PART 1 - ADDENDUM

1.1. INTENT

1.1.1. This Addendum is issued to provide for modifications and/or clarifications during Bidding and forms part of Bid and Contract Documents for above Project.

1.1.2. Except as otherwise specified herein, or as shown on accompanying Drawings, work required by this Addendum shall be in accordance with Specifications dated January 31, 2025, Drawings accompanying same and previously issued Addenda.

PART 2 - SPECIFICATIONS – PROCUREMENT AND CONTRACTING REQUIREMENTS GROUP AND SPECIFICATIONS GROUP

2.1. SPECIFICATIONS REVISIONS

2.1.1. Specification pages listed below accompany and form part of this Addendum.

2.1.2. Each revised Section voids and supersedes previously issued Section of same number in its entirety. Each page is marked at bottom with a "Revised & Reissued" entry that includes date of this issue. Extent of new, revised and/or deleted text is defined by leading and trailing ***1 . . . . . 1*** symbol, as applicable.

2.1.3. Revised Sections and Pages:

Section Number	Rev No.	Section Title	Page Numbers
00 01 10	04	Table of Contents	1 thru 8
09 60 13	02	Tactile Warning Surfacing	1 thru 5

PART 3 - CLARIFICATIONS

3.1. GENERAL CLARIFICATIONS

3.1.1. Following are general clarification items which form part of this Addendum:

3.1.1.1. Question No. 59:

3.1.1.1.1. Question: Are we to include 5-year maintenance for Elevators in our pricing?

3.1.1.1.2. Answer: No. Refer to Section 14 20 00, article 1.2. Maintenance: warranty period. Maintenance to begin at Substantial Performance and end 12 months after Substantial Performance. Omit PART 2 - SEPARATE PRICES and PART 3 - ALTERNATIVE PRICES in Section 14 20 00.

3.1.1.2. Question No. 60:

3.1.1.2.1. Question: During the Site visit, the Architect noted that the new demising wall, P5, on level 3 at rooms 325B & 327, gridline 4B/4C will require some wall bracing/support from the existing walls. Please provide details showing this bracing condition.

3.1.1.2.2. Answer: Refer to detail 11/A802 (Addendum No. 2) and Note added to Drawing A218 (Addendum No. 2).

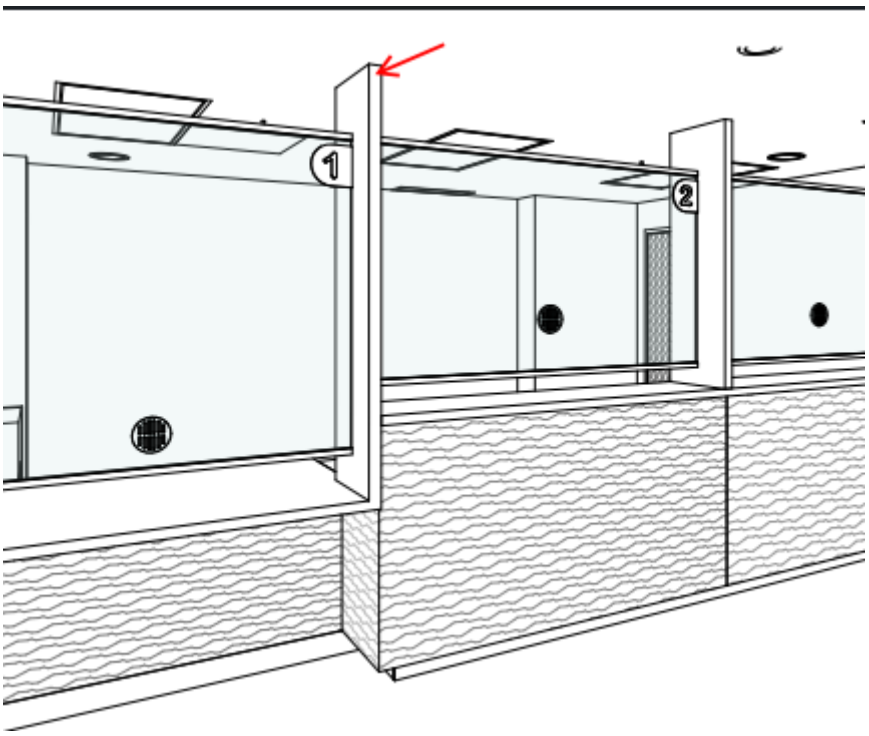
3.1.1.3. Question No. 61:

3.1.1.3.1. Question: Please provide location and details of expansion joints

3.1.1.3.2. Answer: Drawing A701 includes the locations and the descriptions for EXPANSION JOINT TYPES EJ01, EJ02, EJ03, EJ03-FR and EJ04.

3.1.1.4. Question No. 62:

3.1.1.4.1. Question: Can the architect confirm if these vertical panels are to match the countertop and extend to the wall, supplied by the millwork sub-contractor.



3.1.1.4.2. Answer: The materials of the vertical panels do not match the countertop finish. Refer to the WP-3 and WD-3 materials shown in detail 12/A820.

3.1.1.5. Question No. 63:

3.1.1.5.1. Question: Please clarify areas to be fireproofed with drawing number and areas marked

3.1.1.5.2. Answer: Refer to Note 9 in Drawing Nos. AD301 and AD302 and Note 18 in Drawing Nos. A310, A313, A314 and A315.

3.1.1.6. Question No. 64:

3.1.1.6.1. Question: Please clarify details of fireproofing scope and details of steel at 1st floor where the ceiling is clay.

3.1.1.6.2. Answer: New structural steel and associated connections for 1st floor ceiling (2nd level slab) shall receive cementitious spray applied fireproofing (SFRM) to achieve minimum 1-hr fire protection. Refer to Structural Drawing No. S202 for new steel beam locations and sizing.

3.1.1.7. Question No. 65:

3.1.1.7.1. Question: Please clarify scope Intumescent paint, it is listed in the specs and tender request, but we are unable to find it on drawings.

3.1.1.7.2. Answer: The 2-hr fire rated intumescent paint shall be applied to the structural 275 x 60 steel plate column supporting the floor structure of Elev. Access (106V), Elev. Access (237V), and Elev. Access (257V). Refer to details 13/A701B and 18/S701.

3.1.1.8. Question No. 66:

3.1.1.8.1. Question: Do we include firestopping on the existing firestopping and the new on life safety plans as shown on drawing A100.

3.1.1.8.2. Answer: Yes. Also, refer to Note 65 in Drawing Nos. A213, A214 and A216.

3.1.1.9. Question No. 67:

3.1.1.9.1. Question: What cover plates are anticipated for the interior expansion joint locations?

3.1.1.9.2. Answer: Refer to Product Notes in Drawing No. A701. All aluminum cover plate finishes are to visually match. All aluminum cover plate fasteners to be countersunk flush or concealed.

3.1.1.10. Question No. 68:

3.1.1.10.1. Question: Are there interior expansion Joint details?

3.1.1.10.2. Answer: Refer to revised Drawing Nos. A310, A313, A314 and A316 for clarification of ceiling expansion joint locations and alignment of adjacent partitions/finishes. Refer to revised Drawing No. A701 for updated expansion joint product types. Refer to revised Drawing No. A701 for clarifications of wall types and expansion joint locations. Refer to revised plan detail 3/A701B for alignment of finished expansion joint cover plates (wall, floor and ceiling).

PART 4 - DRAWINGS

4.1. DRAWING NO: A211

4.1.1. Drawing No. A211 attached is modified as follows:

4.1.1.1. “Detectable Warning Surface” note changed to “4 mm high type 316 stainless steel truncated domes 22 mm in diameter with concentric rings centre dome pattern fastened to the granite pavers”.

4.2. DRAWING NO: A310

4.2.1. Drawing No. A310 attached is modified as follows:

4.2.1.1. Added ceiling expansion joint location at ELEV. ACCESS 106V

4.3. DRAWING NO: A313

4.3.1. Drawing No. A313 attached is modified as follows:

4.3.1.1. Added ceiling expansion joint location at Elevator Landing.

4.4. DRAWING NO: A314

4.4.1. Drawing No. A314 attached is modified as follows:

4.4.1.1. Added ceiling expansion joint location at Elevator Landing.

4.5. DRAWING NO: A316

4.5.1. Drawing No. A316 attached is modified as follows:

4.5.1.1. Added ceiling expansion joint location at Elevator Landing.

4.6. DRAWING NO: A701

4.6.1. Drawing No. A701 attached is modified as follows:

4.6.1.1. Expansion joint product types revised. Wall types and expansion joint locations clarified.

4.7. DRAWING NO: A701B

4.7.1. Drawing No. A701B attached is modified as follows:

4.7.1.1. Detail 3/A701B revised to show alignment of finished expansion joint cover plates (wall, floor and ceiling).

4.8. DRAWING NO: L-RP

4.8.1. Drawing No. L-RP attached is modified as follows:

4.8.1.1. Reissued for Clarity. No revisions.

4.9. DRAWING NO: L-L1

4.9.1. Drawing No. L-L1 attached is modified as follows:

4.9.1.1. Granite paver pattern changed.

4.9.1.2. Paving product changed to STO-1, 50 mm Picasso Granite - Flamed Finish.

4.9.1.3. Crushed stone product changed to STO-1, Picasso Granite - Flamed Finish.

4.9.1.4. Tactile Plate Indicator changed to Tactile Walking Surface Indicators (TWSI).

4.10. DRAWING NO: L-D1

4.10.1. Drawing No. L-D1 attached is modified as follows:

4.10.1.1. Paving product in Details 4, 8 & 9 changed to STO-1, 50 mm Picasso Granite - Flamed Finish.

4.10.1.2. Crushed stone product in Detail 6 changed to STO-1, Picasso Granite - Flamed Finish.

4.10.1.3. Tactile Plate Indicator changed to Tactile Walking Surface Indicators (TWSI).

PART 5 - MECHANICAL

5.1. MECHANICAL REQUIREMENTS

5.1.1. Mechanical Consultant has issued “Tender Addendum: M-04” which is 1 page and dated “March 25, 2025" and forms part of this Addendum.

PART 6 - ELECTRICAL

6.1. ELECTRICAL REQUIREMENTS

6.1.1. Electrical Consultant has issued “Bid Addendum No. #04” which is 4 pages and dated “March 25, 2025" and forms part of this Addendum.

PART 7 - COMMUNICATIONS

7.1. COMMUNICATIONS REQUIREMENTS

7.1.1. Communications Consultant has issued “Addendum No. ADD-D-04” which is 2 pages and dated “March 25, 2025" and forms part of this Addendum.

END OF SECTION

PROCUREMENT AND CONTRACTING REQUIREMENTS GROUP					
DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS					
INTRODUCTORY INFORMATION					
Section No.	***Section Title***	***Rev. No.***	***Date***	***Consult.***	***Page No's***
00 00 01	PROJECT TITLE PAGE	--	2025-01-31	EAI	1 Only
00 01 05	LIST OF CONSULTANTS	00	2025-01-31	EAI	1 and 2
00 01 10	**TABLE OF CONTENTS**	**04**	**2025-03-25**	**EAI**	**1 thru 8**
00 01 15	LIST OF DRAWINGS	00	2025-01-31	EAI	1 and 2
00 01 20	LIST OF SCHEDULES	01	2025-03-21	EAI	1 Only
PROCUREMENT REQUIREMENTS					
00 30 00	AVAILABLE INFORMATION	00	2025-01-31	EAI	1 and 2
CONTRACTING REQUIREMENTS					
00 65 37	MAINTENANCE MATERIAL FORM (SPECIMEN)	00	2025-01-31	EAI	1 Only
*00 70 00	"AGREEMENT BETWEEN OWNER AND CONTRACTOR", "DEFINITIONS" AND "GENERAL CONDITIONS", STANDARD CONSTRUCTION DOCUMENT CCDC 2 - 2020				Not Enclosed
00 71 00	AMENDMENTS TO DEFINITIONS	00	2025-01-31	EAI	1 and 2
00 91 01	BID ADDENDUM NO. 1		2025-03-07	EAI	1 thru 3
00 91 02	ADDENDUM NO. 2		2025-07-14	EAI	1 thru 3
00 91 03	ADDENDUM NO. 3		2025-03-21	EAI	1 thru 11
00 91 04	**ADDENDUM NO. 4**		**2025-03-25**	**EAI**	**1 thru 4**
SPECIFICATIONS GROUP ***GENERAL REQUIREMENTS SUBGROUP***					
DIVISION 01 – GENERAL REQUIREMENTS					
01 33 23	INTERFERENCE DRAWINGS	00	2025-03-07	EAI	1 Only
*01 35 91	HERITAGE PROTECTIVE MEASURES	00	2025-01-31	EVOQ	1 thru 5
*01 42 16	HERITAGE DEFINITIONS	00	2025-01-31	EVOQ	1 and 2
FACILITY CONSTRUCTION SUBGROUP					
DIVISION 02 – EXISTING CONDITIONS					
02 41 00	DEMOLITION AND SALVAGE	00	2025-01-31	EAI	1 thru 6
*02 42 20	REMOVAL AND SALVAGE OF HERITAGE MATERIALS	01	2025-03-07	EVOQ	1 thru 5

DIVISION 03 – CONCRETE					
*03 01 37	CONCRETE RESTORATION	04	2025-01-31	EC	1 thru 14
*03 10 00	CONCRETE FORMING	04	2025-01-31	EC	1 thru 11
*03 20 00	CONCRETE REINFORCEMENT	04	2025-01-31	EC	1 thru 7
*03 30 00	CAST-IN-PLACE CONCRETE	04	2025-01-31	EC	1 thru 18
*03 30 53	MISCELLANEOUS CAST-IN-PLACE CONCRETE	00	2025-01-31	HKA	1 thru 4
03 35 13	CONCRETE FLOOR FINISHING	00	2025-01-31	EAI	1 thru 7
03 54 00	CAST CEMENT UNDERLAYMENT	00	2025-01-31	EAI	1 thru 5
DIVISION 04 – MASONRY					
*04 03 01	COMMON WORK RESULTS FOR HERITAGE MASONRY	00	2025-01-31	EVOQ	1 thru 7
*04 03 01.13	HERITAGE MASONRY CLEANING	00	2025-01-31	EVOQ	1 thru 9
*04 03 05.13	HERITAGE MORTARING	00	2025-01-31	EVOQ	1 thru 7
*04 03 05.21	HERITAGE REPOINTING	00	2025-01-31	EVOQ	1 thru 5
*04 03 42.13	HERITAGE STONE REPAIRING	00	2025-01-31	EVOQ	1 thru 7
*04 03 43.16	HERTAGE STONE REPLACING	00	2025-01-31	EVOQ	1 thru 3
*04 03 43.19	HERITAGE STONE DISMANTLING	00	2025-01-31	EVOQ	1 thru 5
*04 03 43.20	HERITAGE STONE REBUILDING	00	2025-01-31	EVOQ	1 thru 3
04 20 00	MASONRY UNITS	00	2025-01-31	EAI	1 thru 17
DIVISION 05 – METALS					
*05 12 00	STRUCTURAL STEEL	04	2025-01-31	EC	1 thru 22
*05 31 10	STEEL DECK	04	2025-01-31	EC	1 thru 8
05 41 00	STRUCTURAL METAL STUD FRAMING SYSTEM	00	2025-01-31	EAI	1 thru 11
05 50 00	METAL FABRICATIONS	00	2025-01-31	EAI	1 thru 8
05 51 00	METAL STAIRS AND BALUSTRADES	00	2025-01-31	EAI	1 thru 6
05 73 13	GLAZED DECORATIVE METAL RAILINGS	00	2025-01-31	EAI	1 thru 10
DIVISION 06 – WOOD, PLASTICS AND COMPOSITES					
06 10 00	ROUGH CARPENTRY	00	2025-01-31	EAI	1 thru 4
06 40 00	ARCHITECTURAL WOODWORK	00	2025-01-31	EAI	1 thru 7
06 61 16	SOLID SURFACING FABRICATIONS	00	2025-01-31	EAI	1 thru 7
06 90 00	GENERAL INSTALLATIONS	00	2025-01-31	EAI	1 thru 4
DIVISION 07 – THERMAL AND MOISTURE PROTECTION					
07 11 13	BITUMINOUS DAMPPROOFING	00	2025-03-21	EAI	1 thru 3
07 16 16	CRYSTALLINE WATERPROOFING	00	2025-01-31	EAI	1 thru 5
07 18 13	MECHANICAL ROOM WATERPROOFING	00	2025-01-31	EAI	1 thru 5
07 21 00	BUILDING INSULATION	00	2025-01-31	EAI	1 thru 6
07 21 19	FOAMED-IN-PLACE INSULATION	00	2025-01-31	EAI	1 thru 3
07 21 29	SPRAYED INSULTATION	00	2025-01-31	EAI	1 thru 4
07 25 00	MISCELLANEOUS AIR/VAPOUR BARRIERS	00	2025-01-31	EAI	1 thru 7
07 42 44	ALUMINUM MODULAR PLATE SYSTEM	00	2025-01-31	EAI	1 thru 10

07 52 16	MODIFIED BITUMINOUS MEMBRANE ROOFING	00	2025-01-31	EAI	1 thru 16
07 62 00	SHEET METAL FLASHING AND TRIM	00	2025-01-31	EAI	1 thru 4
07 81 00	SPRAYED FIRE-RESISTIVE MATERIALS	00	2025-01-31	EAI	1 thru 6
07 81 23	INTUMESCENT FIRE RESISTIVE COATINGS	00	2025-01-31	EAI	1 thru 9
07 84 00	FIRESTOPPING AND SMOKE SEALS	00	2025-01-31	EAI	1 thru 13
07 92 00	JOINT SEALANTS	00	2025-01-31	EAI	1 thru 10
07 95 13	EXPANSION JOINT ASSEMBLIES	00	2025-01-31	EAI	1 thru 6
DIVISION 08 – OPENINGS					
*08 03 52.71	HERITAGE WOOD WINDOW AND DOOR REHABILITATION	00	2025-01-31	EVOQ	1 thru 6
08 06 80	GLAZING SCHEDULE	00	2025-01-31	EAI	1 thru 4
08 11 13	HOLLOW METAL DOORS AND FRAMES	00	2025-01-31	EAI	1 thru 9
08 11 16	ALUMINUM DOORS AND FRAMES	00	2025-01-31	EAI	1 thru 7
08 15 00	PLASTIC LAMINATE WOOD DOORS	00	2025-01-31	EAI	1 thru 6
08 31 13	ACCESS DOORS AND FRAMES	00	2025-01-31	EAI	1 thru 4
08 33 25	FIRE-RATED OVERHEAD COILING DOORS	00	2025-01-31	EAI	1 thru 5
08 43 14	ALUMINUM FRAMED FIRE-RATED STOREFRONTS	00	2025-01-31	EAI	1 thru 10
08 44 13	GLAZED ALUMINUM CURTAIN WALL	00	2025-01-31	EAI	1 thru 30
08 51 13	ALUMINUM WINDOWS	00	2025-01-31	EAI	1 thru 16
*08 71 00	FINISH HARDWARE	00	2025-01-31	UCSH	1 thru 9
08 71 13	AUTOMATIC DOOR OPERATORS	00	2025-01-31	EAI	1 thru 6
08 80 00	GLASS AND GLAZING	00	2025-01-31	EAI	1 thru 9
08 91 00	**DELETED** ~~LOUVRES~~	~~00~~	~~2025-01-31~~	~~EAI~~	~~1 thru 7~~
DIVISION 09 – FINISHES					
*09 03 91	HERITAGE PAINTING	00	2025-01-31	EVOQ	1 thru 6
09 21 16	GYPSUM BOARD ASSEMBLIES	00	2025-01-31	EAI	1 thru 16
09 27 13	GLASS-FIBRE-REINFORCED GYPSUM FABRICATIONS	00	2025-01-31	EAI	1 thru 4
09 30 00	TILING	00	2025-01-31	EAI	1 thru 11
09 51 13	ACOUSTICAL PANEL CEILINGS	00	2025-01-31	EAI	1 thru 8
09 60 13	**TACTILE WARNING SURFACING**	**02**	**2025-03-25**	**EAI**	**1 thru 5**
09 62 19	LAMINATE FLOORING	00	2025-01-31	EAI	1 thru 6
09 65 13	RESILIENT BASE AND ACCESSORIES	00	2025-01-31	EAI	1 thru 3
09 65 43	LINOLEUM	00	2025-01-31	EAI	1 thru 6
09 84 13	FIXED SOUND-ABSORPTIVE PANELS	00	2025-01-31	EAI	1 thru 4
09 91 00	PAINTING	00	2025-01-31	EAI	1 thru 16
09 96 03	HIGH-PERFORMANCE INTERIOR COATINGS	00	2025-01-31	EAI	1 thru 4
DIVISION 10 – SPECIALTIES					
10 22 26	FOLDING PANEL OPERABLE PARTITIONS	00	2025-01-31	EAI	1 thru 4
10 28 00	WASHROOM ACCESSORIES	01	2025-03-21	EAI	1 thru 5
10 51 13	METAL LOCKERS	01	2025-03-21	EAI	1 thru 4

DIVISION 12 – FURNISHINGS					
12 24 13	MANUAL ROLLER WINDOW SHADES	00	2025-01-31	EAI	1 thru 6
12 24 14	MOTORIZED ROLLER WINDOW SHADES	00	2025-01-31	EAI	1 thru 7
12 48 16	ENTRANCE FLOOR GRILLES	00	2025-01-31	EAI	1 thru 3
*12 93 00	SITE FURNISHINGS	00	2025-01-31	HKA	1 Only
DIVISION 14 – CONVEYING EQUIPMENT					
*14 20 00	ELEVATORS: GENERAL		2025-01-31	KJA	1 thru 19
*14 21 23	MRL PASSENGER ELEVATOR		2025-01-31	KJA	1 thru 35
*14 41 00	PLATFORM LIFT		2025-01-31	KJA	1 thru 9
*14900	ELEVATORS: MAINTENANCE		2025-01-31	KJA	1 thru 21
FACILITY SERVICES SUBGROUP					
DIVISION 20 – MECHANICAL GENERAL REQUIRMENTS					
*20 05 00	GENERAL INSTRUCTIONS FOR MECHANICAL SECTIONS	00	2025-01-31	S+A	1 thru 20
*20 05 01	ABBREVIATIONS	00	2025-01-31	S+A	1 thru 6
*20 05 02	AS-BUILT DRAWINGS	00	2025-01-31	S+A	1 and 2
*20 05 03	SHOP DRAWINGS	00	2025-01-31	S+A	1 and 2
*20 05 05	SELECTIVE DEMOLITION FOR MECHANICAL SERVICES	00	2025-01-31	S+A	1 thru 4
*20 05 29	HANGERS AND SUPPORTS	00	2025-01-31	S+A	1 thru 5
*20 05 48	VIBRATION AND NOISE CONTROL	00	2025-01-31	S+A	1 thru 6
*20 05 53	PIPE AND DUCTWORK IDENTIFICATION	00	2025-01-31	S+A	1 and 2
*20 05 54	NAMEPLATES	00	2025-01-31	S+A	1 Only
*20 05 55	VALVE TAGS AND CHARTS	00	2025-01-31	S+A	1 Only
*20 05 63	ACCESS DOORS AND ACCESSIBILITY	00	2025-01-31	S+A	1 and 2
*20 05 73	EXCAVATION AND BACKFILL FOR MECHANICAL WORK	00	2025-01-31	S+A	1 and 2
*20 05 83	SLEEVES AND ESCUTCHEONS	00	2025-01-31	S+A	1 thru 3
*20 05 88	CUTTING AND PATCHING	00	2025-01-31	S+A	1 and 2
*20 07 00	INSULATION	00	2025-01-31	S+A	1 thru 15
*20 08 02	CLEANING AND PROTECTION	00	2025-01-31	S+A	1 Only
*20 08 03	OPERATING AND MAINTENANCE INSTRUCTIONS	00	2025-01-31	S+A	1 thru 3
DIVISION 21 – FIRE SUPPRESSION					
*21 12 00	STANDPIPE AND FIRE HOSE SYSTEM	00	2025-01-31	S+A	1 and 2
*21 12 26	FIRE HOSE CABINETS	00	2025-01-31	S+A	1 and 2
*21 13 00	SPRINKLER SYSTEMS	00	2025-01-31	S+A	1 thru 7
*21 25 00	PORTABLE FIRE EXTINGUISHERS	00	2025-01-31	S+A	1 Only
DIVISION 22 – PLUMBING					
*22 05 76	CLEANOUTS	00	2025-01-31	S+A	1 Only
*22 11 13	PIPES, VALVES AND FITTINGS (PLUMBING SYSTEM)	00	2025-01-31	S+A	1 thru 9

*22 11 23.29	CIRCULATORS	00	2025-01-31	S+A	1 Only
*22 13 19.13	FLOOR DRAINS	00	2025-01-31	S+A	1 and 2
*22 13 19.26	INTERCEPTORS	00	2025-01-31	S+A	1 Only
*22 42 00	FIXTURES AND TRIM	00	2025-01-31	S+A	1 thru 4
*22 42 46	FIXTURE CARRIERS	00	2025-01-31	S+A	1 and 2
*22 47 13	REFRIGERATED DRINKING FOUNTAINS AND BOTTLE FILLERS	00	2025-01-31	S+A	1 Only
DIVISION 23 – HEATING, VENTILATING AND AIR CONDITIONING					
*23 05 93.16	TESTING AND BALANCING PIPING SYSTEMS	00	2025-01-31	S+A	1 Only
*23 05 93.26	TESTING AND BALANCING AIR SYSTEMS	00	2025-01-31	S+A	1 and 2
*23 09 00	BUILDING AUTOMATION SYSTEM (BAS)	00	2025-01-31	S+A	1 thru 28
*23 09 23	SEQUENCE OF OPERATION FOR BAS	00	2025-01-31	S+A	1 thru 5
*23 21 13.23	PIPING, VALVES & FITTINGS (EXCEPT PLUMBING)	00	2025-01-31	S+A	1 thru 10
*23 23 01	REFRIGERANT PIPING	00	2025-01-31	S+A	1 thru 5
*23 25 26	CLEANING AND FILLING	00	2025-01-31	S+A	1 thru 3
*23 31 13	DUCTWORK AND SPECIALTIES	00	2025-01-31	S+A	1 thru 12
*23 34 53	ROOM VENTILATORS	00	2025-01-31	S+A	1 and 2
*23 36 16	VARIABLE VOLUME BOXES	00	2025-01-31	S+A	1 thru 3
*23 37 13	DIFFUSERS, GRILLES AND REGISTERS	00	2025-01-31	S+A	1 thru 3
*23 81 26	UNITARY AIR CONDITIONING UNITS	00	2025-01-31	S+A	1 and 2
*23 82 16	COILS	00	2025-01-31	S+A	1 and 2
*23 82 33	CONVECTOR RADIATORS	00	2025-01-31	S+A	1 and 2
	*HEATING COIL SCHEDULE		2025-01-31	S+A	1 Only
	*VAV SCHEDULE		2025-01-31	S+A	1 Only
	*AC UNIT SCHEDULE		2025-03-20	S+A	1 Only
	*KITCHEN ECOLOGY UNIT SCHEDULE		2025-01-31	S+A	1 Only
	*FAN SCHEDULE		2025-03-20	S+A	1 Only
DIVISION 26 – ELECTRICAL					
*26 01 00	OPERATING AND MAINTENANCE INSTRUCTIONS	00	2025-01-31	S+A	1 thru 3
*26 05 01	GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS	00	2025-01-31	S+A	1 thru 25
*26 05 03	AS-BUILT DRAWINGS	00	2025-01-31	S+A	1 and 2
*26 05 04	SUBMITTALS/SHOP DRAWINGS	00	2025-01-31	S+A	1 and 2
*26 05 05	MOUNTING HEIGHTS	00	2025-01-31	S+A	1 and 2
*26 05 21	WIRES AND CABLES UNDER 2000 V	00	2025-01-31	S+A	1 thru 7
*26 05 21.01	PATIENT CARE WIRING	00	2025-01-31	S+A	1 thru 4
*26 05 26	GROUNDING + BONDING	00	2025-01-31	S+A	1 thru 4
*26 05 29	HANGERS AND SUPPORTS	00	2025-01-31	S+A	1 Only
*26 05 31	SPLITTERS, JUNCTION, PULL BOXES AND CABINETS	00	2025-01-31	S+A	1 and 2
*26 05 32	OUTLET BOXES, CONDUIT BOXES AND FITTINGS	00	2025-01-31	S+A	1 and 2
*26 05 34	CONDUITS, CONDUIT FASTENERS AND FITTINGS	00	2025-01-31	S+A	1 thru 4
*26 05 36	CABLE TRAYS	00	2025-01-31	S+A	1 thru 4
*26 05 40	POKE-THRU DEVICES	00	2025-01-31	S+A	1 and 2

*26 05 53	IDENTIFICATION	00	2025-01-31	S+A	1 thru 5
*26 05 63	ACCESS DOORS AND ACCESSIBILITY	00	2025-01-31	S+A	1 and 2
*26 05 73	ELECTRICAL POWER SYSTEM STUDIES	00	2025-01-31	S+A	1 thru 4
*26 05 83	SLEEVES	00	2025-01-31	S+A	1 and 2
*26 05 88	CUTTING AND PATCHING	00	2025-01-31	S+A	1 and 2
*26 08 01	TECHNICAL SERVICES DIVISION STARTUP SERVICE	00	2025-01-31	S+A	1 thru 12
*26 09 24	LIGHTING CONTROL EQUIPMENT - ADDRESSABLE LOW VOLTAGE	00	2025-01-31	S+A	1 thru 13
*26 12 17	DRY TYPE TRANSFORMERS - 600V PRIMARY	00	2025-01-31	S+A	1 thru 3
*26 24 13	SWITCHBOARDS	00	2025-01-31	S+A	1 thru 4
*26 24 17	PANELBOARDS - BREAKER TYPE	00	2025-01-31	S+A	1 thru 3
*26 27 02	SURGE PROTECTIVE DEVICE	00	2025-01-31	S+A	1 thru 5
*26 27 13	ELECTRONIC METERING	00	2025-01-31	S+A	1 thru 10
*26 27 19	MULTI-OUTLET ASSEMBLIES	00	2025-01-31	S+A	1 and 2
*26 27 26	WIRING DEVICES	00	2025-01-31	S+A	1 thru 4
*26 28 14	FUSES LOW VOLTAGE	00	2025-01-31	S+A	1 and 2
*26 28 21	MOULDED CASE AND INSULATED CASE CIRCUIT BREAKERS	00	2025-01-31	S+A	1 thru 4
*26 28 23	DISCONNECT SWITCHES - FUSED AND NON-FUSED	00	2025-01-31	S+A	1 and 2
*26 29 00	MOTOR STARTERS TO 600 V	00	2025-01-31	S+A	1 thru 6
*26 51 13	LIGHTING EQUIPMENT	00	2025-01-31	S+A	1 thru 8
*26 60 10	SNOW MELTING SYSTEM	00	2025-01-31	S+A	1 thru 4
*26 60 30	ROOF AND GUTTER DE-ICING SYSTEMS	00	2025-01-31	S+A	1 thru 3
DIVISION 27 – COMMUNICATIONS					
*27 00 05.10	GENERAL INSTRUCTIONS FOR TELECOMMUNICATIONS SECTIONS	00	2025-01-31	S+A	1 thru 8
*27 00 05.20	DEFINITIONS AND ABBREVIATIONS	00	2025-01-31	S+A	1 thru 9
*27 00 05.30	CODES, STANDARDS AND REGULATIONS	00	2025-01-31	S+A	1 thru 3
*27 00 05.50	CONTRACT DOCUMENTS	00	2025-01-31	S+A	1 Only
*27 00 05.60	ADMINSTRATIVE REQUIREMENTS	00	2025-01-31	S+A	1 thru 4
*27 00 05.70	PROJECT SPECIFIC REQUIREMENTS	00	2025-01-31	S+A	1 thru 3
*27 00 06	FIRE STOPPING AND WATER PROOFING	00	2025-01-31	S+A	1 thru 4
*27 05 28	PATHWAYS FOR TELECOMMUNICATIONS SYSTEMS	00	2025-01-31	S+A	1 thru 5
*27 05 53	IDENTIFICATION FOR TELECOMMUNICATIONS SYSTEMS	00	2025-01-31	S+A	1 and 2
*27 08 00	COMMISSIONING FOR TELECOMMUNICATIONS SECTIONS	00	2025-01-31	S+A	1 thru 6
*27 11 16	TELECOMMUNICATIONS CABINETS, RACKS, FRAMES AND ENCLOSURES	00	2025-01-31	S+A	1 thru 3
*27 11 19	TELECOMMUNICATIONS TERMINATION BLOCKS AND PATCH PANELS	00	2025-01-31	S+A	1 Only
*27 13 23	TELECOMMUNICATIONS OPTICAL FIBRE BACKBONE CABLING	00	2025-01-31	S+A	1 thru 4
*27 15 00.19	DATA TELECOMMUNICATIONS HORIZONTAL CABLING	00	2025-01-31	S+A	1 thru 3
*27 15 33.00	TELECOMMUNICATIONS COAXIAL HORIZONTAL CABLING	00	2025-01-31	S+A	1 and 2

*27 15 43	TELECOMMUNICATIONS FACEPLATES AND CONNECTORS	00	2025-01-31	S+A	1 thru 4
*27 16 19	TELECOMMUNICATIONS PATCH CORDS AND CROSS CONNECT WIRE	00	2025-01-31	S+A	1 and 2
	*COMMUNICATIONS INFRASTRUCTURE SPECIFICATIONS, STANDARDS AND PRACTICES		2025-01	UofT	38 pages
DIVISION 28 – ELECTRONIC SAFETY AND SECURITY					
*28 00 03	ADMINISTRATIVE REQUIREMENTS		2025-01-31	S+A	1 thru 3
*28 00 05.30	CODES, STANDARDS, AND REGULATIONS		2025-01-31	S+A	1 thru 3
*28 00 06	FIRE STOPPING AND WATER PROOFING		2025-01-31	S+A	1 thru 4
*28 01 00	GENERAL INSTRUCTIONS FOR ESS SECTIONS		2025-01-31	S+A	1 thru 6
*28 01 01	OPERATION AND MAINTENANCE OF ELECTRONIC SAFETY AND SECURITY		2025-01-31	S+A	1 Only
*28 05 00	RACEWAYS FOR SECURITY SYSTEM	00	2025-01-31	S+A	1 Only
*28 05 00	COMMON WORK RESULTS FOR ELECTRONIC SAFETY AND SECURITY		2025-01-31	S+A	1 and 2
*28 05 03	RECORD DRAWINGS		2025-01-31	S+A	1 thru 3
*28 05 04	SUBMITTALS - SHOP DRAWINGS		2025-01-31	S+A	1 and 2
*28 05 05.20	DEFINITIONS AND ABBREVIATIONS		2025-01-31	S+A	1 thru 6
*28 05 13	CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY		2025-01-31	S+A	1 thru 4
*28 05 26	GROUNDING AND BONDING FOR ELECTRONIC SAFETY AND SECURITY		2025-01-31	S+A	1 and 2
*28 05 28	PATHWAYS FOR ELECTRONIC SAFETY AND SECURITY		2025-01-31	S+A	1 thru 3
*28 05 53	IDNETIFICATION FOR ELECTRONIC SAFETY AND SECURITY		2025-01-31	S+A	1 and 2
*28 08 00	COMMISSIONING OF ELECTRONIC SAFETY AND SECURITY		2025-01-31	S+A	1 thru 3
*28 31 02	MULTIPLEX FIRE ALARM SYSTEM	00	2025-01-31	S+A	1 thru 18
SITE AND INFRASTRUCTURE SUBGROUP					
DIVISION 32 – EXTERIOR IMPROVEMENTS					
*32 13 13	CONCRETE PAVING	00	2025-01-31	HKA	1 thru 5
*32 14 13	UNIT PAVING	00	2025-01-31	HKA	1 and 2
*32 93 00	PLANTING	00	2025-01-31	HKA	1 thru 6

LEGEND

** - Specifications prepared by Consultants other than ENFORM Architects Inc. have been prefixed with an asterisk. These Specifications are not included under, nor governed by ENFORM Architects Inc.'s seal.*

Consultant's Abbreviations:

UofT	*University of Toronto*	*Owner*
EAI	*ENFORM Architects Inc.*	*Architectural (A)*
EC	*Entuitive Corporation*	*Structural Consultant (S)*
EVOQ	*EVOQ Architecture*	*Heritage Consultant*
UCSH	*Upper Canada Specialty Hardware Limited*	*Hardware Consultant*

S+A	*Smith + Andersen*	*Mechanical Consultant (M)*
S+A	*Smith + Andersen*	*Electrical Consultant (E)*
KJA	*KJA Consultants Inc.*	*Vertical Transportation Consultant*
MBII	*Mulvey & Banani International Inc.*	*Security Consultant*
HKA	*Henry Kortekaas and Associates Inc.*	*Landscape Consultant (L)*

END OF SECTION

PART 1 - GENERAL

1.1. GENERAL INSTRUCTIONS

1.1.1. Read and conform to:

1.1.1.1. CCDC 2 - 2020, Stipulated Price Contract as amended in the Contract Documents.

1.1.1.2. Division 1 requirements and documents referred to therein.

1.2. SUMMARY

1.2.1. Section Includes: Provide tactile warning surfacing including but not limited to following:

1.2.1.1. cast-in-place tactile warning surfacing.

1.2.1.2. surface applied tactile warning surfacing.

1.2.2. Related Sections: Following description of work is included for reference only and shall not be presumed complete:

1.2.2.1. Filling and sealing of sawcut joints in concrete slab: Section 03 35 13, Concrete Floor Finishing.

1.2.2.2. Provision of laminate flooring: Section 09 62 19, Laminate Flooring.

1.2.2.3. Provision of linoleum sheet flooring: Section 09 65 43, Linoleum.

1.3. REFERENCES

1.3.1. Abbreviations and Acronyms:

1.3.1.1. SDS: Safety Data Sheet.

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1.3.2. Reference Standards:

1.3.2.1. ASTM A48/A48M-22 - Standard Specification for Gray Iron Castings ***1***

1.4. ADMINISTRATIVE REQUIREMENTS

1.4.1. Preinstallation Meetings: Arrange preinstallation meeting 1 week before commencing work with all parties associated with trade as designated in Contract Documents or as requested by Consultant. Presided over by Contractor, include Consultant who may attend, Subcontractor performing work of this trade, Owner’s representative, testing company's representative and consultants of applicable discipline. Review Contract Documents for work included under this trade and determine complete understanding of requirements and responsibilities relative to work included, storage and handling of materials, materials to be used, installation of materials, sequence and quality control, Project staffing, restrictions on areas of work and other matters affecting construction, to permit compliance with intent of work of this Section.

1.5. SUBMITTALS

1.5.1. Product Data: Submit Product data on tactile warning surfacing; clearly indicate specific items proposed for use if manufacturer's catalogues are submitted.

1.5.2. Samples: Submit samples in accordance with Section 01 30 00. Submit following samples in sizes indicated:

1.5.2.1. cast-in-place tactile surfacing 300 mm (12") square.

1.5.2.2. surface applied tactile surfacing 300 mm (12") square.

1.6. CLOSEOUT SUBMITTALS

1.6.1. Operational and Maintenance Data: Submit 3 copies of Product maintenance manual to Consultant prior to completion of the Work. Ensure manual contains specific maintenance recommendations and gives specific warning of any maintenance practice or materials which may damage or disfigure tactile warning surfacing.

1.7. MAINTENANCE MATERIAL SUBMITTALS

1.7.1. Extra Stock Materials: Leave 2 extra tiles of each type of tactile warning surfacing specified for Owner's future maintenance use. Supply tactile warning surfacing from same production run as installed. Execute Section 00 65 37.

1.8. QUALITY ASSURANCE

1.8.1. Qualifications:

1.8.1.1. Installers: Provide work of this Section executed by competent installers with minimum 5 years' experience in the application of Products, systems and assemblies specified and with approval and training of the Product manufacturers.

1.8.2. Mock-Ups: Construct minimum 10 m^2 (100 sq ft) mock-up sample at Project location designated by Consultant for review. Once reviewed with no objection recorded, sample remains part of finished work and used as a quality reference standard for balance of Project.

1.9. DELIVERY, STORAGE AND HANDLING

1.9.1. Delivery and Acceptance Requirements:

1.9.1.1. Deliver materials in good condition to site in manufacturer's original unopened containers that bears name and brand of manufacturer, Project identification, shipping and handling instructions.

1.9.1.2. Deliver flooring material in a manner to avoid deterioration, staining or any other damage.

1.9.1.3. Deliver packaged floor preparation and adhesive materials in their original bags or containers clearly identified; keep containers sealed and labels intact until time of use. Prevent damage or contamination to materials by water, moisture, freezing, excessive heat, foreign matter or other causes.

1.9.1.4. Deliver materials on site at least 24 hours before work begins.

1.9.2. Storage and Handling Requirements:

1.9.2.1. Store and handle flooring material in a manner to avoid deterioration, staining or any other damage.

1.9.2.2. Store packaged floor preparation and adhesive materials in their original bags or containers clearly identified; keep containers sealed and labels intact until time of use. Prevent damage or contamination to materials by water, moisture, freezing, excessive heat, foreign matter or other causes. If materials are frozen, do not stir any such liquids or adhesives until they are completely thawed.

1.9.2.3. Provide secure heated and dry storage facilities on site. Maintain temperature in storage area between 18 deg C (65 deg F) and 38 deg C (100 deg F).

1.9.2.4. Store materials on site at least 24 hours before work begins.

1.10. SITE CONDITIONS

1.10.1. Ambient Conditions:

1.10.1.1. Maintain appropriate environmental conditions and protect work during and after installation. Comply with trade standards and manufacturer's Product instructions. Follow Product SDS and label instructions concerning safety, health and other related precautionary and environmental protection. Comply with applicable federal, provincial, local and statutory regulations.

1.10.1.2. Close doors and windows. Turn off radiant floor heating systems and protect work area from direct draft, sun and heat exposure during installation and for at least 72 hours after completion.

1.10.1.3. When necessary, build a temporary shelter and use indirect auxiliary heaters to maintain an adequate temperature level in work environment.

1.10.1.4. Exhaust temporary heaters to building exterior to prevent health hazards and damage to work from toxic fumes and emanations.

1.10.1.5. Maintain temperature of floor covering areas at not less than 18 deg C (65 deg F) or more than 38 deg C (100 deg F) 48 hours before, during installation and for 48 hours after application unless otherwise required in Product instructions.

1.11. WARRANTY

1.11.1. Manufacturer Warranty: Warrant work of this Section for period of 5 years against defects and/or deficiencies in accordance with General Conditions of the Contract. Promptly correct any defects or deficiencies which become apparent within warranty period, to satisfaction of Consultant and at no expense to Owner. Defects include but are not limited to; buckling, opening of seams, bond failure and extensive colour fading.

PART 2 - PRODUCTS

2.1. MANUFACTURERS

2.1.1. Manufacturer List: Products of following manufacturers are permitted subject to conformance to requirements of Drawings, Schedules and Specifications:

2.1.1.1. AccessTile; www.accesstile.com

2.1.1.2. Engineered Plastics Inc.; www.armor-tile.com

2.1.1.3. Kinesik Engineered Products Incorporated; www.kinesik.ca

2.1.2. Substitution Limitations: Comparable Products from other manufacturers not listed herein may be reviewed provided they meet requirements of this Specification.

2.2. MATERIALS

2.2.1. Cast-in-Place Tactile Warning Surfacing: Provide 1 of following:

2.2.1.1. Ceramic Tile Type: Provide 10 mm thick porcelain tactile walking surface indicator with 4 mm high truncated domes in colour indicated in “Material and Finish Schedule” appended to Section 00 01 20. Permitted Product: “Elan® Tile” by Kinesik Engineering Products Incorporated.

2.2.1.2. Polymer Type:

2.2.1.2.1. Provide 3 mm thick polymer based tactile walking surface indicator with 5 mm high truncated domes in colour indicated in “Material and Finish Schedule” appended to Section 00 01 20. Permitted Products: “Eon® Tile” by Kinesik Engineering Products Incorporated or “Intelligent Design™ Cast In Place Replacement” by AccessTile.

2.2.1.2.2. Provide vitrified polymer composite based tactile walking surface indicator with raised truncated domes in colour indicated in “Material and Finish Schedule” appended to Section 00 01 20. Permitted Product: “Armor-Tile™ Cast in Place” by Engineered Plastics Inc.

2.2.1.2.3. Provide fire resistant vitrified polymer composite based tactile walking surface indicator with raised truncated domes in colour selected later by Consultant. Permitted Product: “Access Tile® FR Cast in Place” by Kinesik Engineered Products Incorporated.

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2.2.1.3. ***2 . . .*** Cast Iron Cast-in-Place Tactile Warning Surfacing: Provide 6 mm thick cast iron tactile walking surface indicator with 4 mm high truncated domes 22 mm in diameter with concentric rings in middle in accordance with ASTM A48/A48M. Permitted Products: "Advantage® Cast Iron Tactile Walking Surface Indicator [TWSI]**, Product Code: ADV-D-1281-N**" by Kinesik Engineering Products Incorporated or "Detectable Warning Plates" by Reliance Foundry Co Ltd. ***1 . . . 2***

2.2.2. Surface Applied Tactile Warning Surfacing: Provide 1 of following:

2.2.2.1. Domes: Provide 4 mm high 316L, marine grade stainless steel truncated domes 22 mm in diameter with concentric rings in middle; "Advantage® One Tactile Walking Surface Indicators (TWSI) Dome, Product Code: ADV-D-1281-N" by Kinesik Engineered Products Incorporated.

2.2.2.2. Provide vitrified polymer composite based tactile walking surface indicator with raised truncated domes in colour indicated in "Material and Finish Schedule" appended to Section 00 01 20. Permitted Products: "Armor-Tile™ Surface Applied" by Engineered Plastics Inc. or "Intelligent Design™ Surface Applied" by AccessTile.

2.2.2.3. Provide fire resistant vitrified polymer composite based tactile walking surface indicator with raised truncated domes in colour indicated in "Material and Finish Schedule" appended to Section 00 01 20. Permitted Product: "Access Tile® FR Surface Applied" by Kinesik Engineered Products Incorporated.

PART 3 - EXECUTION

3.1. EXAMINATION

3.1.1. Verification of Conditions: Verify actual site dimensions and location of adjacent materials prior to commencing work. Notify Consultant in writing of any conditions which would be detrimental to the installation.

3.1.2. Evaluation and Assessment: Commencement of work implies acceptance of previously completed work.

3.2. INSTALLATION

3.2.1. Install tactile warning surfacing according to manufacturer's written instructions unless otherwise indicated.

3.2.2. Place tactile warning surfacing units in dimensions and orientation indicated on Drawings.

3.3. SITE QUALITY CONTROL

3.3.1. Non-Conforming Work: Replace damaged work which cannot be satisfactorily repaired, restored or cleaned, to satisfaction of Consultant at no cost to Owner.

3.4. CLEANING

3.4.1. Remove protective plastic sheeting from detectable warning tiles within 24 hours of installation.

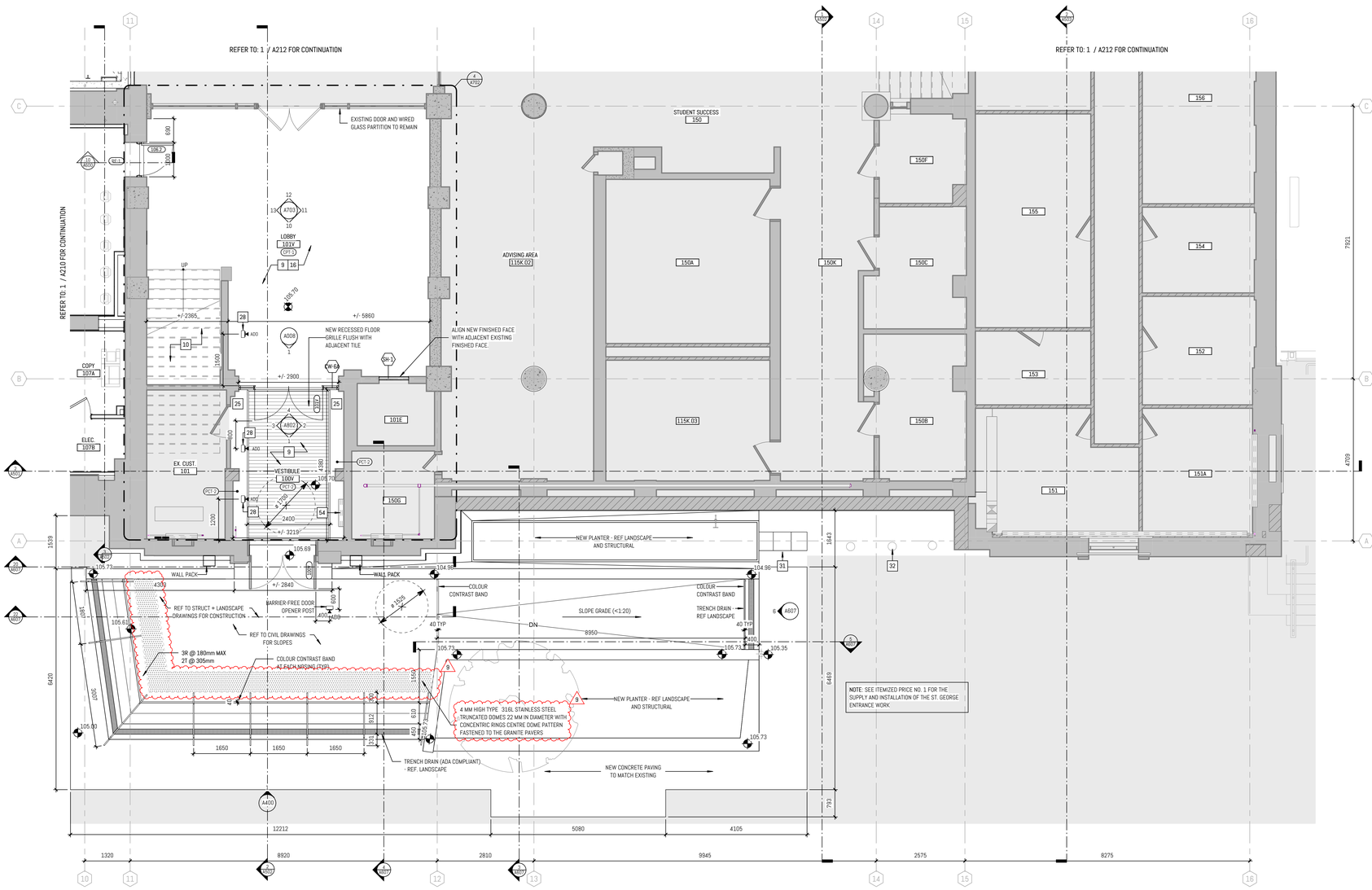
3.4.2. Clean tiles not more than 4 Days prior to date scheduled for inspection intended to establish Date of Substantial Performance in each area of the Project.

3.5. PROTECTION

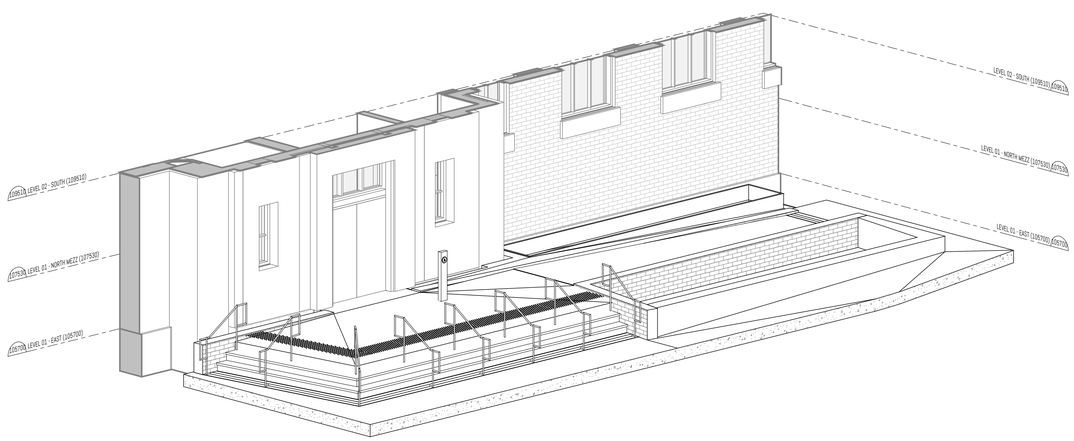
3.5.1. Protect detectable warning tiles against damage during construction period to comply with tile manufacturer's specifications.

3.5.2. During and after detectable warning tile's installation and concrete curing stage, it is imperative no walking, leaning, or external forces are placed on tile to rock tile, causing a void between underside of tile and concrete substrate.

