NO FAUCET	MCGUIREPW2150WC	-	-	-	ONE HOLE TO SUIT EYE WASH SPRAY	OWNER PROVIDE COMBINED UINT SINK AND FAUCET. VALVES AND ALL RELATED TRIM PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR
EW-1	DECK MOUNTED EYE WASH SPRAY	DENTAL CLINIC	ULINE	DRENCH HOSE DECK MOUNT H-9459	-	-	MIXING VALVE AXION 9201EW, SUPPLY MCGUIRE LFBV170	-	-	-	
FD-1	FLOOR DRAIN	PUBLIC WASHROOM, UNIVERSAL CLEAN UTILITY,	WATTS	WATTS FD-100-C-FC9-1		100MM DRAIN		-	-	-	FOR VINYL OR TILE AREA FLOORING AREA AND RELSILENT SAFETY SHEET OR SAFETY SHEET...
HD-1	HUB DRAIN	AS INDICATED	WATTS	FD-100-C-F	-	75/50MM DRAIN	-				
TSP	ELECTRIC TRAP SEAL PRIMER	AS INDICATED	PPP	PT-4 TO PT-2130	-	-	-	-	-	-	TSP SERVICES FRROM 4 TRAPS UP TO 30 TRAPS, FINAL MODEL SHOULD BASED ON SERVICES TRAP NUMBER
NOTES:	1. COLOUR OF ALL FIXTURES (EXCEPT STAINLESS STEEL) & WATER CLOSET SEATS SHOULD BE WHITE OR PER ARCHOTECT REQUIREMENT. 2. QUANTITY OF FIXTURES AS INDICATED IN THE DRAWINGS 3. FIXTURES IN DENTAL OPERATORY SERVERY AREAS ARE SUPPLIED BY DENTAL CHAIR MANUFACTUROR.										



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Electrical Addendum No. 3

Reference: Coordination and Clarification

Issue Date: July 3, 2026

Project: U of T, Faculty of Dentistry
Clinic 2 Renovation

This addendum shall form an integral part of the Bid Documents for the above project and shall be read in conjunction therewith. This addendum shall, however, take precedence over all requirements of the previously issued Drawings and Specifications with which it may prove to be at variance, unless otherwise clarified by the Consultant.

This addendum must be signed by the Bidder in the appropriate space and must be attached to the back of the Bid Form for submission at the time of bidding. Bids not including this addendum signed as requested may be rejected as informal.

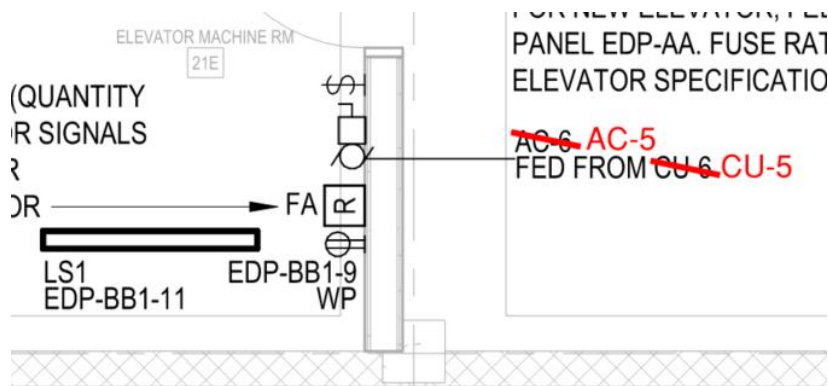
Revisions / Clarifications

The following changes and clarifications shall be considered when submitting your bid.

1. ELECTRICAL DRAWINGS

1.1. E-201: BASEMENT - POWER & SYSTEMS

- 1.1.1. Revise "AC-6" to "AC-5" and revise "CU-6" to "CU-5" to match mechanical design drawings. Drawing is not re-issued.



1.2. E-604: PANEL SCHEDULES (3)

1.2.1. Revise load info of cct# 21/23 of panel 065-NPP-02-02-BB as below.

21	CU-5 (Sub-Feed AC-5) ON ~~LOW~~ ROOF	20 A	2
23			

2. ELECTRICAL SPECIFICATIONS

N/A

----- END OF ELECTRICAL ADDENDUM No. 3 -----