END OF SECTION



1 LEVEL 01 - NORTHEAST - ENLARGED PLAN
A211 1 : 50



2 LEVEL 01 - FRONT ENTRANCE ISOMETRIC
A211

NEW WORK - ENLARGED PLAN NOTES

NOTE	DESCRIPTION
1	PROVIDE NEW FLOORING AND BASE THROUGHOUT ROOM OR TO EXTEND SHOWN ON PLAN TO MATCH EXISTING.
2	WHEELCHAIR AND MOBILITY SCOOTER WAITING SPACES. DESIGNATED CLEAR SPACE TO BE NO LESS THAN 760mm (30") BY 1370mm (54").
3	REMOVE ALL EXISTING FILM. REPAINT EXISTING WOOD DOOR AND WINDOW FRAMES, SILLS AND CASING
4	NEW SLAB INFILL. REFER TO STRUTURAL.
5	2-HR FIRE RATED ACCESS DOOR FOR MECH. COORDINATE LOCATION WITH MECH ON SITE. SEE INT. ELEVATIONS. SEE MECH.
6	305mM x 305MM RECESSED ACCESS DOOR TO RECEIVE WP-1. COORDINATE LOCATION WITH MECH ON SITE. SEE INT. ELEVATIONS FOR LOCATION. SEE MECH.
7	DRINKING FOUNTAIN. SEE MECH.
8	NEW RADIATOR COVER ON EXISTING RADIANT FIN TUBE, COMPLETE WITH COVERS AND TRIMS TO ENCLOSE ALL PIPING AND EXTEND WALL TO WALL (WHERE APPLICABLE).
9	PAINT EXISTING GWB WALLS, CEILING & BULKHEAD THROUGHOUT ROOM OR TO EXTENT SHOWN ON PLAN. PROTECT AND MAINTAIN EXISTING GOLD CAPITALS.
10	EXISTING TRAVERTINE LANDING & STAIRS TO BE CLEANED & SEALED, REPLACE NON-SLIP STRIPS. PAINT EXISTING METAL GUARDRAILS & HANDRAILS. REFINISH EXISTING WOOD HANDRAILS. AS PER SPECIFICATIONS
11	PROVIDE NEW WALL BASE TO MATCH EXISTING ON NEW WALLS FOR FULL LENGTH OF WALL OR WHERE DAMAGED BY DEMOLITION WORK.
12	INSTALL NEW WINDOW IN EXISTING WINDOW OPENING. REFER TO DEMO PLANS FOR REMOVAL OF EXISTING INFILL
13	INSTALL NEW WINDOW IN EXISTING DOOR OPENING. PROVIDE NEW STONE SILL TO MATCH EXISTING SILLS. INFILL WITH 1900MM CMU AND RECLAIMED BRICK MASONRY ABOVE AND BELOW WINDOW TO MATCH EXISTING DEPTH, INCLUDING THE RECESSED PANEL PATTERN.
14	NEW RADIATOR WITH INTEGRATED COVER, COMPLETE WITH COVERS AND TRIMS TO ENCLOSE ALL PIPING AND EXTEND WALL TO WALL (WHERE APPLICABLE). REFER TO 7/A802.
15	INSTALL NEW WINDOW IN EXISTING MASONRY WALL. WINDOW SIZE SHOWN FOR INTENT ONLY - SIZE AND LOCATE WINDOW TO SUIT EXISTING BRICK/TILE EXTERIOR WALL FINISH PATTERN AS INDICATED ON EXTERIOR ELEVATIONS. REFER TO STRUCTURAL FOR LINTEL DETAILS.
16	REPLACE CARPET TO MATCH EXISTING.
17	<varies>
18	PATCH AND REPAIR OPENING IN BRICK MASONRY AROUND NEW BEAM ANCHORS. SEE STRUCT. RE-USE EXISTING BRICKS
20	INTEGRATE NEW INTERIOR FINISHES WITH EXIST. COLUMN FINISHES PATCH AND MAKE GOOD AS REQ'D (TYP)
21	BRICK IN EXISTING WINDOW OPENINGS WITH COLUR-MATCHING SALVAGED BRICK FROM DEMO PHASE.
22	EXISTING WINDOW OPENING TO BE INFILLED WITH MASONRY. EXISTING GLAZING TO BE COVERED WITH OPAQUE FILM (SPEC AND COLOUR TBD)
24	2HR FRR GLAZING SYSTEM
25	NEW PCT FLOOR FINISH. REFER TO ROOM FINISH SCHEDULE
26	PROVIDE NEW WALL BASE TO MATCH EXISTING PERIMETER WALL BASE TRIM
27	NEW STAINLESS STEEL HANDRAIL, 38 DIA.
28	SS. BOLLARD SEE DETAIL 1/A007
31	NEW GARBAGE BIN LOCATION
32	EXISTING THREE BICYCLE RINGS TO REMAIN
34	REINSTATE FLOOR FINISH TO MATCH EXISTING.
35	SUPPLY AND INSTALL VINYL GRAPHIC. OWNER TO PROVIDE DIGITAL FILE.
36	ACCESSIBLE COUNTER.
37	SUPPLY AND INSTALL FLOOR MOUNTED MOP SINK WITH WALL MOUNTED MOP HOLDERS AND SHELVING.
38	AV RACK. REFER TO ELEC. AND AV DOCUMENTATION.
39	ELEC. PANELS. REFER TO ELEC. DOCUMENTATION.
41	SUPPLY AND INSTALL PLYWOOD SUBSTRATE.
42	SUPPLY AND INSTALL 2-HR FIRE RATED ROLLER SHUTTER. SHUTTER CASETTE TO BE CONCEALED IN CEILING WITH RECESSED ACCESS DOORS AS REQUIRED
43	NEW HANDRAIL
44	NEW GUARD TO BE ENGINEERED BY CONTRACTOR.
45	EXISTING SPRINKLER PROTECTED GLAZING.
46	MAKE GOOD EXISTING ROOF SYSTEM.
47	EXISTING RADIATORS ABOVE. REFER TO MECHANICAL DOCUMENTATION FOR PIPING WORKS.
49	SUPPLY AND INSTALL 1 LAYER OF 19mm FIRE RETARDANT PLYWOOD (FRTW) FASTENED TO THE TOP FLANGE OF THE C-JOISTS.
51	NEW STEEL STAIR, GUARD + HANDRAIL - ENGINEERED BY CONTRACTOR
52	TYPICAL COMMENT (GROUND FLOOR): SUPPLY AND INSTALL 16MM GWB PATCHING (INFILL) TO ALL PERIMETER WALL SURFACES WHERE EXISTING OPENINGS (HOLES) ARE OBSERVED LOCATED SOUTH OF GRID 11 UP TO THE 3000MM AFF TO ACCOMMODATE A NEW PAINT FINISH.
53	CLEAN EXISTING MASONRY COLUMN, REPAIR, REPOINT AND SUPPLY AND APPLY SEALER - TYPICAL FOR MASONRY COLUMNS
54	PREPARE (SAND AND PRIME) AND REPAINT EXISTING RADIATOR COVER.
55	SUPPLY AND INSTALL MANUAL ROLLER SHADE (INSIDE MOUNT) WITH PRE-FINISHED ALUMINUM FASCIA (COLOUR: WHITE) AND STAINLESS STEEL BALL CHAIN AND KEEPER. CONTRACTOR TO SITE MEASURE EXISTING WINDOW OPENING.
56	SUPPLY AND INSTALL 16MM GWB AT THE BASE OF THE EXISTING WALL TO CLOSE GAP, AND TO ACCOMMODATE NEW PAINT FINISH AND WALL BASE.
57	SUPPLY AND INSTALL MOTORIZED BLACKOUT ROLLER SHADES WITH PRE-FINISHED ALUMINUM FASCIA (COLOUR: WHITE). CONTRACTOR TO SITE MEASURE EXISTING WINDOW OPENING. INTEGRATE BLIND CONTROLS WITH AV SYSTEMS
58	TYPICAL NOTE FOR 2ND & 3RD LEVELS: MAKE GOOD ALL PERIMETER WALL SURFACES NORTH OF GRID 11 UP TO 2750MM A.F.F. TO ACCOMMODATE A NEW PAINT FINISH. THE SCOPE INCLUDING PATCHING (INFILL GWB) IF REQUIRED.
59	TYPICAL NOTE FOR 2ND & 3RD LEVELS: MAKE GOOD ALL PERIMETER WALL SURFACES SOUTH OF GRID 11 UP TO THE UNDERSIDE OF THE EXISTING CEILING TO ACCOMMODATE A NEW PAINT FINISH. THE SCOPE INCLUDING PATCHING (INFILL GWB) IF REQUIRED.
60	ALIGN INSIDE SURFACE OF NEW INFILL WALL ASSEMBLY WITH EXISTING WALL ASSEMBLY ABOVE. CONTRACTOR TO VERIFY DIMENSIONS OF INFILL ASSEMBLY AT SITE FOLLOWING ABATEMENT WORKS BY OTHERS.
61	EXISTING ROOF LADDER WITH SAFETY CAGE.
63	NEW 4X10' FLOATING GLASS WHITEBOARD
64	NEW RADIATOR/FIN TUBE CONCEALED BEHIND FINISHES.
65	ALONG GRID 11 AT LEVELS 2 AND 3, CONTRACTOR TO REPAIR EXISTING 1HR FIRE RATED ASSEMBLY (REF. BUILDING SECTION 1/A501) AND APPLY FIRESTOPPING MATERIAL AT LOCATIONS WHERE EXISTING PIPING SERVICES PENETRATE. REPAIR OPENINGS WITH WALL TYPE B2A OR SH-1.
66	SEPARATE PRICE NO. 1: TO SUPPLY AND INSTALL A WATER BASED AIR/LIQUID MOISTURE BARRIER TO THE INSIDE FACE OF THE EXISTING LEVEL 3 EXTERIOR WALL ALONG GRID 14 BETWEEN GRIDS C AND K ("AIR SHIELD LMP" BY W. R. MEADOWS OF CANADA
67	ALTERNATIVE PRICE NO. 1: IN LIEU OF THE REMOVAL OF DECOMMISSIONED ELEVATOR AND ASSOCIATED WORKS AS INDICATED IN THE DRAWINGS AND SPECIFIED HEREIN, PROVIDE ONLY DECOMMISSIONING OF THE ELEVATOR (CUT HOIST ROPES, & PUT CAB INTO THE PIT, SEAL DOORS, HAVE TSSA DECOMMISSION) AS SPECIFIED HEREIN, INCLUDING ANY ASSOCIATED WORK SHALL BE INCLUDED
68	APPLY FIRESTOPPING TO EXISTING PENETRATIONS TO ENSURE COMPLIANT FIRE SEPARATION

EQUIPMENT TYPE SCHEDULE

EQ #	EXIST. EQ DESCRIPTION	TYPE COMMENT	Supply	Install
EQ-01	PATIENT EXAM BED		UofT	CONTRACTOR
EQ-02	WALL-MOUNTED INTEGRATED EQUIPMENT	SYSTEM INCLUDES: ORPHTHALMOSCOPE, OTOSCOPES, THERMOMETRY, BLOOD PRESSURE, WALL ANEROID & KLEENSPEC DISPENSER	UofT	CONTRACTOR
EQ-03	EXAM LIGHTS		UofT	CONTRACTOR
EQ-06	SPECIMEN FRIDGE		UofT	CONTRACTOR
EQ-07	PRINTER		UofT	CONTRACTOR
EQ-08	KIOSK FLOOR STAND FOR IPAD		UofT	CONTRACTOR
EQ-09	STAINLESS STEEL SPECIMEN PASS-THRU CABINET - 12x12		CONTRACTOR	CONTRACTOR

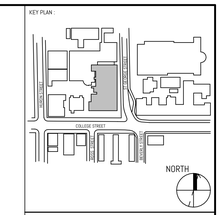
GENERAL NOTES: NEW WORK

A. MAKE GOOD ALL EXISTING WALL SURFACES DAMAGED DURING REMOVALS AND CONSTRUCTION
B. NEW FLOOR FINISHES. REFER TO FINISH SCHEDULE
C. NEW DOOR & DOOR FRAME. REFER TO DOOR SCHEDULES
D. PAINT ALL EXISTING DOORS AND DOOR FRAMES
E. PROVIDE FIRESTOPPING TO ALL NEW FLOOR SERVICE PENETRATIONS. REFER TO MECH AND ELEC DWGS FOR LOCATIONS OF PENETRATIONS
F. PROTECT ALL EXISTING FINISHES, LANDINGS, STAIRS, HANDRAILS & GUARDRAILS DURING CONSTRUCTION
G. CLEAN AND PAINT EXISTING PIPE & MECH. DUCTS AS REQUIRED
H. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE MECHANICAL & ELECTRICAL DRAWINGS
I. WHERE DISSIMILAR COMPONENTS SUCH AS PUSH BUTTON AND KEY SWITCH ARE INTO FIRE-RATED ASSEMBLIES, ENSURE CONTINUITY OF FIRE SEPARATIONS BY BOXING IN ELEMENTS WITH GYPSUM BOARD AND FRAMING TO SUIT AUTHORITIES JURISDICTION
J. CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD ALL AREAS DISTURBED BY THE OPERATION OF THE WORK AND DISTURBED BY THE WORK OF OTHER TRADES (MECH, ELECT, AV. & ETC.) MATERIALS AND FINISHES TO MATCH EXISTING UNLESS NOTED OTHERWISE
K. FILL NEW FLOOR OPENINGS WITH NON SHRINK GROUT. REFER TO MECH AND ELEC DWGS.
L. NEW DRYWALL PARTITIONS AND EXISTING PARTITIONS WITHIN PROJECT C/W NEW BASE. NEW BASE TO BE ONE PIECE ON EACH SEGMENT OF WALL, BOTH SIDES OF THE WALL. WALL TO SIT DIRECTLY ON FLOOR. REFER TO FINISH SCHEDULE
M. PAINT WALLS AND BULKHEADS IN AND CORRIDORS WITHIN PROJECT SCOPE. REFER TO FINISH SCHEDULE

FLOOR PLAN LEGEND & SYMBOLS

CW	GLAZING TYPE TAG	1	NEW NOTE REFERENCE TAG
P1A	WALL TYPE TAG		NIC PRIMARY SCOPE OF WORK
P1*	WALL TYPE TAG (TO BE VIF BY CONTRACTOR)		SCOPE OF WORK
0.000	SPOT ELEVATION (PROPOSED) FLOOR ELEVATION DATUM)		SHELL SPACE - FIT-OUT BY OTHERS
0.000	SPOT ELEVATION (EXISTING FLOOR ELEVATION DATUM)		MAKE GOOD EXISTING FLOOR
	EXISTING WALL TO REMAIN		EXIST. UNEXCAVATED SPACE
	NEW PARTITION	101	DOOR TAG
	NEW OR EXISTING RATED WALL TO BE MAINTAINED	10-01	SPECIALTY EQUIPMENT TAG
		41	REPAIR SCOPE TAG (REFER TO A212A)

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	08/20/2024	CLIENT REVIEW
2	09/30/2024	COSTING SET
3	10/04/2024	CLIENT REVIEW
4	11/01/2024	PROGRESS ISSUANCE
5	11/15/2024	BUILDING PERMIT
6	12/13/2024	FBS REVIEW
7	01/26/2025	PEER REVIEW
8	01/31/2025	ISSUED FOR BID
9	03/25/2025	BID ADDENDUM #4

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SEAL :

OWNER :

UNIVERSITY OF TORONTO

PROJECT :

UNIVERSITY OF TORONTO
HEALTH & WELLNESS CENTRE
AT KOFFLER RENOVATION

214 College Street, Toronto,
ON M5T 3A1

SHEET CONTENTS :

ENLARGED GROUND FLOOR PLAN

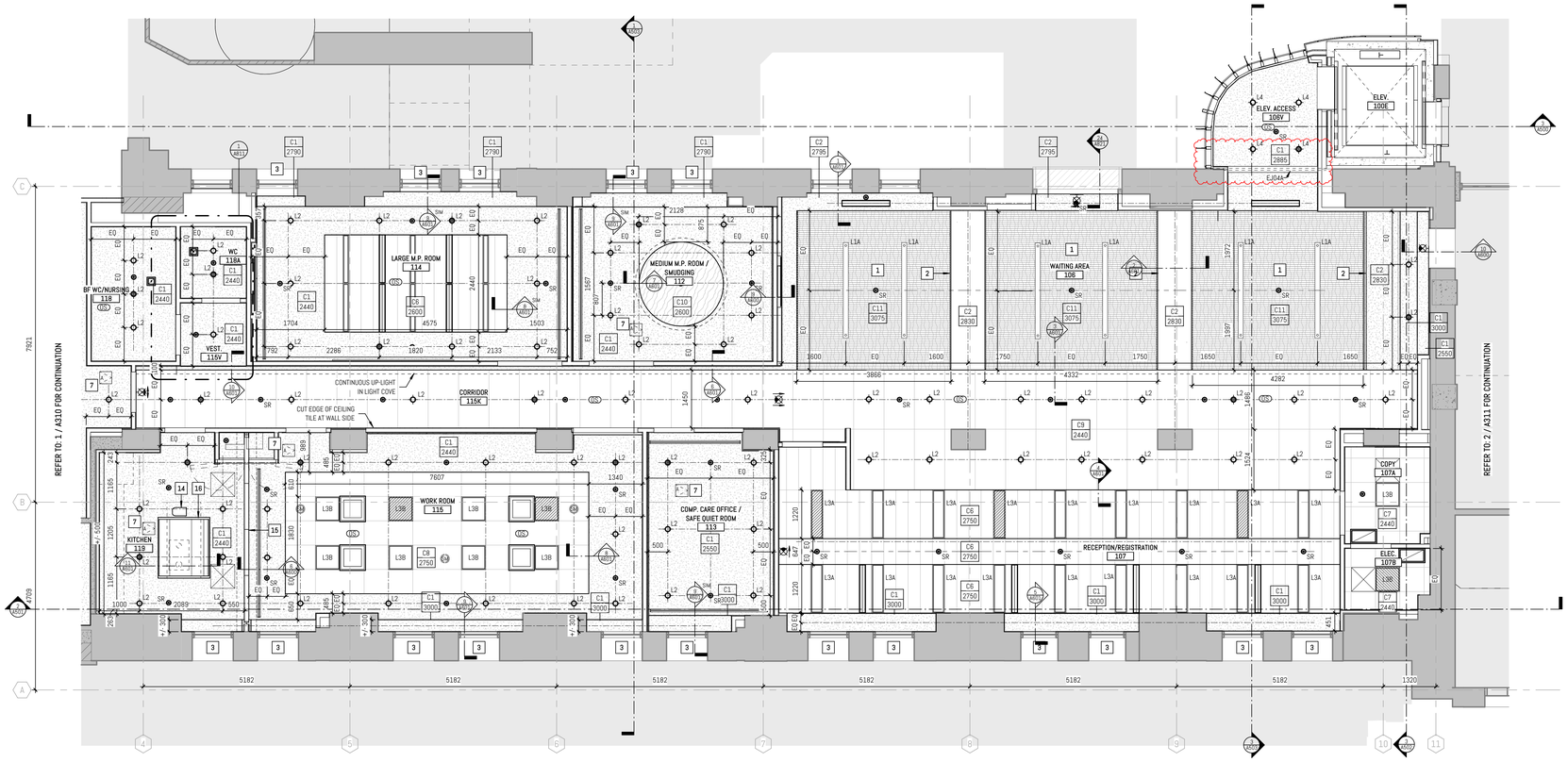
PROJECT NUMBER :
23-011 (P143-19-100)

DRAWING SCALE :
1:50

DRAWN BY :	CHECKED BY :	DATE:
NE	AF	2025-01-31

SHEET NO :
A211

REV :
9



2 / A310 GROUND FLOOR ENLARGED REFLECTED CEILING PLAN - EAST
1 : 50
Ref: 2/ A009

3 / A310 EXISTING STAFF ROOM CEILING
1 : 1

1 / A310 GROUND FLOOR ENLARGED REFLECTED CEILING PLAN - SOUTHEAST
1 : 50
Ref: 2/ A009

NEW WORK - ENLARGED RCP NOTES

NOTE	DESCRIPTION
1	ACOUSTIC WOOD PANEL CEILING - REFER TO DETAILS.
2	PATCH AND REPAIR EXISTING PLASTER BEAM AND MOULDING. PAINT TO MATCH EXISTING.
3	PROVIDE NEW MANUAL ROLLER SHADES.
4	PROVIDE NEW MOTORIZED ROLLER SHADES. REFER TO ELECTRICAL.
6	6A-305mm x 305mm, 6B-457mm x 457mm ACCESS DOOR. COORDINATE LOCATION WITH MECHANICAL ON SITE.
7	7A-305mm x 305mm, 7B-457mm x 457mm RECESSED ACCESS DOOR TO RECEIVE GWB. COORDINATE LOCATION WITH MECHANICAL ON SITE.
8	460mm x 460mm FIRE-RATED ACCESS DOOR. COORDINATE LOCATION WITH MECHANICAL ON SITE.
9	GENERAL NOTE (ALL FLOORS): EXISTING GWB AND PLASTER CEILINGS, BULKHEADS AND PLASTER FINISHED BEAMS TO RECEIVE NEW PAINT FINISH. REFER TO FINISHES SCHEDULE.
10	GENERAL NOTE (3RD FLOOR): APPLY NEW PAINT FINISH TO ALL EXPOSED ROOF STRUCTURE. REFER TO FINISHES SCHEDULE.
11	SEE NOTE 9 EXCEPT FINISHES TO MATCH EXISTING.
12	PATCH, REPAIR AND MAKE GOOD ALL AREAS DISTURBED BY THE OPERATION OF THE WORK TO RECEIVE PAINT TO MATCH EXISTING.
14	CAMERA OVER ISLAND, CEILING MOUNTED, ALIGN WITH BOTTOM OF RANGE HOOD. REFER TO ELECTRICAL AND AV.
15	TRACK: TEMPERED ALUMINUM OR STEEL TRACK SUPPORTED BY THREADED RODS. TO BE ENGINEERED BY CONTRACTOR.
16	TYPE 1 RECIRCULATING HOOD COMPLETE WITH INTEGRAL FIRE SUPRESSION SYSTEM. ALIGN EAST SIDE OF EXHAUST TO EDGE OF MILLWORK. REFER TO MECHANICAL DRAWINGS.
17	REINSTATE GWB CEILING FINISH AND ASSOCIATED FIXTURES TO MATCH EXISTING UPON COMPLETION OF STRUCTURAL WORK. REFER TO STRUCTURAL.
18	GENERAL NOTE FOR GROUND FLOOR AND 2ND LEVEL RCP: SUPPLY AND INSTALL NEW FIRE SPRAY SYSTEM TO THE UNDERSIDE OF EXISTING SLAB AND SUPPORTING STRUCTURE - CEILING TYPE EX-F1 (SOUTH OF GRID 11) AND CEILING TYPE EX-F2 (NORTH OF GRID 11).
19	GENERAL NOTE FOR THE THIRD LEVEL RCP (NORTH OF GRID 12): SUPPLY AND INSTALL NEW PAINT FINISH TO THE STEEL ROOF STRUCTURE AND GYPSUM SHEATHING BOARD.
20	SUPPLY AND INSTALL FIRE RATED ROLLER SHUTTER. REFER TO STRUCTURE AND ELECTRICAL.
21	EXISTING SKYLIGHT.
23	MAKE GOOD EXISTING GWB CEILING AND APPLY NEW PAINT FINISH.
25	STUDENT SUCCESS (RM. 150) GENERAL NOTE: CORNICE AND CEILING AREAS UNDER REPAIR TO RECEIVE NEW PAINT FINISH TO MATCH EXISTING.
26	STAIR 11 GENERAL NOTE: EXISTING CEILINGS, UNDERSIDE OF STAIR LANDINGS AND STEP RUNS, BULKHEADS AND CORNICES TO RECEIVE NEW PAINT FINISH. REFER TO FINISHES SCHEDULE.

GENERAL NOTES: NEW WORK

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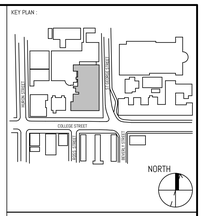
RCP LEGEND & SYMBOLS

- C1 / 3000 — CEILING MATERIAL TYPE / CEILING HEIGHT
- NEW ACT GRID
- NEW GWB CEILING
- SR — SPRINKLER HEAD. SEE MECH. DWGS.
- POTLIGHT FIXTURES. SEE ELEC. DWGS.
- PENDANT LIGHT FIXTURES. SEE ELEC. DWGS.
- LINEAR LIGHT FIXTURES. SEE ELEC. DWGS.
- WALL-MOUNTED EXIT SIGN
- CEILING MOUNTED EXIT SIGN
- DIFFUSERS. SEE MECH. DWGS
- GRILLES. SEE MECH. DWGS.
- OCCUPANCY SENSOR. SEE ELEC. DWGS
- S — RECESSED LOUDSPEAKERS. SEE ELEC. & AV.
- SM — RECESSED SOUND MASKING SPEAKER. SEE ELEC. & AV.
- N.I.C PRIMARY SCOPE OF WORK
- SCOPE OF WORK
- EMERGENCY
- 1HR RATED BULKHEAD
- ACCESS PANEL

KEY PLAN :



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9	03/25/2025	BID ADDENDUM #4

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SEAL :

OWNER:
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PROJECT :
UNIVERSITY OF TORONTO
HEALTH & WELLNESS CENTRE
AT KOFFLER RENOVATION

214 College Street, Toronto,
ON M5T 3A1

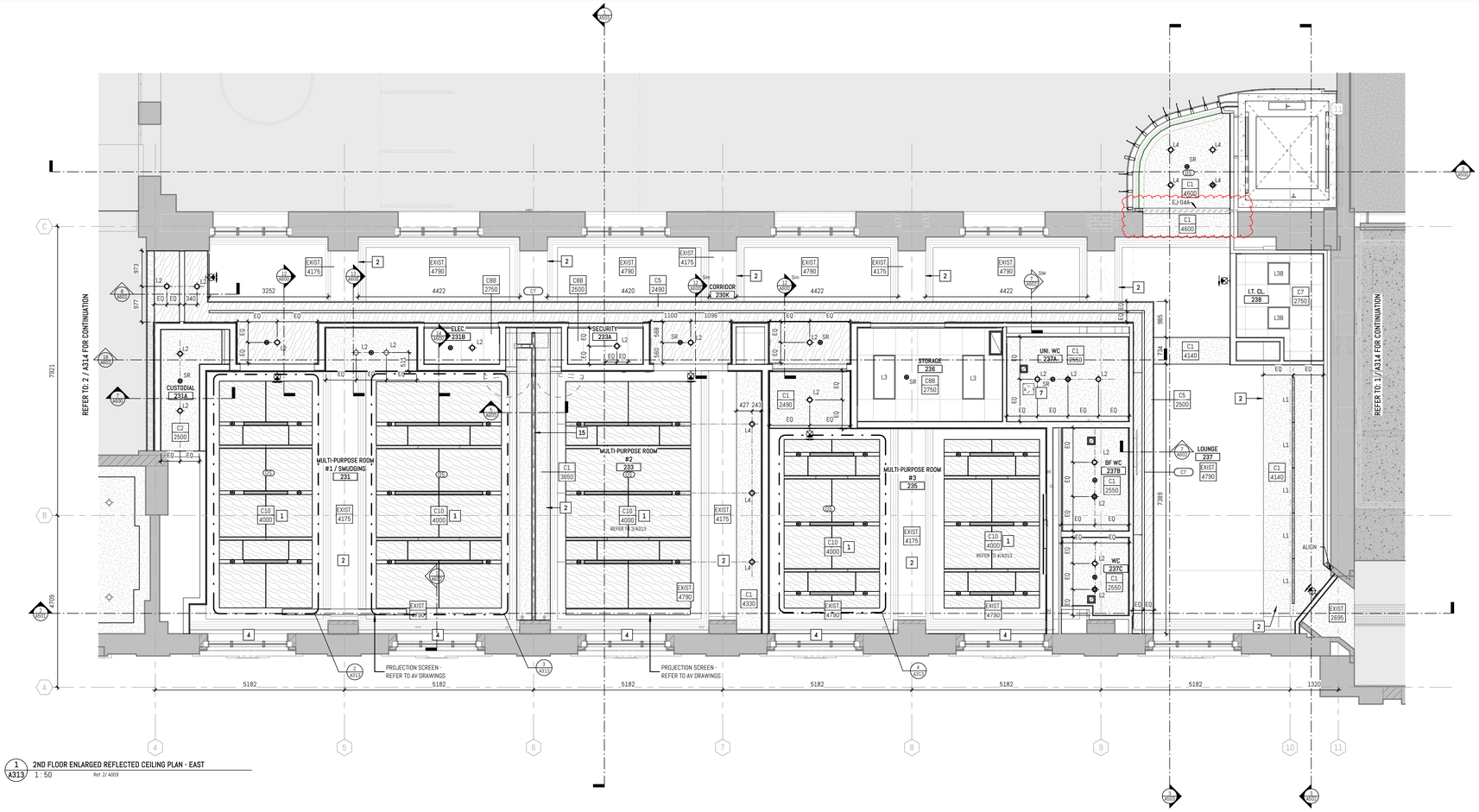
SHEET CONTENTS :
ENLARGED RCP - LEVEL 01

PROJECT NUMBER :
23-011 (P143-19-100)

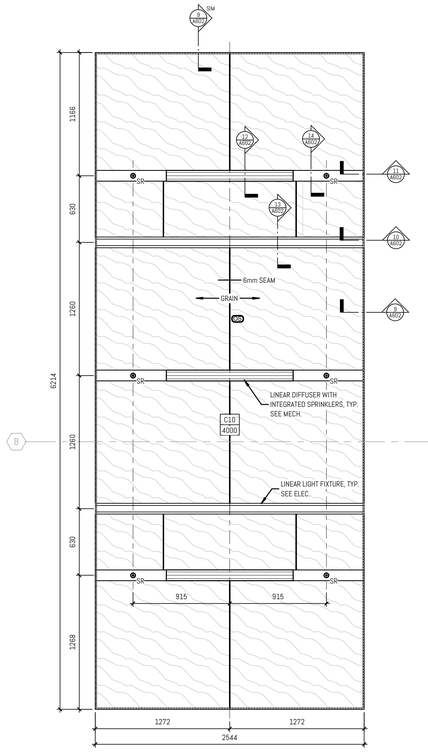
DRAWING SCALE :
1:50

DRAWN BY :	CHECKED BY :	DATE:
NE	AF	2025-01-31

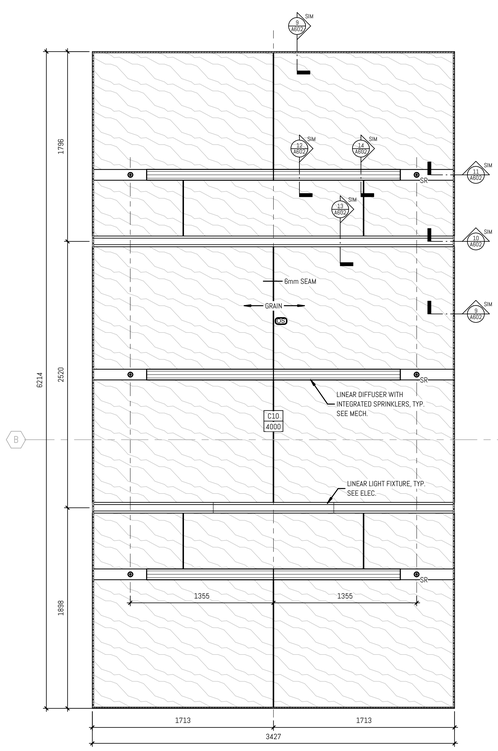
SHEET NO : A310
REV: 9



1 / A313 2ND FLOOR ENLARGED REFLECTED CEILING PLAN - EAST
1 : 50 Ref: 2/ A009



2 / A313 MULTI-PURPOSE ROOM #1 / SMUDGING - ENLARGED RCP
1 : 20 Ref: 1/ A313



3 / A313 MULTI-PURPOSE ROOM #1/2 - ENLARGED RCP
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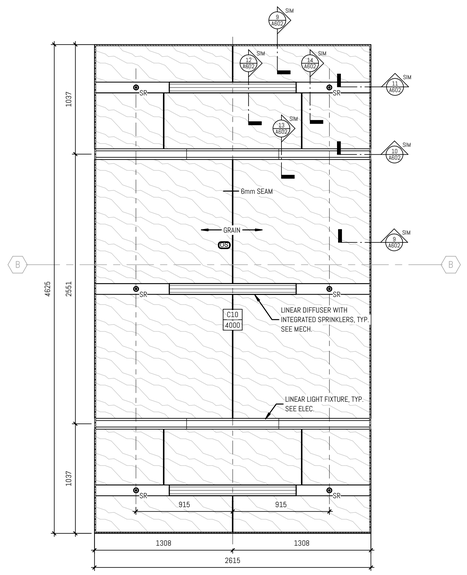

4 / A313 2ND FLOOR ENLARGED REFLECTED CEILING PLAN - EAST - ENLARGED RCP
1 : 20 Ref: 1/ A313

NEW WORK - ENLARGED RCP NOTES

NOTE	DESCRIPTION
1	ACOUSTIC WOOD PANEL CEILING - REFER TO DETAILS.
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- NEW GWB CEILING
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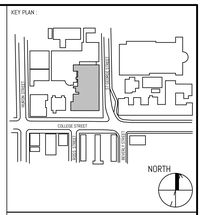
- SCOPE OF WORK
- EMERGENCY
- 1HR RATED BULKEHAD
- ACCESS PANEL

KEY PLAN :



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8	01/31/2025	ISSUED FOR BID
9	03/20/2025	BID ADDENDUM #3
10	03/25/2025	BID ADDENDUM #4

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SEAL :

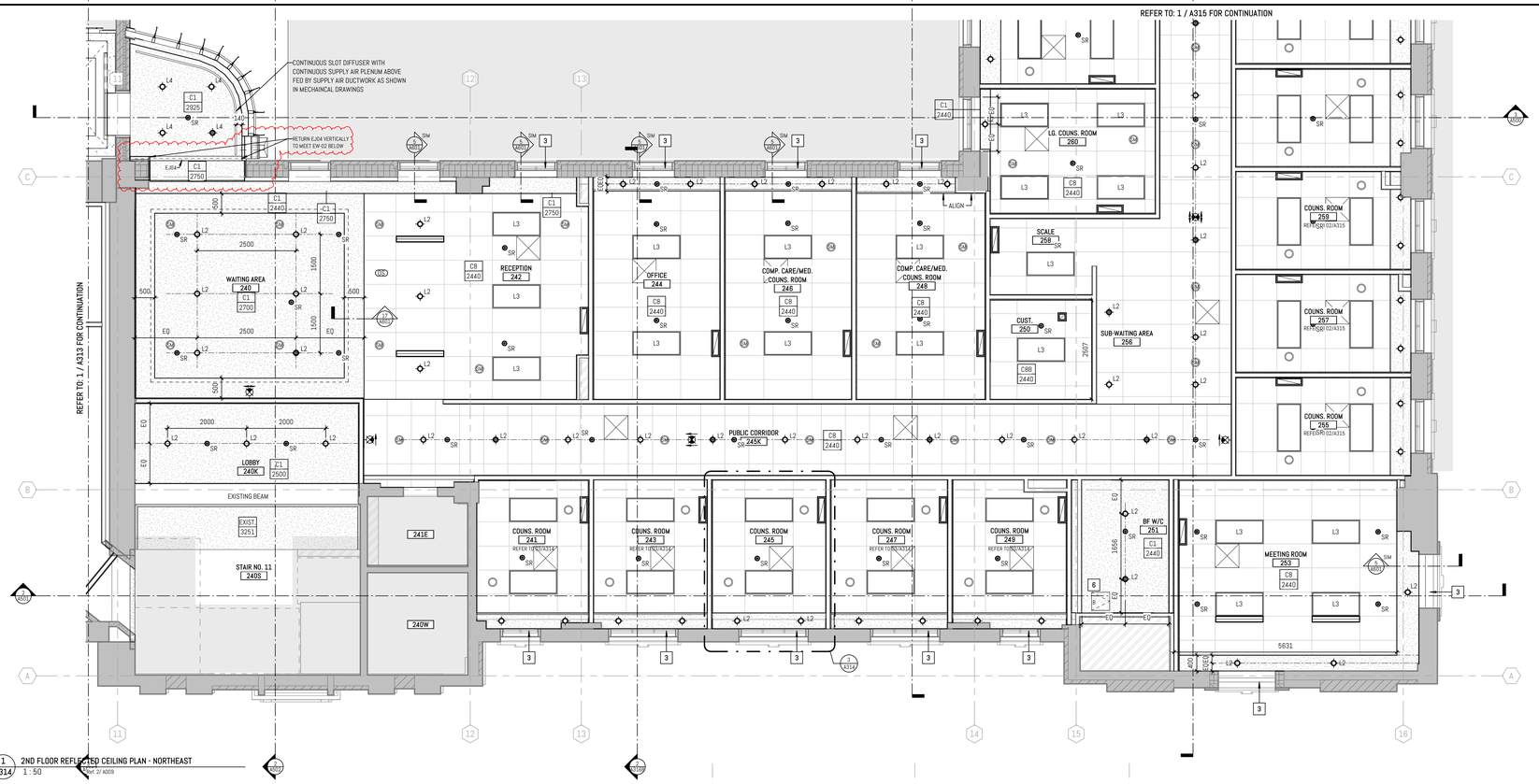
OWNER:
UNIVERSITY OF TORONTO

PROJECT :
UNIVERSITY OF TORONTO HEALTH & WELLNESS CENTRE AT KOFFLER RENOVATION

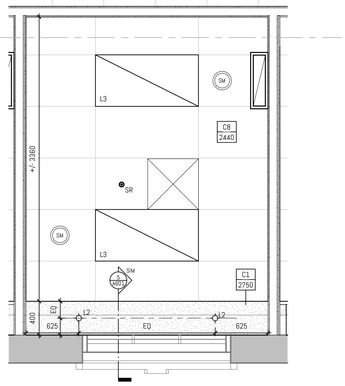
214 College Street, Toronto, ON M5T 3A1

SHEET CONTENTS:
ENLARGED RCP - LEVEL 02

PROJECT NUMBER: 23-011 (P143-19-100)
DRAWING SCALE: 1:50
DRAWN BY: NE | CHECKED BY: AF | DATE: 2025-01-31
SHEET NO: A313 | REV: 10



1 / A314 2ND FLOOR REFLECTED CEILING PLAN - NORTHEAST
1 : 50
Ref: 2/ A009



3 / A314 2ND FLOOR - TYP COUNSELING ROOM RCP
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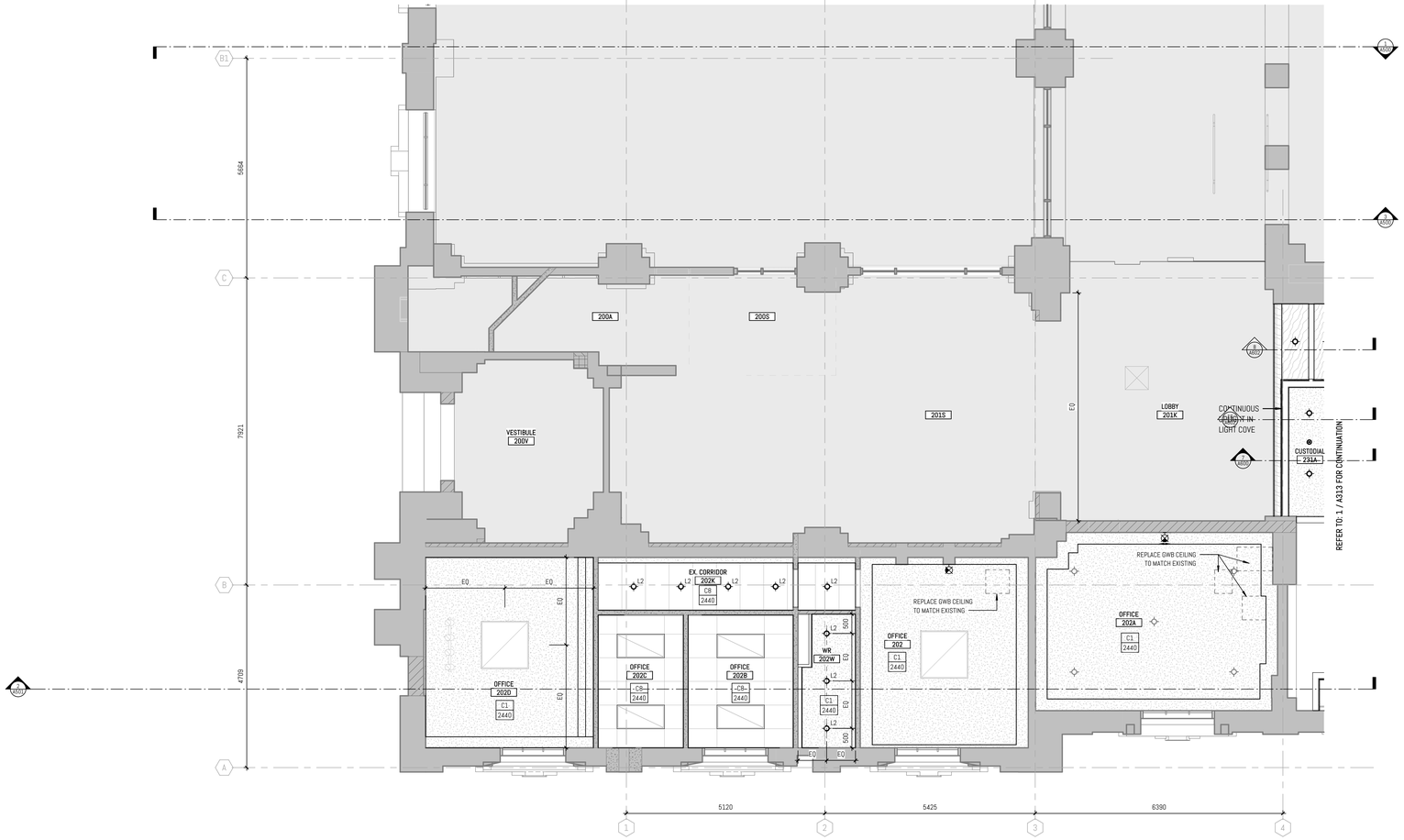
Ref: 1/ A314



2 / A314 2ND FLOOR ENLARGED REFLECTED CEILING PLAN - SOUTHEAST
1 : 50
Ref: 2/ A009

NEW WORK - ENLARGED RCP NOTES

NOTE	DESCRIPTION
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16	TYPE 1 RECIRCULATING HOOD COMPLETE WITH INTEGRAL FIRE SUPRESSION SYSTEM. ALIGN EAST SIDE OF EXHAUST TO EDGE OF MILLWORK. REFER TO MECHANICAL DRAWINGS.
17	REINSTATE GWB CEILING FINISH AND ASSOCIATED FIXTURES TO MATCH EXISTING UPON COMPLETION OF STRUCTURAL WORK. REFER TO STRUCTURAL.
18	GENERAL NOTE FOR GROUND FLOOR AND 2ND LEVEL RCP: SUPPLY AND INSTALL NEW FIRE SPRAY SYSTEM TO THE UNDERSIDE OF EXISTING SLAB AND SUPPORTING STRUCTURE - CEILING TYPE EX-F1 (SOUTH OF GRID 11) AND CEILING TYPE EX-F2 (NORTH OF GRID 11).
19	GENERAL NOTE FOR THE THIRD LEVEL RCP (NORTH OF GRID 12): SUPPLY AND INSTALL NEW PAINT FINISH TO THE STEEL ROOF STRUCTURE AND DYPSUM SHEATHING BOARD.
20	SUPPLY AND INSTALL FIRE RATED ROLLER SHUTTER. REFER TO STRUCTURE AND ELECTRICAL.
21	EXISTING SKYLIGHT
23	MAKE GOOD EXISTING GWB CEILING AND APPLY NEW PAINT FINISH.
25	STUDENT SUCCESS (RM. 150) GENERAL NOTE: CORNICE AND CEILING AREAS UNDER REPAIR TO RECEIVE NEW PAINT FINISH TO MATCH EXISTING.
26	STAIR 11 GENERAL NOTE: EXISTING CEILINGS, UNDERSIDE OF STAIR LANDINGS AND STEP RUNS, BULKHEADS AND CORNICES TO RECEIVE NEW PAINT FINISH. REFER TO FINISHES SCHEDULE.

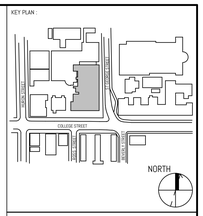
GENERAL NOTES: NEW WORK

A. MAKE GOOD ALL EXISTING WALL SURFACES DAMAGED DURING REMOVALS AND CONSTRUCTION.
B. NEW FLOOR FINISHES. REFER TO FINISH SCHEDULE
C. NEW DOOR & DOOR FRAME. REFER TO DOOR SCHEDULES
D. PAINT ALL EXISTING DOORS AND DOOR FRAMES
E. PROVIDE FIRESTOPPING TO ALL NEW FLOOR SERVICE PENETRATIONS. REFER TO MECH AND ELEC DWGS FOR LOCATIONS OF PENETRATIONS
F. PROTECT ALL EXISTING FINISHES, LANDINGS, STAIRS, HANDRAILS & GUARDRAILS DURING CONSTRUCTION
G. CLEAN AND PAINT EXISTING PIPE & MECH. DUCTS AS REQUIRED
H. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE MECHANICAL & ELECTRICAL DRAWINGS
I. WHERE DISSIMILAR COMPONENTS SUCH AS PUSH BUTTON AND KEY SWITCH ARE INTO FIRE-RATED ASSEMBLIES, ENSURE CONTINUITY OF FIRE SEPARATIONS BY BOXING IN ELEMENTS WITH GYPSUM BOARD AND FRAMING TO SUIT AUTHORITIES JURISDICTION
J. CONTRACTOR TO PATCH, REPAIR AND MAKE GOOD ALL AREAS DISTURBED BY THE OPERATION OF THE WORK AND DISTURBED BY THE WORK OF OTHER TRADES (MECH, ELECT, AV, & ETC.) MATERIALS AND FINISHES TO MATCH EXISTING UNLESS NOTED OTHERWISE.
K. FILL NEW FLOOR OPENINGS WITH NON SHRINK GROUT. REFER TO MECH AND ELEC DWGS
L. NEW DRYWALL PARTITIONS AND EXISTING PARTITIONS WITHIN PROJECT C/W NEW BASE. NEW BASE TO BE ONE PIECE ON EACH SEGMENT OF WALL BOTH SIDES OF THE WALL. WALL TO SIT DIRECTLY ON FLOOR. REFER TO FINISH SCHEDULE
M. PAINT WALLS AND BULKHEADS IN AND CORRIDORS WITHIN PROJECT SCOPE. REFER TO FINISH SCHEDULE

RCP LEGEND & SYMBOLS

- C1 / 3000 — CEILING MATERIAL TYPE / CEILING HEIGHT
- NEW ACT GRID
- NEW GWB CEILING
- SR — SPRINKLER HEAD. SEE MECH. DWGS.
- POTLIGHT FIXTURES. SEE ELEC. DWGS.
- PENDANT LIGHT FIXTURES. SEE ELEC. DWGS.
- LINEAR LIGHT FIXTURES. SEE ELEC. DWGS.
- WALL-MOUNTED EXIT SIGN
- CEILING MOUNTED EXIT SIGN
- DIFFUSERS. SEE MECH. DWGS
- GRILLES. SEE MECH. DWGS.
- OCCUPANCY SENSOR. SEE ELEC. DWGS
- S — RECESSED LOUDSPEAKERS. SEE ELEC. & AV.
- SM — RECESSED SOUND MASKING SPEAKER. SEE ELEC. & AV.
- N.I.C PRIMARY SCOPE OF WORK
- SCOPE OF WORK
- EMERGENCY
- 1HR RATED BULKEHAD
- ACCESS PANEL

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	08/20/2024	CLIENT REVIEW
2	09/30/2024	COSTING SET
3	10/04/2024	CLIENT REVIEW
4	11/01/2024	PROGRESS ISSUANCE
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6	12/13/2024	F&S REVIEW
7	01/26/2025	PEER REVIEW
8	01/31/2025	ISSUED FOR BID
9	03/25/2025	BID ADDENDUM #4

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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
UNIVERSITY OF TORONTO HEALTH & WELLNESS CENTRE AT KOFFLER RENOVATION

214 College Street, Toronto, ON M5T 3A1

SHEET CONTENTS :
ENLARGED RCP - LEVEL 02

PROJECT NUMBER:
23-011 (P143-19-100)

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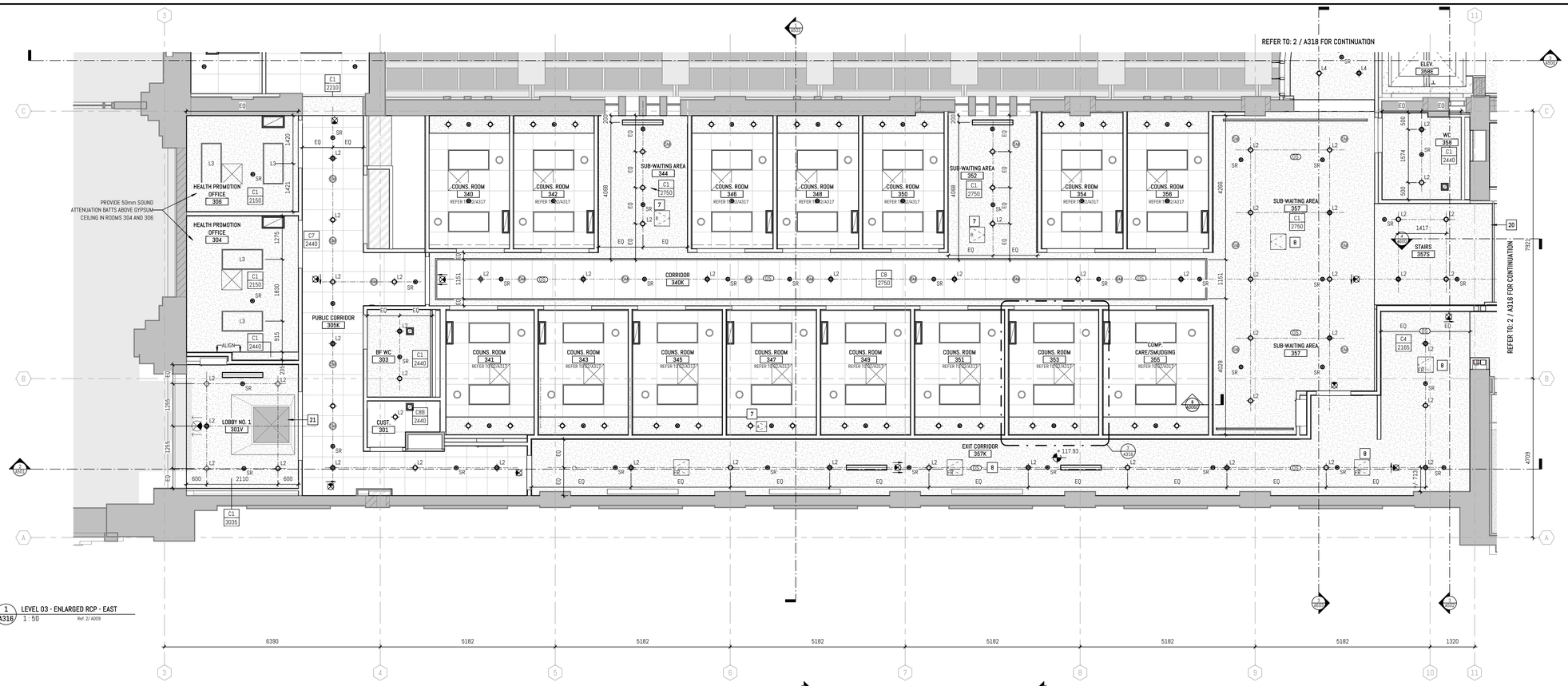
1:50

DRAWN BY :	CHECKED BY :	DATE:
NE	AF	2025-01-31

SHEET NO : A314
REV : 9



1 / A316 LEVEL 03 - ENLARGED RCP - EAST
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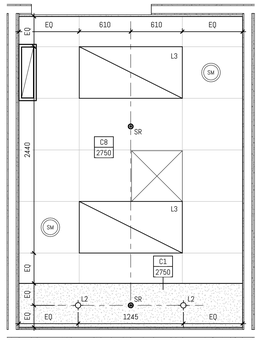
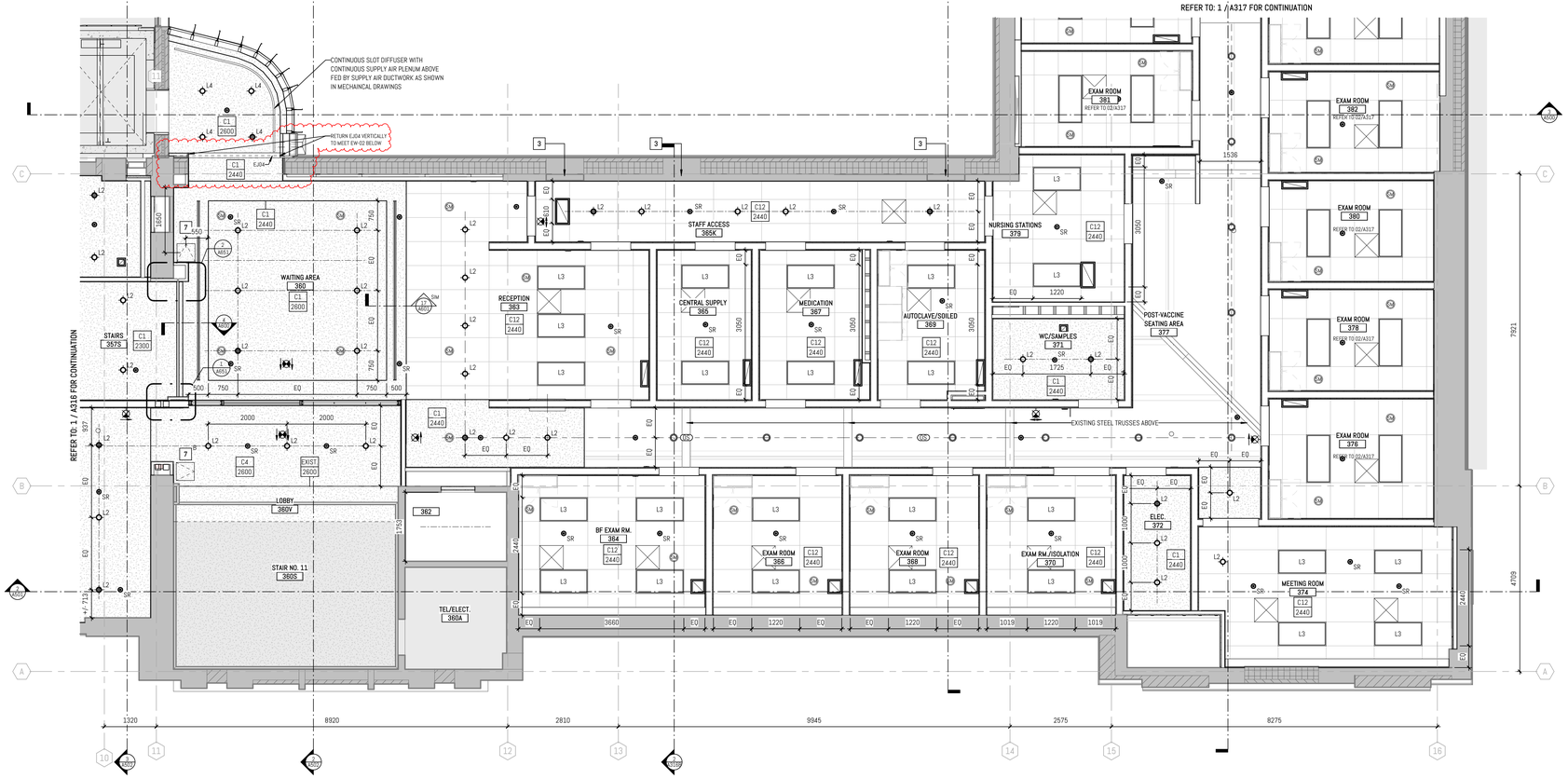
Ref: 2/ A009



3 / A316 LEVEL 03 - TYPICAL COUNS. ROOM RCP
1 : 25
Ref: 1/ A316



2 / A316 LEVEL 03 - ENLARGED RCP - NORTHEAST
1 : 50
Ref: 2/ A009

NEW WORK - ENLARGED RCP NOTES

NOTE	DESCRIPTION
1	ACOUSTIC WOOD PANEL CEILING - REFER TO DETAILS.
2	PATCH AND REPAIR EXISTING PLASTER BEAM AND MOULDING. PAINT TO MATCH EXISTING.
3	PROVIDE NEW MANUAL ROLLER SHADES.
4	PROVIDE NEW MOTORIZED ROLLER SHADES. REFER TO ELECTRICAL.
6	6A-305mm x 305mm, 6B-457mm x 457mm ACCESS DOOR. COORDINATE LOCATION WITH MECHANICAL ON SITE.
7	7A-305mm x 305mm, 7B-457mm x 457mm RECESSED ACCESS DOOR TO RECEIVE GWB. COORDINATE LOCATION WITH MECHANICAL ON SITE.
8	460mm x 460mm FIRE-RATED ACCESS DOOR. COORDINATE LOCATION WITH MECHANICAL ON SITE.
9	GENERAL NOTE (ALL FLOORS): EXISTING GWB AND PLASTER CEILINGS, BULKHEADS AND PLASTER FINISHED BEAMS TO RECEIVE NEW PAINT FINISH. REFER TO FINISHES SCHEDULE.
10	GENERAL NOTE (3RD FLOOR): APPLY NEW PAINT FINISH TO ALL EXPOSED ROOF STRUCTURE. REFER TO FINISHES SCHEDULE.
11	SEE NOTE 9 EXCEPT FINISHES TO MATCH EXISTING.
12	PATCH, REPAIR AND MAKE GOOD ALL AREAS DISTURBED BY THE OPERATION OF THE WORK TO RECEIVE PAINT TO MATCH EXISTING.
14	CAMERA OVER ISLAND, CEILING MOUNTED, ALIGN WITH BOTTOM OF RANGE HOOD. REFER TO ELECTRICAL AND AV.
15	TRACK: TEMPERED ALUMINUM OR STEEL TRACK SUPPORTED BY THREADED RODS. TO BE ENGINEERED BY CONTRACTOR.
16	TYPE 1 RECIRCULATING HOOD COMPLETE WITH INTEGRAL FIRE SUPRESSION SYSTEM. ALIGN EAST SIDE OF EXHAUST TO EDGE OF MILLWORK. REFER TO MECHANICAL DRAWINGS.
17	REINSTATE GWB CEILING FINISH AND ASSOCIATED FIXTURES TO MATCH EXISTING UPON COMPLETION OF STRUCTURAL WORK. REFER TO STRUCTURAL.
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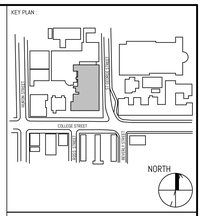
- SCOPE OF WORK
- EMERGENCY
- 1HR RATED BULKEHAD
- ACCESS PANEL

KEY PLAN :



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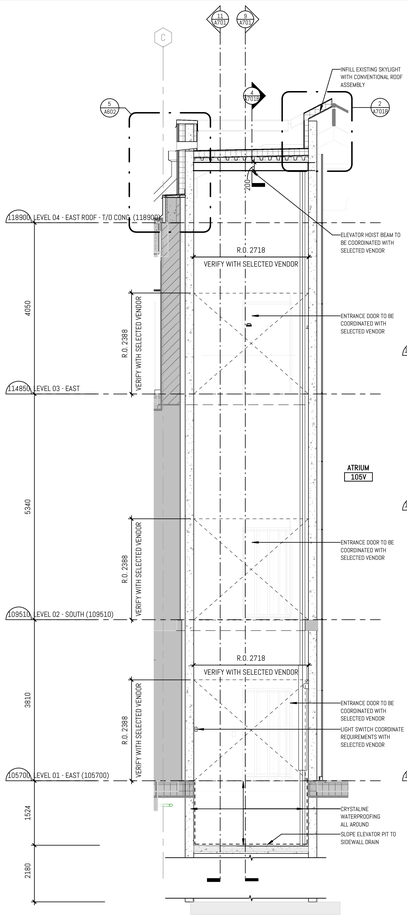
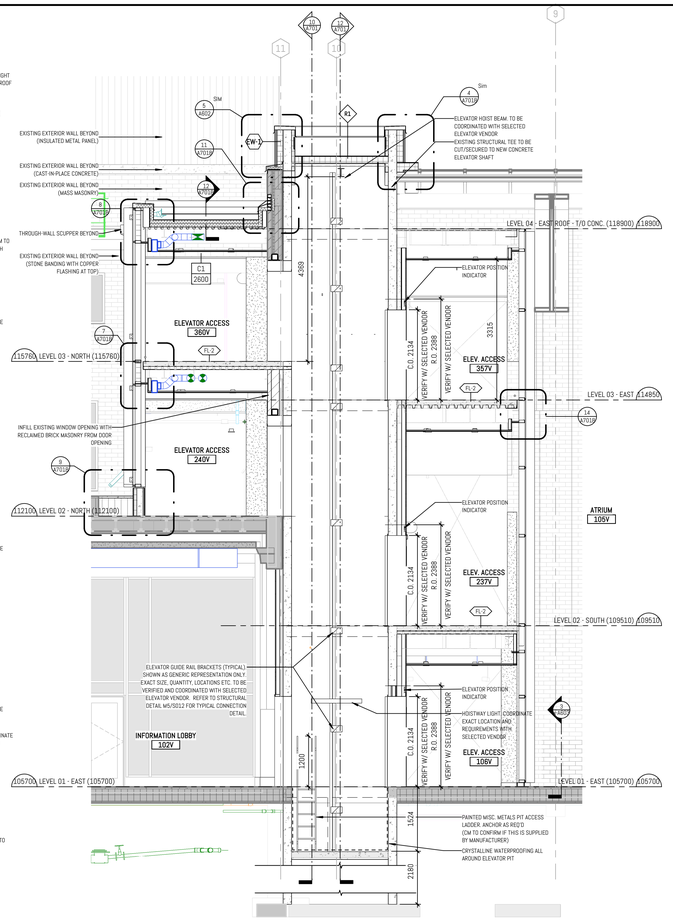
SHEET CONTENTS :
ENLARGED RCP - LEVEL 03

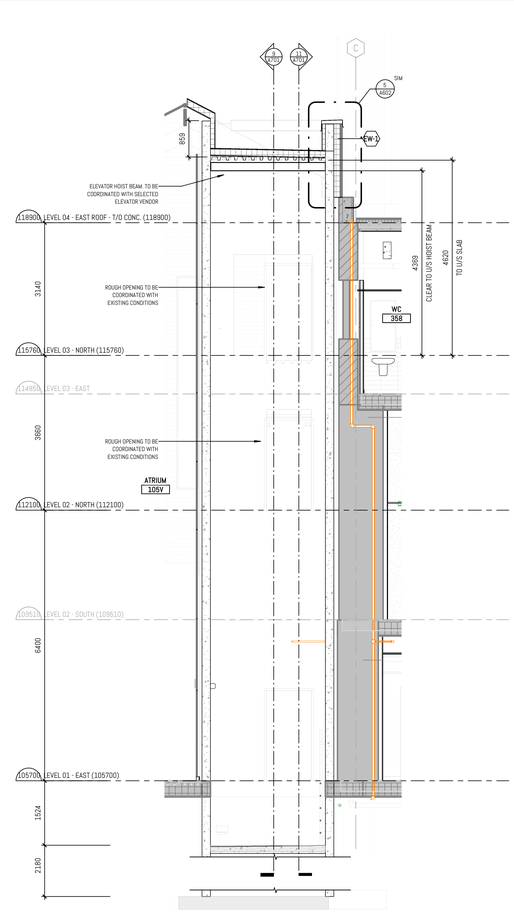
PROJECT NUMBER : 23-011 (P143-19-100)
DRAWING SCALE : 1:50
DRAWN BY : NE | CHECKED BY : AF | DATE : 2025-01-31
SHEET NO : A316 | REV : 10



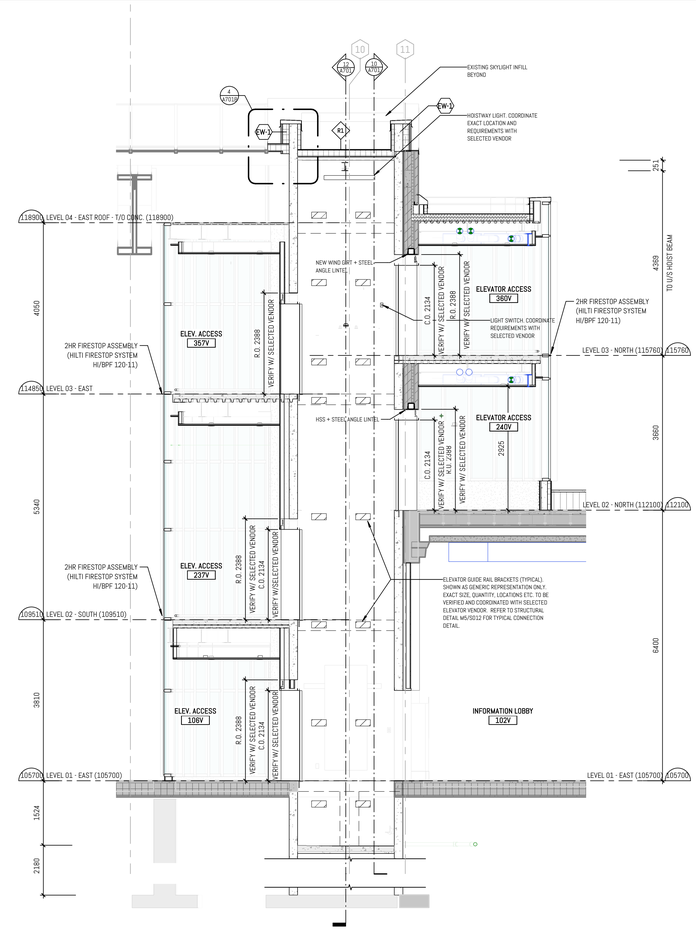
12 A701 SECTION - ELEVATOR SHAFT (LOOKING SOUTH)
1 : 50 Ref. 1/ A701



11 A701 SECTION - ELEVATOR SHAFT (LOOKING EAST)
1 : 50 Ref. 8/ A651

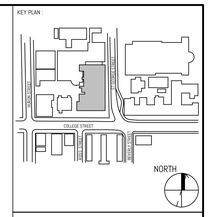


10 A701 SECTION - ELEVATOR SHAFT (LOOKING NORTH)
1 : 50 Ref. 1/ A701



9 A701 SECTION - ELEVATOR SHAFT (LOOKING WEST)
1 : 50 Ref. 1/ A701

KEY PLAN :



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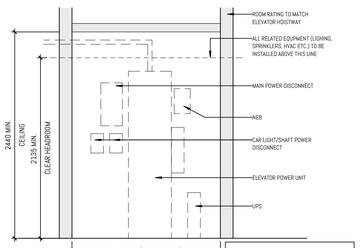
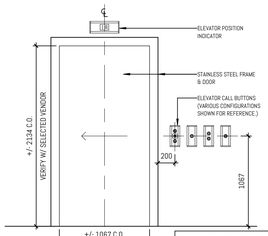
8	03/25/2025	BID ADDENDUM #4

ELEVATOR NOTES: DRAWINGS SHOW GENERIC REPRESENTATION BASED ON KONE MONOSPACE 3500LB MODEL. DRAWINGS SUBJECT TO BE ADJUSTED TO SUIT SELECTED ELEVATOR VENDOR REQUIREMENTS.



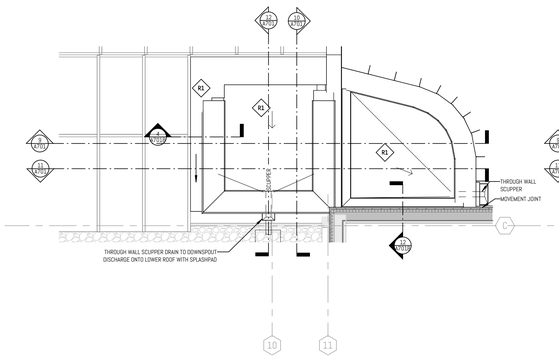
GENERIC ELEVATION BASED ON KONE MONOSPACE MRL ELEVATOR SHOWN FOR REFERENCE ONLY. EXACT COMPONENTS AND LAYOUTS TO BE COORDINATED WITH SELECTED VENDOR REQT'S.

8 A701 GENERIC CONTROL CLOSET ELEVATION
1 : 25

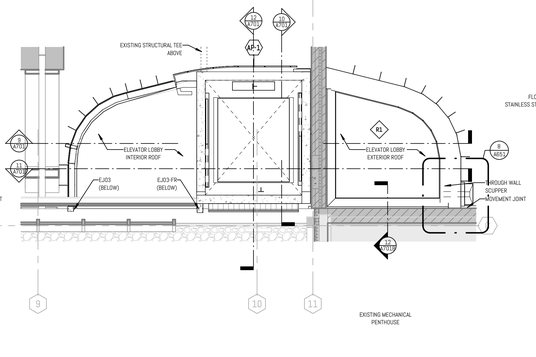


GENERIC ELEVATION BASED ON KONE MONOSPACE MRL ELEVATOR SHOWN FOR REFERENCE ONLY. EXACT COMPONENTS AND LAYOUTS TO BE COORDINATED WITH SELECTED VENDOR REQT'S.

7 A701 TYPICAL ELEVATOR LOBBY ELEVATION
1 : 25



6 A701 LEVEL 04 - ELEVATOR OVERRUN DOGHOUSE ROOF PLAN
1 : 50 Ref. 2/ A009



5 A701 LEVEL 04 - ELEVATOR LOBBY ROOF PLAN
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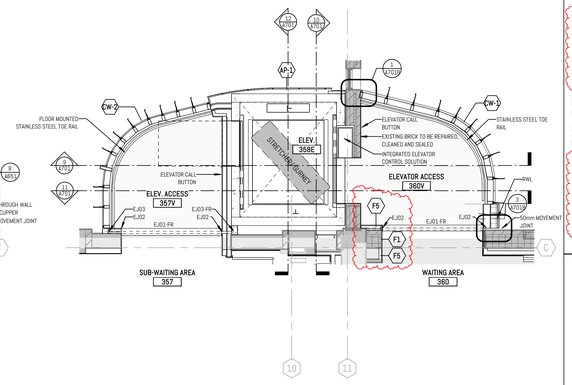


4 A701 LEVEL 03 - ELEVATOR PLAN
1 : 50 Ref. 3/ A009

EXPANSION JOINT TYPES
(REFER TO SPEC 07 95 13 FOR ADDITIONAL INFORMATION)

EJ01-FR: FLOOR
50MM GAP - 2HR FIRE RATING
EMSEAL "DFR2-0200" COMBINED WITH
EMSEAL "Webo FastFloor FJF-200"
- 140MM ALUMINUM COVER PLATE

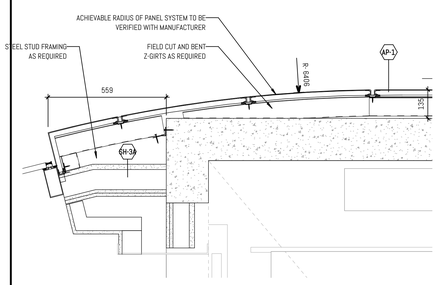
EJ02: INTERIOR WALL - CHPSUM/GYPSUM
50MM GAP
EMSEAL "WABO FASTWALL EWH-200"
- 140MM ALUMINUM COVER PLATE

EJ03: INTERIOR WALL - CURTAIN WALL / BRICK
50-150MM GAP
EMSEAL "SEISMIC COLORSEAL"

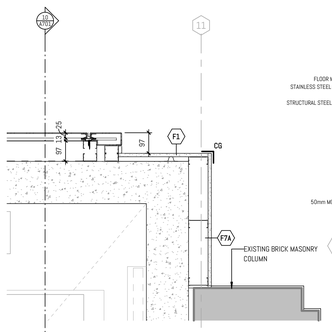
EJ03-FR: INTERIOR WALL - CAST-IN-PLACE CONCRETE / BRICK
50-250MM GAP - 2HR FIRE
EMSEAL "EMSHIELD WFX2"

EJ04: INTERIOR CEILING/WALL
50MM GAP
EMSEAL "WABO FASTWALL EWH-200C"
- 114MM ALUMINUM COVER PLATE

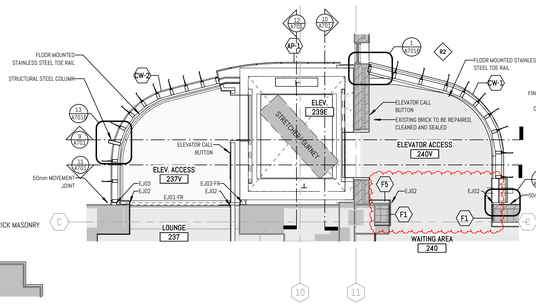
EJ04A: INTIRIOR CEILING
50MM GAP
EMSEAL "WABO FASTWALL EWH-200"
- 140MM ALUMINUM COVER PLATE



13 A701 PLAN DETAIL - ELEVATOR CLADDING CURVED CORNER
1 : 10 Ref. 2/ A701



14 A701 PLAN DETAIL - ELEVATOR CLADDING NORTH CORNER
1 : 10 Ref. 2/ A701



3 A701 LEVEL 02 - ELEVATOR PLAN
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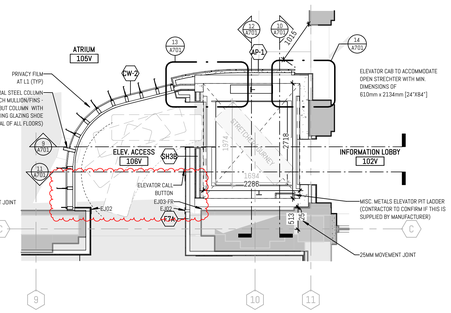

2 A701 LEVEL 01 - ELEVATOR PLAN
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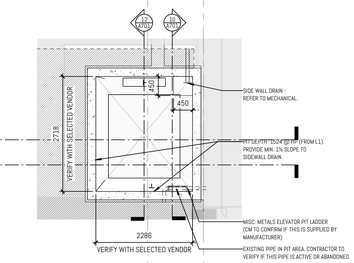

1 A701 BASEMENT - ELEVATOR PLAN
1 : 50

ENFORM architects
ENFORM Architects Inc.
128A Sterling Road, Suite 300B
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PROJECT :
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214 College Street, Toronto, ON M5T 3A1

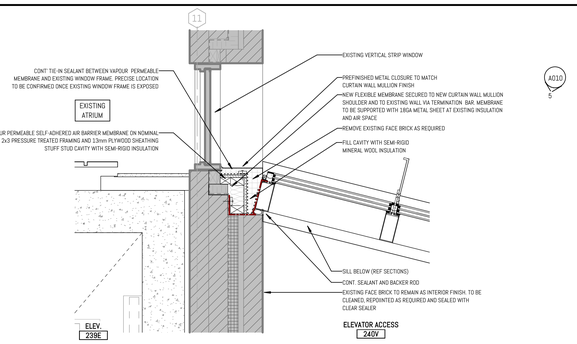
SHEET CONTENTS :
ELEVATOR AND LIFT DETAILS

PROJECT NUMBER : 23-011 (P143-19-100)

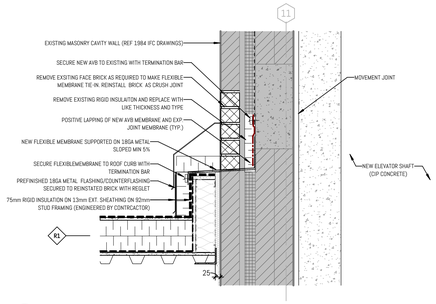
DRAWING SCALE : As indicated

DRAWN BY :	CHECKED BY :	DATE:
NP	AF	2025-01-31

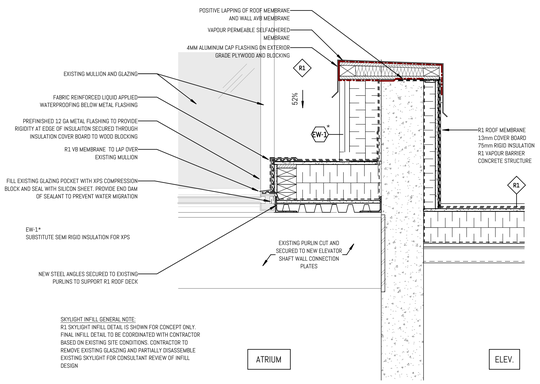
SHEET NO : A701
REV. : 8



1 A701B PLAN DETAIL - ELEVATOR CURTAIN WALL AT MASONRY CAVITY WALL
1 : 10 Ref. 3/ A701

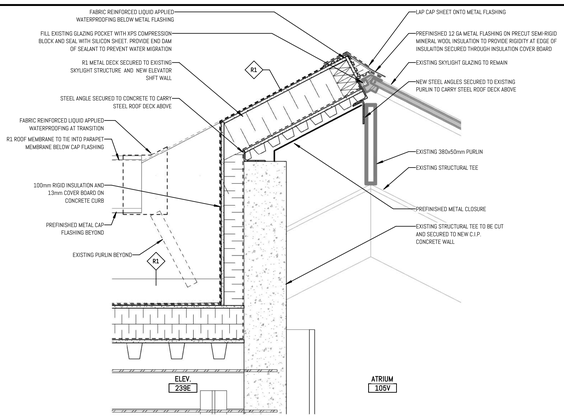


11 A701B SECTION DETAIL - ROOF JOINT AT ATRIUM NORTH WALL
1 : 10 Ref. 11/ A701

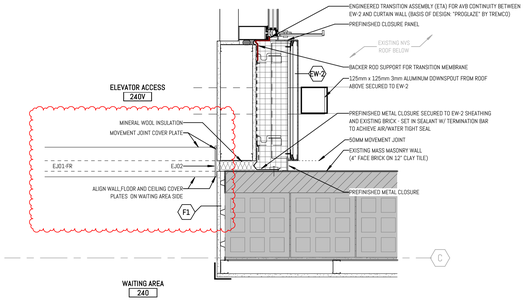


SKYLIGHT INFILL GENERAL NOTE:
R1 SKYLIGHT INFILL DETAIL IS SHOWN FOR CONCEPT ONLY. FINAL INFILL DETAIL TO BE COORDINATED WITH CONTRACTOR BASED ON EXISTING SITE CONDITIONS. CONTRACTOR TO REMOVE EXISTING GLAZSING AND PARTIALLY DISASSEMBLE EXISTING SKYLIGHT FOR CONSULTANT REVIEW OF INFILL DESIGN

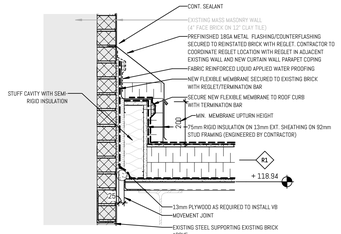
4 A701B SECTION DETAIL - ATRIUM ROOF INFILL AT SKYLIGHT + ELEVATOR OVERRUN
1 : 10 Ref. 6/ A701



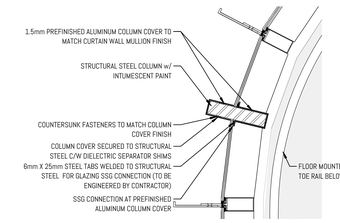
2 A701B SECTION DETAIL - ATRIUM ROOF INFILL AT RIDGE/ELEVATOR OVERRUN
1 : 10 Ref. 12/ A701



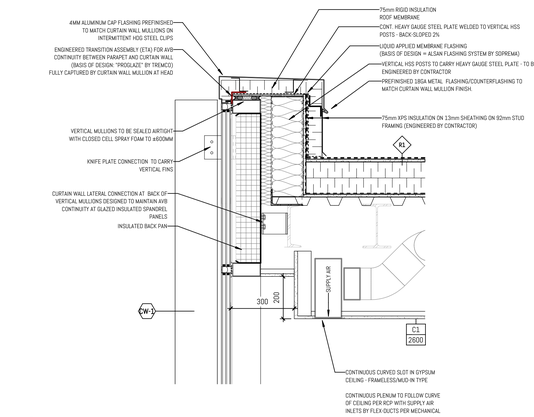
3 A701B PLAN DETAIL - ELEVATOR CURTAIN WALL AT MASS MASONRY - LEVEL 02
1 : 10 Ref. 2/ A214



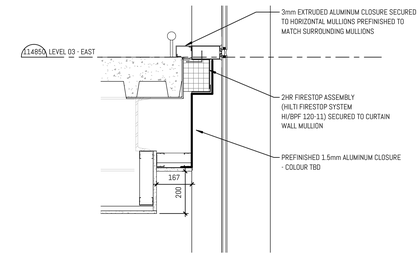
12 A701B SECTION DETAIL - ROOF EXPANSION JOINT AT MASS MASONRY WALL
1 : 10 Ref. 5/ A701



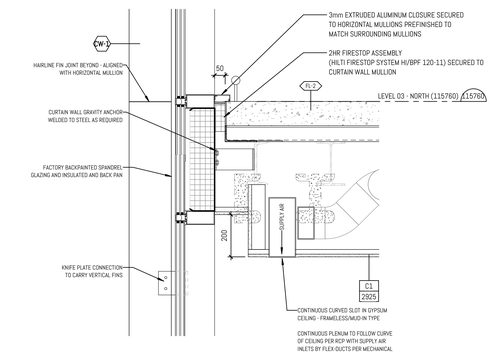
13 A701B PLAN DETAIL - COLUMN COVER AT ELEVATOR SOUTH LOBBY
1 : 10 Ref. 3/ A701



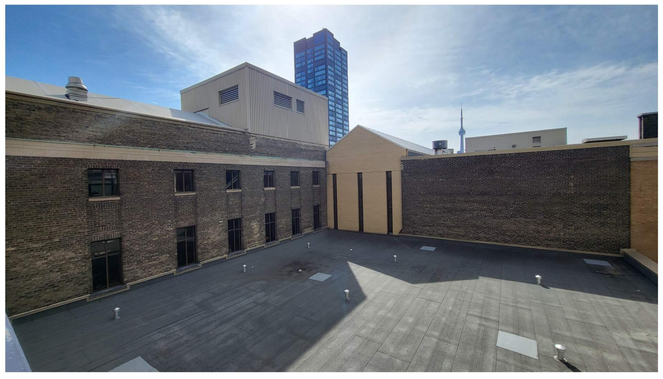
8 A701B SECTION DETAIL - ELEVATOR NORTH LOBBY PARAPET
1 : 10 Ref. 11/ A701

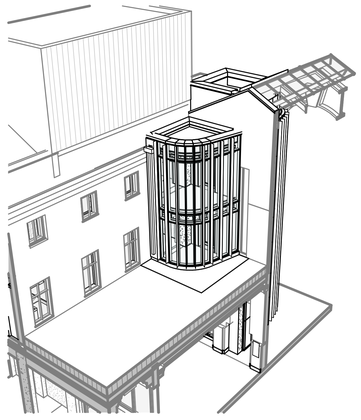


14 A701B SECTION DETAIL - ELEVATOR SOUTH LOBBY INTERMEDIATE FLOOR
1 : 10 Ref. 11/ A701

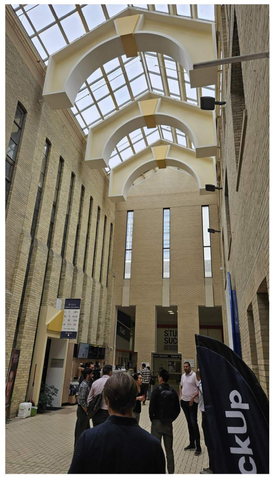


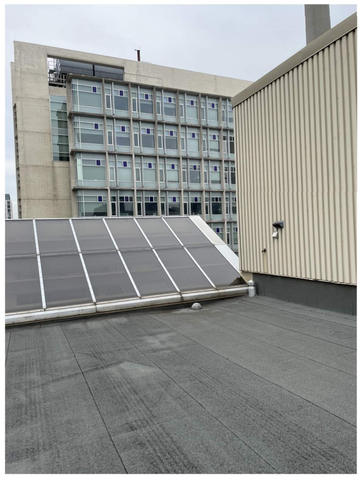
7 A701B SECTION DETAIL - ELEVATOR NORTH LOBBY INTERMEDIATE FLOOR
1 : 10 Ref. 11/ A701

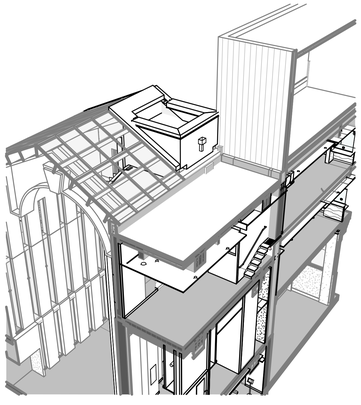




5 A701B 3D - EXTERIOR LOBBY PERSPECTIVE

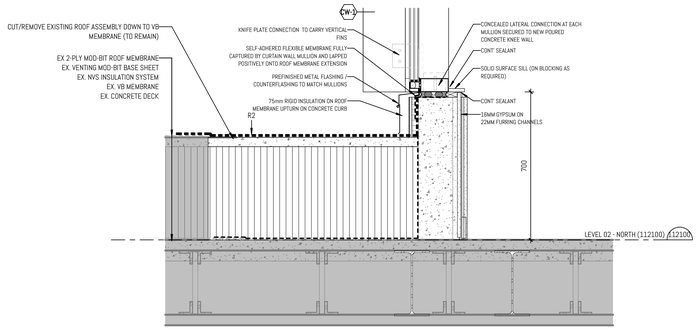






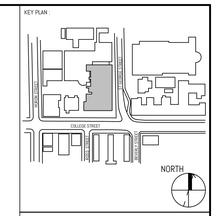
6 A701B 3D - EXTERIOR SKYLIGHT PERSPECTIVE

10 A701B 3D - INTERIOR PERSPECTIVE



9 A701B SECTION DETAIL - ELEVATOR NORTH LOBBY ROOF/SILL INTERFACE
1 : 10 Ref. 11/ A701

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	09/30/2024	COSTING SET
2	10/04/2024	CLIENT REVIEW
3	11/01/2024	PROGRESS ISSUANCE
4	12/15/2024	BUILDING PERMIT
5	12/13/2024	FBS REVIEW
6	01/25/2025	PEER REVIEW
7	01/31/2025	ISSUED FOR BID
8	03/25/2025	BID ADDENDUM #4

ENFORM architects
ENFORM Architects Inc.
128A Sterling Road, Suite 300B
Toronto, Ontario, Canada M6R 2B7
t. 647-848-7523
www.enformarchitects.com

SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
UNIVERSITY OF TORONTO HEALTH & WELLNESS CENTRE AT KOFFLER RENOVATION

214 College Street, Toronto, ON M5T 3A1

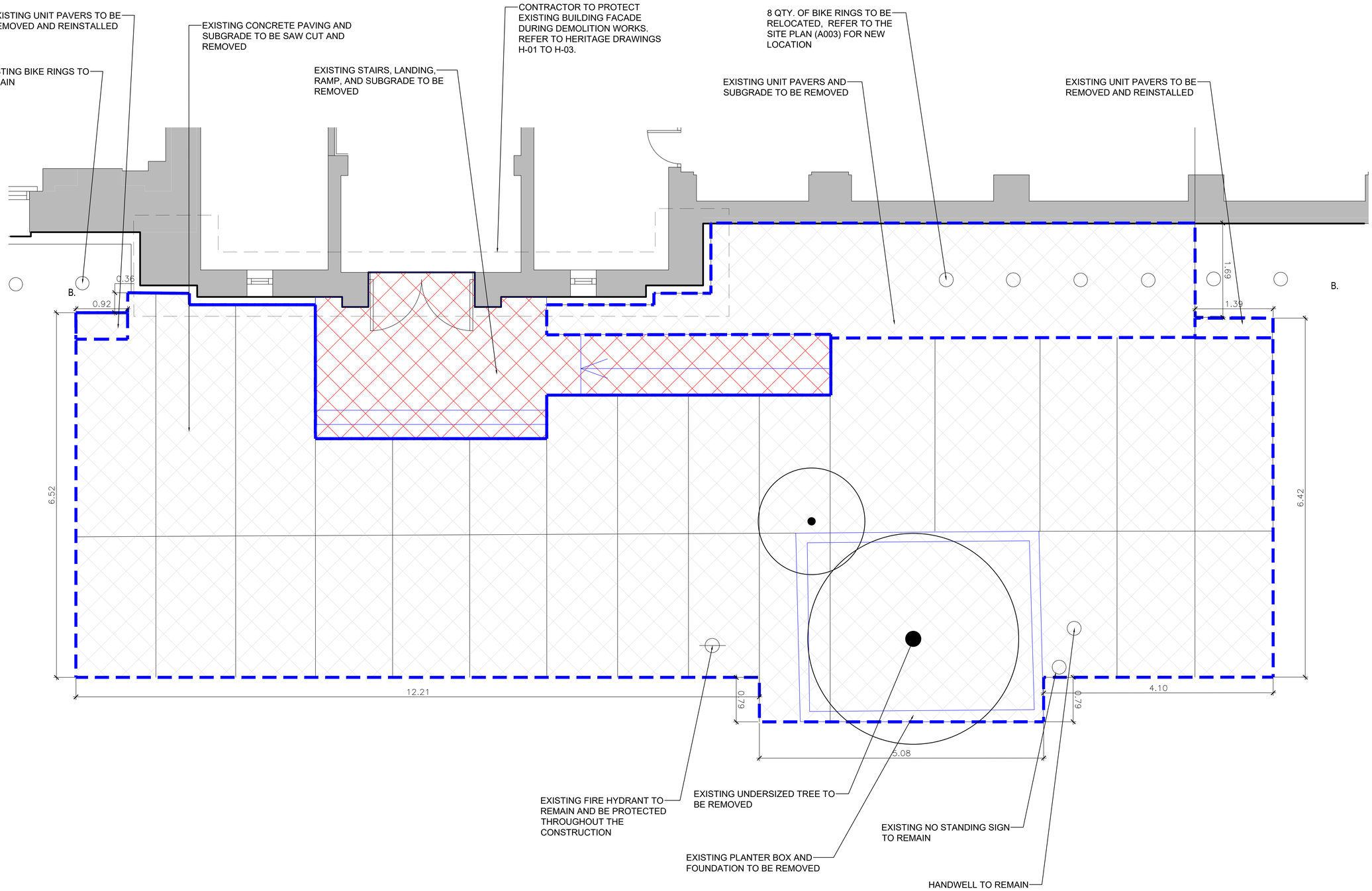
SHEET CONTENTS:
ELEVATOR PLAN + SECTION DETAILS

PROJECT NUMBER :
23-011 (P143-19-100)

DRAWING SCALE :
1 : 10

DRAWN BY :	CHECKED BY :	DATE:
NP	AF	2025-01-31

SHEET NO : A701B
REV : 8

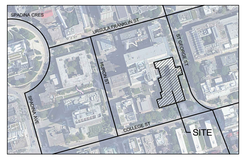


LEGEND

- AREAS OF REMOVAL
- AREAS OF STAIRS, LANDING, AND RAMP REMOVAL
- EXISTING TREE TO BE REMOVED

*NOTE:
ALL GRADING WORK AND SOIL REMOVAL IS TO BE IN ACCORDANCE WITH ONTARIO ON-SITE AND EXCESS SOIL MANAGEMENT REGULATION 406/19

LOCATION MAP



GENERAL NOTES

THE LOCATION OF PROPERTY LINES, ELEVATIONS AND FACILITIES ON THIS PLAN WERE DRAWN ON THE BASIS OF A DIGITAL SITE PLAN OR SURVEY DATA PROVIDED BY OTHER CONSULTANTS.

IT IS THE RESPONSIBILITY OF THE CLIENT AND HIS CONTRACTORS TO CONFIRM THE ACCURACY OF THE SETBACKS, LOCATIONS AND GRADES ETC. ANY VARIATIONS BETWEEN EXISTING CONDITIONS AND THIS PLAN SHOULD BE ADJUSTED ON SITE AND REPORTED TO THE CONSULTING LANDSCAPE ARCHITECT TO DETERMINE THE IMPACT OF THE VARIATIONS ON THE SUITABILITY OF THE PROPOSED DEVELOPMENT.

CONSTRUCTION MUST CONFORM TO ALL CODES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

REVISIONS

NO.	DATE	NOTES
01	2024-02-16	BUILDING PERMIT
02	2024-11-01	PROGRESS ISSUANCE
03	2024-11-15	BUILDING PERMIT
04	2025-01-31	ISSUED FOR BID
05	2025-03-25	ADDENDUM # 4

HUNTER HERITAGE - ASSOCIATES INC.
HKLA
Landscape Architects & Consulting Arborists
230 Westney Road S Unit 308, Ajax, ON L1S 7J5
O: (905) 839-5599 ⅊ Email: info@hkla.ca ⅊ Web: www.hkla.ca

THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND THE LANDSCAPE ARCHITECT RETAINS OWNERSHIP OF THESE DRAWINGS. THEY ARE FOR SITE PLAN APPROVAL ONLY AND MAY REQUIRE FURTHER CONSTRUCTION DETAILING AND COORDINATION WITH OTHER ASSOCIATED PROFESSIONAL DESIGN SERVICES BEFORE ACTUAL TENDER AND CONSTRUCTION COMMENCES. DIMENSIONS ARE TO BE VERIFIED PRIOR TO CONSTRUCTION. DRAWINGS ARE NOT TO BE SCALED. IT IS ADVISED THAT CONTRACTORS CONTACT THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ENSURE THE USE OF THE LATEST REVISED DRAWINGS. THE LANDSCAPE ARCHITECT IS NOT LIABLE FOR ERRORS OR OMISSIONS ARISING FROM UTILIZATION OF THESE PLANS BEFORE THE SAID DRAWINGS ARE SEALED, SIGNED AND DATED, AND THE LANDSCAPE ARCHITECT IS CONTRACTED TO PROVIDE CONSTRUCTION ADMINISTRATION AND CERTIFICATION SERVICES BY THE OWNER. ALL APPARENT DISCREPANCIES ARE TO BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT BEFORE CONSTRUCTION COMMENCES.

KEY PLAN (NTS)

SEAL

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
KYLE FOSTER
OALA
MEMBER

PROJECT TITLE

UNIVERSITY OF TORONTO

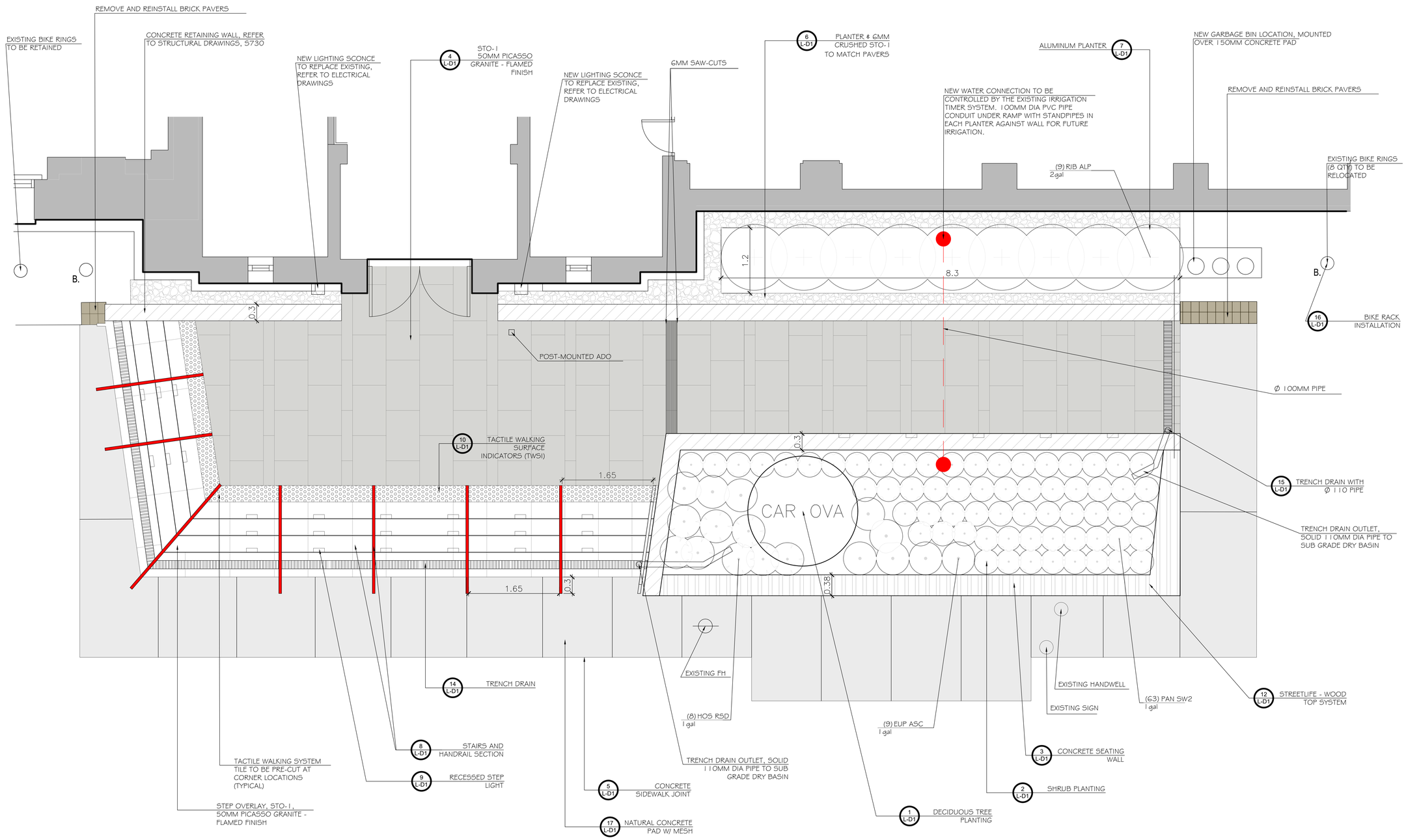
HEALTH & WELLNESS CENTRE AT KOFFLER RENOVATION

214 College Street

DRAWING SHEET TITLE

REMOVALS PLAN

DRAWN BY: FL	SCALE: 1:25
REVIEWED BY: KF	DATE CREATED: 31-OCTOBER-2023
UNIVERSITY PROJECT NUMBER: P143-19-100	NORTH POINT
DRAWING NUMBER: L-RP	REV. NUMBER: 1



REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	APPROX. QTY	DETAIL
Accessible			
	Tactile Walking Surface Indicators (TWSI)	3.4 m²	10/L-D1
Concrete Paving			
	Concrete Paving	42.0 m²	5/L-D1
Unit Paving			
	STO-1, 50mm Picasso Granite - Flamed Finish	46.1 m²	4/L-D1
Aggregate/Stone Surfacing			
	6mm Crushed STO-1	7.0 m²	6/L-D1

PLANT SCHEDULE

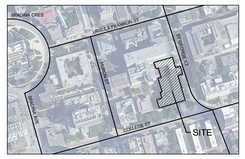
CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT	REMARKS
TREES						
CAR OVA	1	Carya ovata	Shagbark Hickory	70mm Cal.		DT/N
SHRUBS						
EUP ASC	9	Euphorbia x martinii 'Ascot Rainbow'	Ascot Rainbow Euphorbia	1 gal	Potted	
HOS R5D	8	Hosta x 'Raspberry Sundae'	Raspberry Sundae Hosta	1 gal	Potted	
PAN SW2	63	Panicum virgatum	Switch Grass	1 gal	Potted	DT/N
RIB ALP	9	Ribes alpinum	Alpine Currant	2gal	Potted	DT

✱NOTE:
PLANTER SOIL MIX (TYP):

SOIL COMPOSITION: A SANDY LOAM TEXTURE PROFILE (50-60% SAND, 20-40% SILT, AND 6-10% CLAY), 2-5% ORGANIC MATTER BY DRY WEIGHT, AND A MAXIMUM PH OF 7.5.

✱NOTE:
REFER TO CIVIL DRAWINGS (C2.1) FOR GRADING INFORMATION.

LOCATION MAP



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KEY PLAN (NTS)

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
KYLE FOOTE
OALA

PROJECT TITLE

UNIVERSITY OF TORONTO

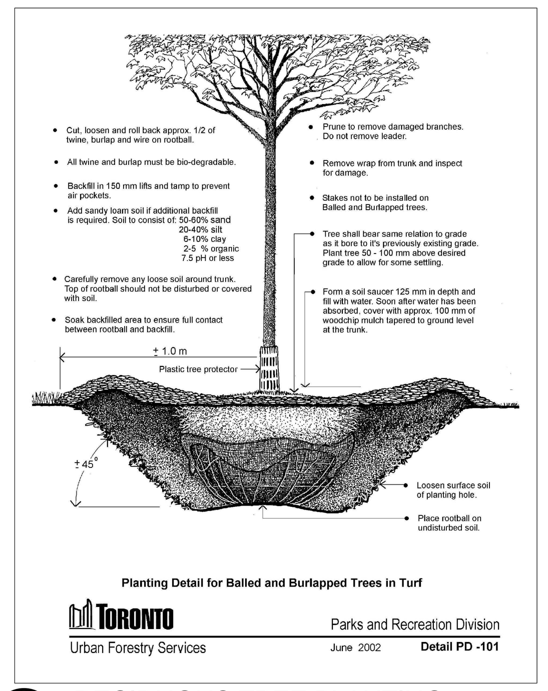
HEALTH & WELLNESS CENTRE AT KOFFLER RENOVATION

214 College Street

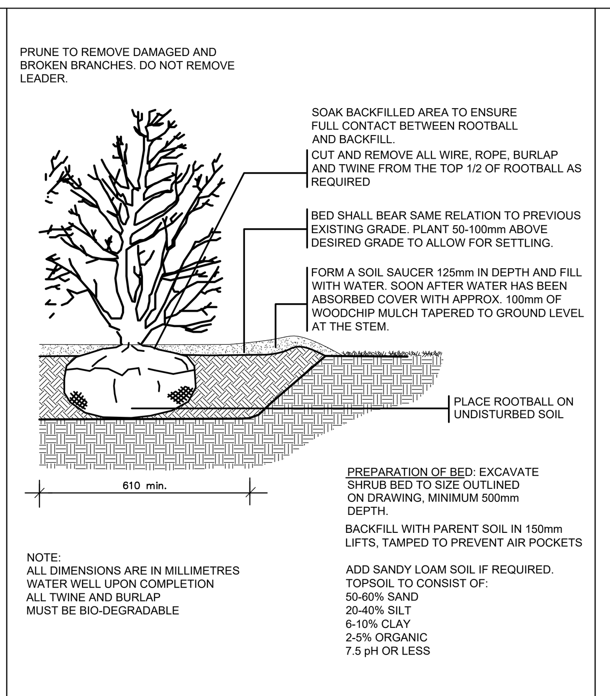
DRAWING SHEET TITLE

LANDSCAPE PLAN

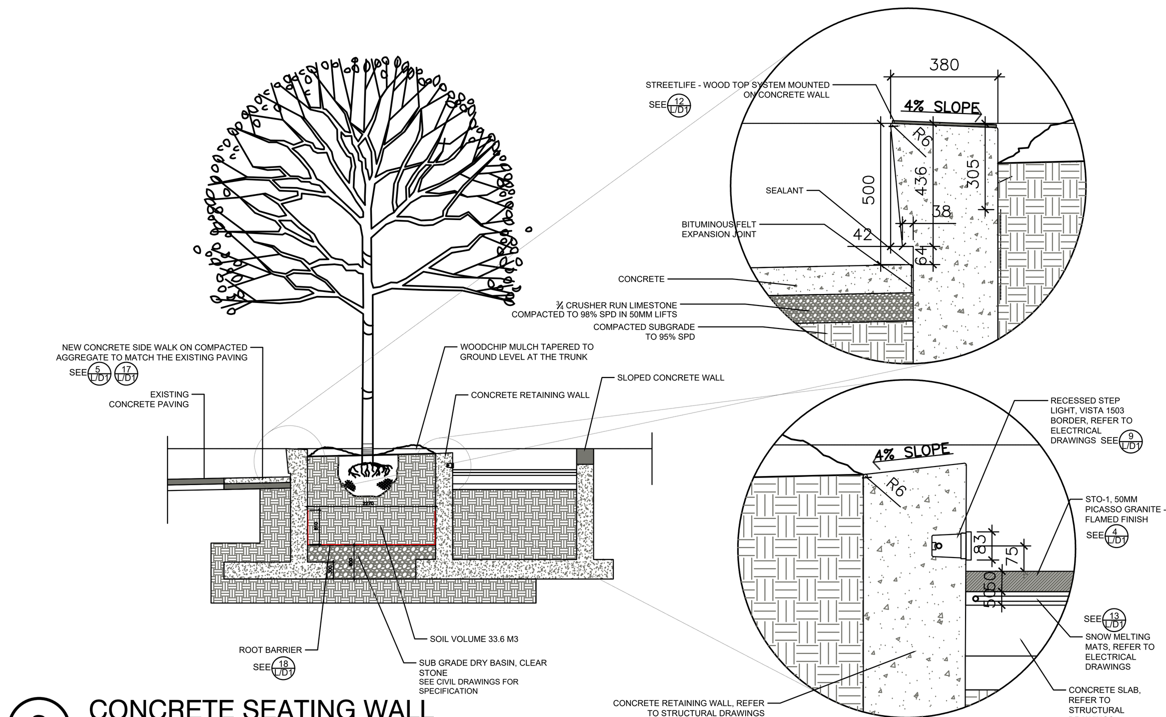
DRAWN BY: FL	SCALE: 1:25
REVIEWED BY: KF	DATE CREATED: 31-OCTOBER-2023
UNIVERSITY PROJECT NUMBER: P143-19-100	NORTH POINT
DRAWING NUMBER: L-L1	REV. NUMBER: 1



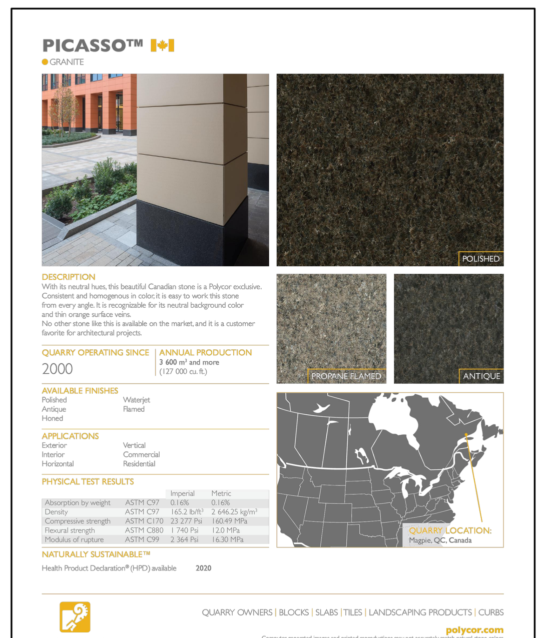
1 DECIDUOUS TREE PLANTING
N.T.S. CITY OF TORONTO 329301.75–01



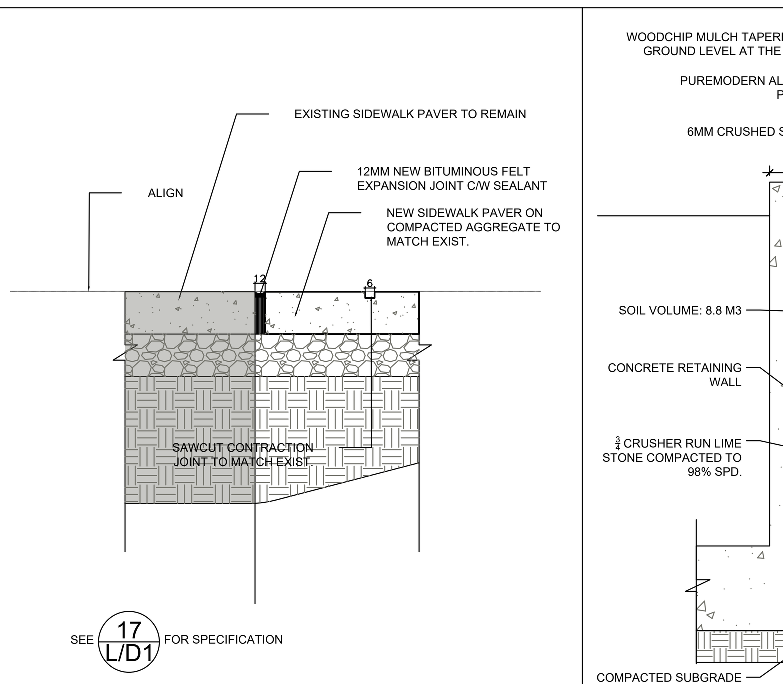
2 SHRUB PLANTING
NTS CITY OF TORONTO 329301.75–02



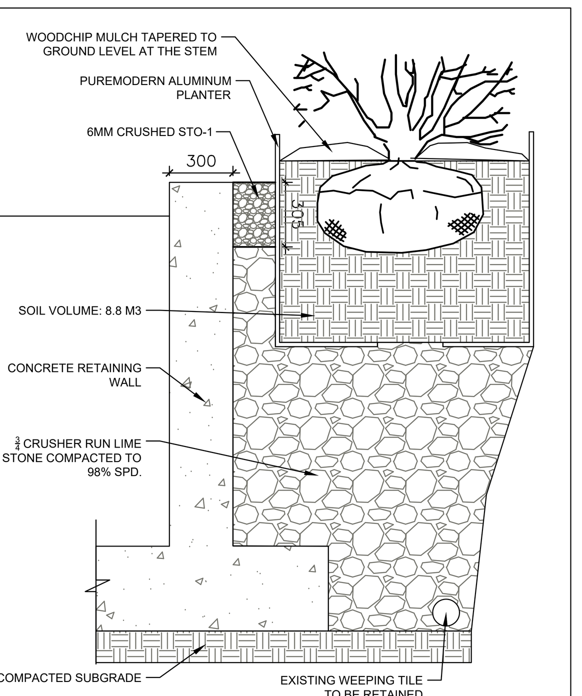
3 CONCRETE SEATING WALL
N.T.S P-CO-3-07



4 50MM PICASSO GRANITE - FLAMED FINISH
N.T.S 321440-02

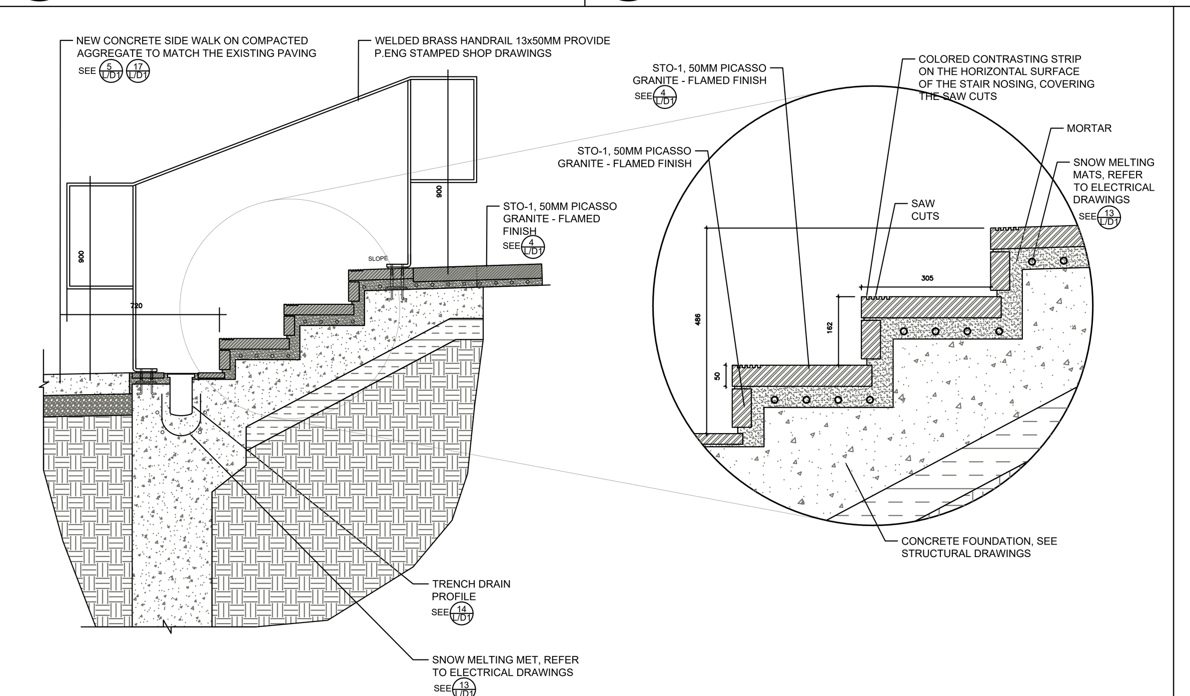


5 CONCRETE SIDEWALK JOINT
N.T.S P-CO-3-08

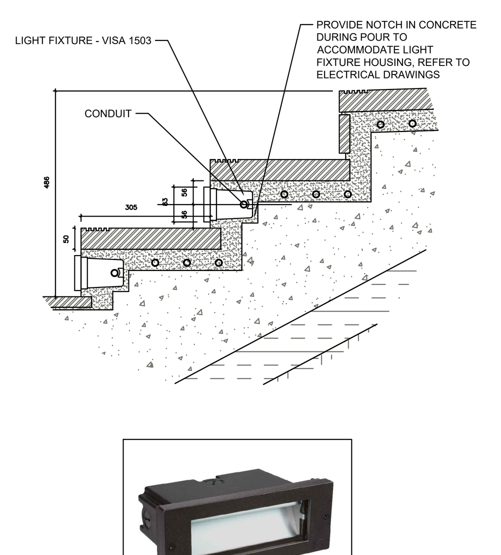


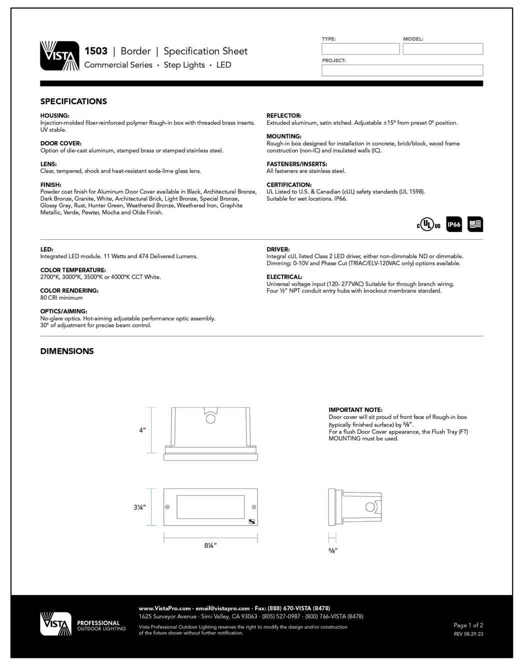
6 PLANTER & 6MM CRUSHED STO-1
N.T.S P-CO-3-01

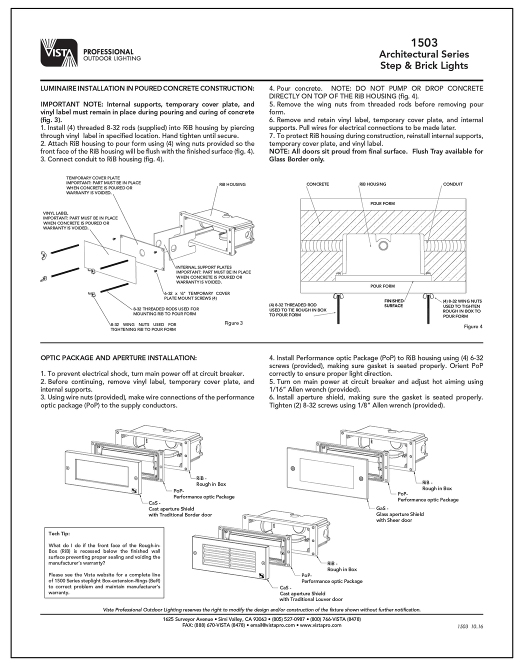
7
N.T.S 129333–25



8 STAIRS AND HANDRAIL SECTION
N.T.S P-CO-3-04





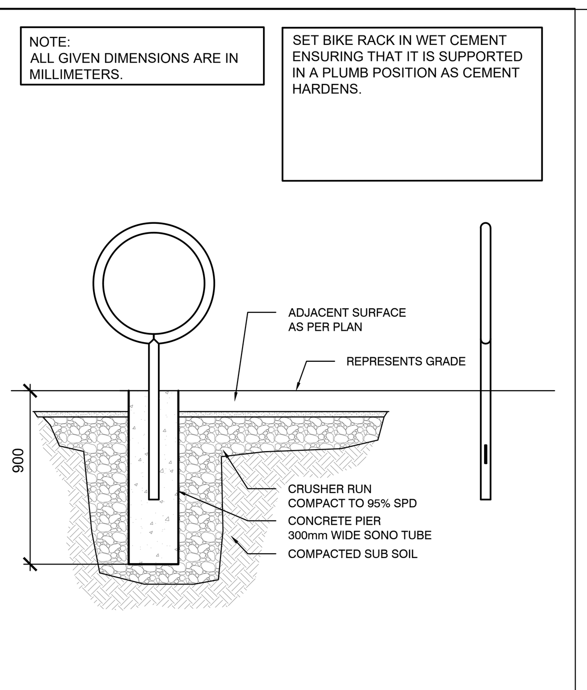


9 RECESSED STEP LIGHT
1:20 P-CO-3-05

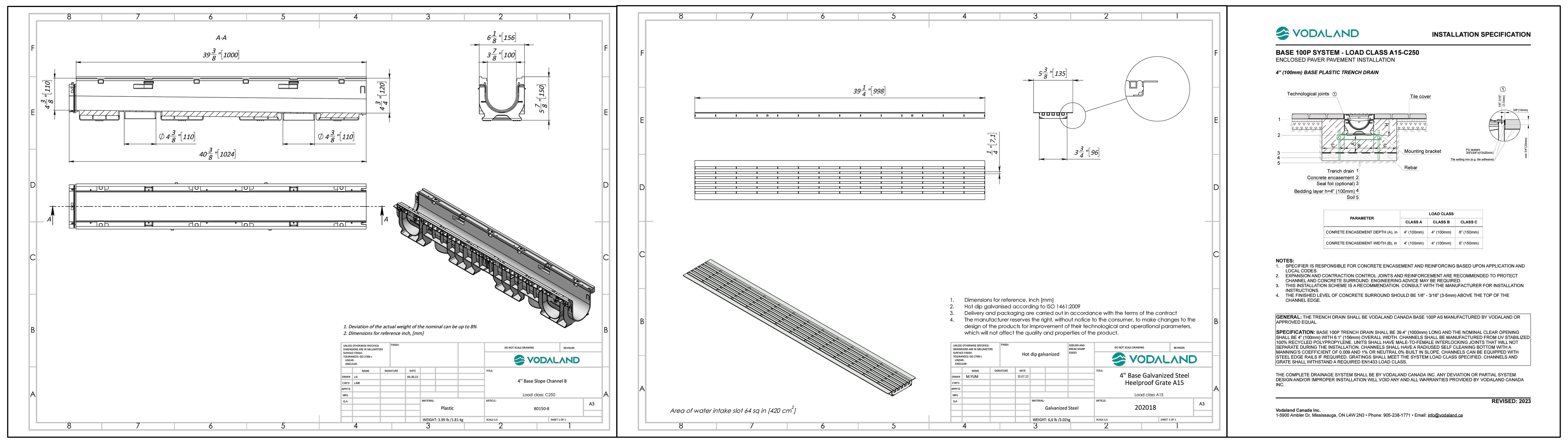
10 TACTILE WALKING SURFACE INDICATORS (TWSI)
N.T.S 321313.16-09

12 STREETLIFE - WOOD TOP SYSTEM CUSTOMIZED WOOD SEATING BOARD MOUNTED ON CONCRETE.
N.T.S P-CO-3-12

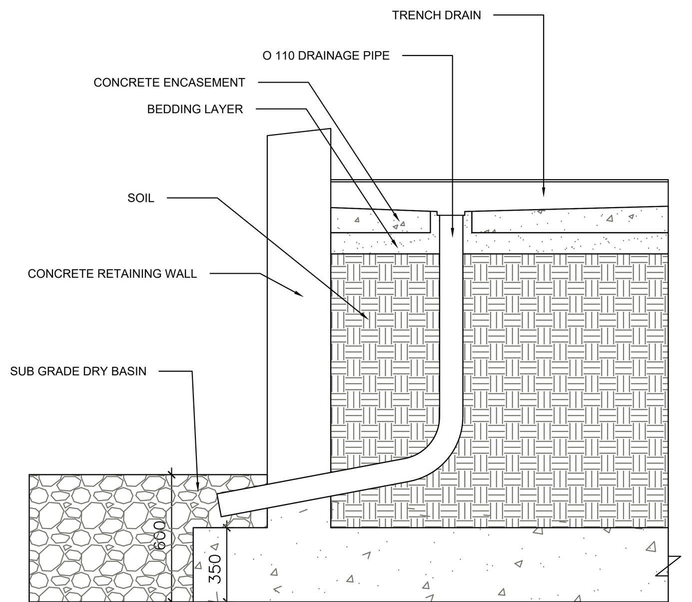
13 WARMUP, SNOW MELTING MATS
NTS 2657–01



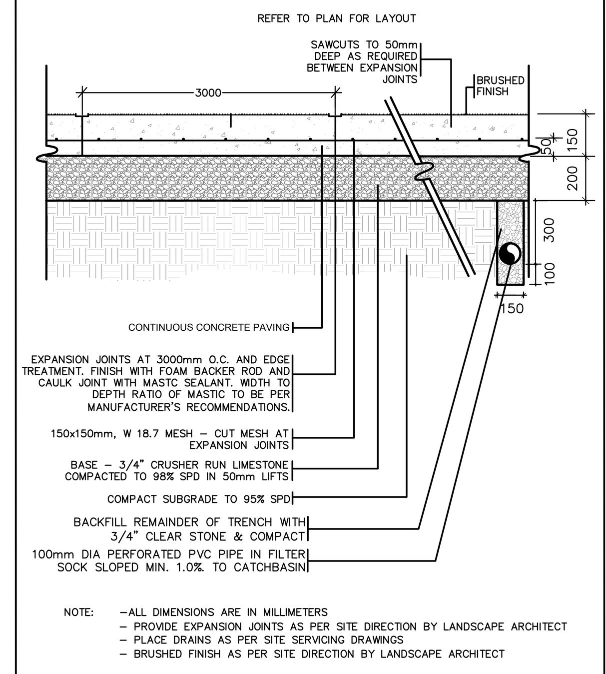
16 BIKE RACK INSTALLATION
N.T.S. P-CO-3-13



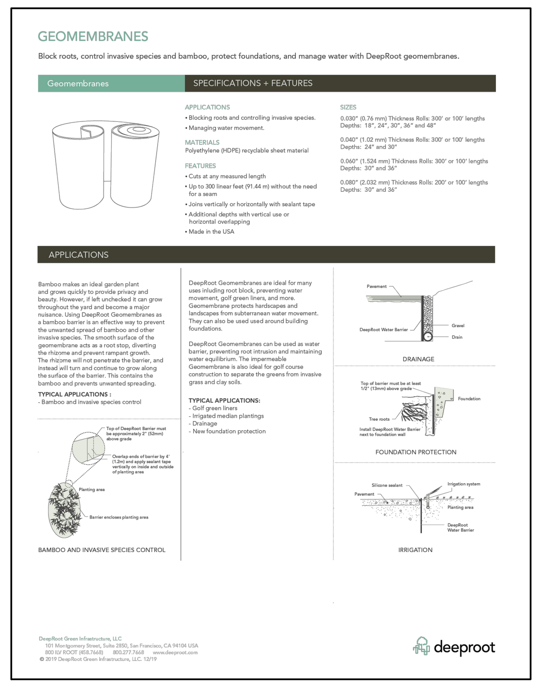
14 TRENCH DRAIN
NTS 320440–01



15 TRENCH DRAIN WITH Ø 110 PIPE
N.T.S P-CO-3-10

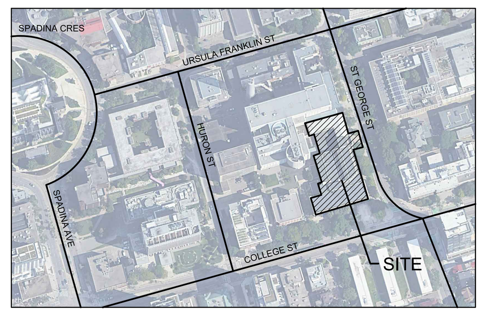


17 NATURAL CONCRETE PAD W/ MESH WITH OPTIONAL DRAIN
N.T.S 321313.13–13



18 ROOT BARRIER
NTS P–CO–3–11

LOCATION MAP



GENERAL NOTES

THE LOCATION OF PROPERTY LINES, ELEVATIONS AND FACILITIES ON THIS PLAN WERE DRAWN ON THE BASIS OF A DIGITAL SITE PLAN OR SURVEY DATA PROVIDED BY OTHER CONSULTANTS.

IT IS THE RESPONSIBILITY OF THE CLIENT AND HIS CONTRACTORS TO CONFIRM THE ACCURACY OF THE SETBACKS, LOCATIONS AND GRADES ETC. ANY VARIATIONS BETWEEN EXISTING CONDITIONS AND THIS PLAN SHOULD BE ADJUSTED ON SITE AND REPORTED TO THE CONSULTING LANDSCAPE ARCHITECT TO DETERMINE THE IMPACT OF THE VARIATIONS ON THE SUITABILITY OF THE PROPOSED DEVELOPMENT.

CONSTRUCTION MUST CONFORM TO ALL CODES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

REVISIONS

NO.	DATE	NOTES
01	2024-02-16	BUILDING PERMIT
02	2024-11-01	PROGRESS ISSUANCE
03	2024-11-15	BUILDING PERMIT
04	2025-01-31	ISSUED FOR BID
05	2025-03-25	ADDENDUM # 4

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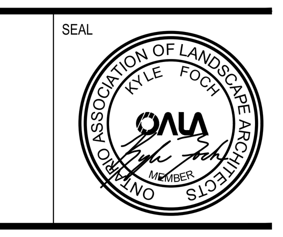
THESE DRAWINGS ARE INSTRUMENTS OF SERVICE AND THE LANDSCAPE ARCHITECT RETAINS OWNERSHIP OF THESE DRAWINGS. THEY ARE FOR SITE PLAN APPROVAL ONLY AND MAY REQUIRE FURTHER CONSTRUCTION DETAILING AND COORDINATION WITH OTHER ASSOCIATED PROFESSIONAL DESIGN SERVICES BEFORE ACTUAL TENDER AND CONSTRUCTION COMMENCES. DIMENSIONS ARE TO BE VERIFIED PRIOR TO CONSTRUCTION. DRAWINGS ARE NOT TO BE SCALED. IT IS ADVISED THAT CONTRACTORS CONTACT THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION TO ENSURE THE USE OF THE LATEST REVISED DRAWINGS. THE LANDSCAPE ARCHITECT IS NOT LIABLE FOR ERRORS OR OMISSIONS ARISING FROM UTILIZATION OF THESE PLANS BEFORE THE SAID DRAWINGS ARE SEALED, SIGNED AND DATED, AND THE LANDSCAPE ARCHITECT IS CONTRACTED TO PROVIDE CONSTRUCTION ADMINISTRATION AND CERTIFICATION SERVICES BY THE OWNER. ALL APPARENT DISCREPANCIES ARE TO BE REPORTED IN WRITING TO THE LANDSCAPE ARCHITECT BEFORE CONSTRUCTION COMMENCES.

KEY PLAN (NTS)

SEAL



PROJECT TITLE

UNIVERSITY OF TORONTO

HEALTH & WELLNESS CENTRE AT KOFFLER RENOVATION

214 College Street

DRAWING SHEET TITLE

DETAIL PLAN

DRAWN BY:	FL	SCALE:	AS SHOWN
REVIEWED BY:	KF	DATE CREATED:	31-OCTOBER-2023

UNIVERSITY PROJECT NUMBER: P143-19-100

NORTH POINT

DRAWING NUMBER: **L-D1**

REV. NUMBER: **1**

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TENDER ADDENDUM

PROJECT NAME:	HEALTH & WELLNESS CENTER RENOVATION AT KOFFLER
COMPANY:	ENFORM
ATTENTION:	Alan Fraser
PROJECT NO.: 21590.003.M.001	DATE: 2025-03-25
TENDER ADDENDUM: M-04	ISSUED BY: Ali Safi

The following amendments are hereby made as part of the Contract Documents. The following revisions and/or additions shall be made to contract documents and the cost shall be included in the Tender Price.

1.0 MECHANICAL RFI RESPONSES

1.1.1 Please provide a complete equipment schedule. The one provided in the specification document is incomplete.

.1 **Refer to Bid Addendum #3 for updated schedules.**

1.1.2 Some ventilation equipment (AHS-3, 4, 7), RAD zone CV and stats will remain as is. Is the expectation to bring all existing equipment on to new BAS?

.1 **Existing equipment is not to be tied into BAS.**

1.1.3 There is some contradiction in this paragraph. Please confirm if a new riser is required or not.

.1 **New BAS network riser is required.**

1.1.4 Please confirm the scope for the Snow Melt system on BAS.

.1 **Refer to Mechanical Specifications Section 23 09 23 Sequence of Operation for BAS.**

.2 **Monitor/Control points to tie into BAS: override on/off, supply, heat, snow, alert.**

.3 **Refer to Electrical Drawing E600 for snow melt system controller location.**

1.1.5 Please provide HP and details for Domestic Recirculation Pump “P-DHWE-B.1”.

.1 **Refer to Mechanical Specifications Section 22 11 23.29 Circulators.**

.2 **0.1 HP, 120V/1Ph/60Hz.**

END OF MECHANICAL TENDER ADDENDUM M-04

POINT LEGEND

XX — POINT TYPE
YY

POINT TYPE	DESCRIPITION
AI	ANALOG INPUT
AO	ANALOG OUTPUT
BI	BINARY INPUT
BO	BINARY OUTPUT
PI	PULSE INPUT

XX — POINT ABBREVIATION
YY

POINT ABBREVIATION	DESCRIPITION
AF	AIR FLOW
AFS	AIR FLOW STATION
BYPD	BYPASS DAMPER
CCV	COOLING COIL VALVE
CDAF	COLD DECK AIR FLOW
CDASP	COLD DECK AIR STATIC PRESSURE
CDAT	COLD DECK AIR TEMPERATURE
CDD	COLD DECK DAMPER
CHWDP	CHILLED WATER DIFFERENTIAL PRESSURE
CHXXAMP	CHILLER XX AMPS
CHXXCHWET	CHILLER XX CHILLED WATER ENTERING TEMPERATURE
CHXXCHWF	CHILLER XX CHILLED WATER FLOW
CHXXCHWLT	CHILLER XX WATER LEAVING TEMPERATURE
CHXXCHWSTSP	CHILLER XX CHILLED WATER SUPPLY TEMPERATURE SET POINT
CHXXCHWV	CHILLER XX CHILLED WATER VALVE
CHXXCMW	CHILLER XX CONDENSER WATER VALVE
CHXXCWCV	CHILLER XX CONDENSER WATER CONTROL VALVE
CHXXCWET	CHILLER XX CONDENSER WATER ENTERING TEMPERATURE
CHXXCWLT	CHILLER XX CONDENSER WATER LEAVING TEMPERATURE
CHXXCWV	CHILLER XX CONDENSER WATER VALVE
CHXXEN	CHILLER XX ENABLE
CHXXLHWISOV	CHILLER XX HEATING WATER ISOLATION VALVE
CHXXLHWRT	CHILLER XX LOW HEATING WATER RETURN TEMPERATURE
CHXXLHWST	CHILLER XX LOW HEATING WATER SUPPLY TEMPERATURE
COMP	COMPRESSOR
DCHWT	DECOUPLER CHILLED WATER TEMPERATURE
EAD	EXHAUST AIR DAMPER
EADES	EXHAUST AIR DAMPER END SWITCH
EAT	ENTERING AIR TEMPERATURE
EFSS	EXHAUST FAN START/STOP
EFST	EXHAUST FAN STATUS
F	FIRESTAT
FFPD	FINAL FILTER PRESSURE DIFFERENTIAL
FZ	FREEZESTAT
GAL	GENERAL ALARM
GLR	GLYCOL RETURN
GLS	GLYCOL SUPPLY
GLYPX	GLYCOL PUMP
HCV	HEATING COIL VALVE
HDAF	HOT DECK AIR FLOW
HDD	HOT DECK DAMPER
HDSAH	HOT DECK SUPPLY AIR HUMIDIFIER
HP	HIGH PRESSURE SWITCH

POINT ABBREVIATION	DESCRIPITION
HTWE	HEAT WHEEL ENABLE
HTWLAT	HEAT WHEEL LEAVING AIR TEMPERATURE
HTWVSD	HEAT WHEEL VARIABLE SPEED DRIVE
HUME	HUMIDIFIER ENABLE
HUMV	HUMIDIFIER VALVE
HWP	HOT WATER PUMP
HWR	HOT WATER RETURN
HWRT	HOT WATER RETURN TEMPERATURE
HWRV	HOT WATER RETURN VALVE
HWS	HOT WATER SUPPLY
HWST	HOT WATER SUPPLY TEMPERATURE
HWSTSP	HOT WATER SUPPLY TEMPERATURE SET-POINT
LAT	LEAVING AIR TEMPERATURE
LTHWDP	LOW TEMPERATURE HEATING WATER DIFFERENTIAL PRESSURE
LTHWPXXEN	LOW TEMPERATURE HEATING PUMP XX
LTHWPXXFB	LOW TEMPERATURE HEATING PUMP XX FEED BACK
LTHWPXXVFD	LOW TEMPERATURE HEATING PUMP XX VARIABLE FREQUENCY DRIVE
OAD	OUTSIDE AIR DAMPER
OADES	OUTSIDE AIR DAMPER END SWITCH
PCHWST	PRIMARY CHILLED WATER SUPPLY TEMPERATURE
PFPD	PRE-FILTER PRESSURE DIFFERENTIAL
PHCV	PRE-HEAT COIL VALVE
PP	PRIMARY PUMP
PPXXEN	PRIMARY PUMP XX ENABLE
PPXXFB	PRIMARY PUMP XX FEED BACK
PPXXVFD	PRIMARY PUMP XX VARIABLE FREQUENCY DRIVE
RADV	RADIANT VALVE
RAF	RETURN AIR FLOW
RAH	RETURN AIR HUMIDITY
RAT	RETURN AIR TEMPERATURE
RHV	REHEAT VALVE
RVLV	REVERSING VALVE
SAT	SUPPLY AIR TEMPERATURE
SAH	SUPPLY AIR HUMIDITY
SCHWF	SECONDARY CHILLED WATER FLOW
SCHWRT	SECONDARY CHILLED WATER RETURN TEMPERATURE
SCHWST	SECONDARY CHILLED WATER SUPPLY TEMPERATURE
SF	SERIES FAN
SFSS	SUPPLY FAN START/STOP
SFST	SUPPLY FAN STATUS
SP	SECONDARY PUMP
SPCT	SPACE TEMPERATURE
SPXXEN	SECONDARY PUMP XX ENABLE
SPXXFB	SECONDARY PUMP XX FEED BACK
SPXXVFD	SECONDARY PUMP XX VARIABLE FREQUENCY DRIVE
VAVD	VAV DAMPER
ZD	ZONE DAMPER

10 / TM-0.1 POINT LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP OR FROM ABOVE		ACOUSTICALLY LINED TRANSFER AIR DUCT
	SUPPLY DUCT DOWN OR FROM BELOW		SILENCER
	RETURN OR EXHAUST DUCT UP OR FROM ABOVE	CTS	CROSSTALK SILENCER
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
	ROUND DUCT UP OR FROM ABOVE	F/D	DUCT WITH SLEEVE, INSULATION, AND DAMPER
	ROUND DUCT DOWN OR FROM BELOW	CAP	CAPPED CONNECTION
	ACOUSTIC LINED DUCT		
	FLEXIBLE CONNECTION	RISE UP	RISE IN DUCT
	SQUARE ELBOW DUCT WITH TURNING VANES	SLOPE DN	DROP IN DUCT
	RADIUS ELBOW WITH TURNING VANES	SB	SOUND BAFFLE
	AXIAL FAN / INLINE FAN MIXED FLOW OR CENTRIFUGAL		PROPELLER FAN WITH PROTECTIVE SCREEN
DIFFUSER, GRILLE, OR REGISTER TYPE; P4; 150ø; 300; NECK OR FACE SIZE (mm); AIR FLOW (L/s); IMPERIAL: CFM, [INS.]; METRIC: L/s, [mm]		LINEAR SLOT DIFFUSER; S4; 150øx1200mm; 300; IMPERIAL: CFM, [INS.]; METRIC: L/s, [mm]; AIR FLOW (L/s); NECK SIZE AND LINEAR DIFFUSER LENGTH (mm)	
	ROUND SUPPLY DIFFUSER		SUPPLY AIR DIFFUSER C/W FLEXIBLE DUCT
	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE		LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT
	SQUARE OR RECTANGULAR DIFFUSER		LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT
	RETURN OR EXHAUST GRILLE		DUCT MOUNTED SUPPLY OR RETURN GRILLE
	ROUND RETURN OR EXHAUST GRILLE		LINEAR SUPPLY OR RETURN GRILLE
	SQUARE DIFFUSER		
	DIFFUSER WITH BLANK-OFF PORTION (QTY SHOWN)		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

8 / TM-0.1 ELECTRICAL AND CONTROLS SYMBOLS AND ABBREVIATIONS (012.11)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
W	POWER REQUIREMENT FOR ELECTRIC TRACING	PE	PNEUMATIC-ELECTRIC
	ELECTRIC PIPE TRACING FOR SINGLE LINE PIPES	C	CONTROLLER
	ELECTRIC PIPE TRACING FOR DOUBLE LINE PIPES	TS	TEMPERATURE SENSOR
MCC	MOTOR CONTROL CENTRE	HS	HUMIDITY SENSOR
DS	DISCONNECT SWITCH		AIR FLOW MONITORING STATION
	SWITCH (MANUAL STARTER)	SP	STATIC
HOA	HAND-OFF AUTO	VFD	VARIABLE FREQUENCY DRIVE
FZ	LOW TEMPERATURE THERMOSTAT	CO	CARBON MONOXIDE SENSOR
FS	HIGH TEMPERATURE THERMOSTAT	RS	REFRIGERANT SENSOR
T	ELECTRICL/OW VOLTAGE THERMOSTAT/SENSOR	CO2	CARBON DIOXIDE SENSOR
T	PNEUMATIC THERMOSTAT	NO2	NITROGEN DIOXIDE SENSOR
Fs	FLOW SWITCH	AFS	AIR FLOW STATION
S	SPEED SWITCH	PS	PRESSURE SENSOR
T	THERMOSTAT WITH LOCKABLE TAMPER GUARD	BTU	BTU METER

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

7 / TM-0.1 AIR HANDLING SYMBOLS AND ABBREVIATIONS (012.10)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY DUCT UP OR FROM ABOVE		ACOUSTICALLY LINED TRANSFER AIR DUCT
	SUPPLY DUCT DOWN OR FROM BELOW		SILENCER
	RETURN OR EXHAUST DUCT UP OR FROM ABOVE	CTS	CROSSTALK SILENCER
	RETURN OR EXHAUST DUCT DOWN OR FROM BELOW		DUCT WITH MINIMUM CLEARANCE FIRE RATED ENCLOSURE
	ROUND DUCT UP OR FROM ABOVE	F/D	DUCT WITH SLEEVE, INSULATION, AND DAMPER
	ROUND DUCT DOWN OR FROM BELOW	CAP	CAPPED CONNECTION
	ACOUSTIC LINED DUCT		
	FLEXIBLE CONNECTION	RISE UP	RISE IN DUCT
	SQUARE ELBOW DUCT WITH TURNING VANES	SLOPE DN	DROP IN DUCT
	RADIUS ELBOW WITH TURNING VANES	SB	SOUND BAFFLE
	AXIAL FAN / INLINE FAN MIXED FLOW OR CENTRIFUGAL		PROPELLER FAN WITH PROTECTIVE SCREEN
DIFFUSER, GRILLE, OR REGISTER TYPE; P4; 150ø; 300; NECK OR FACE SIZE (mm); AIR FLOW (L/s); IMPERIAL: CFM, [INS.]; METRIC: L/s, [mm]		LINEAR SLOT DIFFUSER; S4; 150øx1200mm; 300; IMPERIAL: CFM, [INS.]; METRIC: L/s, [mm]; AIR FLOW (L/s); NECK SIZE AND LINEAR DIFFUSER LENGTH (mm)	
	ROUND SUPPLY DIFFUSER		SUPPLY AIR DIFFUSER C/W FLEXIBLE DUCT
	DUCTED RETURN OR EXHAUST REGISTER OR GRILLE		LIGHT TROFFER DIFFUSER TOP INLET C/W FLEXIBLE DUCT
	SQUARE OR RECTANGULAR DIFFUSER		LIGHT TROFFER DIFFUSER SIDE INLET C/W FLEXIBLE DUCT
	RETURN OR EXHAUST GRILLE		DUCT MOUNTED SUPPLY OR RETURN GRILLE
	ROUND RETURN OR EXHAUST GRILLE		LINEAR SUPPLY OR RETURN GRILLE
	SQUARE DIFFUSER		
	DIFFUSER WITH BLANK-OFF PORTION (QTY SHOWN)		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

5 / TM-0.1 MECHANICAL PIPING SYMBOLS AND ABBREVIATIONS (012.08)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	ISOLATION VALVE (REFER TO SPECIFICATION FOR SPEIFIC TYPE AS REQUIRED)		PIPE GUIDE (REFER TO SPECIFICATIONS)
	GLOBE VALVE		PIPE SLEEVE
	BALL VALVE		ANCHOR
	LOCKSHIELD VALVE		STRAINER
FBV	FLOW BALANCING VALVE		UNION
PIFBV	PRESSURE INDEPENDENT FLOW BALANCING VALVE		FLANGE FITTING
	PLUG VALVE		ECCENTRIC FITTING
PRV	NATURAL PRESSURE REDUCING VALVE ASSEMBLY		CONCENTRIC FITTING
	CHECK VALVE		PRESSURE GAUGE
	SOLENOID VALVE	T	THERMOMETER
SRV	SAFETY RELIEF VALVE		PRESSURE GAUGE COCK ASSEMBLY
FMS	FLOW METERING STATION	TW	THERMOMETER WELL
BP	BACKFLOW PREVENTOR	EJ	EXPANSION JOINT
	ANGLE VALVE	MV	MANUAL AIR VENT
	BUTTERFLY VALVE	AV	AUTOMATIC AIR VENT
	2-WAY BUTTERFLY VALVE	AS	AIR SEPARATOR
	TEMPERED MIXING VALVE	SG	SIGHT GLASS
			PUMP
	FLEXIBLE JOINT		DOMESTIC WATER PRV STATION
VB	VACUUM BREAKER		
	BACK WATER VALVE	WHA	WATER HAMMER ARRESTOR

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

4 / TM-0.1 VALVE AND COMPONENT SYMBOLS AND ABBREVIATIONS (012.06)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
HWS	HEATING WATER SUPPLY	FOS	FUEL OIL SUPPLY
HWR	HEATING WATER RETURN	FOR	FUEL OIL RETURN
CHS	CHILLED WATER SUPPLY	EFOV	EMERGENCY FUEL OIL VENT
CHR	CHILLED WATER RETURN	FOV	FUEL OIL VENT
GLS	GLYCOL SUPPLY	FOF	FUEL OIL FILL
GLR	GLYCOL RETURN	PC	PUMPED STEAM CONDESATE
GLHS	GLYCOL HEATING SUPPLY	RS	REFRIGERATION SUCTION
GLHR	GLYCOL HEATING RETURN	RL	REFRIGERATION LIQUID
GLCS	GLYCOL COOLING SUPPLY	RHG	REFRIGERATION HOT GAS
GLCR	GLYCOL COOLING RETURN	DTS	DUAL TEMPERATURE SUPPLY
CDS	CONDENSER WATER SUPPLY	DTR	DUAL TEMPERATURE RETURN
CDR	CONDENSER WATER RETURN		BUCKET TYPE STEAM TRAP
LPS	LOW PRESSURE STEAM		FLOAT AND THERMOSTAT TYPE STEAM TRAP
MPS	MEDIUM PRESSURE STEAM	SVB	STEAM VACUUM BREAKER
HPS	HIGH PRESSURE STEAM	TEV	REFRIGERATION THERMAL EXPANSION VALVE
LPC	LOW PRESSURE CONDENSATE	SLV	REFRIGERATION SOLENOID LIQUID VALVE
MPC	MEDIUM PRESSURE CONDENSATE	RFD	REFRIGERATION FILTER DRYER
HPC	HIGH PRESSURE CONDENSATE		6 WAY CONTROL VALVE ELECTRIC
PICV	PRESSURE INDEPENDENT CONTROL VALVE		6 WAY CONTROL VALVE
CV	2 WAY CONTROL VALVE		
CV	3 WAY CONTROL VALVE	CV	CONTROL VALVE (WHERE SYMBOL NOT SHOWN)

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

1 / TM-0.1 GENERAL SYMBOLS AND ABBREVIATIONS (012.13)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
6 / M-01	DETAIL NUMBER / DRAWING NUMBER	12 / M-01	SECTION NUMBER / DRAWING NUMBER
4	REVISION NUMBER		REVISION BUBBLE
OR	ELBOWS		PIPING SERVICE CONTINUES
	TEE		REFER TO STANDARD DETAIL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF EQUIPMENT NOTED
	BRANCH OFF BOTTOM OF MAIN		VENT PIPE REDUCER
	BRANCH OFF TOP OF MAIN	CFM	AIR QUANTITY CFM (L/s)
	DIRECTION OF FLOW		

NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN LIGHT TO REMAIN.

	EXISTING DUCT, FLEX DUCT, AND AIR SUPPLY TO REMAIN	EX	EXISTING CONCEALED SPRINKLER HEAD & PIPING TO REMAIN
		EX	EXISTING PENDANT SPRINKLER HEAD & PIPING TO REMAIN
T T S	EXISTING ELECTRIC/PHEUMATIC THERMOSTAT/TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO REMAIN	EX	EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO REMAIN
EX	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO REMAIN		

NOTE: EXISTING EQUIPMENT, PIPING, VALVES, DUCTWORK SHOWN HATCHED TO BE REMOVED AND/OR RELOCATED.

	EXISTING DUCT, FLEX DUCT, AND AIR SUPPLY TO BE REMOVED	EX	EXISTING CONCEALED SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED
		EX	EXISTING PENDANT SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED
T T S	EXISTING ELECTRIC/PHEUMATIC THERMOSTAT / TEMPERATURE SENSOR AND SPEED CONTROL SWITCH TO BE REMOVED/RELOCATED	EX	EXISTING SIDEWALL OR WINDOW SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED
EX	EXISTING UPRIGHT SPRINKLER HEAD & PIPING TO BE REMOVED/RELOCATED		

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

2 / TM-0.1 GENERAL SYMBOLS AND ABBREVIATIONS (012.14)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FD	FLOOR DRAIN, SIZE AS NOTED. REFER TO SPECIFICATION FOR TYPES		DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)
FFD	FUNNEL FLOOR DRAIN, SIZE AS NOTED. REFER TO SPECIFICATION FOR TYPES		DOMESTIC HOT WATER (DOM. HOT WATER) (DHW)
CO	UPTURNED CLEANOUT		DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) (DHWR)
CO	HORIZONTAL CLEANOUT	T	TEMPERED WATER
	FLOOR DRAIN FROM ABOVE WITH TRAP	G	NATURAL GAS
FFD	FUNNEL FLOOR DRAIN FROM ABOVE WITH TRAP	GV	NATURAL GAS VENT
W- W-	WATER CLOSET AS NOTED, REFER TO SPECIFICATION FOR TYPES	V	VENT
U- U-	URINAL	SAN	SANITARY ABOVE GRADE OR FLOOR
CS-	SINGLE COMPARTMENT KITCHEN SINK	SAN(B)	SANITARY BELOW GRADE OR FLOOR
CS- CS-	DOUBLE COMPARTMENT SINK		GATE OR ISOLATION VALVE (REFER TO SPECIFICATION)
L- L-	WALL HUNG LAVATORY		GLOBE VALVE
MS- MS-	MOP SINK		BALL VALVE
DF- DF-	DRINKING FOUNTAIN		PENDANT SPRINKLER HEAD
SP	WET SPRINKLER LINE	DP	DRY PENDANT SPRINKLER HEAD
DSP	DRY SPRINKLER LINE		UPRIGHT SPRINKLER HEAD
FHC-x	FIRE HOSE CABINET AND TYPE		CONCEALED SPRINKLER HEAD
SVC-x	SPRINKLER SHUT-OFF VALVE CABINET AND TYPE	NF	NON-FREEZE SPRINKLER HEAD
FE-x	FIRE EXTINGUISHER AND TYPE	HT	HIGH TEMPERATURE SPRINKLER HEAD
FEC-x	FIRE EXTINGUISHER CABINER AND TYPE	*	CHEMICAL SPRINKLER HEAD
FR	FIRE REEL AND TYPE		SIDEWALL SPRINKLER HEAD
WM	WATER METER	W	WINDOW SPRINKLER HEAD
BFP	BACK FLOW PREVENTOR	NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS	

12 / TM-0.1 NOT USED

11 / TM-0.1 NOT USED

9 / TM-0.1 NOT USED

6 / TM-0.1 AIR HANDLING SYMBOLS AND ABBREVIATIONS (012.09)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
F/D	FIRE DAMPER	SMD	SMOKE DAMPER
MOD	MOTOR OPERATED DAMPER	PSD	POSITIVE SEAL DAMPER
MD	MANUAL DAMPER	BDD	GRAVITY OR BACKDRAFT DAMPER
BD	BALANCING DAMPER		VOLUME EXTRACTOR
CSF/D	COMBINATION SMOKE AND FIRE DAMPER	RBD	REMOTE OPERATED BALANCING DAMPER

VAV, FPVAV AND AFS TAG

VAV BOX TYPE — A — 0 / 1200 — MIN. FLOW (L/s) / MAX. FLOW (L/s)

VAV BOX TYPE — A — 0/0 / 1200/600 — MIN. FLOW (L/s) COOLING/HEATING; MAX. FLOW (L/s) COOLING/HEATING; RHC; REHEAT COIL CAPACITY (KW)

FAN POWERED VAV BOX TYPE — FE — 120/1000 / 1100 — MIN. PRIMARY FLOW; MAX. PRIMARY FLOW (L/s); SECONDARY FLOW (L/s); RHC; REHEAT COIL CAPACITY (KW)

IMPERIAL: CFM, [INS.]
METRIC: L/s, [mm]

	VAV BOX (VARIABLE AIR VOLUME)		FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR
	VAV BOX WITH ATTENUATOR		FAN POWERED BOX C/W RETURN AIR SILENCER OR ACOUSTICALLY LINED RETURN AIR WITH REHEAT COIL
	VAV BOX WITH REHEAT COIL		INDUCTION VAV BOX
	VAV BOX WITH REHEAT COIL AND ATTENUATOR		PRESSURE INDEPENDENT AIR VALVE (LAB)
			TERMINAL UNIT (SEE NOTE 2)

HEATING ELEMENT TAG

ENCLOSURE TYPE — A — 1200W / 1944 — HEATING CAPACITY; ACTIVE ELEMENT LENGTH

UH-x	HORIZONTAL UNIT HEATER		DUCT COIL
UH-x	DOWN BLAST UNIT HEATER	R-X	RADIATION HEATING RISER NUMBERS (S=SUPPLY AND R=RETURN)
	RADIANT HEATING PANEL		WALL FIN ELEMENT IN CONTINUOUS ENCLOSURE

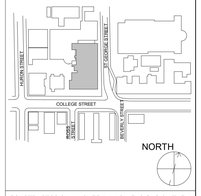
NOTE: 1 - NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS
NOTE: 2 - SYMBOLS ARE DIAGRAMMATIC IN NATURE. REFER TO SPECIFICATION/SCHEDULES FOR EXACT DIMENSIONS/CLEARANCES

3 / TM-0.1 PLUMBING SYMBOLS AND ABBREVIATIONS (012.04)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
WC-	WATER CLOSET	BT	BATHTUB
U-	URINAL	SH-	SHOWER
L-	COUNTERTOP LAVATORY	BF- DF-	BOTTLE FILLER DRINKING FOUNTAIN
L-	WALL HUNG LAVATORY	EW	EMERGENCY EYEWASH
S-	SINGLE COMPARTMENT SINK	EW/SH	EMERGENCY EYEWASH / SHOWER
JS-	JANITOR SINK	ESH	EMERGENCY SHOWER
S-	DOUBLE COMPARTMENT SINK	FT	FLUSH TANK
NP	NON-POTABLE (IF SUFFIX IS APPENDED TO A DOMESTIC WATER SYSTEM, I.E. DCW-NP)	H	HIGH TEMPERATURE (IF PREFIX IS APPENDED TO A DOMESTIC HOT WATER/SYSTEM, I.E. HDWH)
	DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)	RRW	RECLAIM RAINWATER
(B)	BURIED DOMESTIC COLD WATER (DOM. COLD WATER) (DCW)	G	NATURAL GAS
	DOMESTIC HOT WATER (DOM. HOT WATER) (DHW)	GV	NATURAL GAS VENT
	DOMESTIC HOT WATER RECIRCULATION (DOM. HOT WATER RECIRC.) (DHWR)	HB	HOSE BIBB
T	TEMPERED WATER	WH (NFWH)	WALL HYDRANT (OR NON FREEZE WALL HYDRANT)
WM	WATER METER	GH (NFGH)	GROUND HYDRANT (OR NON FREEZE GROUND HYDRANT)
	TEMPERED MIXING VALVE ASSEMBLY	NFPH	NON FREEZE POST HYDRANT
	TEMPERED MIXING VALVE CABINET	H/C HB	HOT AND COLD HOSE BIBB

NOTE: NOT ALL SYMBOLS APPLY, REFER TO FLOOR PLANS AND DRAWINGS

KEY PLAN :



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REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50% REVIEW
2	2024-11-14	ISSUED FOR PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2025-01-24	ISSUED FOR PEER REVIEW
5	2025-01-31	ISSUED FOR BID
6	2025-03-24	Bid Addendum #04

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1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
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Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com

SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
MECHANICAL LEGENDS

PROJECT NUMBER :
21590.003

DRAWING SCALE :
N.T.S.

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO : **TM-0.1** REV : **6**

UNIT DATA

DATA	IMPERIAL		METRIC	
Max. Exhaust Air	1907	CFM	958	l/s
Max. External S.P.	1.0"	W.G.	0.25	kpa
Design Exhaust Air	960	CFM	453	l/s
Total Internal S.P.	1.0"	W.G.	0.25	kpa
Motor	10	hp		
Power	6.3	bhp		
Full Load AMPS	5.2			
Voltage	208/3/60			
Weight (lbs)	1194			
Blower Model	EBM 355 (PN 12859)			
Mounting	INTERIOR/FLOOR			

HEAT LOAD DATA

Heat Gain to Space	NEGLIGIBLE
Required Additional Cooling (Tons)	NEGLIGIBLE
Minimum Outdoor Air (CFM)	190

FILTERS

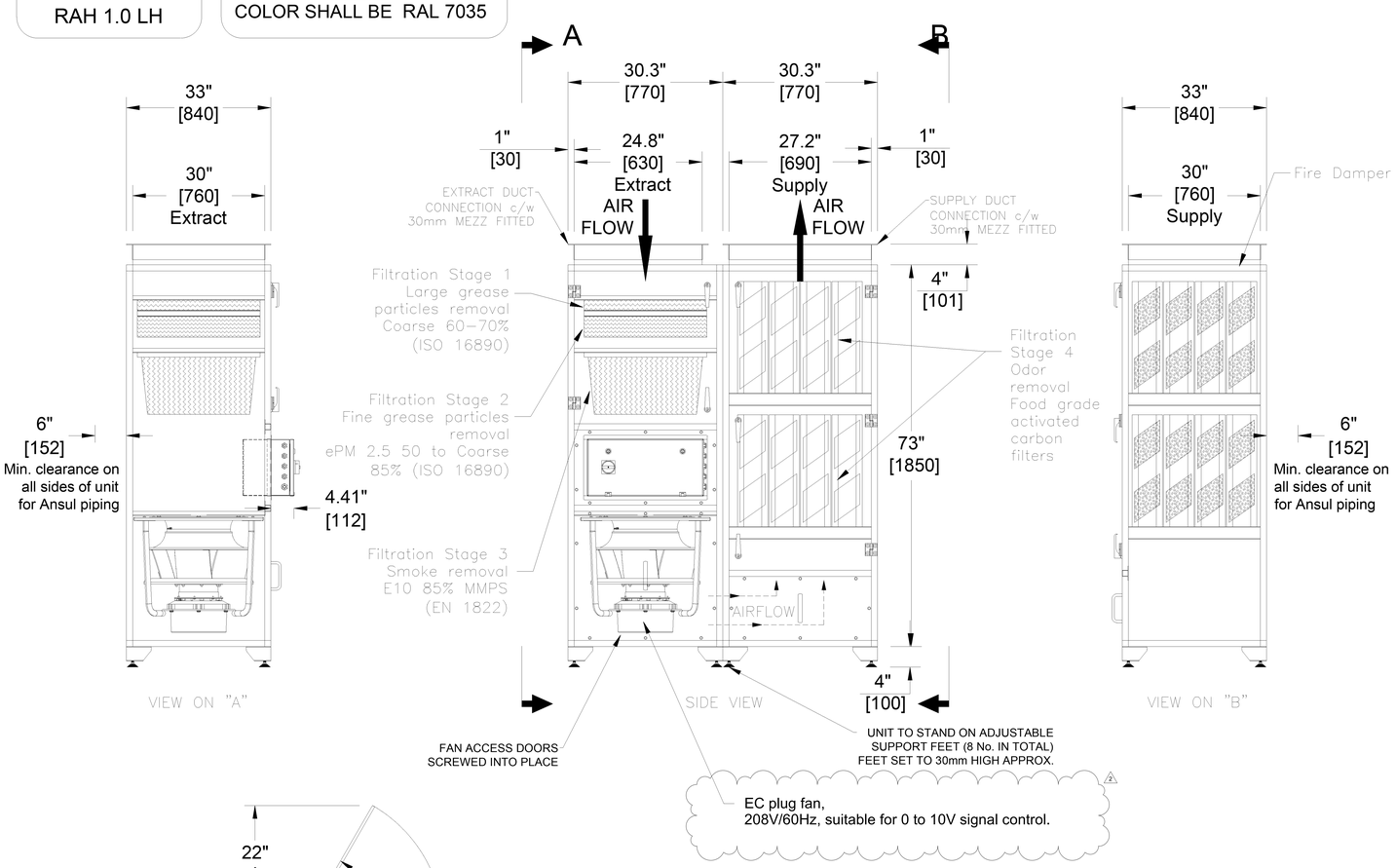
STAGE 1	QTY: 4	24" X 24" X 2"
STAGE 2	QTY: 4	24" X 24" X 4"
STAGE 3	QTY: 4	24" X 24" X 12"
STAGE 4	QTY: 32	CARBON CYLINDERS

SHOP NOTE:

C/W EXTRA SET OF FILTERS IN STAGE 1,2,3

MODEL #
RAH 1.0 LH

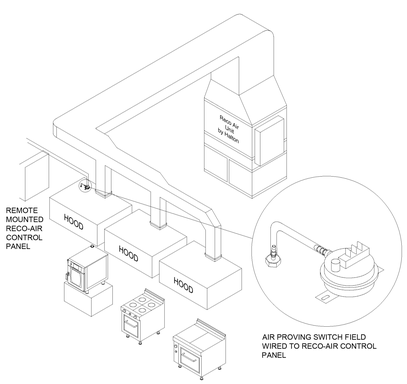
NOTE:
COLOR SHALL BE RAL 7035

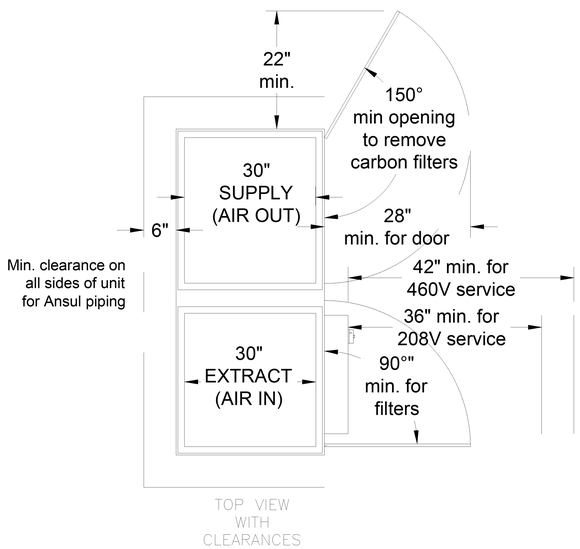


EC plug fan,
208V/60Hz, suitable for 0 to 10V signal control.

AIR PROVING SWITCH LOCATION CONSIDERATIONS:

- SENSOR MUST BE INSTALLED IN LOCATION THAT WILL BE ACCESSIBLE FOR FUTURE MAINTENANCE.
- SENSOR MUST BE INSTALLED IN ONE HOOD OF A HOOD GROUP SERVED BY RECO-AIR UNIT
- SENSOR IS FIELD WIRED





TOP VIEW WITH CLEARANCES

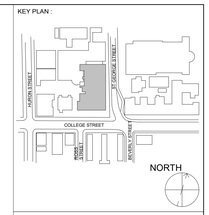
-RECO AIR UNITS ARE VENTLESS/RECIRCULATING SYSTEMS. ALL APPLICABLE LOCAL BUILDING AND FIRE CODES MUST BE CONSIDERED FOR INSTALLATION

-RECO AIR UNITS ARE APPROVED CITY WIDE BY THE FIRE DEPARTMENT OF NEW YORK CITY CERTIFICATE OF APPROVAL #5905

A. VENTLESS HOODS SHALL NOT BE INSTALLED IN THE BASEMENT OR CELLAR OF ANY BUILDING.
B. VENTLESS HOODS SHALL NOT BE INSTALLED IN ANY NON-FIREPROOF BUILDINGS.
C. VENTLESS HOODS SHALL NOT BE INSTALLED IN ANY UNSPRINKLERED BUILDINGS.
D. VENTLESS HOODS SHALL NOT BE INSTALLED IN ANY OPEN SPACES SUCH AS SHOPPING MALLS.

NOTE: For locations that do not meet of the above criteria, a request for special consideration may be submitted for a site specific approval of the use of light duty cooking /food warming operation within the City of New York.

KEY PLAN :



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REVISION

NO.	DATE	DESCRIPTION
1	2025-01-31	ISSUED FOR BID
2	2025-03-24	Bid Addendum #04

THIS DRAWING MUST BE CHECKED, SIGNED AND RETURNED TO THE APPROPRIATE FACTORY. PLEASE VERIFY THE FOLLOWING:

1. ALL DIMENSIONAL INFORMATION, MOUNTING POSITIONS AND CLEARANCES
2. THE LOCATION AND TYPE OF COOKING EQUIPMENT.

NOTE TO APPROVER:
ANY CHANGES TO COOKING EQUIPMENT SUCH AS INCREASED ENERGY INPUTS OR EQUIPMENT POSITION MAY AFFECT EXHAUST AIRFLOW. HALTON MUST BE NOTIFIED IF ANY OF THESE CHANGES OCCUR, A RECALCULATION EXHAUST AIRFLOW MAY BE REQUIRED.

☐ REVISE AND RESUBMIT
APPROVED FOR FABRICATION
☐ WITH NO CHANGES ☐ WITH CHANGES AS NOTED

APPROVED BY | DATE

MAIL APPROVED DRAWINGS TO APPROPRIATE FACTORY BELOW:

HALTON CO. (CANADA)
1021 BREVIK PLACE
MISSISSAUGA, ON L4W 3R7
1-905-624-0301

☒ HALTON CO. (USA)
101 INDUSTRIAL DRIVE
SCOTTSVILLE, KY 42164
1-270-237-5600

WEBSITE : www.halton.com

REV.	REVISION DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			

PROJECT: KOFFLER HEALTH & WELNESS RENO
LOCATION: TORONTO,ON
DRAWN BY: OL DATE: 1/27/25
SCALE: N.T.S.
CONSULTANT:

Halton

DRAWING TITLE: Reco-Air RAH 1.0
DRAWING No.: C25-016
REV. NO.: 0 SHEET NO.: 3 of 5

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1100 - 100 Sheppard Ave East, Toronto ON, M2N 6N5
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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

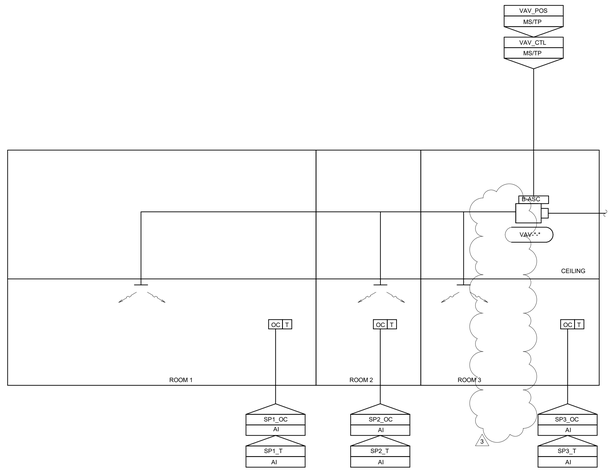
214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS
KITCHEN ECOLOGY UNIT DETAILS

PROJECT NUMBER : **21590.003**
DRAWING SCALE : **N.T.S.**

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO : **TM-0.5** REV : **2**



VAV BOX (MULTIPLE ZONES) SYSTEM - SEQUENCE OF OPERATIONS

GENERAL
LOCATION: KOFFLER (143),
SYSTEM SERVING:
AHS-3
AHU-7

DESCRIPTION:
1. SYSTEM SHALL CONTROL AND MONITOR THE VAV BOX AND ASSOCIATED TEMPERATURE SENSORS TO MAINTAIN SPACE TEMPERATURE.

SENSOR FUNCTION
SPACE TEMPERATURE SENSOR (BY CONTROLS CONTRACTOR)
THIS INPUT SHALL BE USED TO MODULATE THE ASSOCIATED VAV BOX TO CONTROL THE SPACE TEMPERATURE.

OCCUPANCY SENSOR (BY CONTROL CONTRACTOR)
THIS INPUT SHALL BE USED TO ADD OR REMOVE TEMPERATURE SENSORS FROM THE SPACE TEMPERATURE AVERAGING FUNCTION.

SCHEDULE
OCCUPIED SCHEDULE:
SAME SCHEDULE AS ASSOCIATED AIR HANDLING UNIT.

SYSTEM START/STOP
SYSTEM ENABLED (INITIAL START- UP):
SYSTEM IS ENABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. VAV BOXES SHALL MODULATE TO THEIR PRESET POSITION.

SYSTEM DISABLED:
SYSTEM IS DISABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. VAV BOXES SHALL MODULATE CLOSED.

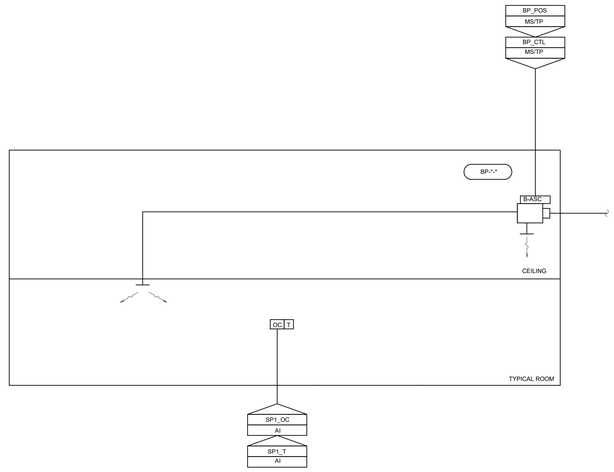
MODE OF OPERATION
SPACE TEMPERATURE SHALL BE AVERAGED FROM ALL CONNECTED SPACE TEMPERATURE SENSORS OF OCCUPIED ROOMS ONLY. VAV BOX SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 23°C (OPERATOR ADJUSTABLE) BASED ON OCCUPIED AVERAGE SPACE TEMPERATURE.
INTEGRATION WITH OTHER SYSTEMS:
1. CONNECT TO EMRS.
2. CONNECT TO B-BC OF ASSOCIATED AIR HANDLING UNIT

TRENDING:
1. SPACE TEMPERATURE FOR EACH SENSOR.

GRAPHICS TO DISPLAY THE MINIMUM AND MAXIMUM SETPOINTS FOR EACH VAV BOX.

ALARM DESCRIPTION	ACTION	ALARM
SPACE TEMPERATURE OUT OF RANGE +/- 2C DURING OCCUPIED MODE	CONTINUE TO RUN	LOW
BAS TO ALARM IN UNOCCUPIED MODE IF SPACE TEMPERATYRE DROPS BELOW 18 DEG (ADJUSTABLE)	CONTINUE TO RUN	LOW
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		

3 TM-0.8 MULTI-ZONE BOXES CONTROL DIAGRAM AND SEQUENCE



BYPASS BOX (MULTIPLE ZONES) SYSTEM - SEQUENCE OF OPERATIONS

GENERAL
LOCATION: KOFFLER (143),
SYSTEM SERVING:
AHS-4

DESCRIPTION:
1. SYSTEM SHALL CONTROL AND MONITOR THE BYPASS BOX AND ASSOCIATED TEMPERATURE SENSORS TO MAINTAIN SPACE TEMPERATURE.

SENSOR FUNCTION
SPACE TEMPERATURE SENSOR (BY CONTROLS CONTRACTOR)
THIS INPUT SHALL BE USED TO MODULATE THE ASSOCIATED BYPASS BOX TO CONTROL THE SPACE TEMPERATURE.

OCCUPANCY SENSOR (BY CONTROL CONTRACTOR)
THIS INPUT SHALL BE USED TO ADD OR REMOVE TEMPERATURE SENSORS FROM THE SPACE TEMPERATURE AVERAGING FUNCTION.

SCHEDULE
OCCUPIED/UNOCCUPIED:
THE OCCUPIED AND UNOCCUPIED MODES ARE DETERMINED BY A TIME OF DAY SCHEDULE. THE UNIT OPERATES UNDER NORMAL CONDITIONS DURING OCCUPIED SCHEDULE.
THE SYSTEM SHUTS DOWN DURING UNOCCUPIED SCHEDULE.
OCCUPIED SCHEDULE:
SAME SCHEDULE AS ASSOCIATED AIR HANDLING UNIT.

SYSTEM START/STOP
SYSTEM ENABLED (INITIAL START- UP):
SYSTEM IS ENABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. BYPASS BOXES SHALL MODULATE TO THEIR PRESET POSITION.

SYSTEM DISABLED:
SYSTEM IS DISABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. BYPASS BOXES SHALL MODULATE CLOSED.

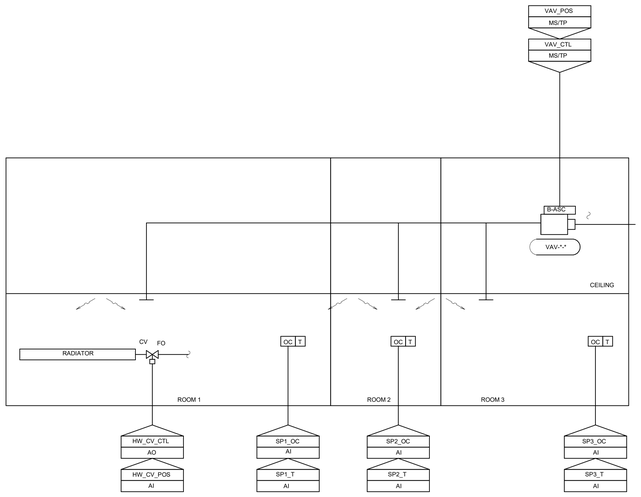
MODE OF OPERATION
SPACE TEMPERATURE SHALL BE AVERAGED FROM ALL CONNECTED SPACE TEMPERATURE SENSORS OF OCCUPIED ROOMS ONLY. BYPASS BOX SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 23°C (OPERATOR ADJUSTABLE) BASED ON OCCUPIED AVERAGE SPACE TEMPERATURE.

INTEGRATION WITH OTHER SYSTEMS:
1. CONNECT TO EMRS.
2. CONNECT TO B-BC OF ASSOCIATED AIR HANDLING UNIT

TRENDING:
1. SPACE TEMPERATURE FOR EACH SENSOR.

ALARM DESCRIPTION	ACTION	ALARM
SPACE TEMPERATURE OUT OF RANGE +/- 2C DURING OCCUPIED MODE	CONTINUE TO RUN	LOW
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		

1 TM-0.8 BY PASS BOX CONTROL DIAGRAM AND SEQUENCE



VAV BOX (MULTIPLE ZONES) SYSTEM - SEQUENCE OF OPERATIONS

GENERAL
LOCATION: KOFFLER (143),
SYSTEM SERVING:
AHS-3
AHU-7

DESCRIPTION:
1. SYSTEM SHALL CONTROL AND MONITOR THE VAV BOX AND ASSOCIATED TEMPERATURE SENSORS TO MAINTAIN SPACE TEMPERATURE.

SENSOR FUNCTION
SPACE TEMPERATURE SENSOR (BY CONTROLS CONTRACTOR)
THIS INPUT SHALL BE USED TO MODULATE THE ASSOCIATED VAV BOX TO CONTROL THE SPACE TEMPERATURE.

OCCUPANCY SENSOR (BY CONTROL CONTRACTOR)
THIS INPUT SHALL BE USED TO ADD OR REMOVE TEMPERATURE SENSORS FROM THE SPACE TEMPERATURE AVERAGING FUNCTION.

SCHEDULE
OCCUPIED SCHEDULE:
SAME SCHEDULE AS ASSOCIATED AIR HANDLING UNIT.

SYSTEM START/STOP
SYSTEM ENABLED (INITIAL START- UP):
SYSTEM IS ENABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. VAV BOXES SHALL MODULATE TO THEIR PRESET POSITION.

SYSTEM DISABLED:
SYSTEM IS DISABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. VAV BOXES SHALL MODULATE CLOSED.

MODE OF OPERATION
SPACE TEMPERATURE SHALL BE AVERAGED FROM ALL CONNECTED SPACE TEMPERATURE SENSORS OF OCCUPIED ROOMS ONLY. VAV BOX SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 23°C (OPERATOR ADJUSTABLE) BASED ON OCCUPIED AVERAGE SPACE TEMPERATURE.
IF HEATING REQUIRED, VAV BOX SHALL MODULATE TO MINIMUM POSITION AND HEATING WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 23°C (OPERATOR ADJUSTABLE).

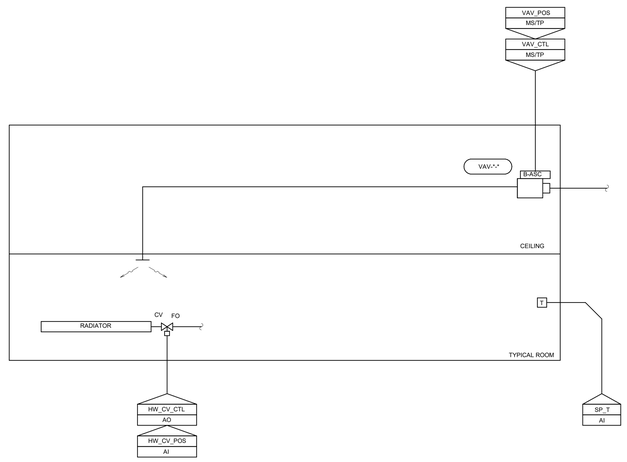
INTEGRATION WITH OTHER SYSTEMS:
1. CONNECT TO EMRS.
2. CONNECT TO B-BC OF ASSOCIATED AIR HANDLING UNIT

TRENDING:
1. SPACE TEMPERATURE FOR EACH SENSOR.

GRAPHICS TO DISPLAY THE MINIMUM AND MAXIMUM SETPOINTS FOR EACH VAV BOX.

ALARM DESCRIPTION	ACTION	ALARM
SPACE TEMPERATURE OUT OF RANGE +/- 2C DURING OCCUPIED MODE	CONTINUE TO RUN	LOW
BAS TO ALARM IN UNOCCUPIED MODE IF SPACE TEMPERATYRE DROPS BELOW 18 DEG (ADJUSTABLE)	CONTINUE TO RUN	LOW
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		

4 TM-0.8 MULTI-ZONE BOXES WITH RADIATORS CONTROL DIAGRAM AND SEQUENCE



VAV BOX WITH PERIMETER HEATING SYSTEM - SEQUENCE OF OPERATIONS

GENERAL
LOCATION: KOFFLER (143),
SYSTEM SERVING:
TYPICAL VAV BOX WITH RADIATORS

DESCRIPTION:
1. SYSTEM SHALL CONTROL AND MONITOR THE VAV BOX AND RADIATOR CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE.

SENSOR FUNCTION
SPACE TEMPERATURE SENSOR (BY CONTROLS CONTRACTOR)
THIS INPUT SHALL BE USED TO MODULATE THE ASSOCIATED VAV BOX TO CONTROL THE SPACE TEMPERATURE.

SCHEDULE
OCCUPIED SCHEDULE:
SAME SCHEDULE AS ASSOCIATED AIR HANDLING UNIT.

SYSTEM START/STOP
SYSTEM ENABLED (INITIAL START- UP):
SYSTEM IS ENABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. NONE.

SYSTEM DISABLED:
SYSTEM IS DISABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. NONE.

MODE OF OPERATION
IF COOLING REQUIRED, VAV BOX SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT.

IF HEATING REQUIRED, VAV BOX SHALL MODULATE TO MINIMUM POSITION AND HEATING WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE SETPOINT OF 23°C (OPERATOR ADJUSTABLE).

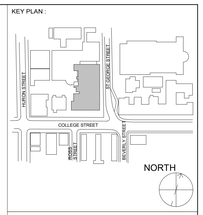
INTEGRATION WITH OTHER SYSTEMS:
1. CONNECT TO EMRS.
2. CONNECT TO B-BC OF ASSOCIATED AIR HANDLING UNIT

TRENDING:
1. SPACE TEMPERATURE

ALARM DESCRIPTION	ACTION	ALARM
SPACE TEMPERATURE OUT OF RANGE +/- 2C DURING OCCUPIED MODE	CONTINUE TO RUN	LOW
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		

2 TM-0.8 VAV BOXES WITH RADIATORS CONTROL DIAGRAM AND SEQUENCE

KEY PLAN :



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REVISION

NO.	DATE	DESCRIPTION
1	2025-01-31	ISSUED FOR BID
2	2025-03-07	Bid Addendum #01
3	2025-03-24	Bid Addendum #04

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t: 647-848-7523
www.enformarchitects.com

SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

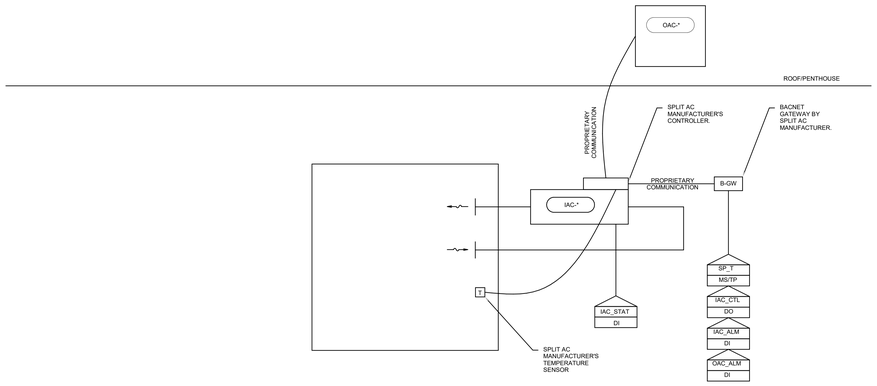
SHEET CONTENTS :
CONTROLS DIAGRAM AND SEQUENCES

PROJECT NUMBER :
21590.003

DRAWING SCALE :
N.T.S.

DRAWN BY :	CHECKED BY :	DATE:
AŠ	RC/DC	2024-02-08

SHEET NO : **TM-0.8** REV : **3**



SPLIT AC SYSTEMS (TYPICAL) - SEQUENCE OF OPERATIONS

GENERAL:
LOCATION: KOFFLER (143), STORAGE ROOM 205A, ELECTRICAL ROOM 380A, ELECTRICAL ROOM 343

DESCRIPTION:
SYSTEM SHALL PROVIDE COOLING AND MONITORING OF SPACE TEMPERATURE FOR ASSOCIATED ROOMS.

SENSOR FUNCTION
CURRENT SENSOR (BY CONTROLS CONTRACTOR):
THIS INPUT SHALL BE USED TO SENSE STATUS OF INDOOR AC UNIT.

SCHEDULE
ALWAYS ON.

SYSTEM START/STOP
SYSTEM ENABLED (INITIAL START- UP):
SYSTEM IS ENABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. SPLIT AC UNIT SHALL BE ENABLED.
2. INDOOR UNIT SHALL HAVE FAN RUN CONTINUOUSLY.
SYSTEM DISABLED:
SYSTEM IS DISABLED THROUGH THE BAS BASED ON OPERATOR DEFINED SCHEDULE OR BY OPERATOR COMMAND.
1. SPLIT AC UNIT SHALL BE DISABLED.

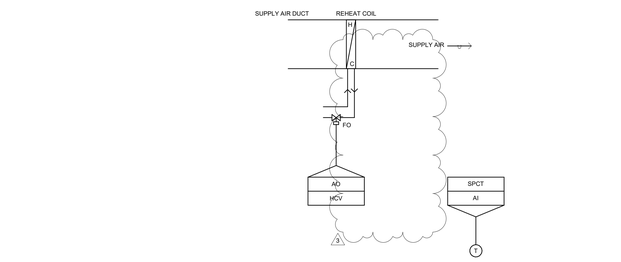
MODE OF OPERATION
SPLIT AC UNIT SHALL MODULATE COMPRESSORS TO MAINTAIN LOCAL SPACE TEMPERATURE SETPOINT.

INTEGRATION WITH OTHER SYSTEMS:
1. CONNECT TO EMRS.

TRENDING:
1. SPACE TEMPERATURE

ALARM DESCRIPTION	ACTION	ALARM
SPACE TEMPERATURE OUT OF RANGE ±2°C	CONTINUE TO RUN	LOW
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		

2 / TM-0.9 SPLIT AC CONTROLS DIAGRAM



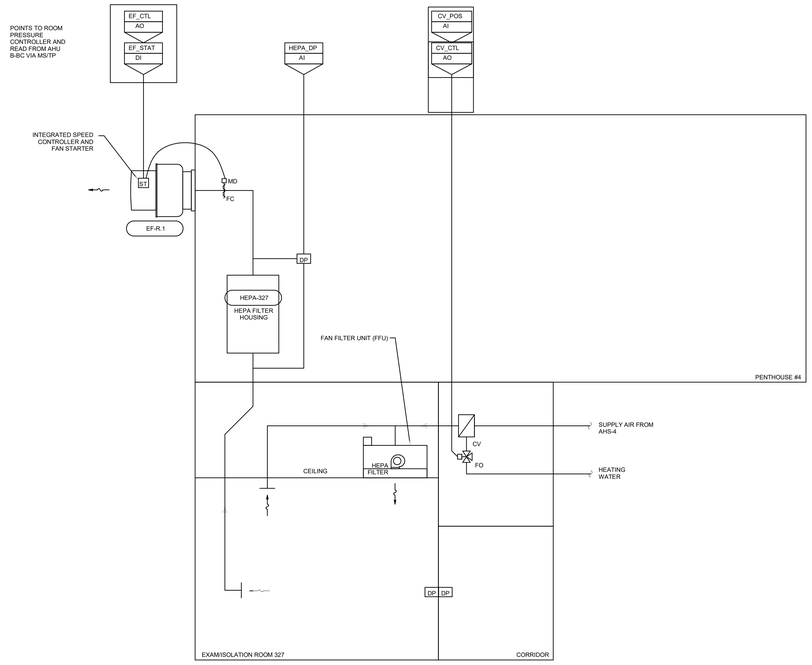
SYSTEM START/STOP
SYSTEM SHALL BE ENABLED ONLY IN WINTER MODE.
1. SYSTEM START SHALL BE INITIATED BY SPACE TEMPERATURE DEMAND. UPON SIGNAL TO START THE SYSTEM, SUPPLY FAN SHALL START. HEATING COIL VALVE SHALL BE ENABLED.

NORMAL OPERATION WINTER MODE:
1. HEATING COIL VALVE (HCV) SHALL MODULATE TO MAINTAIN SPACE TEMPERATURE (SPCT) AT SET-POINT.

SYSTEM STOP:
1. SYSTEM STOP IS INITIATED WHEN SPACE TEMPERATURE IS SATISFIED. UPON SIGNAL TO STOP THE SYSTEM THE SUPPLY FAN SHALL STOP. HEATING COIL VALVE SHALL BE CLOSED.
2. SYSTEM SHALL BE DISABLED IN SUMMER MODE.

ALARMS:
1. SPACE TEMPERATURE (SPCT) OUT OF RANGE.

3 / TM-0.9 REHEAT COIL CONTROLS DIAGRAM



ISOLATION ROOM - SEQUENCE OF OPERATIONS

GENERAL
LOCATION: KOFFLER STUDENT CENTER (143), PENTHOUSE #4
SYSTEM SERVING:
ISOLATION ROOM 370

DESCRIPTION:
1. COMSTANT VOLUME SUPPLY AND EXHAUST FANS SHALL CONTINUE TO MAINTAIN A NEGATIVE PRESSURE DIFFERENTIAL AS SET BY AR BALANCERS.

2. THE BAS SHALL MONITOR AND DISPLAY THE DIFFERENTIAL PRESSURE IN THE SPACE AND SHALL ALARM IN ANY CASE WHERE PRESSURE IN SPACE BECOMES POSITIVE IN RELATION TO ADJACENT CORRIDOR.

MODE OF OPERATION
IF ROOM PRESSURE DIFFERENTIAL CONTROLLER IS OPERATING IN "SETBACK" MODE:

FAN FILTER UNIT SHALL BE DISABLED.
ROOM DIFFERENTIAL PRESSURE CONTROLLER SHALL MODULATE EXHAUST FAN EF-R.1 SPEED TO MAINTAIN 0 INWC ROOM DIFFERENTIAL PRESSURE.

MODULATE REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE.

IF ROOM PRESSURE DIFFERENTIAL CONTROLLER IS OPERATING IN "ISOLATION" MODE:

FAN FILTER UNIT SHALL BE ENABLED AT PREBALANCED AIRFLOW OF 250 CFM.

ROOM DIFFERENTIAL PRESSURE CONTROLLER SHALL ENABLE EXHAUST FAN EF-R.1.

LOCAL EF-R.1 ECM CONTROLLER SHALL OPEN MOTORIZED DAMPER MD-2. MODULATE EXHAUST FAN EF-R.1 SPEED TO MAINTAIN 0.03 INWC ROOM DIFFERENTIAL PRESSURE.

MODULATE REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE.

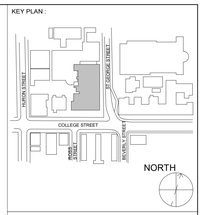
INTEGRATION WITH OTHER SYSTEMS:
1. CONNECT TO EMRS.

TRENDING:
1. ROOM PRESSURE.
2. ROOM TEMPERATURE

ALARM DESCRIPTION	ACTION	ALARM
ROOM PRESSURE BELOW 0.01 INWC.	ACTIVATE LOCAL AUDIBLE AND VISUAL ALARM	CRITICAL
FAN FILTER UNIT FILTER DIRTY	CONTINUE TO RUN	HIGH
HEPA FILTER HOUSING FILTER DIRTY	CONTINUE TO RUN	HIGH
EXHAUST FAN NOT WORKING	ACTIVATE LOCAL AUDIBLE AND VISUAL ALARM	CRITICAL
NOTES: DO NOT ALARM WHEN OPERATOR OVERRIDES SYSTEM OR ITS COMPONENTS TO BE DISABLED.		

1 / TM-0.9 ISOLATION ROOM CONTROLS DIAGRAM AND SEQUENCE

KEY PLAN :



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REVISION

NO.	DATE	DESCRIPTION
1	2025-01-31	ISSUED FOR BID
2	2025-03-07	Bid Addendum #01
3	2025-03-24	Bid Addendum #04

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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
CONTROLS DIAGRAMS AND SEQUENCES

PROJECT NUMBER :
21590.003

DRAWING SCALE :
N.T.S.

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO : **TM-0.9** REV : **3**

Grease Interceptor Calculation

Floor	Item Description	length (inches)	width (inches)	depth (inches)	volume (cu in)	Factor to convert volume to gallons	Item Gallons - Item Fixture Units or Calculated Gallons	120*4 and *3
1	Sink Compartment 1	14	13	8	1456	231	23	0.5
1	Sink Compartment 2	14	13	8	1456	231	23	0.5
								1.1
						Conversion	1 L/s - 0.063 GPM	0.1
								16.9

Notes:

*1 : Total floor drains (i.e., 3 floor drain * 2.31 to convert to gallons)

*2 : Enter unit gallon in column H if/when volumes do not apply

*3 : Drainage Load - 75% of Maximum Discharge (Dishes Displace 25% of the water in sink)

4 : Drain Down Time 120 (seconds) = (0.75(l2*3.785)/120) where 3.785 convert gallons to litres and 120 is the drain down time

5 : Drain Down Time 60 (seconds) = (0.75(l2*3.785)/60) where 3.785 convert gallons to litres and 60 is the drain down time

Code Reference: OBC 7.4.4.3 Interceptors

GENERAL NOTES:

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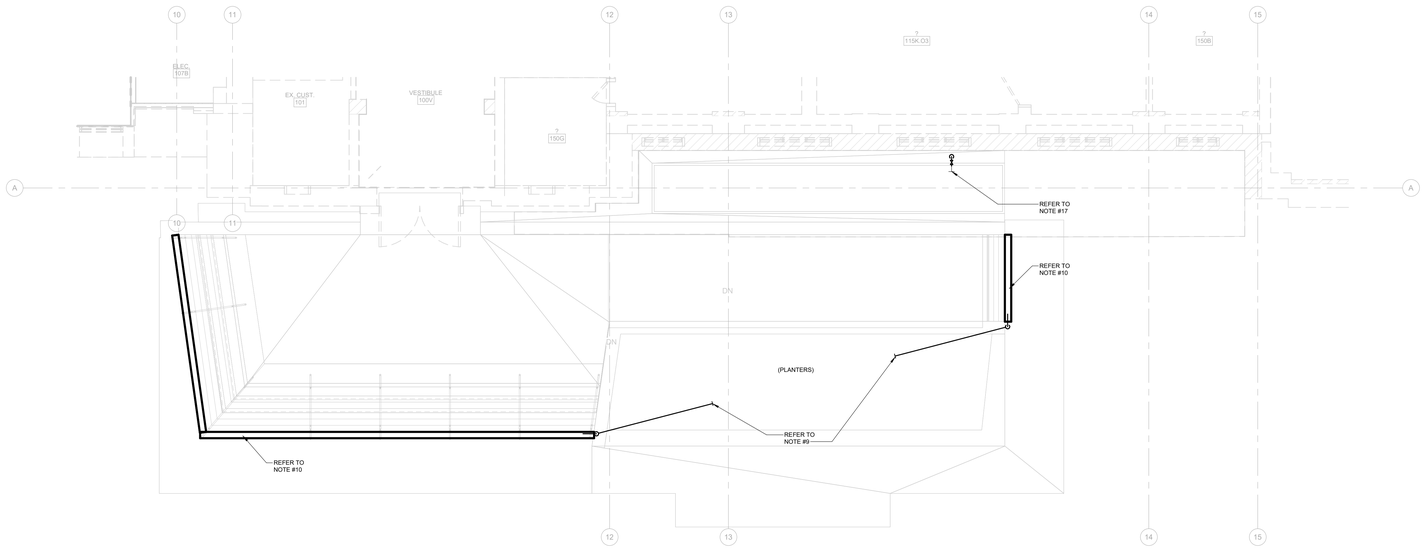
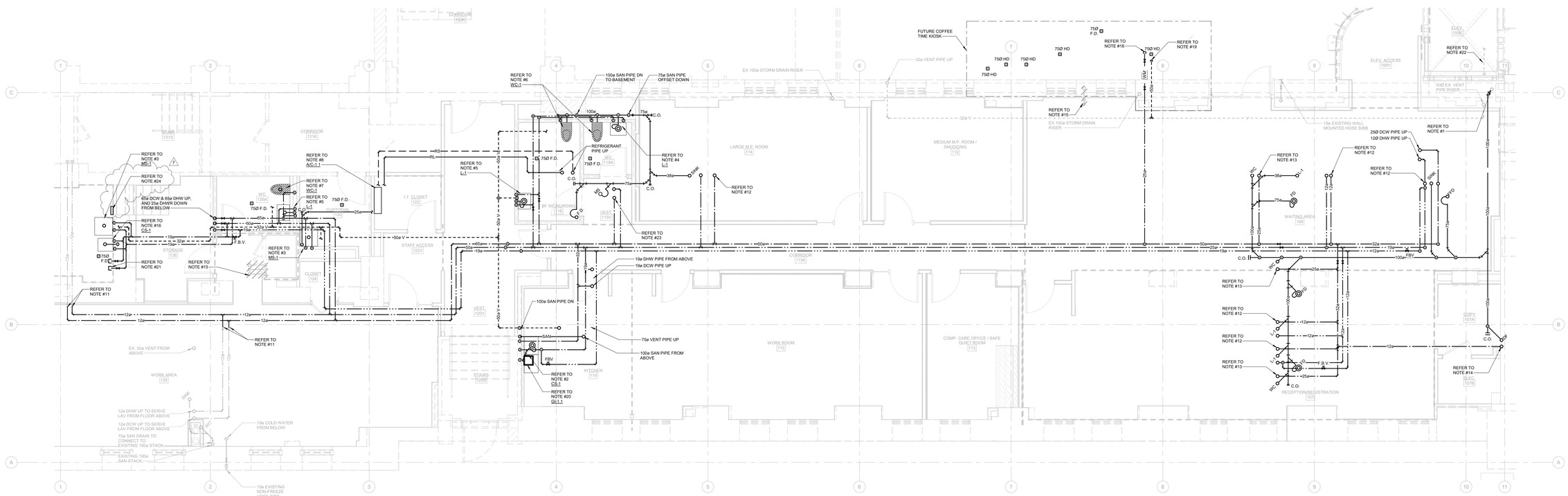
2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. CONNECT NEW 100Ø SANITARY DRAINAGE PIPE TO EXISTING 100Ø SANITARY PIPE RISER AND EXTEND AS INDICATED.
2. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO SINK, 32Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN TO BELOW COUNTER GREASE INTERCEPTOR AND DOWN TO CEILING SPACE OF (BASEMENT) FLOOR BELOW. ROUGH-IN AND FINAL CONNECTION FOR TWO AT 12Ø (1/2"Ø) ONE VALVED AND CAPPED DOMESTIC HOT WATER CONNECTION FOR DISHWASHER AND ONE VALVED AND CAPPED DOMESTIC COLD WATER CONNECTION FOR FUTURE CLIENT SUPPLIED APPLIANCE. PROVIDE NEW GREASE INTERCEPTER UNDER SINK.
3. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO MOP SINK, 32Ø VENT LINE UP FROM MOP SINK, AND 38Ø SANITARY DRAIN DOWN FROM MOP SINK TO CEILING SPACE OF (BASEMENT) FLOOR BELOW.
4. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY, AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO NEW 75Ø SANITARY PIPING AS INDICATED.
5. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY, AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO CEILING SPACE OF (BASEMENT) FLOOR BELOW.
6. 25Ø DOMESTIC COLD WATER PIPE DOWN TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO NEW 75Ø SANITARY PIPING AS INDICATED.
7. 25Ø DOMESTIC COLD WATER PIPE DOWN TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO CEILING SPACE OF (BASEMENT) FLOOR BELOW.
8. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 25Ø CONDENSATE DRAIN FROM SPLIT A/C TO TERMINATE INDIRECTLY OVER MOP SINK AS INDICATED.
9. PROVIDE NEW 100Ø STORM DRAIN FROM NEW TRENCH DRAIN AND DISCHARGE OPEN ENDED TO DRY BASIN BELOW PLANTER FOR IRRIGATION. REFER TO ARCHITECTURAL DRAWING FOR ELEVATION.
10. PROVIDE NEW TRENCH DRAIN. TRENCH DRAIN SHALL BE J.R. SMITH #9660, 150MM WIDE STAINLESS STEEL CONTINUOUS TRENCH DRAIN SYSTEM. SNOWMELT SYSTEM FOR TRENCH DRAIN BY ELECTRICAL CONTRACTOR.
11. CONNECT NEW 12Ø DOMESTIC HOT AND COLD WATER PIPES TO EXISTING 12Ø DOMESTIC HOT AND COLD WATER PIPES IN THE CEILING SPACE OF THIS FLOOR AND EXTEND AS INDICATED.
12. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP TO SINK ON FLOOR ABOVE AND 38Ø SANITARY DRAIN DOWN FROM SINK ON FLOOR ABOVE DOWN TO CEILING OF THIS FLOOR.
13. 25Ø DOMESTIC COLD WATER PIPE UP TO WATER CLOSET ON FLOOR ABOVE AND 75Ø SANITARY DRAIN DOWN FROM WATER CLOSET ON FLOOR ABOVE DOWN TO CEILING OF THIS FLOOR.
14. 12Ø DOMESTIC COLD WATER PIPE UP TO DRINKING FOUNTAIN ON FLOOR ABOVE AND 38Ø SANITARY DRAIN DOWN FROM DRINKING FOUNTAIN ON FLOOR ABOVE DOWN TO CEILING OF THIS FLOOR.
15. ALLOW FOR 3 HOURS OF INVESTIGATION OF EXISTING PLUMBING STUB-OUTS TO TRACE PIPING BACK TO MAIN SOURCE. REMOVE AND CAP EXISTING PLUMBING PIPING AS CLOSE TO SOURCE AS POSSIBLE. ALLOW FOR REMOVAL OF 30'-0" OF PIPING OF EACH PLUMBING SERVICE.
16. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO SINK, 38Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF (BASEMENT) FLOOR BELOW.
17. PROVIDE NEW 19Ø WALL MOUNTED HOSE BIB FOR FUTURE IRRIGATION CONNECTION. HOSE BIB SHALL BE IN A LOCKABLE BOX AND RECESSED INTO THE NEW PLANTER. EXACT LOCATION TO BE COORDINATED ON SITE.
18. 25Ø DOMESTIC COLD WATER PIPE CAPPED CONNECTION COMPLETE WITH SHUT-OFF VALVE AND WATER CHECK METER FOR FUTURE TENANT.
19. 50Ø VENT PIPE CAPPED CONNECTION FOR FUTURE TENANT.
20. PROVIDE AND INSTALL NEW UNDER COUNTER GREASE INTERCEPTOR COMPLETE WITH COUPLING ON SIDE AND THREADED CONNECTION FOR GREASE PUMP CONNECTION. GREASE INTERCEPTOR SHALL BE RATED FOR 34 GPM AND 70 LB GREASE HOLDING CAPACITY.
21. PROVIDE 19Ø CAPPED DOMESTIC HOT AND COLD WATER LINES FOR FUTURE CLIENT SUPPLIED WASHER.
22. ALLOW FOR 3 HOURS OF INVIESTIGATION AND TO REMOVE AND RE-ROUTE EXISTING PIPE.
23. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP TO MOP SINK ON FLOOR ABOVE AND 75Ø SANITARY DRAIN DOWN FROM MOP SINK ON FLOOR ABOVE DOWN TO CEILING OF THIS FLOOR.
24. PROVIDE NEW ELECTRONIC TRAP SEAL PRIMER. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL DIVISION.

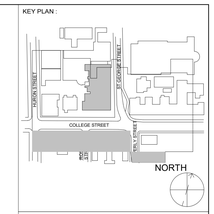


2 ENLARGED BUILDING EXTERIOR PLUMBING PLAN
TM-1.2 1 : 50



1 GROUND FLOOR PLAN
TM-1.2 1 : 50

KEY PLAN :



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REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50% REVIEW
2	2024-11-01	PROGRESS ISSUANCE
3	2024-11-14	ISSUED FOR PERMIT
4	2024-12-04	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
7	2025-03-24	Bid Addendum #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

GROUND FLOOR - PLUMBING AND PIPING LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1:50

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO :
TM-1.2

REV :
7

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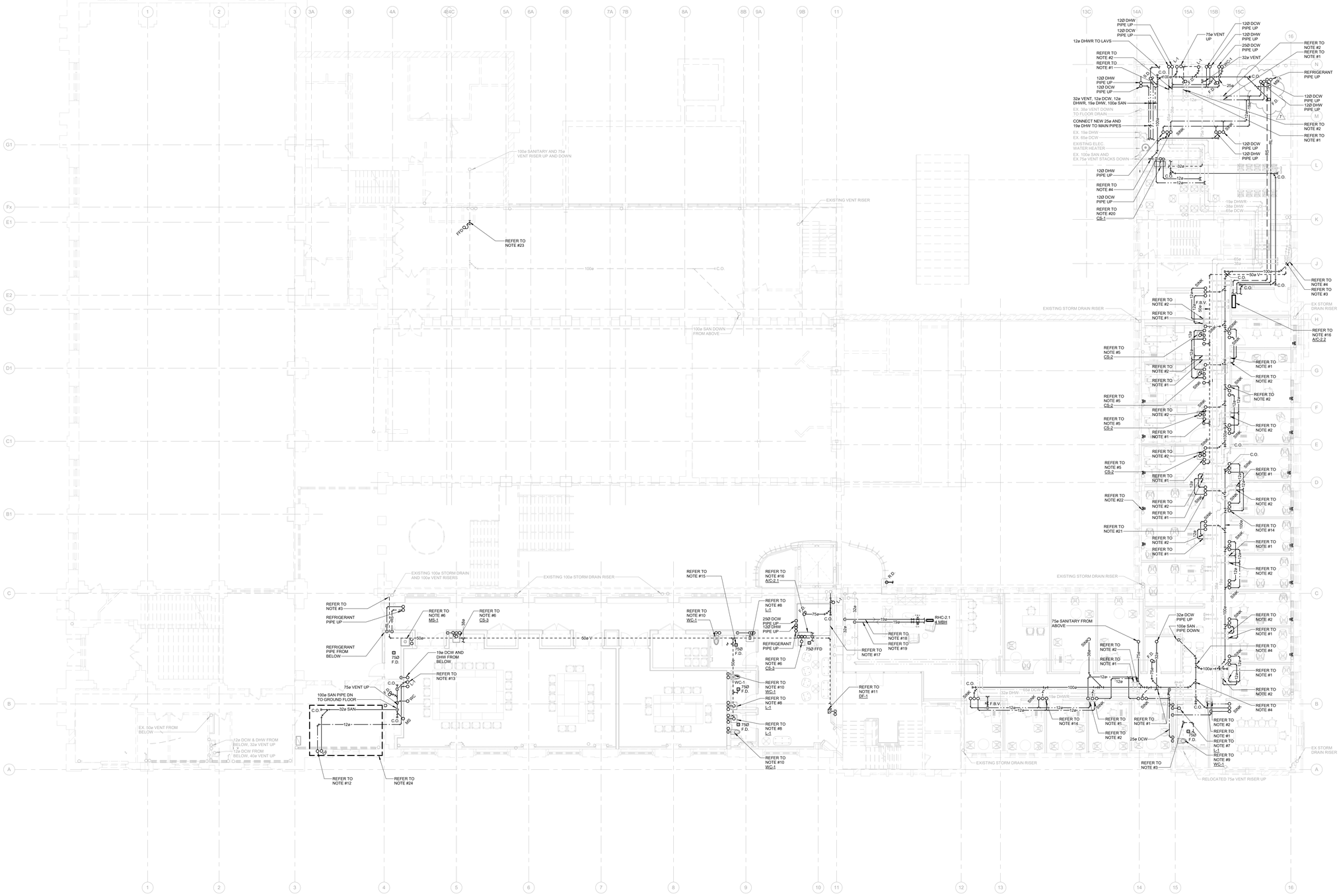
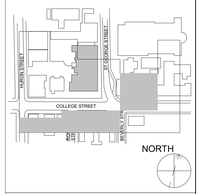
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. CONNECT NEW DOMESTIC COLD WATER PIPING TO EXISTING DOMESTIC COLD WATER PIPING AND EXTEND AS INDICATED. REFER TO DRAWING FOR PIPE SIZES.
2. CONNECT NEW DOMESTIC HOT WATER PIPING TO EXISTING DOMESTIC HOT WATER PIPING AND EXTEND AS INDICATED. REFER TO DRAWING FOR PIPE SIZES.
3. CONNECT NEW 50Ø VENT PIPE TO EXISTING 75Ø VENT PIPE AND EXTEND AS INDICATED.
4. CONNECT NEW 100Ø SANITARY DRAINAGE PIPE TO EXISTING 100Ø SANITARY PIPE RISER AND EXTEND AS INDICATED.
5. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO SINK, 32Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF (GROUND) FLOOR BELOW.
6. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP FROM FLOOR BELOW TO SINK, 32Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF (GROUND) FLOOR BELOW.
7. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY, AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO CEILING SPACE OF (GROUND) FLOOR BELOW.
8. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP FROM FLOOR BELOW TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY, AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO CEILING SPACE OF (GROUND) FLOOR BELOW.
9. 25Ø DOMESTIC COLD WATER PIPE DOWN TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO CEILING SPACE OF (GROUND) FLOOR BELOW.
10. 25Ø DOMESTIC COLD WATER PIPE UP FROM FLOOR BELOW TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO CEILING SPACE OF (GROUND) FLOOR BELOW.
11. 12Ø DOMESTIC COLD WATER PIPE UP FROM FLOOR BELOW TO DRINKING FOUNTAIN, 32Ø VENT AND 32Ø SANITARY DRAIN DOWN FROM DRINKING FOUNTAIN TO CEILING SPACE OF (GROUND) FLOOR BELOW.
12. 12Ø DOMESTIC COLD WATER PIPE UP TO DRINKING FOUNTAIN ON FLOOR ABOVE, 32Ø SANITARY DRAIN DOWN FROM DRINKING FOUNTAIN ON FLOOR ABOVE.
13. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP TO LAVATORY ON FLOOR ABOVE, 32Ø SANITARY DRAIN DOWN FROM LAVATORY ON FLOOR ABOVE.
14. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP TO SINK ON FLOOR ABOVE, 38Ø SANITARY DRAIN DOWN FROM SINK ON FLOOR ABOVE. (TYPICAL)
15. PROVIDE NEW FLOOR DRAINS COMPLETE WITH TRAPS AND TRAP PRIMERS. (TYPICAL)
16. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 25Ø CONDENSATE DRAIN FROM SPLIT A/C TO EXTEND AS INDICATED AND TERMINATE INDIRECTLY OVER FUNNEL FLOOR DRAIN BELOW COUNTER SINK.
17. PROVIDE NEW WATER TIGHT DRIP PAN UNDER NEW/EXISTING PLUMBING SERVICES COMPLETE WITH MOISTURE SENSOR TIED INTO AUDIBLE ALARM WITHIN CEILING SPACE FOR MONITORING. 25 DRIP PAN DRAIN TO TERMINATE INDIRECTLY OVER 75Ø FUNNEL FLOOR DRAIN AS INDICATED.
18. CONNECT NEW HEATING WATER SUPPLY PIPES TO EXISTING PIPING ON THIS FLOOR AND EXTEND AS INDICATED. INCLUDE FOR PIPE FREEZING TO FACILITATE NEW CONNECTION WITHOUT DISTURBANCE TO EXISTING SERVICES. SIZE AS INDICATED ON DRAWING.
19. CONNECT NEW HEATING WATER RETURN PIPES TO EXISTING PIPING ON THIS FLOOR AND EXTEND AS INDICATED. SYSMTEM SHALL FOLLOW A REVERSE RETURN PIPING CONFIGURATION. INCLUDE FOR PIPE FREEZING TO FACILITATE NEW CONNECTION WITHOUT DISTURBANCE TO EXISTING SERVICES. SIZE AS INDICATED ON DRAWING.
20. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO COUNTER SINK, 32Ø VENT LINE UP FROM SINK, AND 32Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF FLOOR BELOW AND TO CONNECT TO EXISTING PIPE OF EQUAL OR LARGER SIZE.
21. OFFSET NEW SANITARY, DOMESTIC COLD AND HOT WATER AS REQUIRED TO AVOID INTERFERENCE WITH EXISTING BEAM. (TYPICAL)
22. ALLOW FOR THE REWORK OF EXISTING HEATING WATER SUPPLY PIPING AND INSTALL NEW CONTROL VALVE WITHIN EXISTING PERIMETER RADIATION UNIT ENCLOSURE. INTERFACE WITH NEW DDC VAV BOX CONTROLS. COORDINATE WORK ON SITE. WORK SHALL BE PERFORMED BY XX. (TYPICAL)
23. CONNECT NEW 75Ø SANITARY DRAINAGE PIPE TO EXISTING 100Ø SANITARY PIPE RISER AND EXTEND AS INDICATED.
24. COORDINATE CEILING DEMOLITION AND REINSTALLATION WITH THE ARCHITECT.



KEY PLAN :



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REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50% REVIEW
2	2024-11-01	PROGRESS ISSUANCE
3	2024-11-14	ISSUED FOR PERMIT
4	2024-12-04	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
7	2025-03-24	Bid Addendum #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

SECOND FLOOR - PLUMBING AND PIPING LAYOUT

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1:100**

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO : **TM-2.2**

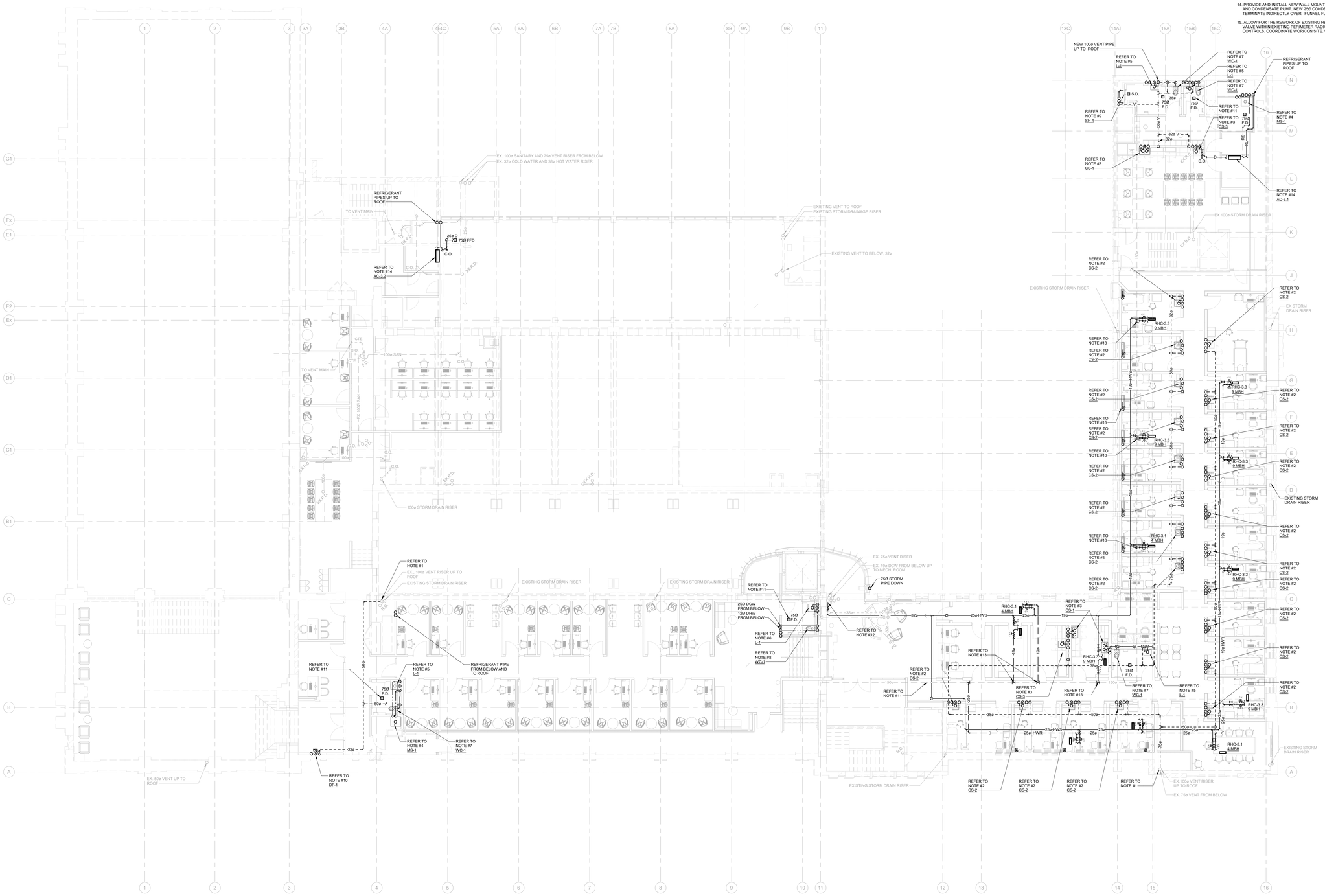
REV : **7**

GENERAL NOTES:

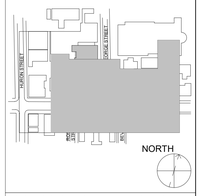
1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. CONNECT NEW 75Ø VENT PIPE TO EXISTING 100Ø VENT PIPE AND EXTEND AS INDICATED.
2. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP FROM FLOOR BELOW TO SINK, 32Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF (2ND) FLOOR BELOW. OFFSET NEW SANITARY DRAIN IN WALL TO AVOID INTERFERENCE WITH EXISTING BEAM BELOW. COORDINATE WITH STRUCTURAL.
3. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP FROM FLOOR BELOW TO SINK, 32Ø VENT LINE UP FROM SINK, AND 38Ø SANITARY DRAIN DOWN FROM SINK TO CEILING SPACE OF (2ND) FLOOR BELOW. ROUGH-IN AND FINAL CONNECTION FOR TWO AT 12Ø ONE VALVED AND CAPPED DOMESTIC HOT WATER CONNECTION FOR DISHWASHER AND ONE VALVED AND CAPPED DOMESTIC COLD WATER CONNECTION FOR FUTURE CLIENT SUPPLIED APPLIANCE. OFFSET NEW SANITARY DRAIN IN WALL TO AVOID INTERFERENCE WITH EXISTING BEAM BELOW. COORDINATE WITH STRUCTURAL.
4. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO MOP SINK, 32Ø VENT LINE UP FROM MOP SINK, AND 38Ø SANITARY DRAIN DOWN FROM MOP SINK TO CEILING SPACE OF (2ND) FLOOR BELOW.
5. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP FROM FLOOR BELOW TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY, AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO CEILING SPACE OF (2ND) FLOOR BELOW.
6. 12Ø DOMESTIC HOT AND COLD WATER PIPES DOWN TO LAVATORY, 32Ø VENT LINE UP FROM LAVATORY, AND 32Ø SANITARY DRAIN DOWN FROM LAVATORY TO CEILING SPACE OF (2ND) FLOOR BELOW.
7. 25Ø DOMESTIC COLD WATER PIPE DOWN TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO CEILING SPACE OF (2ND) FLOOR BELOW.
8. 25Ø DOMESTIC COLD WATER PIPE UP FROM FLOOR BELOW TO WATERCLOSET, 50Ø VENT LINE UP FROM WATERCLOSET, AND 75Ø SANITARY DRAIN DOWN FROM WATERCLOSET TO CEILING SPACE OF (2ND) FLOOR BELOW.
9. 12Ø DOMESTIC HOT AND COLD WATER PIPES UP FROM FLOOR BELOW TO SHOWER MIXING ASSEMBLY, 19Ø VENT LINE UP FROM SHOWER, AND 50Ø SANITARY DRAIN DOWN FROM SHOWER TO CEILING SPACE OF (2ND) FLOOR BELOW.
10. 12Ø DOMESTIC COLD WATER PIPE UP FROM FLOOR BELOW TO DRINKING FOUNTAIN AND 32Ø SANITARY DRAIN DOWN FROM DRINKING FOUNTAIN TO CEILING SPACE OF (GROUND) FLOOR BELOW.
11. PROVIDE NEW FLOOR DRAINS COMPLETE WITH TRAPS AND TRAP PRIMERS. (TYPICAL)
12. CONNECT NEW HEATING WATER SUPPLY PIPES TO EXISTING PIPING ON THIS FLOOR AND EXTEND AS INDICATED. INCLUDE FOR PIPE FREEZING TO FACILITATE NEW CONNECTION WITHOUT DISTURBANCE TO EXISTING SERVICES. SIZE AS INDICATED ON DRAWING.
13. CONNECT NEW HEATING WATER RETURN PIPES TO EXISTING PIPING ON THIS FLOOR AND EXTEND AS INDICATED. SYSMTEM SHALL FOLLOW A REVERSE RETURN PIPING CONFIGURATION. INCLUDE FOR PIPE FREEZING TO FACILITATE NEW CONNECTION WITHOUT DISTURBANCE TO EXISTING SERVICES. SIZE AS INDICATED ON DRAWING.
14. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 25Ø CONDENSATE DRAIN FROM SPLIT A/C TO EXTEND AS INDICATED AND TERMINATE INDIRECTLY OVER FUNNEL FLOOR DRAIN.
15. ALLOW FOR THE REWORK OF EXISTING HEATING WATER SUPPLY PIPING AND INSTALL NEW CONTROL VALVE WITHIN EXISTING PERIMETER RADIATION UNIT ENCLOSURE. INTERFACE WITH NEW DDC VAV BOX CONTROLS. COORDINATE WORK ON SITE. WORK SHALL BE PERFORMED BY XX. (TYPICAL)



KEY PLAN :



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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

THIRD FLOOR - PLUMBING AND PIPING LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1:100

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO :
TM-3.2

REV :
6

GENERAL NOTES:

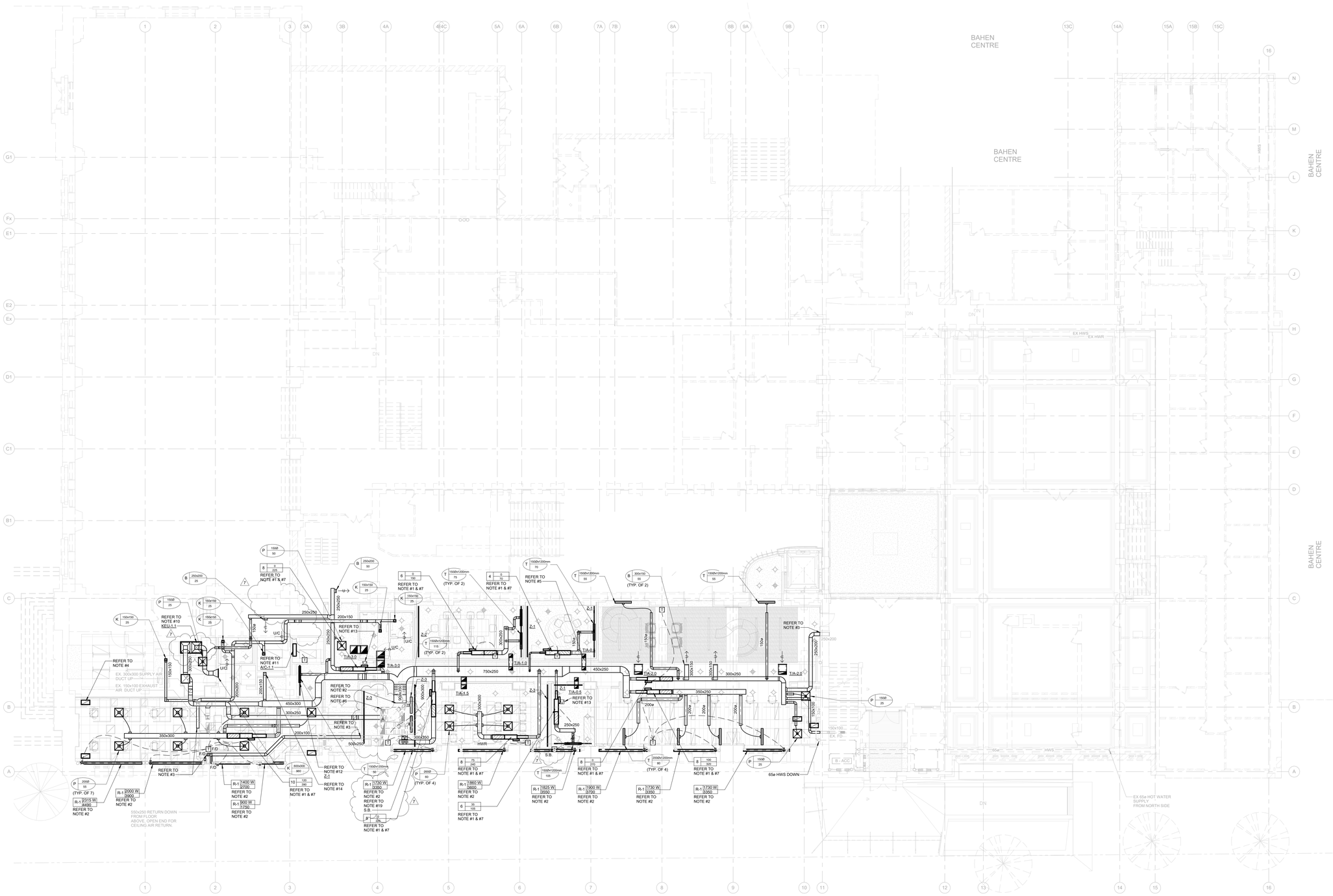
1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DETERMINE THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS BASED ON SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
2. READ FLOOR PLANS IN CONJUNCTION WITH SCHEMATICS. ASSUME INFORMATION SHOWN ON FLOOR PLANS TO BE APPLICABLE TO THE RELATED SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

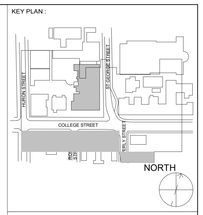
1. PROVIDE AND INSTALL NEW VAV BOX COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, CONTROLS, CONTROL WIRING, ETC.
2. PROVIDE AND INSTALL NEW RADIATOR COMPLETE WITH NEW RADIATOR AND TRIMS TO ENCLOSE HEATING WATER PIPING. EXTEND RADIATOR COVER WALL-TO-WALL. MODIFY EXISTING HEATING WATER SUPPLY AND RETURN PIPES TO SUIT NEW UNIT AS REQUIRED. REMOVE EXISTING PNUEMATIC CONTROL VALVE AND PROVIDE NEW NEW 2-WAY DDC CONTROL VALVE ON SUPPLY SIDE. REFER TO DRAWING FOR LENGTH. (TYPICAL)
3. CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AND EXTEND AS INDICATED. REFER TO DRAWING FOR DUCT SIZING.
4. PROVIDE NEW TYPE 'E' 24"X12" OR 24"X24" RETURN AIR GRILLE AS INDICATED ON DRAWING.
5. PROVIDE ACOUSTICALLY LINED TRANSFER AIR DUCT IN LOCATION SHOWN. FREE AREA INDICATED. EXACT LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS.

   T/A-0.5 PROVIDE A TOTAL FREE AREA OF 0.05 SQ.M.
   T/A-1.0 PROVIDE A TOTAL FREE AREA OF 0.10 SQ.M.
   T/A-1.5 PROVIDE A TOTAL FREE AREA OF 0.15 SQ.M.
   T/A-2.0 PROVIDE A TOTAL FREE AREA OF 0.20 SQ.M.
   T/A-3.0 PROVIDE A TOTAL FREE AREA OF 0.30 SQ.M.
6. PROVIDE AND INSTALL NEW NFPA96 COMPLIANT TYPE 1 RECIRCULATING HOOD COMPLETE WITH INTEGRAL FIRE SUPRESSION SYSTEM. COORDINATE POWER REQUIREMENTS AND BASE BUILDING FIRE ALARM TIE IN WITH ELECTRICAL DIVISION. REFER TO TM-0.3 & TM-0.4 FOR KITCHEN HOOD DETAIL DRAWINGS.
7. PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. VAV BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM) OR LARGER AS INDICATED. WHERE OUTLETS SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO NEAREST EVEN SIZE (I.E. PROVIDE (14") FOR (12.5") OR (13") OUTLET) PROVIDE TRANSITION DUCTS AS REQUIRED.
8. THERMOSTATS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED THERMOSTATS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE INTERIOR DESIGNER WITHIN (40") OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH CONSULTANT.
9. INSTALL THERMOSTATS NOMINALLY AT (48") ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
10. PROVIDE AND INSTALL NEW FLOOR MOUNTED RECIRCULATING SELF- CONTAINED KITCHEN ECOLOGY UNIT. COMPLETE WITH ZERO CLEARANCE PRE-FABRICATED NFPA96 COMPLIANT KITCHEN EXHAUST DUCTWORK AND EXTEND AS INDICATED COORDINATE POWER REQUIREMENTS WITH ELECTRICAL DIVISION. REFER TO TM-0.5, TM-0.6 & TM-0.7 FOR KITCHEN ECOLOGY DRAWINGS.
11. PROVIDE AND INSTALL NEW WALL MOUNTED SPLIT A/C UNIT COMPLETE WITH ASSOCIATED REFRIGERANT PIPING, CONTROLS, CONTROL WIRING, ETC.
12. SUPPLY AND INSTALL LINEAR SLOT DIFFUSERS WITHIN CONTINUOUS ARCHITECTURAL SLOT PROVIDE. REFER TO ARCHITECTURAL DRAWING FOR TOTAL SLOT LENGTH. NON-ACTIVE (RETURN) LENGTH TO BE COMPLETE WITH MATT BLACK 2" BAFFLE AND A MINIMUM NON-ACTIVE LENGTH TO BE:

    Z-1 MIN. OF 3'-0" RETURNNON-ACTIVE LENGTH
    Z-2 MIN. OF 8'-0" RETURNNON-ACTIVE LENGTH
    Z-3 MIN. OF 13'-0" RETURNNON-ACTIVE LENGTH
13. PROVIDE AND INSTALL NEW 300X300 ACCESS PANEL.
14. NEW 200X150 SUPPLY AIR DUCT DOWN TO CEILING SPACE OF BASEMENT LEVEL BELOW AND CONNECT TO EXISTING 200X150 DUCT.
15. ALL CONTROLS WORK TO BE COMPLETED BY BASE BUILDING CONTROLS CONTRACTOR.
16. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
17. INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT FOR EXISTING PERIMETER RADIATION UNITS-PROVIDE A WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
18. NOT USED.
19. PROVIDE NEW SOUND BAFFLE (S.B.) WITHIN PERIMETER RADIATOR UNIT. (TYPICAL)



KEY PLAN :



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UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

GROUND FLOOR - H.V.A.C. LAYOUT

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1:100**

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO : **TM-1.3**

REV : **7**

GENERAL NOTES:

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DRAWING NOTES:

1. PROVIDE AND INSTALL NEW VAV BOX COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, CONTROLS, CONTROL WIRING, ETC.
2. PROVIDE AND INSTALL NEW RADIATOR COMPLETE WITH NEW RADIATOR AND TRIMS TO ENCLOSE HEATING WATER PIPING. EXTEND RADIATOR COVER WALL-TO-WALL. MODIFY EXISTING HEATING WATER SUPPLY AND RETURN PIPES TO SUIT NEW UNIT AS REQUIRED. REMOVE EXISTING PNUEMATIC CONTROL VALVE AND PROVIDE NEW NEW 2-WAY DDC CONTROL VALVE ON SUPPLY SIDE. REFER TO DRAWING FOR LENGTH.
3. CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AND EXTEND AS INDICATED. REFER TO DRAWING FOR DUCT SIZING.
4. PROVIDE NEW TYPE 'E' 24"X12" OR 24"X24" RETURN AIR GRILLE AS INDICATED ON DRAWING.
5. PROVIDE ACOUSTICALLY LINED TRANSFER AIR DUCT IN LOCATION SHOWN. FREE AREA INDICATED. EXACT LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS.

   T/A-0.5 PROVIDE A TOTAL FREE AREA OF 0.05 SQ.M.
   T/A-1.5 PROVIDE A TOTAL FREE AREA OF 0.15 SQ.M.
   T/A-2.0 PROVIDE A TOTAL FREE AREA OF 0.20 SQ.M.
6. PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, REVERSE ACTING THERMOSTAT CONNECTED TO A FACTORY MOUNTED SPEED CONTROLLER ON FAN, CONTROLS, CONTROL WIRING, ETC. DISCHARGE EXHAUST AIR OPEN ENDED INTO THE CEILING SPACE. ACOUSTICALLY LINED ENTIRE EXHAUST DUCT. POWER REQUIREMENT BY ELECTRICAL DIVISION.
7. PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. VAV BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM) OR LARGER AS INDICATED. WHERE OUTLETS SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO NEAREST EVEN SIZE (I.E. PROVIDE (14") FOR (12.5") OR (13") OUTLET) PROVIDE TRANSITION DUCTS AS REQUIRED.
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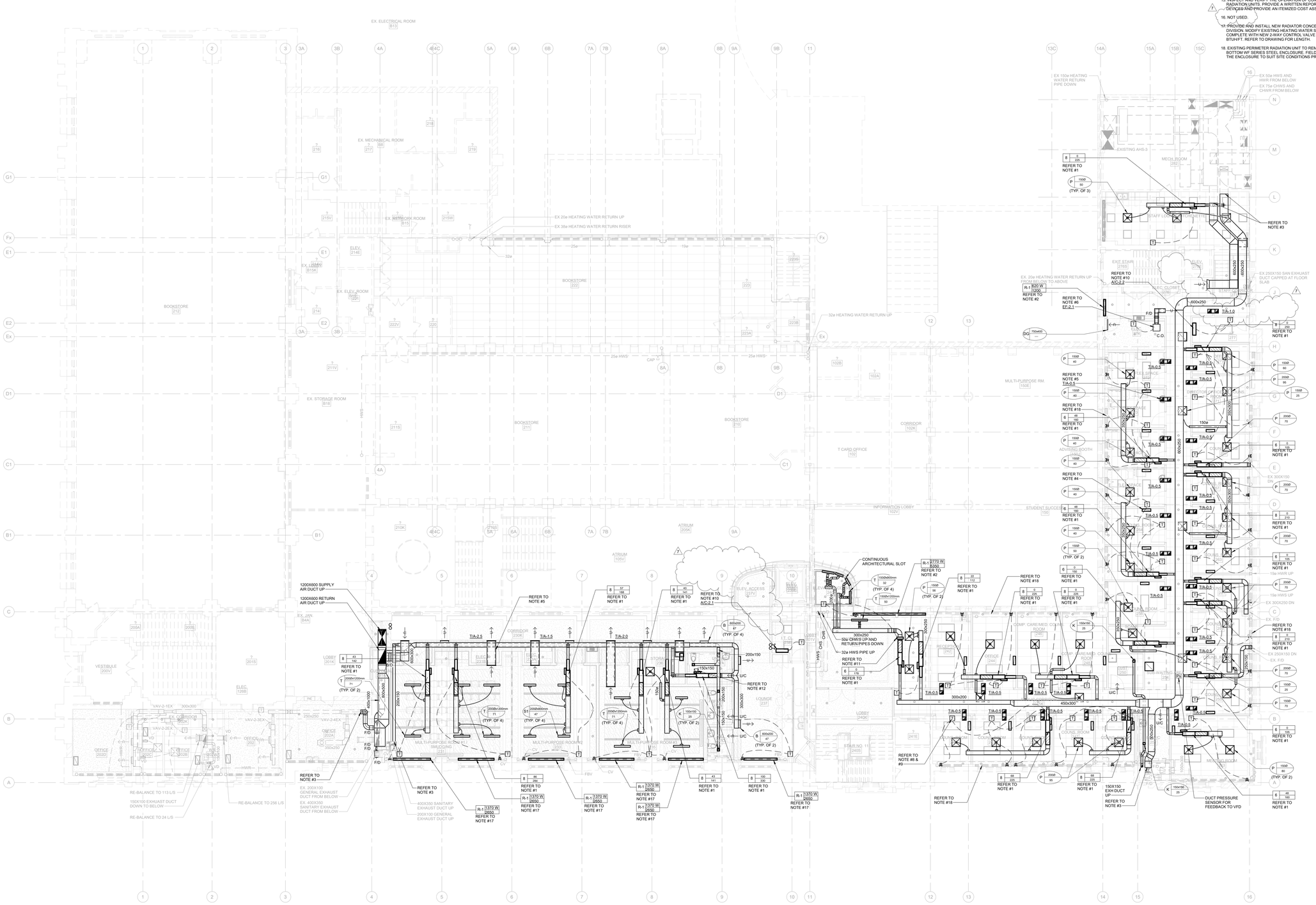
9. INSTALL THERMOSTATS NOMINALLY AT (48") ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
10. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 25Ø CONDENSATE DRAIN FROM SPLIT A/C TO TERMINATE INDIRECTLY OVER MOP SINK AS INDICATED.
11. PROVIDE AND INSTALL NEW HYDRONIC HEATING COIL COMPLETE WITH ASSOCIATED CONTROLS, CONTROL WIRING AND HYDRONIC PIPING. REFER TO TM-2.2 FOR HEATING COIL CAPACITY AND PIPING LAYOUT. (TYPICAL)
12. PROVIDE AND INSTALL NEW 300X300 ACCESS PANEL
13. ALL CONTROLS WORK TO BE COMPLETED BY BASE BUILDING CONTROLS CONTRACTOR.
14. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
15. INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT FOR EXISTING PERIMETER RADIATION UNITS. PROVIDE A WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
16. NOT USED.
17. PROVIDE AND INSTALL NEW RADIATOR CONCEALED BEHIND FINISHES. COORDINATE WITH ARCHITECTURAL DIVISION. MODIFY EXISTING HEATING WATER SUPPLY AND RETURN SERVICES TO SUIT NEW UNIT AS REQUIRED COMPLETE WITH NEW 2-WAY CONTROL VALVE ON SUPPLY SIDE. NEW RADIATOR SHALL BE RUNTAL R2F-1, 263 BTU/HFT. REFER TO DRAWING FOR LENGTH.
18. EXISTING PERIMETER RADIATION UNIT TO REMAIN. PROVIDE NEW ENGINEERED AIR FLAT TOP WITH OPEN BOTTOM WF SERIES STEEL ENCLOSURE. FIELD VERIFY ENCLOSURE HEIGHT AND MEASURE EXACT LENGTHS OF THE ENCLOSURE TO SUIT SITE CONDITIONS PRIOR TO ORDERING. (TYPICAL)



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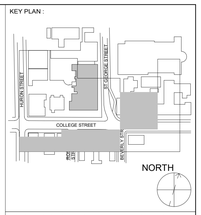

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HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

SECOND FLOOR - H.V.A.C. LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1:100

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO :
TM-2.3

REV :
7

RADIATOR SCHEDULE

TAG	MAKE	MODEL No.	CAPACITY (BTUH/FT)	AVERAGE WATER TEMPERATURE AWT (F)	LENGTH (IN)
R-1	RUNTAL	R2F-1	537	160	REFER TO FLOOR PLANS

1. PROVIDE TRIM COVER TO COMPLETELY COVER ASSOCIATED EXPOSED PIPING.
2. COLOUR: WHITE
3. PROVIDE 75 MM CLEARANCE FROM BOTTOM OF RADIATOR.
4. RADIATOR PIPING CONFIGURATION SHALL MATCH ROUTING ON PLAN DRAWINGS.

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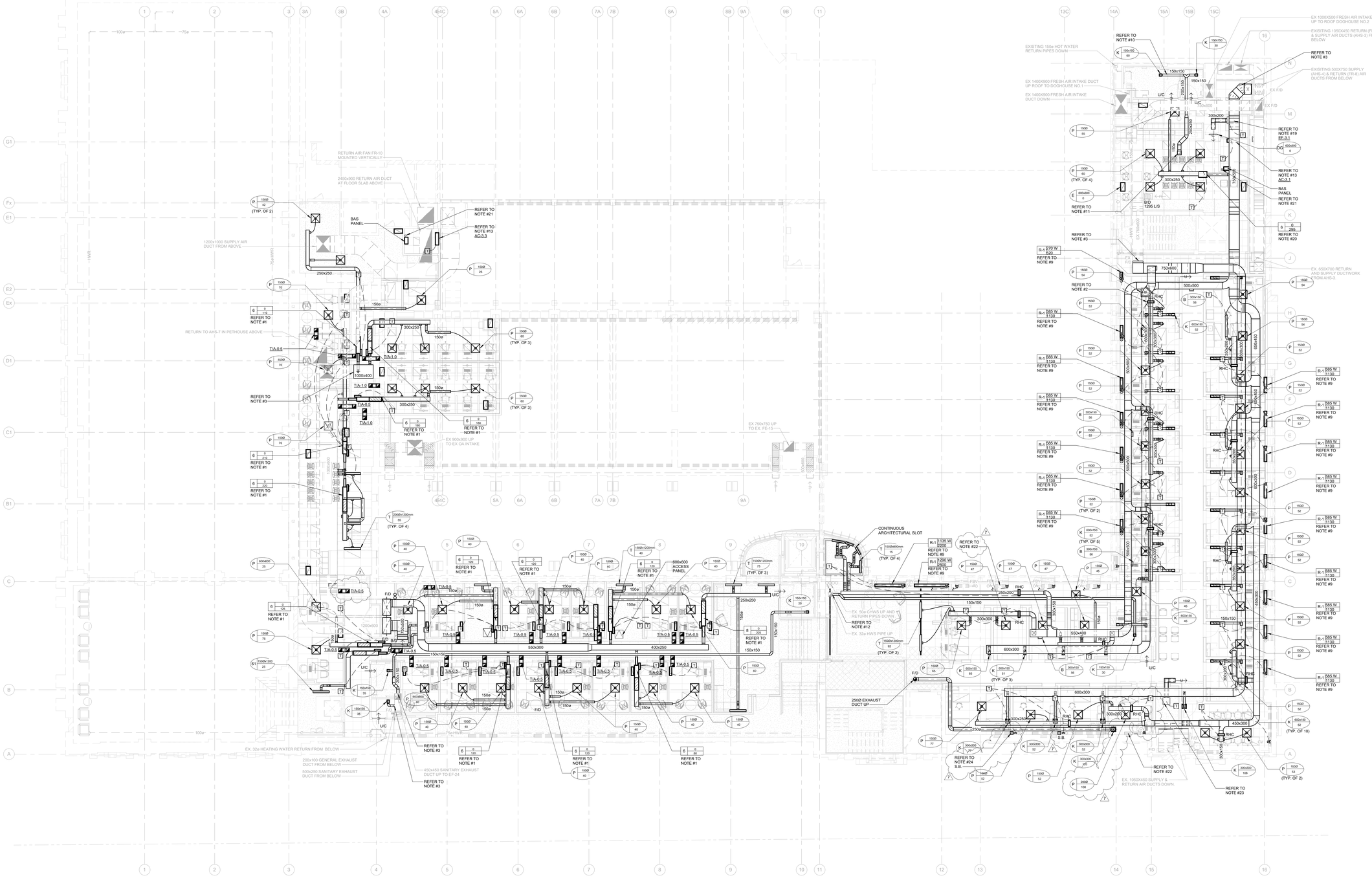
DRAWING NOTES:

1. PROVIDE AND INSTALL NEW VAV BOX COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, CONTROLS, CONTROL WIRING, ETC.
2. PROVIDE AND INSTALL NEW HYDRONIC HEATING COIL COMPLETE WITH ASSOCIATED CONTROLS, CONTROL WIRING AND HYDRONIC PIPING. REFER TO TM-3.2 FOR HEATING COIL CAPACITY AND PIPING LAYOUT. (TYPICAL)
3. CONNECT NEW DUCTWORK TO EXISTING DUCTWORK AND EXTEND AS INDICATED. REFER TO DRAWING FOR DUCT SIZING.
4. PROVIDE NEW TYPE 'E' 24"X12" OR 24"X24" RETURN AIR GRILLE AS INDICATED ON DRAWING.
5. PROVIDE ACOUSTICALLY LINED TRANSFER AIR DUCT IN LOCATION SHOWN. FREE AREA INDICATED. EXACT LOCATION, QUANTITY AND SIZE TO SUIT CEILING SPACE AND SITE CONDITIONS.

   T/A-0.5 PROVIDE A TOTAL FREE AREA OF 0.05 SQ.M.
6. PROVIDE ALL DUCTWORK DOWNSTREAM OF TERMINAL EQUIPMENT (I.E. VAV BOXES) EQUAL TO THE EQUIPMENT OUTLET SIZE (MINIMUM) OR LARGER AS INDICATED. WHERE OUTLETS SIZES ARE ODD SIZES, INCREASE THE DUCT SIZE UP TO NEAREST EVEN SIZE (I.E. PROVIDE (14") FOR (12.5") OR (13") OUTLET) PROVIDE TRANSITION DUCTS AS REQUIRED.
7. THERMOSTATS ARE LOCATED TO AID IN PRICING ONLY AND ALL REQUIRED THERMOSTATS MAY NOT BE SHOWN (REFER TO SPECIFICATIONS). COORDINATE FINAL LOCATION WITH THE INTERIOR DESIGNER WITHIN (40") OF LOCATION SHOWN. ALL RELOCATIONS OUTSIDE OF THIS RANGE SHALL BE REVIEWED WITH CONSULTANT.
8. INSTALL THERMOSTATS NOMINALLY AT (1200MM) ABOVE THE FINISHED FLOOR UNLESS INDICATED OTHERWISE.
9. PROVIDE AND INSTALL NEW RADIATOR COMPLETE WITH RADIATOR COVERS, AND TRIMS TO ENCLOSE PIPING AND EXTEND RADIATOR WALL-TO-WALL. MODIFY EXISTING HEATING WATER SUPPLY AND RETURN SERVICES TO SUIT NEW UNIT AS REQUIRED COMPLETE WITH NEW 2-WAY CONTROL VALVE ON SUPPLY SIDE. REFER TO DRAWING FOR LENGTH.
10. NEW SANITARY EXHAUST DUCTWORK SERVING WASHROOM TO BE ALUMINUM. THERMALLY INSULATE THE ENTIRE EXHAUST DUCT.
11. CONNECT NEW 250X250 SANITARY EXHAUST DUCT TO EXISTING 300X300 DUCT BELOW ROOF DECK AND EXTEND AS INDICATED.
12. CONNECT NEW 150X150 SANITARY EXHAUST DUCT TO EXISTING 300X300 DUCT BELOW ROOF DECK AND EXTEND AS INDICATED.
13. PROVIDE AND INSTALL NEW WALL MOUNTED DUCTLESS SPLIT A/C COMPLETE WITH REFRIGERANT LINES AND CONDENSATE PUMP. NEW 25Ø CONDENSATE DRAIN FROM SPLIT A/C TO TERMINATE INDIRECTLY OVER NEW 75Ø WIDE HUB DAIN IN THE CEILING SPACE WHERE INDICATED ON DRAWING COMPLETE WITH AIR GAP. NEW 25Ø HUB DRAIN CONDENSATE LINE TO RUN INSIDE WALL CAVITY AND DOWN TO TAILSTOCK OF NEW SINK UPSTREAM OF P-TRAP.
14. COORDINATE WITH ARCHITECTURAL DIVISION TO HAVE GRILLE ABOVE PATIENT. EXTEND 250Ø DUCT UP TO PENTHOUSE ABOVE AS INDICATED. LABEL DUCTWORK WITH "CAUTION: AIRBORNE ISOLATION ROOM EXHAUST".
15. ALL CONTROLS WORK TO BE COMPLETED BY BASE BUILDING CONTROLS CONTRACTOR.
16. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
17. INSPECT AND VERIFY THE OPERATION OF CONTROL VALVES AND THERMOSTAT FOR EXISTING PERIMETER RADIATION UNITS. PROVIDE A WRITTEN REPORT IDENTIFYING ALL INOPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
18. EXISTING AIR HANDLING UNITS TO REMAIN. INSPECT AND VERIFY THE OPERATION OF EXISTING AHS-3, AHS-4, AHS-7. PROVIDE A WRITTEN REPORT IDENTIFYING ALL IN OPERATIONAL OR DAMAGED CONTROL DEVICES AND PROVIDE AN ITEMIZED COST ASSOCIATED WITH REPAIR OR REPLACEMENT AS REQUIRED.
19. PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, CONTROLS, CONTROL WIRING, ETC. POWER REQUIREMENT BY ELECTRICAL DIVISION.
20. PROVIDE AND INSTALL NEW BYPASS BOX COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, CONTROLS, CONTROL WIRING, ETC.
21. LOCATION OF 120/1/60 - 15 AMP POWER FOR CONTROLS.
22. EXISTING PERIMETER RADIATION UNIT TO REMAIN. PROVIDE NEW ENGINEERED AIR FLAT TOP WITH OPEN BOTTOM WF SERIES STEEL ENCLOSURE. FIELD VERIFY ENCLOSURE HEIGHT AND MEASURE EXACT LENGTHS OF THE ENCLOSURE TO SUIT SITE CONDITIONS PRIOR TO ORDERING.
23. PROVIDE AND INSTALL NEW EXHAUST FAN COMPLETE WITH ASSOCIATED HANGERS, SUPPORTS, DUCTWORK, REVERSE ACTING THERMOSTAT CONNECTED TO A FACTORY MOUNTED SPEED CONTROLLER ON FAN, CONTROLS, CONTROL WIRING, ETC. DISCHARGE EXHAUST AIR OVER EXTENDED INTO THE CEILING SPACE. ACOUSTICALLY LINED ENTIRE EXHAUST DUCT. POWER REQUIREMENT BY ELECTRICAL DIVISION.
24. PROVIDE NEW SOUND BAFFLE (S.B.) WITHIN PERIMETER RADIATOR UNIT. (TYPICAL)



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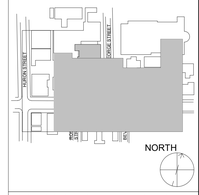

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PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

THIRD FLOOR - H.V.A.C. LAYOUT

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1:100**

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO : **TM-3.3**

REV : **7**

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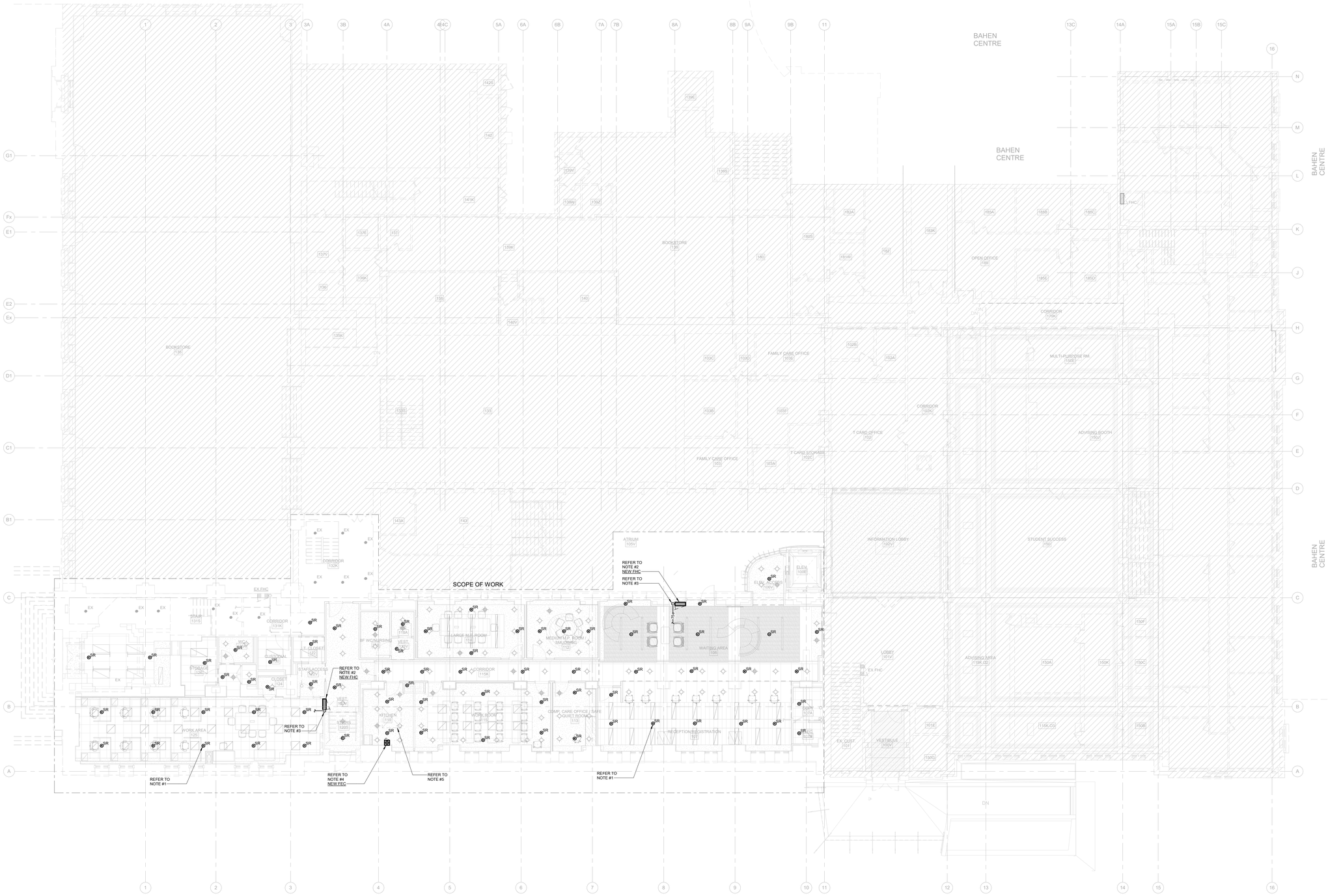
3. VERIFY STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. PROVIDE ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY AS REQUIRED.
4. REFER TO THE STANDARD DETAILS AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

DRAWING NOTES:

1. NEW SEMI-RECESSED TYPE SPRINKLER HEAD TO MATCH BASE BUILDING STANDARD COMPLETE WITH ALL ASSOCIATED BRANCH PIPING. NEW BRANCH PIPING TO CONNECT TO EXISTING SPRINKLER MAIN OR BRANCH MAIN WITH ADEQUATE SIZE. (TYPICAL)
2. NEW 23.0 METER FIRE HOSE CABINET.
3. NEW 75Ø FIRE LINE DOWN TO NEW FIRE HOSE CABINET.
4. SUPPLY AND INSTALL NEW FIRE EXTINGUISHER CABINET AS PER SPECIFICATIONS. FIRE EXTINGUISHER INSTALLATION TO COMPLETE WITH NFPA 10 STANDARDS. (TYPICAL)
5. PROVIDE AND INSTALL NEW NFPA96 COMPLIANT TYPE 1 RECIRCULATING HOOD COMPLETE WITH INTEGRAL FIRE SUPRESSION SYSTEM. COORDINATE POWER REQUIREMENTS AND BASE BUILDING FIRE ALARM TIE IN WITH ELECTRICAL DIVISION. REFER TO HOOD DETAIL DRAWINGS.
6. QUANTITY AND LOCATION OF SPRINKLER HEADS, WHERE SHOWN ARE TO AID IN PRICING ONLY. PROVIDE EXACT NUMBER OF HEADS TO SUIT DENSITY REQUIREMENTS AS SPECIFIED OR SHOWN. CONFORM TO ARCHITECTURAL REFLECTED CEILING PLAN LOCATIONS WHERE INDICATED AND MEET MINIMUM REQUIREMENTS OF ENFORCED NFPA 13 STANDARD.
7. PROVIDE SPRINKLER DRAWINGS AND HYDRAULIC CALCULATIONS SEALED BY A PROFESSIONAL ENGINEER. INDICATED ZONING AND DENSITY. PROVIDE A SPRINKLER PLANS. PROVIDE SHOP DRAWINGS IDENTIFYING PROPOSED LAYOUT FOR REVIEW PRIOR TO INSTALLATION.
8. PROVIDE A SEALED LETTER BY THE PROFESSIONAL ENGINEER OF RECORD CONFIRMING THE INSTALLATION COMPLIES WITH THE SHOP DRAWINGS AND THE ENFORCED NFPA 13 & 14 STANDARD. INCLUDE ALL ASSOCIATED COSTS IN TENDER PRICE.
9. COORDINATE FIRE PROTECTION SERVICES WITH ALL OTHER TRADES PRIOR TO INSTALLATION, RECTIFY, AT OWN EXPENSE, ALL CONFLICTS RESULTING FROM UNCOORDINATED FIRE PROTECTION SYSTEMS INSTALLED IN ADVANCE OF THE REQUIRED INTERFERENCE PROCESS.
10. INCLUDE IN THE TENDER PRICE FOR THE SUPPLY AND INSTALLATION OF AN ADDITIONAL FIVE (5) SPRINKLER HEADS COMPLETE WITH BRANCH PIPING TO SUIT SITE CONDITIONS TO MEET REQUIREMENTS OF NFPA-13.



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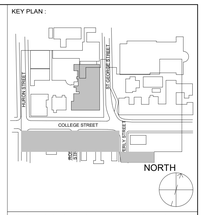

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SHEET CONTENTS :

GROUND FLOOR - FIRE PROTECTION LAYOUT

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1:100**

DRAWN BY :	CHECKED BY :	DATE:
AS	RC/DC	2024-02-08

SHEET NO : **TM-1.4**

REV : **6**

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DRAWING NOTES:

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3. NEW SIDEWALL TYPE SPRINKLER HEAD TO MATCH BASE BUILDING STANDARD COMPLETE WITH ALL ASSOCIATED BRANCH PIPING. NEW BRANCH PIPING TO CONNECT TO EXISTING SPRINKLER MAIN OR BRANCH MAIN WITH ADEQUATE SIZE. (TYPICAL)
4. NEW 23.0 METER FIRE HOSE CABINET.
5. NEW 75Ø FIRE LINE DOWN TO NEW FIRE HOSE CABINET.
6. RELOCATED SPRINKLER ZONE CONTROL CABINET COMPLETE WITH SUPERVISED VALVE AND FLOW SWITCH. CONNECT NEW SPRINKLER PIPE TO EXISTING AND EXTEND TO SPRINKLER ZONE CONTROL CABINET AS INDICATED. FIRE ALARM TIE IN AND CONNECTION TO ANNUCIATOR PANEL BY ELECTRICAL DIVISION.
7. EXISTING 23.0 METER FIRE HOSE CABINET TO REMAIN.
8. CONNECT NEW 75Ø FIRE STANDPIPE TO EXISTING 75Ø FIRE STANDPIPE AND EXTEND AS INDICATED. ALLOW FOR SYSTEM DRAIN DOWN.
9. 75Ø FIRE STANDPIPE UP TO SERVE NEW FIRE HOSE CABINET ON 3RD FLOOR ABOVE COMPLETE WITH NEW SUPERVISORY VALVE.
10. CONNECT NEW 75Ø FIRE STANDPIPE TO NEAREST SERVICE OF ADEQUATE SIZE. ALLOW FOR AN ADDITIONAL 5.0 METERS OF PIPING THAN THAT SHOWN ON DRAWING.
11. QUANTITY AND LOCATION OF SPRINKLER HEADS, WHERE SHOWN ARE TO AID IN PRICING ONLY. PROVIDE EXACT NUMBER OF HEADS TO SUIT DENSITY REQUIREMENTS AS SPECIFIED OR SHOWN. CONFORM TO ARCHITECTURAL REFLECTED CEILING PLAN LOCATIONS WHERE INDICATED AND MEET MINIMUM REQUIREMENTS OF ENFORCED NFPA 13 STANDARD.
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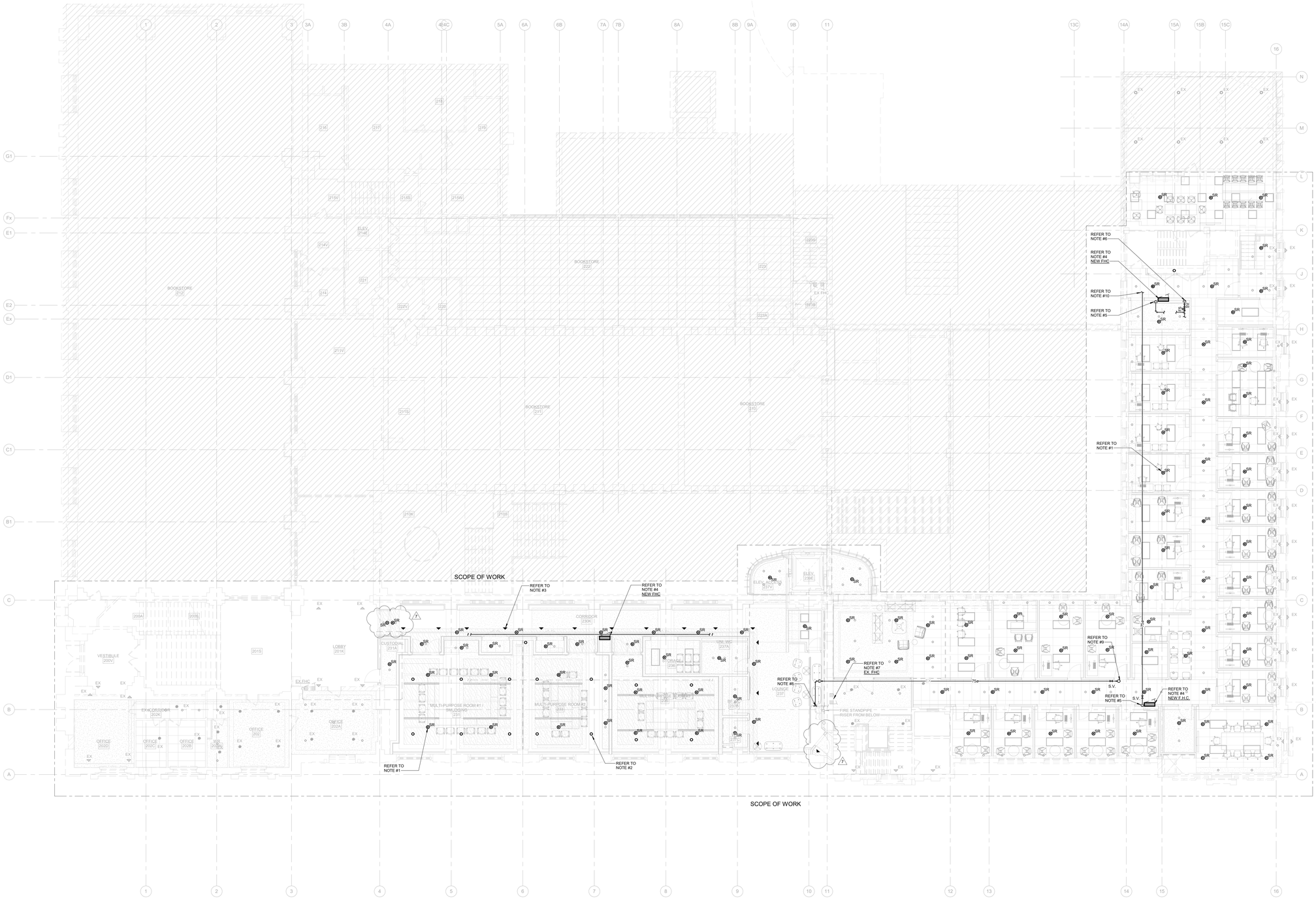
15. INCLUDE IN THE TENDER PRICE FOR THE SUPPLY AND INSTALLATION OF AN ADDITIONAL FIVE (5) SPRINKLER HEADS COMPLETE WITH BRANCH PIPING TO SUIT SITE CONDITIONS TO MEET REQUIREMENTS OF NFPA-13.



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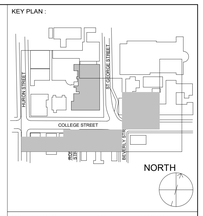

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SHEET CONTENTS :

SECOND FLOOR - FIRE PROTECTION LAYOUT

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1:100**

DRAWN BY :	CHECKED BY :	DATE:
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SHEET NO : **TM-2.4**

REV : **7**

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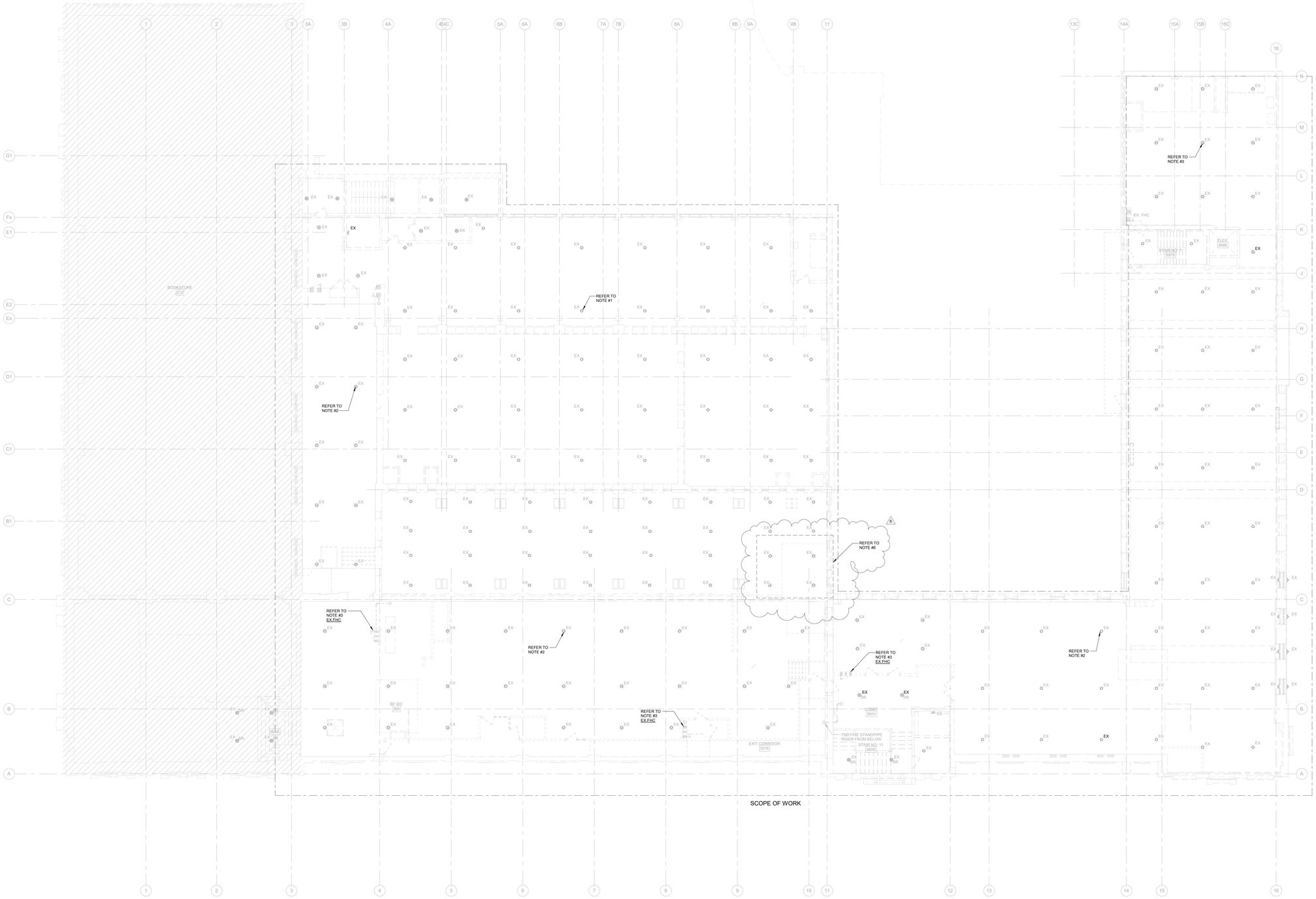
DRAWING NOTES:

1. EXISTING UPRIGHT TYPE SPRINKLER HEADS TO REMAIN. (TYPICAL)
2. EXISTING UPRIGHT TYPE SPRINKLER HEAD AT TRUSS LEVEL TO REMAIN. (TYPICAL)
3. REMOVE EXISTING UPRIGHT TYPE SPRINKLER HEADS. (TYPICAL)
4. REMOVE EXISTING FIRE HOSE CABINET AND CAP EXISTING 75Ø FIRE LINE IN THE CEILING SPACE AS INDICATED. ALLOWS FOR DRAIN DOWN OF FIRE STANDPIPE RISER AND WELDING OF CAPS AT REMOVED CABINET. REMOVE ALL UNUSED PIPING FROM SITE.
5. INCLUDE IN THE TENDER FOR THE REMOVAL OF AN ADDITIONAL FIVE (5) SPRINKLER HEADS COMPLETE WITH BRANCH PIPING NOT SHOWN IN THE DRAWINGS TO SUIT SITE CONDITIONS.
6. ALLOW FOR SPRINKLER PIPING RE-WORK TO SUIT NEW ELEVATOR.



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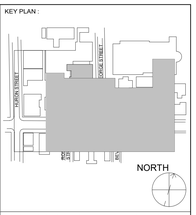

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THIRD FLOOR - FIRE PROTECTION DEMOLITION LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1:100

DRAWN BY :	CHECKED BY :	DATE:
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SHEET NO : **TM-3.4.1**

REV : **6**

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DRAWING NOTES:

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2. NEW SIDEWALL TYPE SPRINKLER HEAD TO MATCH BASE BUILDING STANDARD COMPLETE WITH ALL ASSOCIATED BRANCH PIPING. NEW BRANCH PIPING TO CONNECT TO EXISTING SPRINKLER MAIN OR BRANCH MAIN WITH ADEQUATE SIZE. (TYPICAL)
3. NEW UPRIGHT TYPE SPRINKLER HEAD SERVING SKYLIGHT/ELEVATOR TO MATCH BASE BUILDING STANDARD COMPLETE WITH ALL ASSOCIATED BRANCH PIPING. NEW BRANCH PIPING TO CONNECT TO EXISTING SPRINKLER MAIN OR BRANCH MAIN WITH ADEQUATE SIZE.
4. NEW 23.0 METER FIRE HOSE CABINET.
5. NEW 75Ø FIRE LINE DOWN TO NEW FIRE HOSE CABINET.
6. EXISTING 23.0 METER FIRE HOSE CABINET TO REMAIN.
7. AREA PROTECTED BY EXISTING UPRIGHT HEADS AT TRUSS LEVEL. REFER TO TM-3.4.1 FOR EXISTING SPRINKLER HEAD LAYOUT.
8. ALLOW FOR STANDPIPE REWORK TO AVOID INTERFERENCE WITH NEW HANDRAIL AND STAIRS.
9. QUANTITY AND LOCATION OF SPRINKLER HEADS, WHERE SHOWN ARE TO AID IN PRICING ONLY. PROVIDE EXACT NUMBER OF HEADS TO SUIT DENSITY REQUIREMENTS AS SPECIFIED OR SHOWN. CONFORM TO ARCHITECTURAL REFLECTED CEILING PLAN LOCATIONS WHERE INDICATED AND MEET MINIMUM REQUIREMENTS OF ENFORCED NFPA 13 STANDARD.
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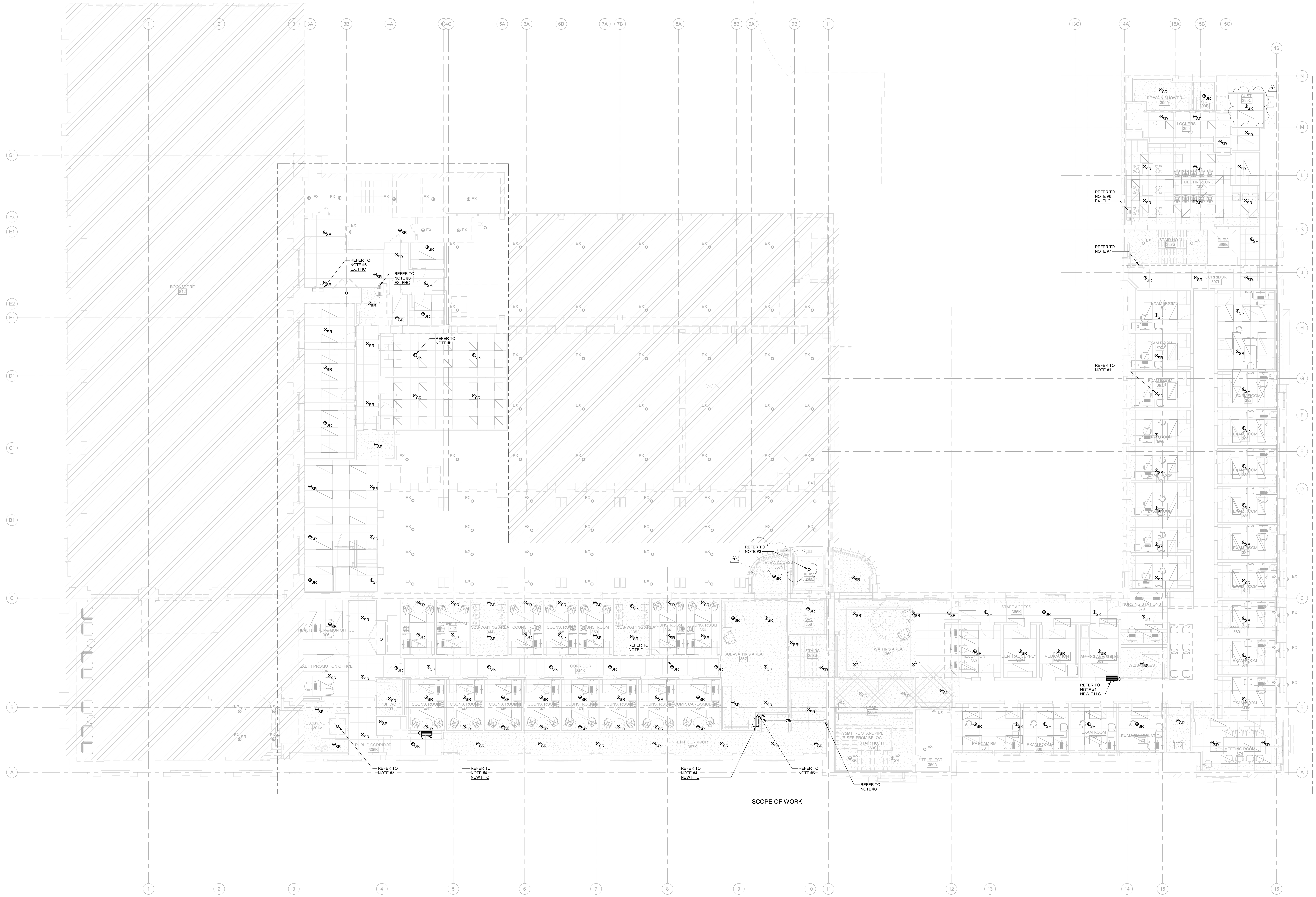

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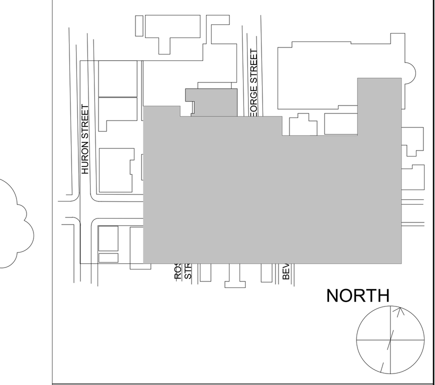

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THIRD FLOOR - FIRE PROTECTION LAYOUT

PROJECT NUMBER : **21590.003**
DRAWING SCALE : **1:100**

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SHEET NO : **TM-3.4** REV : **7**

2.3. LINEAR SUPPLY AND RETURN DIFFUSERS

2.3.1. All diffusers shown as type “T” shall be T-bar plug-in, 1 slot diffuser modified with square ends to limit side spread, and of lengths shown. Diffuser shall be installed with manufacturer plenum to match the length of the diffuser shown. Provide diffuser with mounting clips to suit in continuous T-bar openings. Pattern controllers shall be split mid length to allow each half of diffuser shall be set for different throw patterns. Throw patterns shall be fully adjustable from vertical to horizontal and variations in between. Provide blank-off panels between diffusers. Pattern controllers and blank-off panels shall be finished matte black. Plenum shall be fabricated from coated steel. Refer to Architectural Details for installation of continuous supply air slot. Duct connection to diffuser shall be of sufficient height to allow for 175 mm (7 in.) clearance from ceiling to underside of duct. EH-Price TBD3 series, Nailor 5800, Krueger PTBA, Carnes DASC.

2.3.1.1. Return slots shall match supply and shall have return air sight baffles and mitred corners. Return linear grilles shall be specified as above and indicated as return on the Drawings.

2.4. WALL AND DUCT GRILLES

2.4.1. All supply registers shown as type “B” shall be standard double deflection type with adjustable horizontal face bars and vertical rear bars. Frame shall be gasketted. Construction shall be aluminum with prime coat. Registers larger than listed sizes shall be shop fabricated in Sections such that the Sections will appear as one integral register when installed. The integral volume control damper shall be of the opposed blade type and shall be constructed of cold rolled steel. The damper shall be operable from the register face. The damper shall be coated or galvanized steel. E.H. Price 620D, Nailor 5100 Series, Krueger 5880 Series, Carnes RNGM.

2.5. RETURN, EXHAUST AND TRANSFER GRILLES

2.5.1. Return grilles shown as type “E” shall be size as shown and shall be egg crate type with aluminum construction. Egg crate shall be 12 mm (1/2 in.) deep, formed of 12 mm (1/2 in.) wide aluminum strips on 12 mm (1/2 in.) centres. Strips shall be approximately 0.64 mm (0.025 in.) thick. Grilles shall be enclosed in a channel frame for inverted T-bar mounting or with a flanged frame for plaster or gypsum ceiling mounting. Grilles shall lay on inverted T-bar ceiling suspension system. Colour shall match adjacent ceiling tiles. E.H. Price Series 80, Nailor 5100 Series, Krueger EGC5 Series, Carnes RAPAH.

2.5.2. Return registers shown as type “K” shall be standard return grilles with horizontal fixed bars set at approximately 45 deg. for wall returns and set straight for ceiling return. Key operated damper shall be mounted behind. General appearance, type of material and finish shall match the type “…” supply register. E.H. Price 530, Nailor 6100 Series, Krueger S80, Carnes model RSBAH.

2.5.3. Transfer Grilles shown as type “J” shall be standard single deflection fixed blade type. Finish shall match wall. E.H. Price model 535/F/L/0m, Nailor 6155H/V, Krueger S85.

2.5.4. Door transfer grilles shown as typ “DG” unless otherwise specified shall be fire rated door grille. Nailor 61DGD-FR,

PART 3 EXECUTION

3.1. INSTALLATION

3.1.1. Refer to the Architectural Drawings for actual locations of diffusers, grilles and registers and install to suit these Drawings. The Mechanical Drawings show intent and number of diffusers, grilles and registers required.

3.1.2. Provide transfer grilles in all finished spaces where air is transferred though a ceiling or partition.

3.1.3. For exposed ductwork installations, all connections to grilles shall be oversized and shall have in-turned flanges to meet the flange of the grilles and the duct. Out-turned or exposed flanges with screw mounting shall not be accepted.

3.1.4. For special mounting of diffusers, grilles and registers refer to Architectural Drawings.

EQUIPMENT NO.			**KEU-1.1**	
System			Kitchen Ecogoly Unit	
Location			Ground Floor - Storage	
Service			Kitchen	
Airflow Rate	cfm	L/s	1,907	900
External Static Pressure	In H2O	Pa	1.0	249
Motor	hp	kW	10.00	7.46
Power	hp	kW	6.30	4.70
Electrical			208/3/60	
Full Load Amps	A		5.2	
Make			Halton	
Model			RAH 1.0 RH	
Blower Model			EBM 355	
Unit Weight	lbs		1194	
Remarks				

Smith + Andersen

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BID ADDENDUM

PROJECT NAME:	HEALH AND WELLNESS CENTRE RENOVATION AT KOFFLER
COMPANY:	ENFORM ARCHITECTS
ATTENTION:	Alan Fraser
PROJECT NO.: 21590.003.E.001	DATE: 2025-03-25
BID ADDENDUM NO.: #04	ISSUED BY: Wun Yan Chow

The following amendments are hereby made as part of the Contract Documents. The following revisions and/or additions shall be made to contract documents and the cost shall be included in the Tender Price.

1.0 RESPONSE TO RFI

1.1 Regarding RFI Items we have the following response:

Question	Answer
As per floor plan fixture L3A is 1' x 4' whereas fixture schedule description indicates it is 2' x 2' fixture. Pls. confirm size & type of fixture required on site.	Refer to revised luminaire schedule.
E401 – As per floor plan fixture L3B is 2' x 2' whereas fixture schedule description indicates it is 1' x 4' fixture. Pls. confirm size & type of fixture required on site.	Refer to revised luminaire schedule.
E402 – As per floor plan fixture L3B is 2' x 2' whereas fixture schedule description indicates it is 1' x 4' fixture. Pls. confirm size & type of fixture required on site.	Refer to revised luminaire schedule.
E403 - Need fixture schedule for fixture B5 shown at grid 14 / B-C	B5 tag has been revised to L2.
E403 – As per floor plan fixture L3B is 2' x 2' whereas fixture schedule description indicates it is 1' x 4' fixture. Pls. confirm size & type of fixture required on site.	Refer to revised luminaire schedule.
Q9. Please confirm if the cable tray shown on the Telecom 'TC' series drawings can be used to carry all A/V, Communication and Security cables too or it is dedicated to only comm division.	Cable tray may be used for communication and AV wiring. Security wiring shall be in conduit.
Please provide response to below RFI, • L3A and L3B Description on lighting schedule and actual on drawings is different. Please clarify • Please provide specs for B5 • Type B Fixture on schedule ask for 2 feet but on drawings measurement is 6 feet please clarify	1. Refer to revised luminaire schedule. 2. B5 tag has been revised to L2. 3. Type B fixture is three 2' fixtures connected end-to-end. Luminaire schedule updated to reflect this.

2.0 DRAWINGS

2.1 Refer to E022 IT/LAN ROOM PLANS (included herein)

2.1.1 Delete one (1) duplex and one (1) data outlet from plywood backboard. (Typ. of 5)

2.1.2 Revise one (1) L5-30R outlet to one (1) 5-15R outlet at data rack. (Typ. of 5)

2.1.3 Delete duplex/data outlet for security equipment on plywood backboard. (Typ. of 5)

2.1.4 Revise location of power of electric strike security door access (typ. 4).

2.1.5 Adjust location of security panel power (122, 238, 277, 325B, 399E)

2.2 Refer to E023 LUMINAIRE SCHEDULE (included herein)

2.2.1 Revised luminaire schedule.

2.3 Refer to E024 RISER DIAGRAM (included herein)

2.3.1 Revised lighting control device schedule.

2.3.2 Dimming wires to be provided for lighting fixtures to Encelium power pack(s) regardless if lighting zone is dimmed.

2.4 Refer to E031 PANEL SCHEDULE (included herein)

2.5 Revised panel schedules.

2.6 Refer to E032 PANEL SCHEDULE (included herein)

2.7 Revised panel schedules.

2.8 Refer to E033 PANEL SCHEDULE (included herein)

2.9 Revised panel schedules.

2.10 Refer to E301-M2 LEVEL 01 UPPER MEZZ - POWER PLAN (included herein)

2.10.1 Drawing added to show scope for mezzanine power.

2.10.2 Provide quad/data outlet in M201 for BAS workstation. Coordinate location on site with mechanical.

2.10.3 Provide power/data outlet in M202 for BAS controller. Coordinate location on site with mechanical.

2.11 Refer to E302 LEVEL 02 POWER PLAN (included herein)

2.11.1 Provide two (2) new outlets in Area 258.

2.11.2 Relocate power to security door access from #231B to #238. Refer to 3/E022.

2.11.3 Provide power/data outlet for BAS controller in #282. Coordinate location on site with mechanical prior to work commencing.

2.12 Refer to E305 ROOF – POWER PLAN (included herein)

2.12.1 Provide power/data outlet for BAS controller in penthouse 2, 3. Coordinate location on site with mechanical prior to work commencing.

2.13 Refer to E307 LEVEL 01 – PATHWAY LAYOUT (included herein)

2.13.1 Delete conduits from 1F up to 2F 231B.

2.14 Refer to E309 LEVEL 03 – PATHWAY LAYOUT (included herein)

2.14.1 Showing routing of cable tray. Refer to communications drawings for specifications.

2.15 Refer to E401 LEVEL 01 – LIGHTING PLAN (included herein)

2.15.1 Removed ALC/LCM/WM devices. Refer to E401-A for locations/qty.

2.16 Refer to E401-A LEVEL 01 – LIGHTING CONTROL PLAN (included herein)

2.16.1 Revised lighting controls throughout.

2.17 Refer to E402 LEVEL 02 – LIGHTING PLAN (included herein)

2.17.1 Removed ALC/LCM/WM devices. Refer to E402-A for locations/qty.

2.17.2 Revised lighting in #254.

2.18 Refer to E402-A LEVEL 02 – LIGHTING CONTROL PLAN (included herein)

2.18.1 Revised lighting controls for throughout.

2.18.2 Provide LCM for lighting in 230.

2.18.3 Revised LCM to ALC throughout.

2.18.4 Revised lighting control for exam/counseling rooms.

2.18.5 Revised sequence of operations.

2.19 Refer to E403 LEVEL 03 – LIGHTING PLAN (included herein)

2.19.1 Clarify lighting fixture type in #371.

2.19.2 Removed ALC/LCM/WM devices. Refer to E403-A for locations/qty.

2.19.3 Delete one (1) L8 fixture and shit one (1) L8 fixture in 396.

2.20 Refer to E403-A LEVEL 03 – LIGHTING CONTROL PLAN (included herein)

2.20.1 Revised lighting control for smaller/individual rooms throughout.

2.20.2 Provide LCM for lighting in 230.

2.20.3 Revised LCM to ALC throughout.

2.20.4 Revised lighting control for exam/counseling rooms.

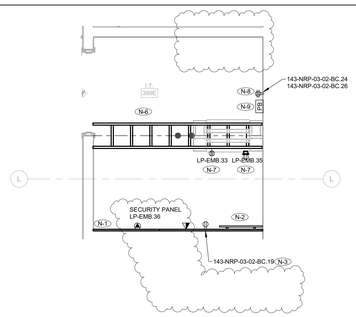
2.20.5 Revised sequence of operations.

3.0 CLARIFICATION

3.1.1 Coordination

END OF ELECTRICAL BID ADDENDUM

21590.003.E.001.a004



DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

N-2 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD . BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-4 NOT USED.

N-5 NOT USED.

N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

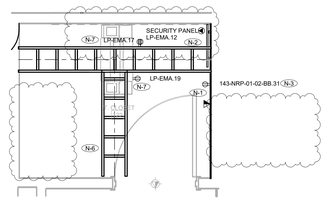
N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 ONE (1) QUAD RECEPTACLED FOR AV EQUIPMENT.

N-9 SUITABLY SIZED PULL BOX FOR REQUIRED CONDUITS. REFER TO AV DRAWINGS FOR ADDITIONAL INFORMATION.

N-10 COORDINATE POWER CONNECTION REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.

4 E022 I.T. CLOSET 399E LAYOUT
SCALE: 1:25



DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

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N-4 NOT USED.

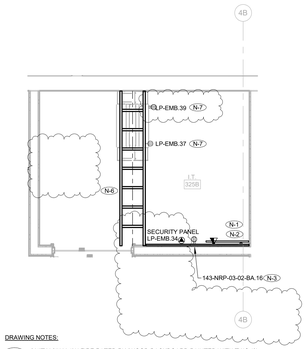
N-5 NOT USED.

N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 COORDINATE POWER CONNECTION REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH-IN.

1 E022 I.T. CLOSET 122 LAYOUT
SCALE: 1:25



DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

N-2 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD . BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-4 NOT USED.

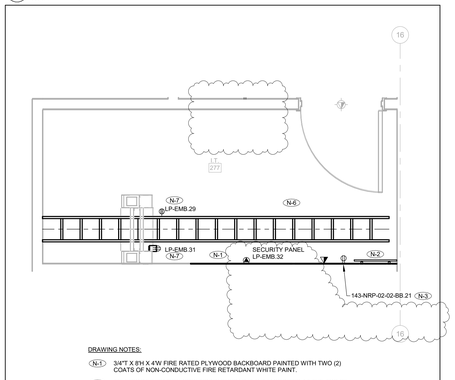
N-5 NOT USED.

N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 COORDINATE POWER CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

5 E022 I.T. 325B LAYOUT
SCALE: 1:25



DRAWING NOTES:

N-1 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT.

N-2 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD . BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-4 NOT USED.

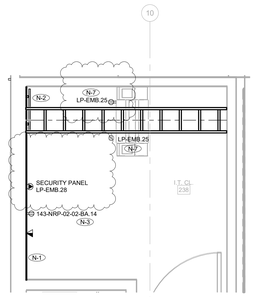
N-5 NOT USED.

N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 COORDINATE POWER CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

2 E022 I.T. 277 LAYOUT
SCALE: 1:25



DRAWING NOTES:

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N-3 ONE (1) 5-20R DUPLEX RECEPTACLE AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-4 NOT USED.

N-5 NOT USED.

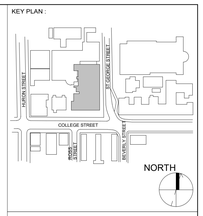
N-6 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR. PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-7 ONE (1) L5-30R AND ONE (1) 5-15R RECEPTACLES ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-8 COORDINATE POWER CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

3 E022 I.T. CL 238 LAYOUT
SCALE: 1:25

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2024-12-23	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

IT/LAN ROOM PLANS

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 25

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO :
E022

REV :
10

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Section 26 06 05.16 - LUMINAIRE SCHEDULE

Project Name:

Project number:

File Name: Koffler Luminaire Schedule_21.03.2025'

Smith + Andersen

TYPE	VOLT.	LAMP(S)	DIMENSIONS	DESCRIPTION	DRIVERS/POWER SUPPLY	MANUFACTURER/CATALOGUE NUMBER	MINIMUM PERFORMANCE REQUIRED (DELIVERED)	LOCATED
LED: AMBIENT / GENERAL PURPOSE LIGHTING								
L1	120V	LED 10W/ft 3500 K 90 CRI	W: 3.5" H: 4" L: Varies.	**Suspended 2" Direct LED Linear With Diffuse Lens.** Row mounted installation in various lengths. Extruded aluminum housing. White, black, and grey finishes are standard. Regressed opalized lens for minimization of glare and diffuse lighting optic. To be suspended using aircraft cable and recessed canopy. Certified to UL and CUL standards. **Architect to confirm finishes and mounting heights prior to ordering.**	0-10V dimming driver	**Edison /** ED VECTOR 2+ (10W-DD-120V-DL-SX-OR-xx-35K/90CRI)	1030 lumens/ft	**Wood Slat Ceilings**
L1A	120V	LED 10W/ft 3500 K 90 CRI	W: 2.56" H: 2.75" L: Varies.	**Recessed 2" Direct LED With Diffuse Lens and Trim.** Row mounted installation in various lengths. Extruded aluminum housing. White, black, and grey finishes are standard. Regressed opalized lens for minimization of glare and diffuse lighting optic. Certified to UL and CUL standards. **Architect to confirm finishes prior to ordering.**	0-10V dimming driver	**Edison /** ED VECTOR+ (10W-DD-120V-DL-RS-OP-xx-35K/90CRI)	1030 lumens/ft	**Drywall Ceilings**
L1B	120V	LED 10W/ft 3500 K 90 CRI	W: 2.56" H: 2.75" L: Varies.	**Recessed 2" Direct LED With Diffuse Lens and Trim - Continuous Pattern.** Row mounted installation in various lengths. Extruded aluminum housing. White, black, and grey finishes are standard. Regressed opalized lens for minimization of glare and diffuse lighting optic. Certified to UL and CUL standards. Architect to confirm finishes prior to ordering.	0-10V dimming driver	**Edison /** ED VECTOR+ (10W-DD-120V-DL-RS-OP-xx-35K/90CRI)	1030 lumens/ft	**Feature Corridor**
L2	UNV	LED 11W 3500 K 90 CRI	Dia: 5" H: 5/8"	**5" Round Surface-Mounted Slim LED Downlight.** 5/8" profile appears recessed. Installs into most standard j-boxes. One piece flange injection molded white (aluminum or black finish available). High transmittance diffuse lens. Non-conductive fixture for shower light applications. Certified to UL and CUL standards. Energy Star Certified. Damp Location Rated. **Architect to confirm finishes prior to ordering.**	0-10V dimming driver	**Lightolier /** SlimSurface (S5R-9-35K-7-xx-Z10U)	650 lumens	**Corridors**
L3	UNV	LED 42 W 3500 K 90 CRI	W: 2' L: 4' H: 2.25"	**Slim 2'x4' Flat Panel LED with Configurable CTT.** Robust die-formed steel back plate to ensure durability. Aluminum frame weld and ground for seamless appearance. Certified to UL and CUL standards. Damp Location Rated. **Architect to confirm finishes and mounting kit prior to ordering.**	0-10V dimming driver	**Metalux /** CGTX Panel (24-CGTX-55HE-L935-HCD)	2364 lumens	**T-Bar Ceiling**
L3A	UNV	LED 40 W 3500 K 90 CRI	W: 1' L: 4' H: 2.25"	**Slim 1'x4' Flat Panel LED with Configurable CCT.** Robust die-formed steel back plate to ensure durability. Aluminum frame weld and ground for seamless appearance. Certified to UL and CUL standards. Damp Location Rated. **Architect to confirm finishes and mounting kit prior to ordering.**	0-10V dimming driver	**Metalux /** CGTX Panel (14-CGTX-70HE-L935-HCD)	4252 lumens	**T-Bar Ceiling**
L3B	UNV	LED 53 W 3500 K 90 CRI	W: 2' L: 2' H: 2.25"	**Slim 2'x2' Flat Panel LED with Configurable CCT.** Robust die-formed steel back plate to ensure durability. Aluminum frame weld and ground for seamless appearance. Certified to UL and CUL standards. Damp Location Rated. **Architect to confirm finishes and mounting kit prior to ordering.**	0-10V dimming driver	**Metalux /** CGTX Panel (22-CGTX-45HE-L935-HCD)	5583 lumens	**T-Bar Ceiling**
L4	120V	LED 10 W 3500 K 90 CRI	W:7.09" H: 6" L:7.09"	**Adjustable Recessed Square LED Downlight.** High efficiency metalized integral reflector. Spot 25 degree beam optic. Adjustable trim assembly can be tilted up to 25 degrees in both directions. Suitable for recessed non insulated ceilings and dry locations. **Certified to CSA and UL Standards. Architect to confirm finishes prior to**	0-10V dimming driver	**Edison /** TS+ (1x-Single-10W-DD-120V-DL-RT-SP-xx-35K/90CRI)	1050 lumens	**Elevator Lobby**
L5	24V	LED 6.2 W/ft 3500 K 90 CRI	W:16 mm H: 13.8 mm L: Varies	**Linear LED Cove Light Strip.** Opalized lens for diode-free illumination. Seamless snap-together installation. IP20 rated for damp locations. Closet approved. 120 degree diffuse beam angle. Aluminum finish. Certified to UL and CUL standards.	0-10V dimming driver	**Feelux /** FLX Stix HDPro (HDP-35K-C90-SF-STD-V-xx-HW-FDC)	408 lumens/ft	**Cove / Under Cabinet**

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Section 26 06 05.16 - LUMINAIRE SCHEDULE

Project Name:

Project number:

File Name: Koffler Luminaire Schedule_21.03.2025'

Smith + Andersen

TYPE	VOLT.	LAMP(S)	DIMENSIONS	DESCRIPTION	DRIVERS/POWER SUPPLY	MANUFACTURER/CATALOGUE NUMBER	MINIMUM PERFORMANCE REQUIRED (DELIVERED)	LOCATED
L6	24 V	LED 4.4 W/ft 3500 K 90 CRI	W:15 mm H: 15 mm L: Varies	Bendable LED Cove Light Tape. Opalized lens for diode free illumination. UV resistant silicon material. Dual Bend. Field Cuttable. 120 degree light output. Maximum length of 5m. IP65 with field termination.	0-10V dimming driver	Feelux / FN 3D - 35K-C90-xx-EXL-FLEX-HW-0-10V-120V	258 Lumens/ft	**Smudging Room**
L7	100-277 VAC	LED 52 W 4000 K 90 CRI	W:1.57" H:1.97" L: 47.75"	**Linear 100x100 Degree LED Grazer**. Extruded anodized aluminum housing with white powder-coated finish. Polycarbonate lens. Fixtures are connected end-to-end. Rated IP20 for Dry/Damp Locations. Certified to UL to cUL standards. **To be mounted on custom bracket.**	DMX remote dimming driver	**ColorKinetics /** Pure Style IntelliHue Powercore 100x100 (123-000025-03)	2600 lumens	**LEVEL 3 Truss Ceiling**
L8	UNV	LED 6.8 W 3500 K (selectable) 90 CRI	W: 4.37" H: 0.42" L: 18"	**Surface Mounted LED Under Cabinet Lighting**. Fixture has 5 selectable temperatures from 2700K-5000K. Extruded aluminum housing and color-matched end **caps with a sleek over-all height of only 3/4". UL and cUL certified. Damp location rated. Architect to confirm fixture finishes prior to ordering.**	ELV/TRIAC dimming driver with Integral Switching	Halo / HU30M-SCTD-18-P-x		**Under Cabinet - Sinks**
L9	UNV	LED 19.8 W 3500 K 95 CRI	Dia: 4.92" H: 8.66"	**Narrow Beam LED Surface Mounted Cylinder**. Faceted and smooth reflector with an 18 degree beam optic. Extruded aluminum cylinder housing. Monopoint surface mounted connection. UL listed. Architect to confirm finishes prior to ordering.	0-10V remote dimming driver	**Senso** / Leto 11 (SM-20-35K-F18-NA-xx)	1917 lumens	**LEVEL 3 Truss Ceiling**
LED: EXTERIOR LIGHTING								
G1	120V	LED 21 W 3500 K 80 CRI	W: 3.94" H: 3.94" L: 10.63"	**Outdoor LED Wall-Mount.** IP66, Class 1, IKO8. Marine-grade die-cast aluminum alloy housing. Safety glass lens. Rectangular asymetric Type II optic. ADA compliant. Architect to confirm finishes prior to ordering.	0-10V integral dimming driver	**WE-EF /** RLS420 131-9982	1397 lumens	**Exterior Lighting**
G2	120V	LED 5.6 W 3500 K 80 CRI	W: 3.94" H: 3.62" L: 9.84"	**Outdoor LED Step-Light.** IP66, Class 1, IKO8. Marine-grade die-cast aluminum alloy housing. Safety glass lens. Rectangular asymetric Type II optic. ADA compliant. Architect to confirm finishes prior to ordering.	0-10V remote dimming driver	**WE-EF /** STI259-LDL18 1130-0405	178 lumens	**Exterior Lighting**
LED: EMERGENCY LIGHTING								
B	UNV	LED 84 W 3500 K >80 CRI	W: 15-13/64" H: 5-3/4" L: See Architectural Drawings (2' fixtures connected end-to-end)	**2' Tamper Resistant LED Vaportite connected end to end .** Compact and durable fiberglass reinforced polyester housing. Frosted lens made from high impact polycarbonate. Wet location and rated up to IP69 and NEMA 4X. High perfomance efficacy. **NOTE: Three fixtures to be connected end to end..**	Emergency Only	**Cooper /** VRVT4S-12-DRF-UNV-EL10W-2-WL	12000 lumens	**Elevator Pit**

NOTES:-

1. All luminaires need to be consistent on technology and must match reference standard description regardless of catalogue number. Where finishes are not indicated, allow for special finish. Manufacturer/Catalogue number not listed will not be considered.

2. The Electrical Contractor is responsible for the supply and installation of all fixed per unit cost luminaires as part of the base electrical contract. The Electrical Contractor is responsible for the installation of all cash allowance luminaires as part of the base electrical contract. Refer to specification 16505 or 26 51 13.00 for more details..

3. LEDs are to be latest technology to proved maximum lumens, binned, best colour and longest life at time of purchase. Drivers are to be the latest technology at time of purchase.

4. LED luminaire dimensions listed are the maximum size allowed. Luminaires provided can be smaller than the dimension listed.

5. All luminaire diameters and depths listed are the maximum size allowed. Luminaires provided can be smaller than the dimension listed.

6. All LED luminaires that present signs of failure on site, within the warranty period, must be replaced at no cost to the owner. If temporary luminaires are required to replace any failed LED luminaires, during the waiting time for parts (i.e. drivers, boards, heat sinks, etc.), the labour cost including installation,

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Section 26 06 05.16 - LUMINAIRE SCHEDULE

Project Name:

Project number:

File Name: Koffler Luminaire Schedule_21.03.2025'

Smith + Andersen

TYPE	VOLT.	LAMP(S)	DIMENSIONS	DESCRIPTION	DRIVERS/POWER SUPPLY	MANUFACTURER/CATALOGUE NUMBER	MINIMUM PERFORMANCE REQUIRED (DELIVERED)	LOCATED

temporary luminaire supply, temporary luminaire removal and reinstallation of the LED fixture must be provided at no cost to the owner. Additional electrical costs, associated with higher wattage temporary luminaires, must be reimbursed with interest to the owner by the manufacturer.

7. In case of failure of an LED luminaire, whether complete failure or partial failure, a independent third party testing Laboratory (approved by Smith + Andersen) shall be commissioned by the manufacturer or vendor to perform tests on samples taken from the failed luminaires installed on corresponding site. All reporting including the test results must be submitted to Smith + Andersen for evaluation and final approval.

8. Any additional time (related to luminaire manufacturing issues) spent by Smith + Andersen will be billed at our hourly rates to the manufacturer or vendor.

9. All LED parts and accessories must be replaceable on site without removal of the luminaire.

10. Equivalents will only be considered at Smith + Andersen discretion prior to tender close. Sample must be supplied with plug and cord for mock-up.

11. When a mock-up is requested, the full order of luminaires are on hold until approval and verification of the mock-up findings.

12. Poles and bases are to be designed to accommodate wind conditions to avoid damage due to wind-induced vibrations. Shop Drawings are to be signed by a structural engineer registered in the local jurisdiction.

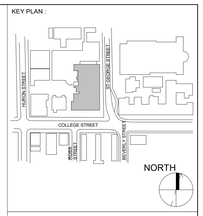
13. Alternates are acceptable for all luminaires under the Ambient / General Purpose Lighting and Landscape / Exterior - General Purpose sections.

14. Alternates are not acceptable for all luminaires under the Specialty / Decorative / High Performance or Landscape / Exterior - Specialty / Decorative / High Performance sections.

15. Be responsible for providing the required quantity of LED drivers to suit the luminaire layout shown on the Drawings.

16. Where continuous LED linear luminaires cross from interior to exterior spaces, provide separate drivers for the interior and exterior portions of the continuous run.

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2024-12-23	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LUMINAIRE SCHEDULE

PROJECT NUMBER :
21590.003

DRAWING SCALE :

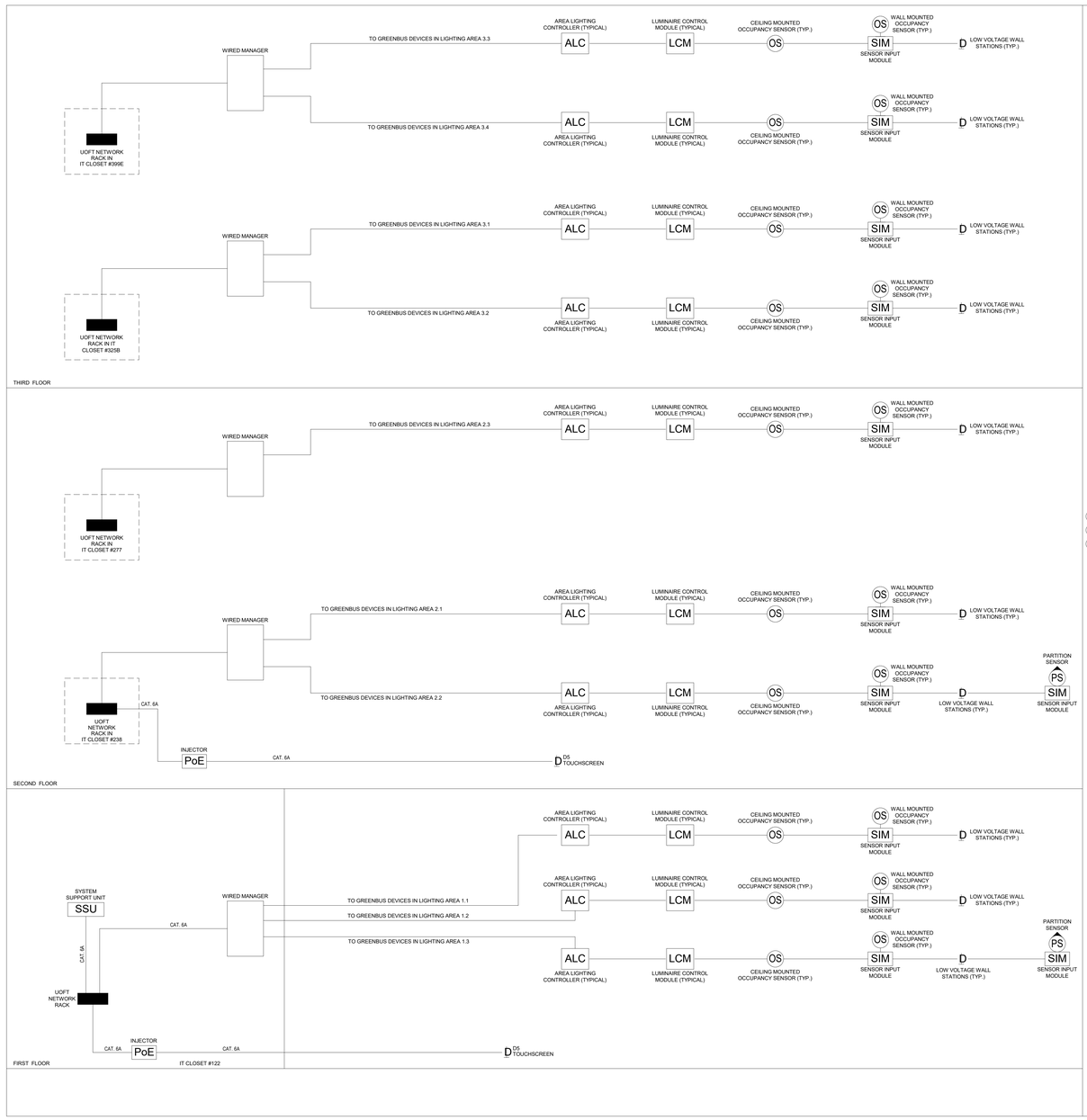
DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E023**

REV : **10**

LIGHTING CONTROL DEVICE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER/CATALOGUE NO
OS A	24V DUAL TECH LOW VOLTAGE OCCUPANCY SENSOR	WATTSTOPPER DT-305 C/W ENCELIUM SENSOR INTERFACE MODULE
OS	ENCELIUM WIRED OCCUPANCY SENSOR	56356-EN-SCPPH-1500-GB2
OS HB	ENCELIUM WIRED HIGH BAY OCCUPANCY SENSOR	56357-EN-SCPPH-HB-GB2
D	ENCELIUM 3 SCENE WALL STATION	ENCELIUM EN-WS-SC3-GB2-WH
D_{D2}	ENCELIUM 5 SCENE WALL STATION	ENCELIUM EN-WS-SC5-GB2-WH
D_{D3}	ENCELIUM WALL DIMMER	ENCELIUM EN-WS-4B-GB2-WH
D_{D4}	ENCELIUM WALL SWITCH (ON/OFF ONLY)	ENCELIUM EN-WS-2B-GB2-WH
D_{D5}	ENCELIUM TOUCHSCREEN	ENCELIUM KX4
OS	WALL MOUNTED OCCUPANCY SENSOR	WATTSTOPPER DW-100-24-W C/W ENCELIUM SENSOR INTERFACE MODULE
WM	WIRED MANAGER	EN-M-GB2-X (X); EN-ECU-G4-P3D (EXTEND)
ALC	AREA LIGHTING CONTROLLER	ENCELIUM EN-ALC-1R10V-GB2-BK
LCM	LIGHTING CONTROL MODULE	ENCELIUM EN-LCM-1R10V-GB2-BK



GENERAL NOTE:

1. ENCELIUM LIGHTING CONTROL SYSTEM IS A LONG LEAD ITEM. THE EXPECTED DELIVERY TIME CAN VARY BETWEEN 3 TO 6 MONTHS. CONTRACTOR IS ADVISED TO REVIEW THE DRAWINGS AND PLACE PURCHASE ORDER AS SOON AS POSSIBLE AFTER AWARDING THE CONTRACT IN ORDER TO AVOID ANY DELAYS TO PROJECT SCHEDULE.
2. REFER TO ELECTRICAL SPECIFICATION AND ALLOW FOR ADDITIONAL VISITS OF LIGHTING CONTROLS SPECIALIST AS REQUIRED. INCLUDE ALL ASSOCIATED COST IN TENDER PRICE AS REQUIRED.

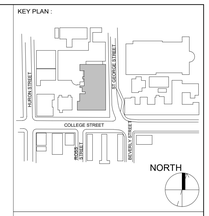
LIGHTING CONTROL NOTES:

1. EXACT LOCATION OF DEVICES TO BE CONFIRMED ON SITE.
2. PROVIDE ENGRAVING KIT FOR ALL WALL BUTTONS, AS REQUIRED.
3. DEVICES IN EACH ROOM SHALL OPERATE WITH OPEN TOPOLOGY AND CAN BE REARRANGED.
4. PROVIDE STAINLESS STEEL COVER PLATE FOR WALL STATIONS.
5. ALL CONTROL DEVICES TO BE INSTALLED WITHIN BACKBOXES AS REQUIRED.
6. ALL LOW VOLTAGE AND CONTROL WIRING SHALL BE INSTALLED INSIDE EMT CONDUITS.
7. CONTRACTOR MUST ADHERE TO ENCELIUM DRAWINGS. ANY MODIFICATIONS TO ENCELIUM DRAWINGS REQUIRE FACTORY APPROVAL.
8. SENSORS MUST BE INSTALLED AS PER INDUSTRY STANDARD. REFER TO MANUFACTURER INSTRUCTION SHEET INCLUDED WITH SENSOR HARDWARE. - ALL SENSORS MUST BE MOUNTED AT LEAST 6 FEET AWAY FROM AIR VENTS & HEAT EXCHANGERS.
9. UNLESS OTHERWISE NOTED, ALL SENSORS WILL OPERATE AUTO ON, AUTO OFF WITH A TIMEOUT OF 11 MINUTES.
10. UNLESS OTHERWISE NOTED, ALL ENCELIUM WIRED MANAGERS SHOULD BE CONNECTED TO NORMAL POWER.
11. COORDINATE WITH ENCELIUM TECHNICIAN TO ASSIGN SWITCHES TO THE RESPECTIVE FIXTURE GROUPING, AS INDICATED ON LIGHTING ZONES LAYOUTS.
12. ENCELIUM WIRED MANAGER (M), SYSTEM SUPPORT UNIT (SSU) AND WIRELESS MANAGER (WM) IS TO BE CONNECTED TO F&S NETWORK. ONE IP ADDRESS PER DEVICE MUST BE PROVIDED TO ENCELIUM PRIOR TO SYSTEM START UP.
13. NETWORK RUNS MUST NOT EXCEED 100M (328FT.). ANY MODIFICATIONS TO ENCELIUM DRAWINGS REQUIRE FACTORY APPROVAL.
14. REFER TO THE ENCELIUM CONTRACTOR'S INSTALLATION GUIDE FOR SYSTEM INFORMATION, CUT SHEETS, AND WIRING DIAGRAMS.
15. SYSTEM NEEDS TO BE TESTED PRIOR TO REQUESTING SYSTEM STARTUP SERVICES. PLEASE REFER TO ENCELIUM CONTRACTOR MANUAL FOR TESTING PROCEDURE USING GREENBUS II TESTER AND/OR EEM G4 INSTALLATION MODE.
16. END USER NETWORK ACCESS TO THE ENCELIUM SERVER (SSU) MUST BE ARRANGED PRIOR TO SYSTEM TRAINING.
17. ENCELIUM PHASE CUT DIMMING MODULE (PCDM) HAS A MAXIMUM OUTPUT RATING OF: 120 VAC: 450W, 3.8A MAX.
18. USE MINIMUM 3/4" CONDUIT FOR GREENBUS CABLING.
19. ALLOW FOR THE COST TO PROVIDE POE INJECTORS AS REQUIRED.
20. ALLOW FOR SYSTEM INTEGRATION TO UofT ENCELIUM SERVER (INCLUDING BUT NOT LIMITED TO GRAPHIC SET-UP, DATA COLLECTION, ETC.).
21. DIMMING WIRING SHALL BE PROVIDED IF FIXTURE COMES WITH DIMMABLE DRIVER.
22. REFER TO LIGHTING CONTROL PLANS FOR DEVICE TYPES.

PARTITION SENSORS NOTES:

1. THE PARTITION SENSOR MUST PROVIDE A 'HIGH' SIGNAL WHEN AT CLOSED STATE AND THE ROOMS SHOULD ACT/OPERATES SEPARATELY.
2. THE PARTITION SENSOR MUST PROVIDE A 'LOW' SIGNAL WHEN AT OPEN STATE AND THE ROOMS SHOULD ACT/OPERATES COMBINED.

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
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10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS

RISER DIAGRAM

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1 : 100**

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E024**

REV : **10**

BLDG #: 143 PANEL TAG: 143-NRP-03-02-BA — UNIVERSITY OF TORONTO — DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number(s)):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number(s)):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
450	0.60	270	RECEPT., 324	15	1 A	2	15	RECEPT., 320, 322, 324	450	0.60	270
450	0.60	270	RECEPT., 322	15	3 B	4	15	RECEPT., 307, 320K, 325V	450	0.60	270
450	0.60	270	RECEPT., 320	15	5 C	6	15	RECEPT., 323	600	0.60	360
600	0.60	360	RECEPT., 323	15	7 A	8	15	RECEPT., 323	600	0.60	360
300	0.60	180	RECEPT., 323	15	9 B	10	15	RECEPT., 323	600	0.60	360
600	0.60	360	RECEPT., 323	15	11 C	12	15	RECEPT., 323	300	0.60	180
200	0.60	120	ADO, 320K	15	13 A	14	15	RECEPT., 323	600	0.60	360
180	0.60	300	ROOFTOP RECEPTACLE; ROOF	20	15 B	16	20	RECEPT., 325B	450	1.00	450
		0	SPARE	15	17 C	18	20	SPARE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 325 NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BA	143	325	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NRP-03-02-BA

6 / E031 PANEL 143-NRP-03-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-02-02-BA — UNIVERSITY OF TORONTO — DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number(s)):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number(s)):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
150	0.60	90	RECEPT., 231	15	1 A	2	15	ADO, 231	100	0.60	60
600	0.60	360	RECEPT., 231	15	3 B	4	15	MOTORIZED SHADES, 231, 233	1200	0.60	720
600	0.60	360	RECEPT., 233	15	5 C	6	15	ADO, 233, 235	100	0.60	60
300	0.60	180	RECEPT., 233	15	7 A	8	15	MOTORIZED SHADES, 235	200	0.60	120
150	0.60	90	RECEPT., 231	15,GFI	9 B	10	15	ADO, 237A, 237B	200	0.60	120
600	0.60	360	RECEPT., 231	15	11 C	12	15	MOTORIZED SCREEN., 231,233	1200	0.60	720
150	0.60	90	RECEPT., 231	20,GFI	13 A	14	20	RECEPT., 238	500	0.60	300
450	0.60	270	RECEPT., 230K	15	15 B	16	15	SPARE			0
300	0.60	180	RECEPT., 235	15	17 C	18	20	RECEPT., 238	500	0.60	300
600	0.60	360	RECEPT., 235	15	19 A	20	15	SPARE			0
300	0.60	180	RECEPT., 235	15	21 B	22	15	SPARE			0
300	0.60	180	RECEPT., 236	20	23 C	24	15	SPARE			0
450	0.60	270	RECEPT., 236	15	25 A	26	15	SPARE			0
450	0.60	270	RECEPT., 237A, 237B, 237C	15,GFI	27 B	28	15	SPARE			0
300	0.60	180	RECEPT., 237	15	29 C	30		SPACE			0
300	0.60	180	RECEPT., 237	15	31 A	32		SPACE			0
150	0.60	90	RECEPT., 237	20,GFI	33 B	34		SPACE			0
450	0.60	270	RECEPT., 237	15	35 C	36		SPACE			0
150	0.60	90	RECEPT., 237A	20	37 A	38		SPACE			0
150	0.60	90	SECURITY PANEL, 233A	15	39 B	40		SPACE			0
600	0.60	360	RECEPT., 237	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 231B NEW TAG: N/A

RATINGS: 125A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	2744	125A/3P	4 #1 AWG + # 6 AWG IN 2"C

143-NRP-02-02-BA.xlsx

4 / E031 PANEL 143-NRP-02-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-01-02-BA — TORONTO — DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number(s)):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number(s)):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
450	0.60	270	RECEPT., 114	15	1 A	2	20	RECEPT., 119	300	0.60	180
300	0.60	180	RECEPT., 114	20	3 B	4	20	RECEPT., 119	150	0.60	90
450	0.60	270	RECEPT., 114	15	5 C	6	20	RECEPT., 119	150	0.60	90
300	0.60	180	RECEPT., 112	15	7 A	8	2P		150	0.60	90
300	0.60	180	RECEPT., 112	15	9 B	10	20	RECEPT., 119	300	0.60	180
300	0.60	180	RECEPT., 106	15	11 C	12	2P		300	0.60	180
300	0.60	180	RECEPT., 106	15	13 A	14	20	RECEPT., 119	150	0.60	90
300	0.60	180	RECEPT., 106	15	15 B	16	2P		150	0.60	90
300	0.60	180	RECEPT., 106, 115K	15	17 C	18	15,GFI	RECEPT., 119	300	0.60	180
150	0.60	90	RECEPT., 115K	15	19 A	20	15,GFI	RECEPT., 119	300	0.60	180
150	0.60	90	RECEPT., 107A	20	21 B	22	15	RECEPT., 119	150	0.60	90
150	0.60	90	RECEPT., 107B	15	23 C	24	15	DIRECT CONNECTION, 119	100	0.60	60
600	0.60	360	RECEPT., 107	15	25 A	26	15	RECEPT., 100E	100	0.60	60
300	0.60	180	RECEPT., 107	15	27 B	28	30	TRENCH DRAIN SYSTEM	2290	0.50	1145
600	0.60	360	RECEPT., 107	15	29 C	30	15	ADO., 115	200	0.60	120
600	0.60	360	RECEPT., 107	15	31 A	32	15	ADO., 100V	200	0.60	120
450	0.60	270	RECEPT., 107, 115K	15	33 B	34	15	ADO., 107	200	0.60	120
750	0.60	450	RECEPT., 113	15	35 C	36	15	ADO., 106	100	0.60	60

BLDG: 143 FLOOR: 1 ROOM: 107B NEW TAG: N/A

RATINGS: 100 A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	PP-GP	143	B013	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
300	0.60	180	RECEPT., 115	15	37 A	38		SPACE			0
450	0.60	270	RECEPT., 115	15	39 B	40		SPACE			0
300	0.60	180	RECEPT., 115	15	41 C	42		SPACE			0
300	0.50	150	MOT. PARTITION	15	43 A	44		SPACE			0
		0	SPARE	15	45 B	46		SPACE			0
		0	SPARE	15	47 C	48		SPACE			0
		0	SPARE	15	49 A	50		SPACE			0
		0	SPARE	15	51 B	52		SPACE			0
		0	SPARE	15	53 C	54		SPACE			0
		0	SPARE	15	55 A	56		SPACE			0
		0	SPARE	15	57 B	58		SPACE			0
		0	SPARE	15	59 C	60		SPACE			0
		0	SPARE	15	61 A	62		SPACE			0
		0	SPARE	15	63 B	64		SPACE			0
		0	SPARE	15	65 C	66		SPACE			0
		0	SPARE	15	67 A	68		SPACE			0
		0	SPARE	15	69 B	70		SPACE			0
		0	SPARE	15	71 C	72		SPACE			0

143-NRP-01-02-BA.xlsx

1 / E031 PANEL 143-NRP-01-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-03-02-BB — TORONTO — DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number(s)):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number(s)):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
300	0.60	180	RECEPT., 360	15	1 A	2	20	RECEPT., 367	150.00	0.60	90
300	0.60	180	RECEPT., 360	15	3 B	4	20	RECEPT., 367	150.00	0.60	90
600	0.60	360	RECEPT., 363	15	5 C	6	20	RECEPT., 367	150.00	0.60	90
300	0.60	180	RECEPT., 363	15	7 A	8	15	SPACE			0
300	0.60	180	RECEPT., 365, 367	15	9 B	10	20	RECEPT., 369	150.00	0.60	90
450	0.60	270	RECEPT., 369K, 379	15	11 C	12	20	RECEPT., 369	150.00	0.60	90
450	0.60	270	RECEPT., 369, 370K	15	13 A	14	15	RECEPT., 369	150.00	0.60	90
600	0.60	360	RECEPT., 379	15	15 B	16	20	RECEPT., 369	150.00	0.60	90
150	0.60	90	RECEPT., 371	15	17 C	18	20	RECEPT., 369	150.00	0.60	90
600	0.60	360	RECEPT., 377	15	19 A	20	20	RECEPT., 369	150.00	0.60	90
600	0.60	360	RECEPT., 379	15	21 B	22	15	RECEPT., 381, 383, 385	450	0.60	270
450	0.60	270	RECEPT., 381	15	23 C	24	15	RECEPT., 387, 389	300	0.60	180
300	0.60	180	RECEPT., 381, 383	15	25 A	26	15	RECEPT., 388, 389	300	0.60	180
450	0.60	270	RECEPT., 383	15	27 B	28	15	RECEPT., 388	450	0.60	270
450	0.60	270	RECEPT., 385	15	29 C	30	15	RECEPT., 386, 388	300	0.60	180
300	0.60	180	RECEPT., 385, 387	15	31 A	32	15	RECEPT., 386	450	0.60	270
450	0.60	270	RECEPT., 387	15	33 B	34	15	RECEPT., 384, 386	300	0.60	180
450	0.60	270	RECEPT., 364	15	35 C	36	15	RECEPT., 384	450	0.60	270

BLDG: 132 FLOOR: 3 ROOM: 359A NEW TAG: N/A

RATINGS: 125 A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BC	143	274	125A/3P	4 #1 AWG + # 6 AWG IN 2"C

143-NRP-03-02-BB.xlsx

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
300	0.60	180	RECEPT., 364, 366	15	37 A	38	15	RECEPT., 380, 382, 384	450	0.60	270
300	0.60	180	RECEPT., 364, 366	15	39 B	40	15	RECEPT., 382	150	0.60	90
450	0.60	270	RECEPT., 366	15	41 C	42	15	RECEPT., 378, 380, 382	450	0.60	270
450	0.60	270	RECEPT., 368	15	43 A	44	15	RECEPT., 380	450	0.60	270
300	0.60	180	RECEPT., 368, 370	15	45 B	46	15	RECEPT., 376, 378, 380	450	0.60	270
300	0.60	180	RECEPT., 368, 370	15	47 C	48	15	RECEPT., 378	450	0.60	270
450	0.60	270	RECEPT., 370	15	49 A	50	15	RECEPT., 376, 378	300	0.60	180
150	0.60	90	RECEPT., 372	15	51 B	52	15	RECEPT., 376, 378	450	0.60	270
600	0.60	360	RECEPT., 374	15	53 C	54	15	ADO 270K	200	0.60	120
150	0.60	90	RECEPT., 362	15	55 A	56	15	HEAT TRACE, 360V	100	0.60	60
		0	SPARE	15	57 B	58		SPACE			0
		0	SPARE	15	59 C	60		SPACE			0
		0	SPARE	15	61 A	62		SPACE			0
		0	SPARE	15	63 B	64		SPACE			0
		0	SPARE	15	65 C	66		SPACE			0
		0	SPARE	15	67 A	68		SPACE			0
		0	SPARE	15	69 B	70		SPACE			0
		0	SPARE	15	71 C	72		SPACE			0

143-NRP-03-02-BB.xlsx

7 / E031 PANEL 143-NRP-03-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-02-02-BB — TORONTO — DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION (Item, Room Number(s)):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number(s)):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
150	0.60	90	RECEPT., 280	15	1 A	2	15	RECEPT., 271	300	0.60	180
150	0.60	90	RECEPT., 280	20	3 B	4	15	RECEPT., 271	300	0.60	180
150	0.60	90	RECEPT., 280	20	5 C	6	15	RECEPT., 267, 269	300	0.60	180
150	0.60	90	RECEPT., 280	15	7 A	8	15	RECEPT., 269	450	0.60	270
150	0.60	90	RECEPT., 280	15	9 B	10	15	RECEPT., 267	450	0.60	270
450	0.60	270	RECEPT., 280	15	11 C	12	15	RECEPT., 261, 263, 265	450	0.60	270
300	0.60	180	RECEPT., 280	15	13 A	14	15	RECEPT., 265	450	0.60	270
300	0.60	180	RECEPT., 280	15	15 B	16	15	RECEPT., 263	450	0.60	270
300	0.60	180	RECEPT., 245K, 277K	15	17 C	18	15	RECEPT., 261	450	0.60	270
150	0.60	90	RECEPT., 274	15	19 A	20	15	RECEPT., 255, 257, 259	450	0.60	270
450	0.60	270	RECEPT., 277	20	21 B	22	15	RECEPT., 259	450	0.60	270
450	0.60	270	RECEPT., 277	20	23 C	24	15	RECEPT., 257	450	0.60	270
100	0.50	200	RECEPT., 258	15	25 A	26	15	RECEPT., 255, 257, 259	450	0.60	270
600	0.60	360	RECEPT., 273	15	27 B	28	15	RECEPT., 253	450	0.60	270
300	0.60	180	RECEPT., 273	15	29 C	30	15	RECEPT., 253	600	0.60	360
450	0.60	270	RECEPT., 272	15	31 A	32	15	RECEPT., 251	150	0.60	90
300	0.60	180	RECEPT., 270, 272	15	33 B	34	15	RECEPT., 249	450	0.60	270
300	0.60	180	RECEPT., 270	15	35 C	36	15	RECEPT., 247, 249	300	0.60	180
450	0.60	270	RECEPT., 268, 270, 272	15	37 A	38	15	RECEPT., 247	450	0.60	270
300	0.60	180	RECEPT., 266, 268	15	39 B	40	15	RECEPT., 245	450	0.60	270
450	0.60	270	RECEPT., 268	15	41 C	42	15	RECEPT., 243, 245	300	0.60	180

BLDG: 143 FLOOR: 2 ROOM: 276 NEW TAG: N/A

RATINGS: 125 A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	2274	125A/3P	4 #1 AWG + #6 AWG IN 2"C

143-NRP-02-02-BB

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
450	0.60	270	RECEPT., 266	15	43 A	44	15	RECEPT., 243	450	0.60	270
450	0.60	270	RECEPT., 262, 264, 266	15	45 B	46	15	RECEPT., 241	450	0.60	270
450	0.60	270	RECEPT., 264	15	47 C	48	15	RECEPT., 240	300	0.60	180
450	0.60	270	RECEPT., 262	15	49 A	50	15	RECEPT., 240	300	0.60	180
450	0.60	270	RECEPT., 258	15	51 B	52	15	RECEPT., 240	450	0.60	270
300	0.60	180	RECEPT., 258	15	53 C	54	15	RECEPT., 242	300	0.60	180
450	0.60	270	RECEPT., 248	15	55 A	56	15	RECEPT., 242	300	0.60	180
450	0.60	270	RECEPT., 244, 246, 248	15	57 B	58	15	RECEPT., 242	300	0.60	180
450	0.60	270	RECEPT., 246	15	59 C	60	15	RECEPT., 242	300	0.60	180
450	0.60	270	RECEPT., 244	15	61 A	62	15	RECEPT., 250	150	0.60	90
450	0.60	270	RECEPT., 245K	15	63 B	64	15	ADO., 251	100	0.60	60
		0	SPARE	15	65 C	66		SPACE			0
		0	SPARE	15	67 A	68		SPACE			0
		0	SPARE	15	69 B	70		SPACE			0
		0	SPARE	15	71 C	72		SPACE			0
		0	SPARE	15	73 A	74		SPACE			0
		0	SPARE	15	75 B	76		SPACE			0
		0	SPARE	15	77 C	78		SPACE			0
		0	SPARE	15	79 A	80		SPACE			0
		0	SPARE	15	81 B	82		SPACE			0
		0	SPARE	15	83 C	84		SPACE			0

143-NRP-02-02-BB

5 / E031 PANEL 143-NRP-02-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-01-02-BB — UNIVERSITY OF TORONTO — DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number(s)):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number(s)):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
150	0.60	90	RECEPT., 131B	15	1 A	2	15	SPARE			0
300	0.60	180	RECEPT., 126, 131B	15	3 B	4	15	SPARE			0
150	0.60	90	RECEPT., 131B	15	5 C	6	15	SPARE			0
150	0.60	90	RECEPT., 131B	15	7 A	8	15	SPARE			0
300	0.60	180	RECEPT., 126A	20	9 B	10	15	SPARE			0
150	0.60	90	RECEPT., 120V., 125, 126	15	11 C	12	15	SPARE			0
150	0.60	90	RECEPT., 130	15	13 A	14	15	SPARE			0
300	0.60	180	RECEPT., 131K	15	15 B	16	15	SPARE			0
150	0.60	90	RECEPT., 125	20	17 C	18	15	SPARE			0
600	0.60	360	RECEPT., 125	15	19 A	20		SPACE			0
600	0.60	360	RECEPT., 125	15	21 B	22		SPACE			0
600	0.60	360	RECEPT., 125	15	23 C	24		SPACE			0
600	0.60	360	RECEPT., 125	15	25 A	26		SPACE			0
600	0.60	360	RECEPT., 125	15	27 B	28		SPACE			0
200	0.60	120	ADO, 122V, 120V	15	29 C	30		SPACE			0
450	0.60	270	RECEPT., 122	20	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
300	0.60	180	RECEPT., 115	20	35 C	36		SPACE			0
			SPARE	20	37 A	38		SPACE			0
			SPARE	15	39 B	40		SPACE			0
			SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 1 ROOM: 126B NEW TAG: N/A

RATINGS: 225A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	B013	200A/30	4 #4/0 AWG + #4 AWG IN 2"C

143-NRP-01-02-BB

2 / E031 PANEL 143-NRP-01-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-01-02-BD — UNIVERSITY OF TORONTO — DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number(s)):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number(s)):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0	SPARE	15	1 A	2		SPACE			0
		0	SPARE	15	3 B	4		SPACE			0
		0	SPARE	15	5 C	6		SPACE			0
		0	SPACE		7 A	8		SPACE			0
		0	SPACE		9 B	10		SPACE			0
		0	SPACE		11 C	12		SPACE			0
		0	SPACE		13 A	14		SPACE			0
		0	SPACE		15 B	16		SPACE			0
		0	SPACE		17 C	18		SPACE			0
		0	SPACE		19 A	20		SPACE			0
		0	SPACE		21 B	22		SPACE			0
		0	SPACE		23 C	24		SPACE			0
		0	SPACE		25 A	26		SPACE			0
		0	SPACE		27 B	28		SPACE			0
		0	SPACE		29 C	30		SPACE			0
		0	SPACE		31 A	32		SPACE			0
		0	SPACE		33 B	34		SPACE			0
		0	SPACE		35 C	36		SPACE			0
		0	SPACE		37 A	38		SPACE			0
		0	SPACE		39 B	40		SPACE			0
			SPACE		41 C	42		SPACE			0

BLDG: 143 FLOOR: 1 ROOM: 126 NEW TAG: N/A

RATINGS: 225A 120/208V 3 PHASE 4 WIRE S.C.: 10

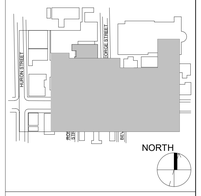
FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	GF ATRIUM	200A/3P	4#3 AWG + #6 AWG IN 1-1/4"C

NOTE: PROVIDE LOCKABLE ENCLOSURE FOR PANEL 143-NRP-01-02-BD

143-NRP-01-02-BD.xlsx

3 / E031 PANEL 143-NRP-01-02-BD SCHEDULE
SCALE: NTS

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2024-12-23	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
7	2025-03-07	BID ADDENDUM #01
10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
PANEL SCHEDULE

PROJECT NUMBER :
21590.003

DRAWING SCALE :

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO :
E031

REV :
10

BLDG #: 143 PANEL TAG: 143-NLP-03-02-BA DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
110	0.60	66	LIGHTING, 320K, 325V	15	A	1	2	SPACE			0
336	0.60	201.6	LIGHTING, 320, 322, 324	15	B	3	4	SPACE			0
462	0.60	277.2	LIGHTING, 304, 306, 307	15	C	5	6	SPACE			0
424	0.60	254.4	LIGHTING, 323	15	A	7	8	SPACE			0
689	0.60	413.4	LIGHTING, 321	15	B	9	10	SPACE			0
		0	SPARE	15	C	11	12	SPACE			0
		0	SPARE	15	A	13	14	SPACE			0
		0	SPARE	15	B	15	16	SPACE			0
		0	SPARE	15	C	17	18	SPACE			0
		0	SPARE	15	A	19	20	SPACE			0
		0	SPARE	15	B	21	22	SPACE			0
		0	SPARE	15	C	23	24	SPACE			0
		0	SPARE	15	A	25	26	SPACE			0
		0	SPARE	15	B	27	28	SPACE			0
		0	SPARE	15	C	29	30	SPACE			0
		0	SPARE	15	A	31	32	SPACE			0
		0	SPARE	15	B	33	34	SPACE			0
		0	SPARE	15	C	35	36	SPACE			0
		0	SPARE	15	A	37	38	SPACE			0
		0	SPARE	15	B	39	40	SPACE			0
		0	SPARE	15	C	41	42	SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 325 NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BA	143	325	100A/3P	100A/3P

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7 E031 PANEL 143-NLP-03-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-03-02-BB DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
624	1.00	624	LIGHTING 350, 360V, 365K	15	A	1	2	SPACE			0
450	1.00	450	LIGHTING, 364,366,368,370	15	B	3	4	SPACE			0
542	1.00	542	LIGHTING, 374, 376, 378, 380, 382	15	C	5	6	SPACE			0
		0	SPARE	15	A	7	8	SPACE			0
		0	SPARE	15	B	9	10	SPACE			0
		0	SPARE	15	C	11	12	SPACE			0
		0	SPARE	15	A	13	14	SPACE			0
		0	SPARE	15	B	15	16	SPACE			0
		0	SPARE	15	C	17	18	SPACE			0
		0	SPARE	15	A	19	20	SPACE			0
		0	SPARE	15	B	21	22	SPACE			0
		0	SPARE	15	C	23	24	SPACE			0
		0	SPARE	15	A	25	26	SPACE			0
		0	SPARE	15	B	27	28	SPACE			0
		0	SPARE	15	C	29	30	SPACE			0
		0	SPARE	15	A	31	32	SPACE			0
		0	SPARE	15	B	33	34	SPACE			0
		0	SPARE	15	C	35	36	SPACE			0
		0	SPARE	15	A	37	38	SPACE			0
		0	SPARE	15	B	39	40	SPACE			0
		0	SPARE	15	C	41	42	SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 359A NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BB	143	274	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

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8 E031 PANEL 143-NLP-03-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-03-02-BC DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
667	1.00	667	LIGHTING, 398, 399, 399C,	15	A	1	2	SPACE			0
882	1.00	882	LIGHTING, 379, 381, 383, 385, 387, 389, 391, 393, 395	15	B	3	4	SPACE			0
1000	1.00	1000	LIGHTING, 370K, 377	15	C	5	6	SPACE			0
640	1.00	640	LIGHTING, 384, 386, 388, 390, 392, 394	15	A	7	8	SPACE			0
		0	SPARE	15	B	9	10	SPACE			0
		0	SPARE	15	C	11	12	SPACE			0
		0	SPARE	15	A	13	14	SPACE			0
		0	SPARE	15	B	15	16	SPACE			0
		0	SPARE	15	C	17	18	SPACE			0
		0	SPARE	15	A	19	20	SPACE			0
		0	SPARE	15	B	21	22	SPACE			0
		0	SPARE	15	C	23	24	SPACE			0
		0	SPARE	15	A	25	26	SPACE			0
		0	SPARE	15	B	27	28	SPACE			0
		0	SPARE	15	C	29	30	SPACE			0
		0	SPARE	15	A	31	32	SPACE			0
		0	SPARE	15	B	33	34	SPACE			0
		0	SPARE	15	C	35	36	SPACE			0
		0	SPARE	15	A	37	38	SPACE			0
		0	SPARE	15	B	39	40	SPACE			0
		0	SPARE	15	C	41	42	SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 399D NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BB	143	274	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

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9 E031 PANEL 143-NLP-03-02-BC SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-01-02-BA DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
440	0.60	264	LIGHTING, 112, 114	15	A	1	2	SPACE			0
645	0.60	387	LIGHTING, 106, 115K, 115V, 120V, 120S, 122V	15	B	3	4	SPACE			0
730	0.60	438	LIGHTING, 107A, 107	15	C	5	6	SPACE			0
281.4	0.60	0	LIGHTING, OUTDOORS	15	A	7	8	SPACE			0
		0	SPARE	15	B	9	10	SPACE			0
		0	SPARE	15	C	11	12	SPACE			0
		0	SPARE	15	A	13	14	SPACE			0
		0	SPARE	15	B	15	16	SPACE			0
		0	SPARE	15	C	17	18	SPACE			0
		0	SPARE	15	A	19	20	SPACE			0
		0	SPARE	15	B	21	22	SPACE			0
		0	SPARE	15	C	23	24	SPACE			0
		0	SPARE	15	A	25	26	SPACE			0
		0	SPARE	15	B	27	28	SPACE			0
		0	SPARE	15	C	29	30	SPACE			0
		0	SPARE	15	A	31	32	SPACE			0
		0	SPARE	15	B	33	34	SPACE			0
		0	SPARE	15	C	35	36	SPACE			0
		0	SPARE	15	A	37	38	SPACE			0
		0	SPARE	15	B	39	40	SPACE			0
		0	SPARE	15	C	41	42	SPACE			0

BLDG: 143 FLOOR: 1 ROOM: 107B NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	B013	100/3P	4 #2 AWG + #6 AWG IN 1-1/2"C

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3 E031 PANEL 143-NLP-01-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-01-02-BB DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR
530	0.60	318	LIGHTING, 125	15	A	1	2	SPACE		
424	0.60	254.4	LIGHTING, 124, 125	15	B	3	4	SPACE		
148	0.60	88.8	LIGHTING, 113, 115, 119	15	C	5	6	SPACE		
		0	SPARE	15	A	7	8	SPACE		
		0	SPARE	15	B	9	10	SPACE		
		0	SPARE	15	C	11	12	SPACE		
		0	SPARE	15	A	13	14	SPACE		
		0	SPARE	15	B	15	16	SPACE		
		0	SPARE	15	C	17	18	SPACE		
		0	SPARE	15	A	19	20	SPACE		
		0	SPARE	15	B	21	22	SPACE		
		0	SPARE	15	C	23	24	SPACE		
		0	SPARE	15	A	25	26	SPACE		
		0	SPARE	15	B	27	28	SPACE		
		0	SPARE	15	C	29	30	SPACE		
		0	SPARE	15	A	31	32	SPACE		
		0	SPARE	15	B	33	34	SPACE		
		0	SPARE	15	C	35	36	SPACE		
		0	SPARE	15	A	37	38	SPACE		
		0	SPARE	15	B	39	40	SPACE		
		0	SPARE	15	C	41	42	SPACE		

BLDG: 143 FLOOR: 1 ROOM: 126B NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	B013	100A/3P	4 #2 AWG + #6 AWG IN 1-1/2"C

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4 E031 PANEL 143-NLP-01-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-02-02-BA DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
73	1.00	73	LIGHTING., 231	15	A	1	2	SPACE			0
114	1.00	114	LIGHTING., 236	15	B	3	4	SPACE			0
1173	1.00	1173	LIGHTING., 237	15	C	5	6	SPACE			0
		0	SPARE	15	A	7	8	SPACE			0
		0	SPARE	15	B	9	10	SPACE			0
		0	SPARE	15	C	11	12	SPACE			0
		0	SPARE	15	A	13	14	SPACE			0
		0	SPARE	15	B	15	16	SPACE			0
		0	SPARE	15	C	17	18	SPACE			0
		0	SPARE	15	A	19	20	SPACE			0
		0	SPARE	15	B	21	22	SPACE			0
		0	SPARE	15	C	23	24	SPACE			0
		0	SPARE	15	A	25	26	SPACE			0
		0	SPARE	15	B	27	28	SPACE			0
		0	SPARE	15	C	29	30	SPACE			0
		0	SPARE	15	A	31	32	SPACE			0
		0	SPARE	15	B	33	34	SPACE			0
		0	SPARE	15	C	35	36	SPACE			0
		0	SPARE	15	A	37	38	SPACE			0
		0	SPARE	15	B	39	40	SPACE			0
		0	SPARE	15	C	41	42	SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 231B NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	274	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NLP-02-02-BA.xlsx

5 E031 PANEL 143-NLP-02-02-BA SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-02-02-BB DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
739	1.00	739	LIGHTING.,240,245a,254	15	A	1	2	SPACE			0
912	1.00	912	LIGHTING., 241,242,243,244,245,246,247,248	15	B	3	4	SPACE			0
625	1.00	625	LIGHTING., 249,253,255,257,259	15	C	5	6	SPACE			0
831	1.00	831	LIGHTING., 258,262,264,266,268,270,272	15	A	7	8	SPACE			0
132	1.00	132	LIGHTING., ,245K	15	B	9	10	SPACE			0
876	1.00	876	LIGHTING., 261,263,265,267,269,271,273	15	C	11	12	SPACE			0
576	1.00	576	LIGHTING.,277k,280	15	A	13	14	SPACE			0
		0	SPARE	15	B	15	16	SPACE			0
		0	SPARE	15	C	17	18	SPACE			0
		0	SPARE	15	A	19	20	SPACE			0
		0	SPARE	15	B	21	22	SPACE			0
		0	SPARE	15	C	23	24	SPACE			0
		0	SPARE	15	A	25	26	SPACE			0
		0	SPARE	15	B	27	28	SPACE			0
		0	SPARE	15	C	29	30	SPACE			0
		0	SPARE	15	A	31	32	SPACE			0
		0	SPARE	15	B	33	34	SPACE			0
		0	SPARE	15	C	35	36	SPACE			0
		0	SPARE	15	A	37	38	SPACE			0
		0	SPARE	15	B	39	40	SPACE			0
		0	SPARE	15	C	41	42	SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 276 NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BB	143	274	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NLP-02-02-BB.xlsx

6 E031 PANEL 143-NLP-02-02-BB SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-03-02-BC DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
300	0.60	180	RECEPT., 399A, 399B	15	A	1	2	15	ADO, 399A, 399B	200.00	0.60	120
150	0.60	90	RECEPT., 399	15	B	3	4	15	RECEPT., 399C	150.00	0.60	90
150	0.60	90	RECEPT., 398	15	C	5	6	15	SPARE			0
150	0.60	90	RECEPT., 398	15	A	7	8	15	RECEPT., 392, 294	300.00	0.60	180
150	0.60	90	RECEPT., 398	20	B	9	10	15	RECEPT., 394	450.00	0.60	270
150	0.60	90	RECEPT., 398	20	C	11	12	15	RECEPT., 394	150.00	0.60	90
150	0.60	90	RECEPT., 398	20	A	13	14	15	RECEPT., 394	150.00	0.60	90
150	0.60	90	RECEPT., 398	20	B	15	16	15	RECEPT., 392	450	0.60	270
150	0.60	90	RECEPT., 399D	15	C	17	18	15	RECEPT., 392	150	0.60	90
450	0.60	270	RECEPT., 399E	20	A	19	20	15	RECEPT., 390	450	0.60	270
450	0.60	270	RECEPT., 398	15	B	21	22	15	RECEPT., 390	150	0.60	90
450	0.60	270	RECEPT., 398	15	C	23	24	15	A/V RECEPT., 399E	600	0.60	600
450	0.60	270	RECEPT., 395	15	A	25	26	15	A/V RECEPT., 399E	600	0.60	600
300	0.60	180	RECEPT., 393, 395	15	B	27	28		SPACE			0
450	0.60	270	RECEPT., 391, 393, 395	15	C	29	30		SPACE			0
450	0.60	270	RECEPT., 393	15	A	31	32		SPACE			0
450	0.60	270	RECEPT., 391	15	B	33	34		SPACE			0
300	0.60	180	RECEPT., 389, 391	15	C	35	36		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 399D NEW TAG: N/A

RATINGS:	125A	120/208V	3 PHASE	4 WIRE	S.C.:	10

FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BC	143	274	125A/3P	4 #1 AWG + # 6 AWG IN 2"C

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
450	0.60	270	RECEPT., 349	15	A	37	38	SPACE			0
0	0.00	0	SPARE	20	B	39	40	SPACE			0
		0	SPARE	15	C	41	42	SPACE			0
		0	SPARE	15	A	43	44	SPACE			0
		0	SPARE	15	B	45	46	SPACE			0
		0	SPARE	15	C	47	48	SPACE			0
		0	SPARE	15	A	49	50	SPACE			0
		0	SPARE	15	B	51	52	SPACE			0
		0	SPARE	15	C	53	54	SPACE			0
		0	SPARE	15	A	55	56	SPACE			0
		0	SPARE	15	B	57	58	SPACE			0
		0	SPARE	15	C	59	60	SPACE			0
		0	SPARE	15	A	61	62	SPACE			0
		0	SPARE	15	B	63	64	SPACE			0
		0	SPARE	15	C	65	66	SPACE			0
		0	SPARE	15	A	67	68	SPACE			0
		0	SPARE	15	B	69	70	SPACE			0
		0	SPARE	15	C	71	72	SPACE			0

143-NRP-03-02-BC

1 E032 PANEL 143-NRP-03-02-BC SCHEDULE
SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NRP-03-02-BD DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
300	0.60	180	RECEPT., 357	15	A	1	2	15	RECEPT., 357	450	0.60	270
150	0.60	90	RECEPT., 357	15	B	3	4	15	RECEPT., 357	450	0.60	270
300	0.60	180	RECEPT., 357	15	C	5	6	15	RECEPT., 353, 355	300	0.60	180
450	0.60	270	RECEPT., 355	15	A	7	8	15	RECEPT., 349, 351	300	0.60	180
450	0.60	270	RECEPT., 353	15	B	9	10	15	RECEPT., 345, 347	300	0.60	180
450	0.60	270	RECEPT., 351	15	C	11	12	15	RECEPT., 341, 343	300	0.60	180
450	0.60	270	RECEPT., 349	15	A	13	14	15	RECEPT., 340K	450	0.60	270
450	0.60	270	RECEPT., 347	15	B	15	16	15	RECEPT., 357K	300	0.60	180
450	0.60	270	RECEPT., 345	15	C	17	18	15	RECEPT., 305K	300	0.60	180
450	0.60	270	RECEPT., 343	15	A	19	20	15	RECEPT., 304, 306	300	0.60	180
450	0.60	270	RECEPT., 341	15	B	21	22	15	RECEPT., 304, 306	600	0.60	360
450	0.60	270	RECEPT., 340	15	C	23	24	15	RECEPT., 304	300	0.60	180
450	0.60	270	RECEPT., 342	15	A	25	26	15	RECEPT., 340, 342	300	0.60	180
600	0.60	360	RECEPT., 344	15	B	27	28	15	RECEPT., 346, 348	300	0.60	180
450	0.60	270	RECEPT., 346	15	C	29	30	15	RECEPT., 350	150	0.60	90
450	0.60	270	RECEPT., 348	15	A	31	32	15	RECEPT., 352	600	0.60	360
450	0.60	270	RECEPT., 350	15	B	33	34	15	RECEPT., 354, 356	300	0.60	180
450	0.60	270	RECEPT., 354	15	C	35	36	15	ADO, 303, 340K	200	0.60	120

BLDG: 143 FLOOR: 3 ROOM: 305 NEW TAG: N/A

RATINGS:	100A	120/208V	3 PHASE	4 WIRE	S.C.:	10

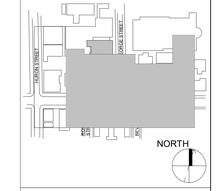
FED FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02--BA	143	325	100/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)	DESCRIPTION:	BKR (A)	CT	CT	BKR (A)	DESCRIPTION:	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND (W)
450	0.60	270	RECEPT., 356	15	A	37	38	15	LIFT POWER, 307L	100	0.60	60
150	0.60	90	RECEPT., 358E	15	B	39	40		SPACE			0
150	0.60	90	RECEPT., ROOF TOP	20	C	41	42		SPACE			0
150	0.60	90	RECEPT., 307L	15, GFCI	A	43	44		SPACE			0
		0	SPARE	15	B	45	46		SPACE			0
		0	SPARE	15	C	47	48		SPACE			0
		0	SPARE	15	A	49	50		SPACE			0
		0	SPARE	15	B	51	52		SPACE			0
		0	SPARE	15	C	53	54		SPACE			0
		0	SPARE	15	A	55	56		SPACE			0
		0	SPARE	15	B	57	58		SPACE			0
		0	SPARE	15	C	59	60		SPACE			0
		0	SPARE	15	A	61	62		SPACE			0
		0	SPARE	15	B	63	64		SPACE			0
		0	SPARE	15	C	65	66		SPACE			0
		0	SPARE	15	A	67	68		SPACE			0
		0	SPARE	15	B	69	70		SPACE			0
		0	SPARE	15	C	71	72		SPACE			0

143-NRP-03-02-BD.xlsx

2 E031 PANEL 143-NRP-03-02-BD SCHEDULE
SCALE: NTS

KEY PLAN :



NORTH

REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2024-12-23	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
7	2025-03-07	BID ADDENDUM #01
10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
PANEL SCHEDULE

PROJECT NUMBER :
21590.003

DRAWING SCALE :

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E032**

REV : **10**

BLDG #: 143 PANEL TAG: 143-NPP-02-02-BB DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0	SPARE	15	1 A	2		SPACE			0
		0	SPARE	15	3 B	4		SPACE			0
410	0.60	246	A/C-2.2., 277	15	5 C	6		SPACE			0
410	0.60	246		2P	7 A	8		SPACE			0
300	0.60	180	VAV 2ND FLR	15	9 B	10		SPACE			0
450	0.60	270	VAV 2ND FLR	15	11 C	12		SPACE			0
300	0.60	180	VAV 2ND FLR	15	13 A	14		SPACE			0
300	0.60	180	EF-2.1	15	15 B	16		SPACE			0
120	0.60	200	BAS WORKSTATIONM201	15	17 C	18		SPACE			0
100	1.00	100	BAS CONTROLLER	15	19 A	20		SPACE			0
100	1.00	100	BAS CONTROLLER	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 231B NEW TAG: N/A

RATINGS: 125A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	278	125A/3P	4 #1 AWG + #6 AWG IN 2"C

143-NPP-02-02-BB

7 PANEL 143-NPP-02-02-BB
E033 SCALE: NTS

BLDG #: 143 PANEL TAG: LP-EMB DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
	1.00	0	EXISTING FIRE ALARM CONTROL PANEL	15	1 A	2	15	EXISTING LTG. 3RD N.			0
	1.00	0	EXISTING FIRE ALARM CONTROL PANEL	15	3 B	4	15	EXISTING LTG. THEATRE			0
	1.00	0	EXISTING ELEV. PIT AT 1A03	15	5 C	6	15	EXISTING LTG. THEATRE			0
	1.00	0	EXISTING LTG. THEATRE LOBBY	15	7 A	8	15	EXISTING LTG. 3K14, 3K15			0
	1.00	0	EXISTING FLOURECENT ABOVE DOOR	15	9 B	10	15	EXISTING ELEV. CAB. LTG.			0
	1.00	0	EXISTING RM 202 STAIRS LIGHT	15	11 C	12	15	EXSTING LTG. 3K21, 3K22			0
	1.00	0	EXISTING LTG. 2A11	15	13 A	14	15	EXISTING LTG. BASE TUNNEL			0
27.5	1.00	27.5	EXIT SIGNS, 2ND FLR	15	15 B	16	15	EXISTING PANEL RECP AUG 2001			0
822	1.00	822	EM LIGHTING 231, 233, 235, 237, 237A, 237B, 237C	15	17 C	18	15	EXISTING FRIDGE RM 245			0
186	1.00	186	EM LIGHTING, 237V	15	19 A	20	15	EXIT SIGNS, 3RD FLR	52.5	1.00	52.5
163	1.00	163	EM LIGHTING, 240, 240K, 242, 245K, 251	15	21 B	22	15	EM LIGHTING, 307, 320K, 321, 323, 325A, 325V, 327	477	1.00	477
216	1.00	216	EM LIGHTING, 245K, 274, 277K, 280	15	23 C	24	15	EM LIGHTING, 301V, 305K, 340K, 344, 352, 357, 357K, 357S, 357V, 358, 360V	344	1.00	344
150	1.00	150	LAN RECEPT., 238	15	25 A	26	15	EM LIGHTING, 363, 365V, 365K, 370K, 371, 372, 377, 397K, 398, 399, 399A, 399B	454	1.00	454
150	1.00	150	LAN RECEPT., 238	30	27 B	28	15	SECURITY PANEL, 233A	200	1.00	200
150	1.00	150	LAN RECEPT., 277	30	29 C	30	15	SECURITY PANEL, 277	200	1.00	200
150	1.00	150	LAN RECEPT., 277	15	31 A	32	15	SECURITY PANEL, 233A	200	1.00	200
150	1.00	150	LAN RECEPT., 399E	30	33 B	34	15	SECURITY PANEL, 325B	200	1.00	200
150	1.00	150	LAN RECEPT., 399E	15	35 C	36	15	SECURITY PANEL, 399E	200	1.00	200
150	1.00	150	LAN RECEPT., 325B	30	37 A	38	15	FIRE ALARM DGP, #372	500	0.80	400
150	1.00	150	LAN RECEPT., 325B	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 350A NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	PP-EM	143	350A	100	N/A

LP-EMB

4 PANEL LP-EMB
E033 SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NLP-03-02-BD DATE MODIFIED: 2025-02-13

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
742	1.00	742	LIGHTING, 340,342,346,348,350,354,356	15	1 A	2		SPACE			0
110	1.00	110	LIGHTING, 301V, 305k	15	3 B	4		SPACE			0
848	1.00	848	LIGHTING, 341, 343, 345, 347, 349, 351, 353, 355	15	5 C	6		SPACE			0
176	0.60	105.6	LIGHTING, 340K,357,357K	15	7 A	8		SPACE			0
		0	SPARE	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 305 NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BA	143	326	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NLP-03-02-BD.xlsx

1 PANEL 143-NLP-03-02-BD SCHEDULE
E033 SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NPP-03-02-BB DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
100	0.60	60	CAB LIGHT AND FAN	15	1 A	2	15	EF-R.1., ROOF TOP	100	0.60	60
150	0.60	90	CAP AUX. EQUIPMENT. 358E	15	3 B	4	15	MOD., ROOF TOP	100	0.60	60
100	0.60	60	BP-1, 398	15	5 C	6	25	C/U-R.3, ROOF TOP	1372.80	0.60	823.68
65	0.65	100	EF-3.1, 399D	15	7 A	8	2P		1372.80	0.60	823.68
					9 B	10	25	C/U-R.3, ROOF TOP	1372.80	0.60	823.68
500	0.60	300	EBH-3.1, EBH-3.2, 399A, 399B	15	11 C	12	2P		1372.80	0.60	823.68
500	0.60	300		2P	13 A	14	20, GFC	RECEPT., ROOF TOP	150.00	0.60	90
100	0.60	60	EF-3.1, 399D	15	15 B	16	15	SNOW MELT SENSOR, ROOF TOP	100.00	0.60	60
200	1.00	200	PENTHOUSE BAS CONTROLLER	15	17 C	18		EF-3.1,			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 372 NEW TAG: N/A

RATINGS: 125A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BC	143	274	125A/3P	4 #1 AWG + #6 AWG IN 2"C

143-NPP-03-02-BB

8 PANEL 143-NPP-03-02-BB
E033 SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NPP-01-02-BB DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
			SPARE	20	1 A	2		SPACE			0
		0	SPARE	15	3 B	4		SPACE			0
1600	0.60	960	KEU-1.1., 126	15	5 C	6		SPACE			0
1600	0.60	960		↓	7 A	8		SPACE			0
1600	0.60	960		3P	9 B	10		SPACE			0
400	0.60	240	VAV 1ST FLR	15	11 C	12		SPACE			0
100	0.60	60	P-DHWR-B.1., B3	15	13 A	14		SPACE			0
400	0.60	240	P-B.1., B4	15	15 B	16		SPACE			0
500	0.60	300	HEAT TRACE., B4	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 1 ROOM: 126B NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	EXISTING PP-GP	143	B013	100A/3P	4 #0 AWG + #6 AWG IN 1-1/2"C

143-NPP-01-02-BB

5 PANEL 143-NPP-01-02-BB
E033 SCALE: NTS

BLDG #: 143 PANEL TAG: LP-EMA DATE MODIFIED: 2/12/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0	EXISTING LTG. BASE S. TUNNELL	15	1 A	2	15	EXISTING ELEV. CAB LTG. BA1/.			0
		0	EXISTING LTG. BASE S. TUNNELL	15	3 B	4	15	EXISTING ELEV. PIT LST FL. 1A16			0
		0	EXISTING EM LTG. BA17	15	5 C	6	15	EXISTING ELEV. CAB LTG. 1A09			0
27.5	1.00	27.5	EXIT SIGNS, 1ST FL.	15	7 A	8	15	EM LIGHTING, 106, 115K, 120V, 120S, 122V	220	1.00	220
		0	EXISTING L. DOCK HEAT TRACING	15	9 B	10	15	EXISTING SUMP PUMP			0
256	1.00	256	EM LIGHTING, 122, 125, 126A	15	11 C	12	15	SECURITY PANEL, 122	200.00	1.00	1
108	1.00	108	EM LIGHTING, 114, 118, 118A	15	13 A	14		SPACE			0
323	1.00	323	EM LIGHTING, 107, 107B, 115, 119	15	15 B	16		SPACE			0
	1.00	0	LAN RECEPT., 238	15	17 C	18		SPACE			0
	1.00	0	LAN RECEPT., 238	30	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0

BLDG: 143 FLOOR: B ROOM: B013 NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
EXISTING 15KVA TRANSFORMER		143	B013	N/A	N/A

LP-EMA

2 PANEL LP-EMA
E033 SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NPP-03-02-BD DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
316	0.60	189.6	A/C-3.2, 325B	15	1 A	2	35	C/U-R.1., ROOF TOP	2500	0.60	1500
316	0.60	189.6		2P	3 B	4	2P		2500	0.60	1500
300	0.60	180	VAV, 307, 320K, 324	15	5 C	6	35	C/U-R.2., ROOF TOP	2500	0.60	1500
500	0.60	300	VAV, 305K, 344, 345, 347, 353, 356	15	7 A	8	2P		2500	0.60	1500
100	1.00	100	BAS CONTROLLER	15	9 B	10	20	RECEPT., ROOF TOP	150.00	0.60	90
			SPARE	15	11 C	12	25	C/U-R.5., ROOF TOP	1372.80	0.60	823.68
100	0.60	60	CAB DUPLEX., 358E	15	13 A	14	2P		1372.80	0.60	823.68
100	0.60	60	CAB SECURITY, 358E	15	15 B	16	20	RECEPT., ROOF TOP	150.00	0.60	90
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPACE		39 B	40		SPACE			0
		0	SPACE		41 C	42		SPACE			0

BLDG: 143 FLOOR: 3 ROOM: 305 NEW TAG: N/A

RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-03-02-BA	143	326	100A/3P	4 #3 AWG + #6 AWG IN 1-1/2"C

143-NPP-03-02-BD

9 PANEL 143-NPP-03-02-BD
E033 SCALE: NTS

BLDG #: 143 PANEL TAG: 143-NPP-02-02-BA DATE MODIFIED: 2/13/2025

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
410	0.60	246	A/C-2.1., 237	15	1 A	2		SPACE			0
410	0.60	246		2P	3 B	4		SPACE			0
300	0.60	180	VAV 2ND FLR	15	5 C	6		SPACE			0
300	0.60	180	VAV 2ND FLR	15	7 A	8		SPACE			0
			SPARE	15	9 B	10		SPACE			0
		0	SPARE	15	11 C	12		SPACE			0
		0	SPARE	15	13 A	14		SPACE			0
		0	SPARE	15	15 B	16		SPACE			0
		0	SPARE	15	17 C	18		SPACE			0
		0	SPARE	15	19 A	20		SPACE			0
		0	SPARE	15	21 B	22		SPACE			0
		0	SPARE	15	23 C	24		SPACE			0
		0	SPARE	15	25 A	26		SPACE			0
		0	SPARE	15	27 B	28		SPACE			0
		0	SPARE	15	29 C	30		SPACE			0
		0	SPARE	15	31 A	32		SPACE			0
		0	SPARE	15	33 B	34		SPACE			0
		0	SPARE	15	35 C	36		SPACE			0
		0	SPARE	15	37 A	38		SPACE			0
		0	SPARE	15	39 B	40		SPACE			0
		0	SPARE	15	41 C	42		SPACE			0

BLDG: 143 FLOOR: 2 ROOM: 231B NEW TAG: N/A

RATINGS: 125A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
	143-NDP-02-02-BA	143	278	125A/3P	4 #1 AWG + #6 AWG IN 2"C

143-NPP-02-02-BA

6 PANEL 143-NPP-02-02-BA
E033 SCALE: NTS

BLDG #: 143 PANEL TAG: LP-BEMA DATE MODIFIED: 2025-02-12

CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND	DESCRIPTION (Item, Room Number[s]):	BKR (A)	CT	CT	BKR (A)	DESCRIPTION (Item, Room Number[s]):	CONNECTED LOAD (W)	DEMAND FACTOR	TOTAL DEMAND
		0	EXISTING CLG. OUTLETS 2B10	15	1 A	2	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	EXISTING BACK ROOM LTG + PUGS	15	3 B	4	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	EXISTING LTG. 3B14	15	5 C	6	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	SPARE	15	7 A	8	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	SPARE	15	9 B	10	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	EXISTING CASH COMPUTER SERVER	15	11 C	12	15	EXISTING CLG. OUTLETS 2B12, 2B14			0
		0	EXISTING RECEIVING RECEPTACLES	15	13 A	14		SPACE			0
		0	EXISTING RECEIVING RECEPTACLES	15	15 B	16		SPACE			0
		0	EXISTING RECEIVING RECEPTACLES	15	17 C	18		SPACE			0
		0	EXISTING RECEIVING RECEPTACLES	15	19 A	20		SPACE			0
		0	EXISTING RECEIVING RECEPTACLES	15	21 B	22		SPACE			0
		0	SPACE		23 C	24		SPACE			0
		0	SPACE		25 A	26		SPACE			0
		0	SPACE		27 B	28		SPACE			0
		0	SPACE		29 C	30		SPACE			0

BLDG: 143 FLOOR: B ROOM: B013 NEW TAG: N/A

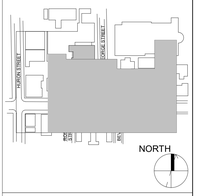
RATINGS: 100A 120/208V 3 PHASE 4 WIRE S.C.: 10

FED. FROM:	PANEL TAG:	BLDG #:	ROOM #:	BREAKER SIZE	FEEDER SIZE:
EXISTING 15KVA TRANSFORMER		143	B013	N/A	N/A

LP-BEMA.xlsx

3 PANEL LP-BEMA
E033 SCALE: NTS

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2024-12-23	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

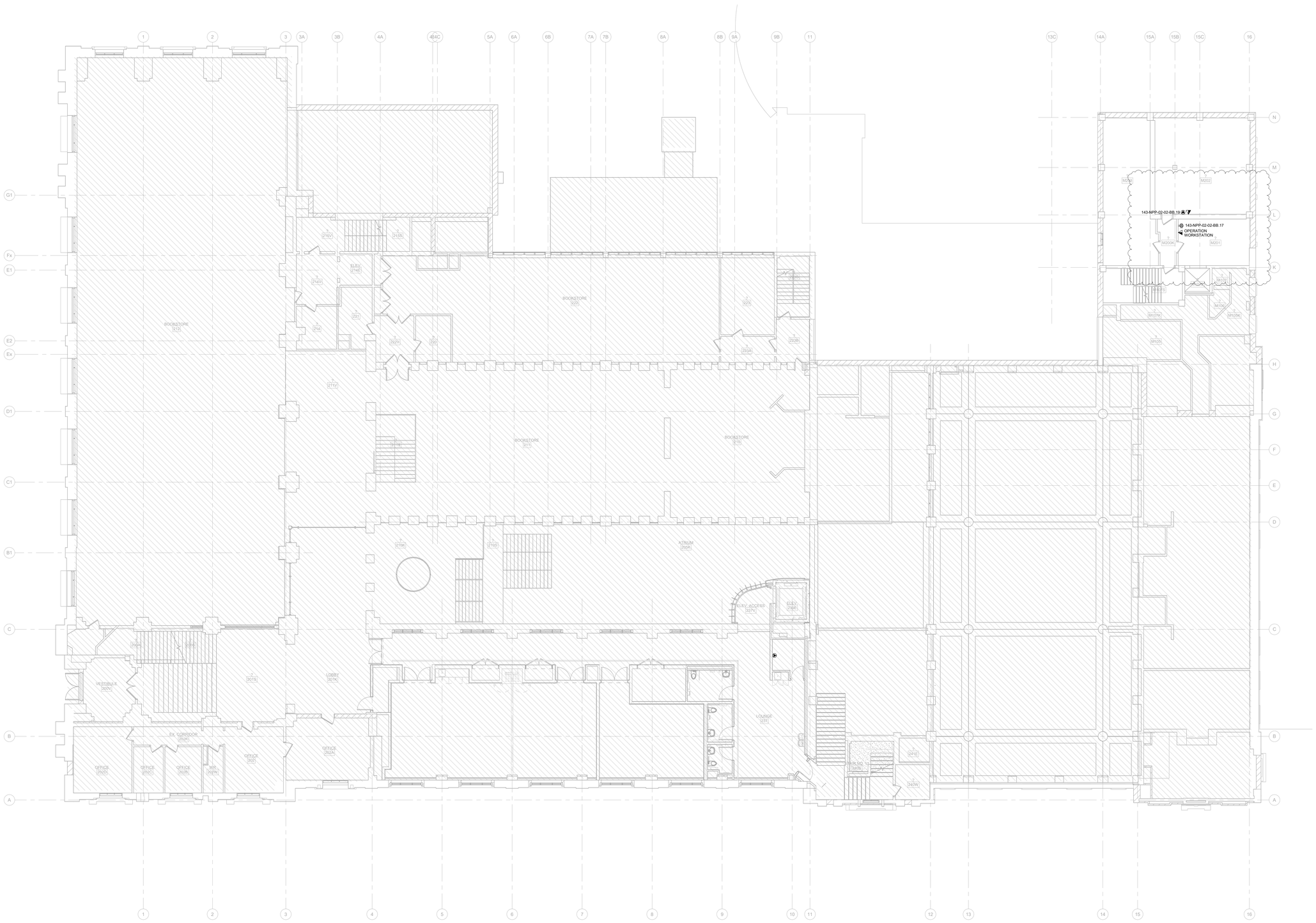
SHEET CONTENTS :
PANEL SCHEDULE

PROJECT NUMBER :
21590.003

DRAWING SCALE :

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E033** REV : **10**



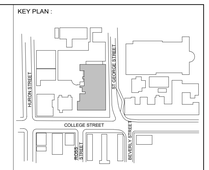
DRAWING NOTES:

(N-1) POWER/DATA FOR BAS EQUIPMENT. COORDINATE LOCATION ON SITE WITH MECHANICAL PRIOR TO ROUGH-IN.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER/ARCHITECTS DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS. EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
4. VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
5. REFER TO INTERIOR DESIGN/ARCHITECT DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING HEIGHTS.
6. MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT PRIOR TO INSTALLATION.
7. PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND SYSTEM FURNITURE FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION.
8. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL/COMMUNICATION/AV EQUIPMENT WITH MECHANICAL/COMMUNICATION/AV DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS. NO ADDITIONAL COSTS WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
10. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/SC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.
11. UNLESS OTHERWISE NOTED, POWER TO BE FED FROM PANELS LOCATED ON THIS FLOOR.
12. ALLOW FOR THE REWORKING OF EXISTING CONDUIT/FEEDERS TO ACCOMMODATE NEW SCOPE OF WORK AND/OR INTERFERENCES.

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
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3	2024-12-04	ISSUED FOR F&S REVIEW
4	2024-12-23	ISSUED FOR F&S REVIEW
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6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 01 UPPER MEZZ - POWER PLAN

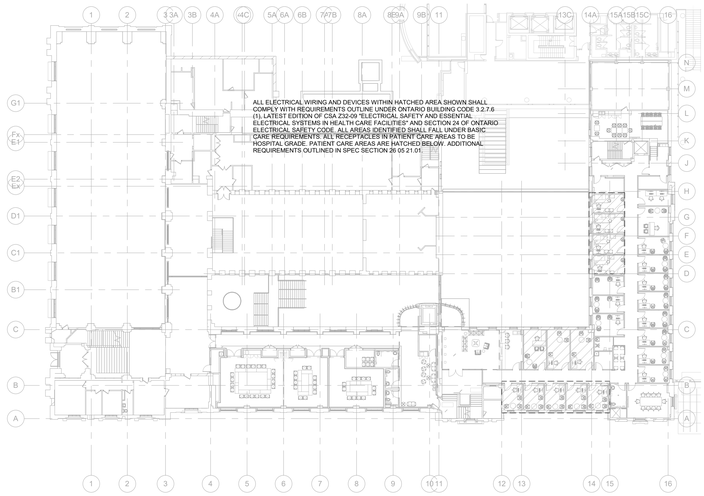
PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E301-M2**

REV : **10**



DRAWING NOTES:

N-1 FEEDER CONDUITS FOR POWER, DATA, A/V, OR SECURITY AT THIS LOCATION TO BE RUN FROM GROUND FLOOR CEILING BELOW.

N-2 EXPOSED CONDUITS SHALL NOT BE PERMITTED ON/ABOVE CEILING IN THIS CORRIDOR.

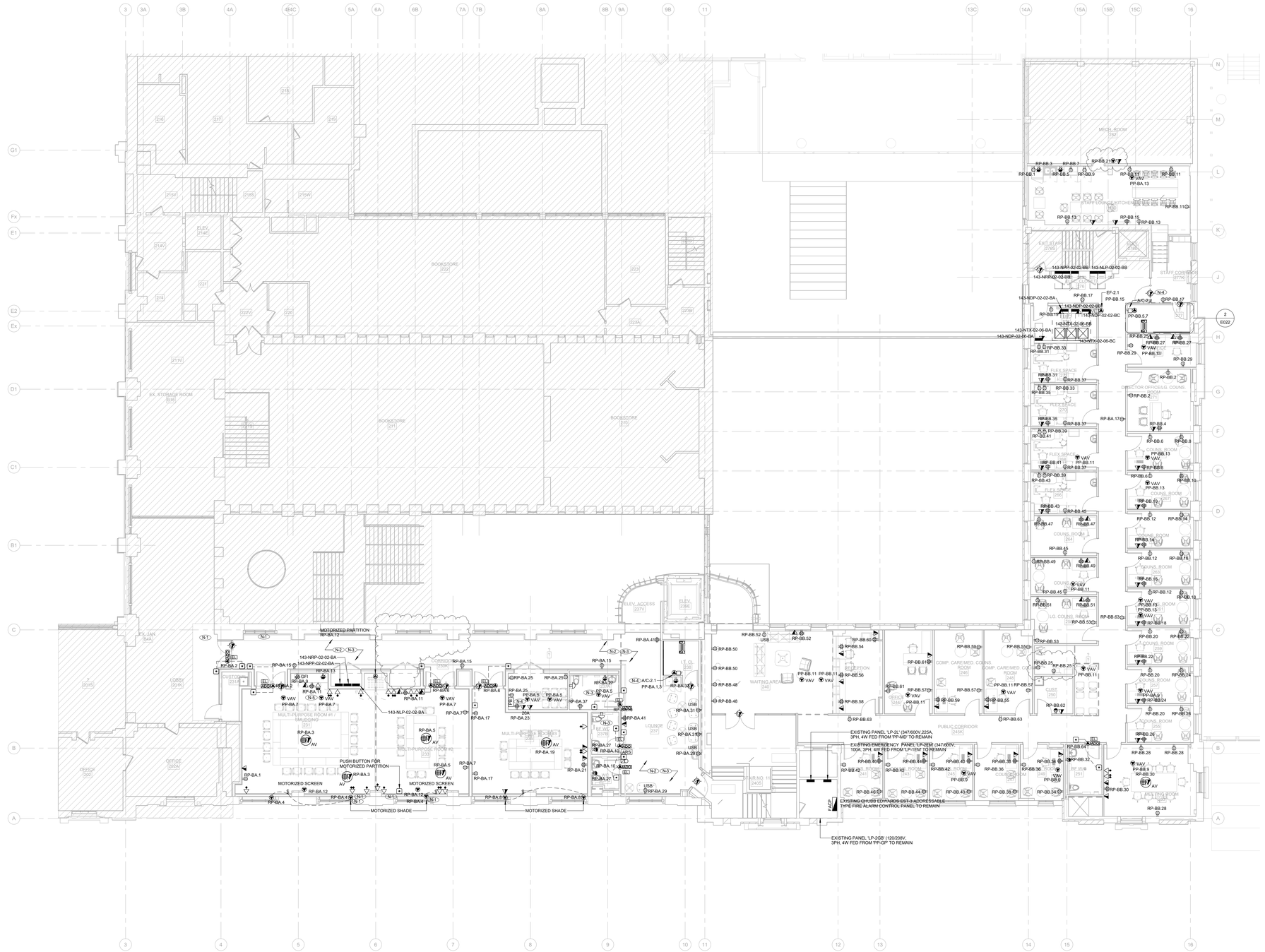
N-3 REFER TO DETAIL 3/E020 FOR DETAIL OF TYPICAL BARRIER FREE/UNIVERSAL WASHROOM.

N-4 INDOOR UNIT IS POWER VIA THE CONDENSER ON ROOF. ALLOW FOR HARDWARE CONNECTIONS AND DISCONNECTS AT ALL UNITS. PIPE AND WIRE TO FOLLOW MECHANICAL ROUTING. ALLOW FOR ALL ASSOCIATED COSTS. COORDINATE WITH SHOP DRAWINGS AND THE MECHANICAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.

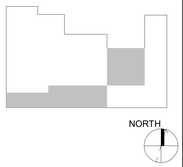
N-5 OUTLETS FOR PROJECTOR IN WALL RECESS. COORDINATE LOCATION ON SITE.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
4. VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
5. REFER TO INTERIOR DESIGN/ARCHITECT DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING HEIGHTS.
6. MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT PRIOR TO INSTALLATION.
7. PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND SYSTEM FURNITURE FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION.
8. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL/COMMUNICATION/AV EQUIPMENT WITH MECHANICAL/COMMUNICATION/AV DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS. NO ADDITIONAL COSTS WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
10. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/GC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.
11. UNLESS OTHERWISE NOTED, POWER TO BE FED FROM PANELS LOCATED ON THIS FLOOR.
12. ALLOW FOR THE REWORKING OF EXISTING CONDUIT/FEEDERS TO ACCOMMODATE NEW SCOPE OF WORK AND/OR INTERFERENCES.



KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
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4	2024-12-23	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
9	2025-03-21	BID ADDENDUM #03
10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 02 - POWER PLAN

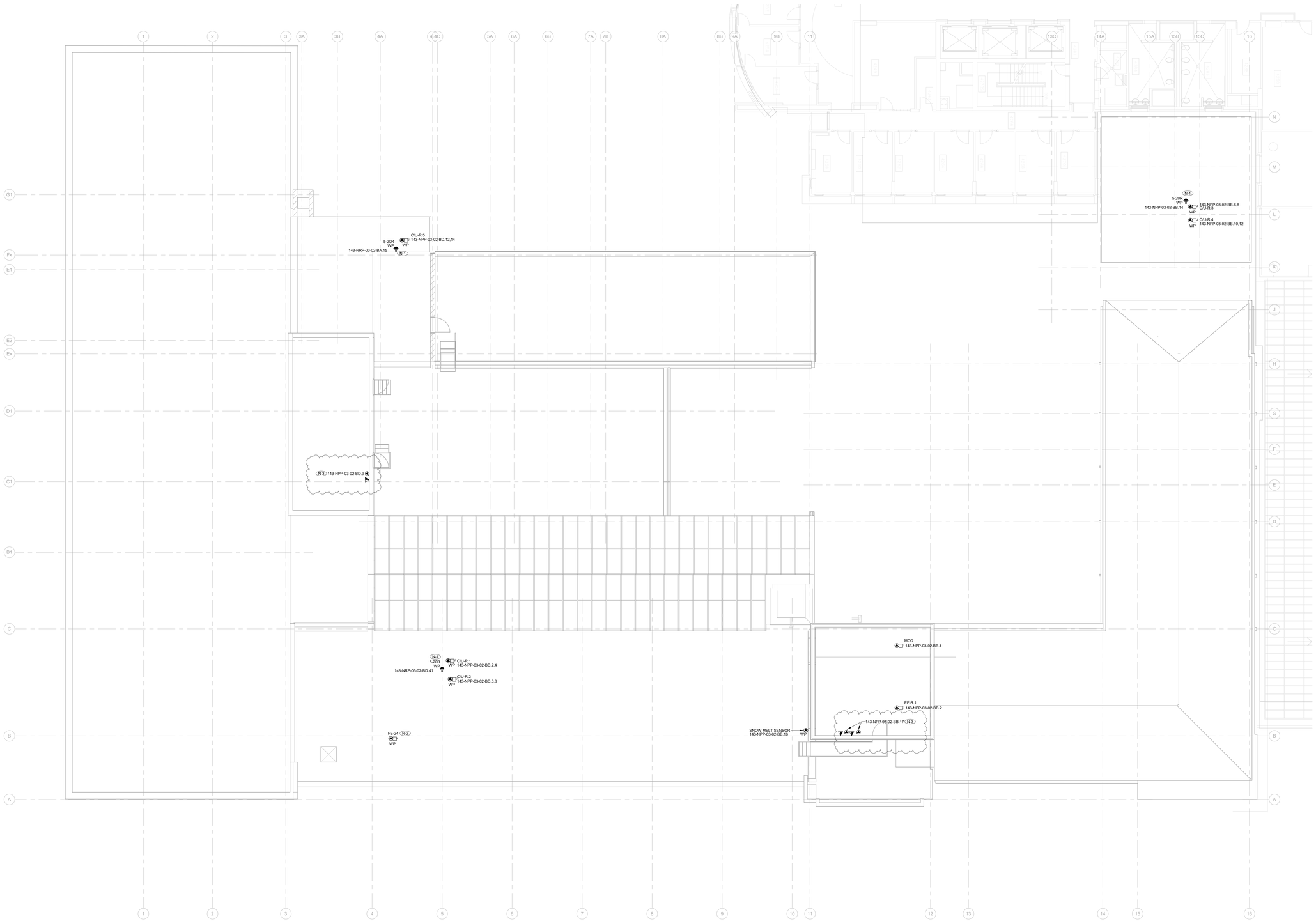
PROJECT NUMBER :
21590.003

DRAWING SCALE :
As indicated

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E302**

REV : **10**



DRAWING NOTES:

N-1 ROOFTOP MAINTENANCE RECEPTACLE. COORDINATE EXACT LOCATION ON SITE.

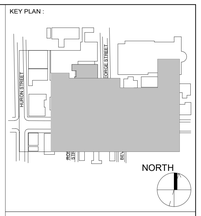
N-2 DISCONNECT POWER TO EXISTING ROOF EXHAUST FAN AND CONNECT TO NEW EXHAUST FAN. COORDINATE THIS SCOPE OF WORK WITH MECHANICAL.

N-3 POWER/DATA OUTLET FOR BAS EQUIPMENT. COORDINATE LOCATION ON SITE WITH MECHANICAL PRIOR TO ROUGH-IN.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 1.8M. BX MUST BE FASTENED TO STRUCTURAL TOP CHORDS OF STEEL BACKGROUNDS. WIRE ALL EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
4. VERIFY EXACT POWER REQUIREMENTS AND RECEPTACLE TYPES FOR SPECIAL EQUIPMENT WITH MANUFACTURER PRIOR TO INSTALLATION. PROVIDE HARDWIRE CONNECTIONS FOR DISHWASHERS AND COPIERS ETC. IN LIEU OF RECEPTACLES OR VICE VERSA, AS REQUIRED.
5. REFER TO INTERIOR DESIGN/ARCHITECT DRAWINGS FOR THE COLOUR OF COVERPLATES AND MOUNTING HEIGHTS.
6. MARK UP OUTLET AND DEVICE LOCATIONS AND OBTAIN APPROVAL BY DESIGN CONSULTANT PRIOR TO INSTALLATION.
7. PROVIDE SUITABLE LABELS ON ALL RECEPTACLES AND SYSTEM FURNITURE FEEDS. LABELS TO INCLUDE BOTH PANEL AND CIRCUIT DESIGNATION. REVIEW LABEL SIZE AND TYPE WITH CONSULTANT PRIOR TO INSTALLATION.
8. CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL/COMMUNICATION/AV EQUIPMENT WITH MECHANICAL/COMMUNICATION/AV DRAWINGS AND CONTRACTOR PRIOR TO ROUGH-INS. NO ADDITIONAL COSTS WILL BE APPROVED FOR ANY REVISIONS/MODIFICATIONS REQUIRED BY ANY TRADE OR CONTRACTOR DUE TO THE LACK OF COORDINATION BETWEEN TRADES AND CONTRACTORS.
9. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
10. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/SC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2024-12-23	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04

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214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

ROOF - POWER PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

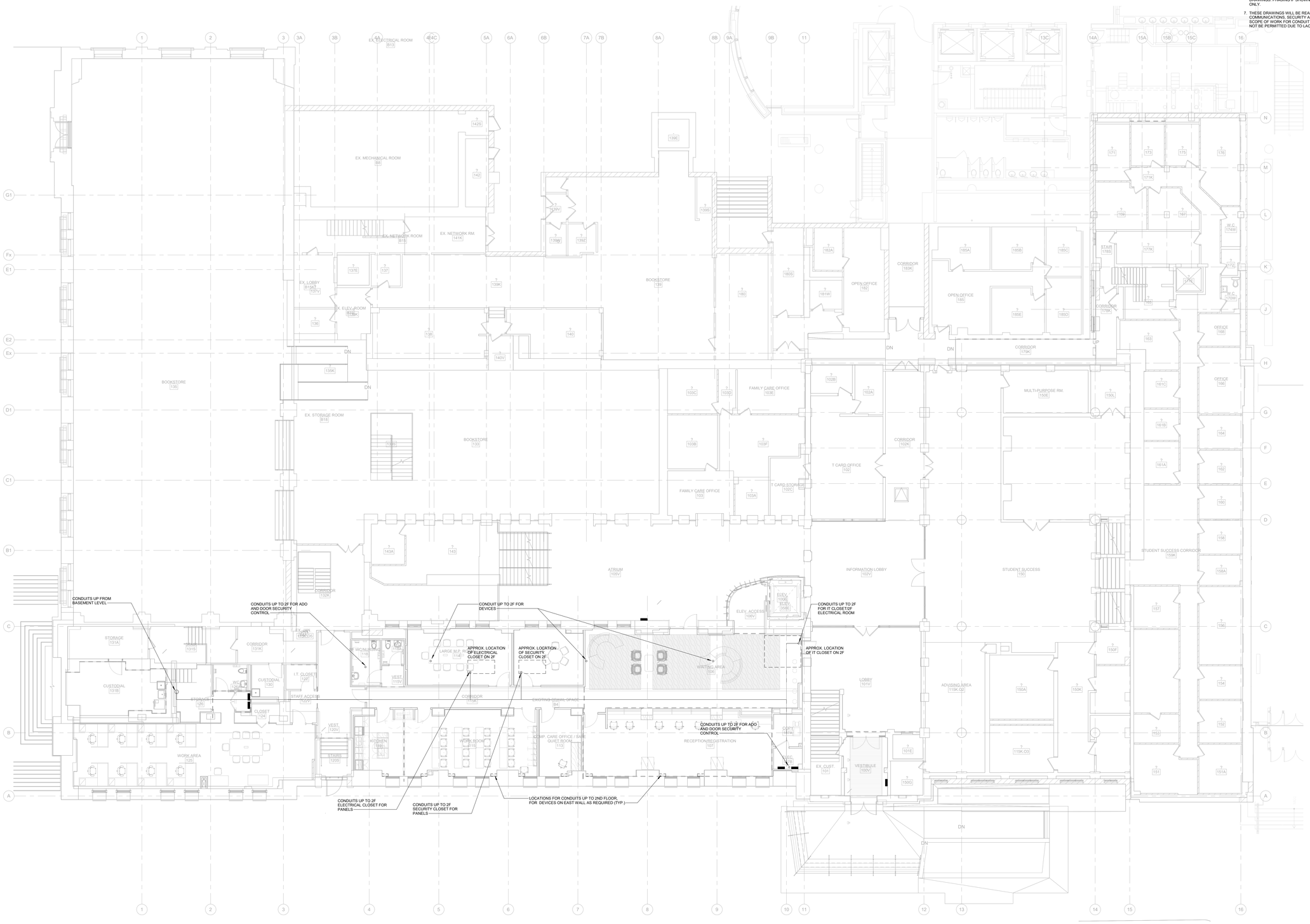
DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E305**

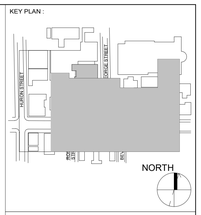
REV : **10**

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNERS/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. SHOWN IS PROPOSED ROUTING ONLY. EXACT ROUTING TO BE CONFIRMED ON SITE.
3. MAIN CONDUITS SHALL BE RUN ALONG CORRIDOR WHERE POSSIBLE.
4. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
5. ROUTE ALL CONDUIT SYSTEMS AROUND DUCT WORK, BEAMS AND PIPING AS REQUIRED TO ACCOMMODATE LAYOUT SHOWN. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
6. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/GC DRAWINGS. PHASING IF SHOWN IS FOR REFERENCE PURPOSES ONLY.
7. THESE DRAWINGS WILL BE READ IN CONJUNCTION WITH COMMUNICATIONS, SECURITY AND AV DRAWINGS FOR COMPLETE SCOPE OF WORK FOR CONDUIT PATHWAYS. ADDITIONAL FEES WILL NOT BE PERMITTED DUE TO LACK OF COORDINATION.



KEY PLAN :



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8	2025-03-14	BID ADDENDUM #02

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SHEET CONTENTS :

LEVEL 01 - PATHWAY LAYOUT

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1 : 100**

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E307**

REV : **8**

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNERS/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
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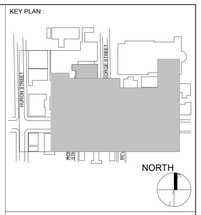
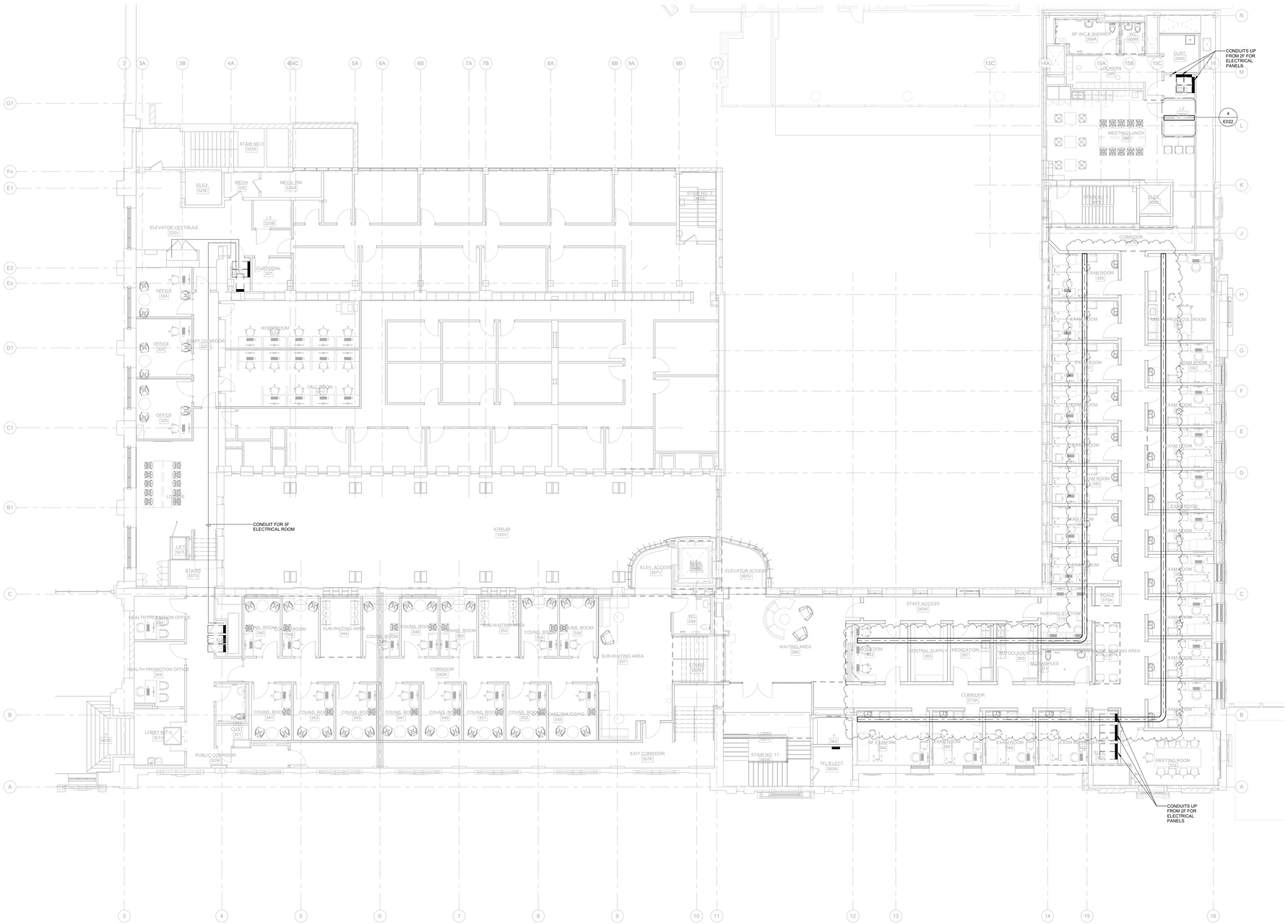
KEY PLAN :





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6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04

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TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 03 - PATHWAY LAYOUT

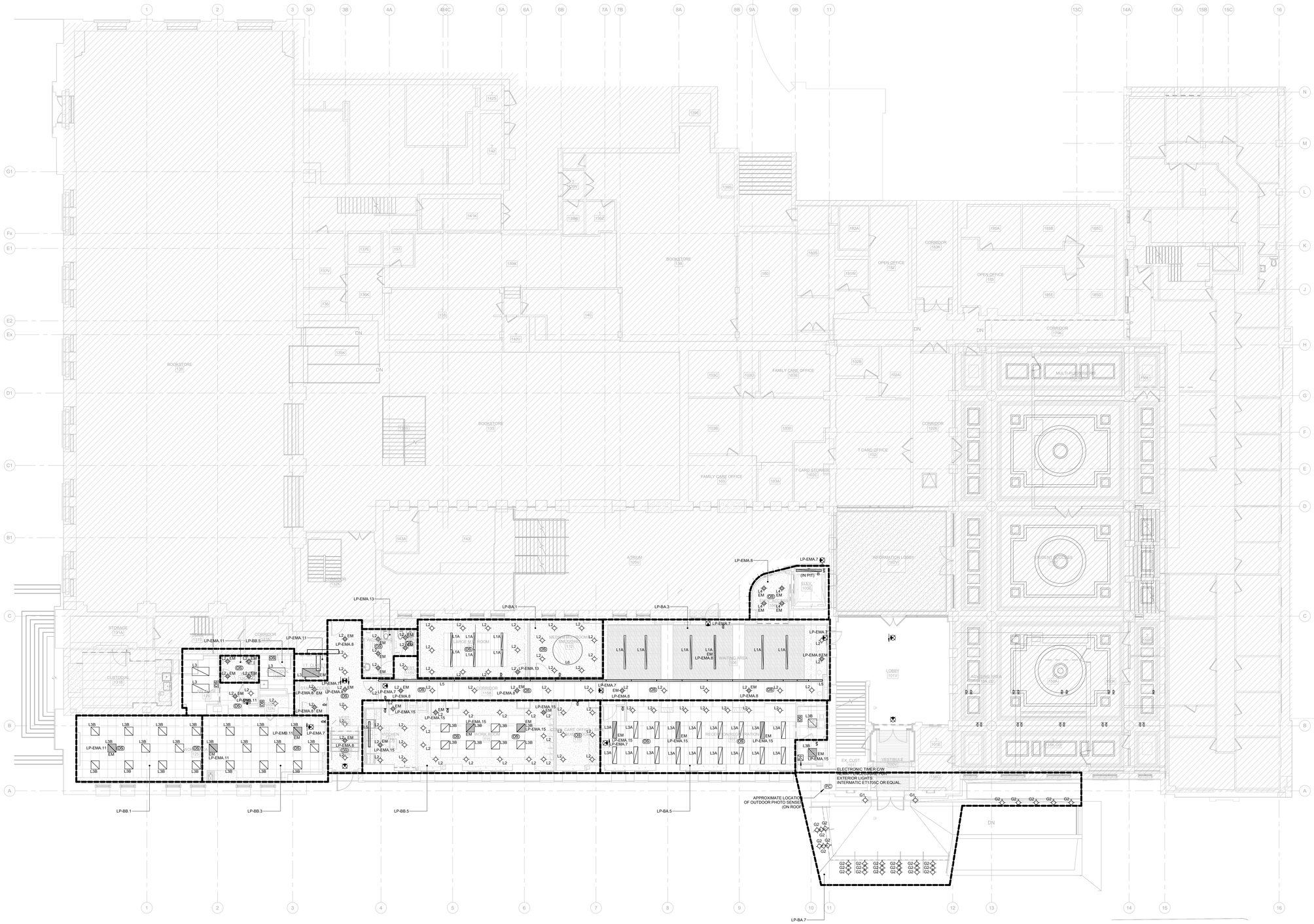
PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E309**

REV : **10**



DRAWING NOTES:

N-T

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.

2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.

3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.

4. ALL NEW/RELOCATED/REINSTALLED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.

5. RELAMP EXISTING AND RELOCATED LUMINAIRES DUE TO BURNOUT CONDITIONS AND REPLACE FAULTY BALLASTS AS REQUIRED. INCLUDE IN BASE PRICE.

6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.

7. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120-347VAC. CONNECT NEW EXIT SIGNS TO THE EXIT LIGHTING CIRCUIT SERVING THIS AREA. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR FIVE (5) ADDITIONAL EXIT SIGNS PER FLOOR (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.

8. LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.

9. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.

10. LIGHTING FIXTURES IDENTIFIED AS EMERGENCY ARE TO BE CONNECTED SO THAT UNDER NORMAL CONDITIONS THEY WORK IN CONJUNCTION WITH THE SWITCHING AS IDENTIFIED. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS.

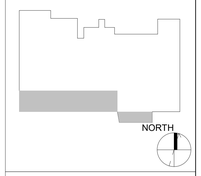
11. REMOVE ALL PAGING/AUDIO SPEAKERS IN RENOVATED AREA NOT SHOWN ON PLANS. ALL "EXISTING TO REMAIN" SPEAKERS TO BE FIRE ALARM EVAC SPEAKERS ONLY.

12. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 6'0" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.

13. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/CC DRAWINGS. PHASING SHOWN IS FOR REFERENCE PURPOSES ONLY.

14. ALLOW FOR THE REWORKING OF EXISTING CONDUIT/FEEDERS TO ACCOMMODATE NEW SCOPE OF WORK AND/OR INTERFERENCES.

KEY PLAN :



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SHEET CONTENTS :

LEVEL 01 - LIGHTING PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E401**

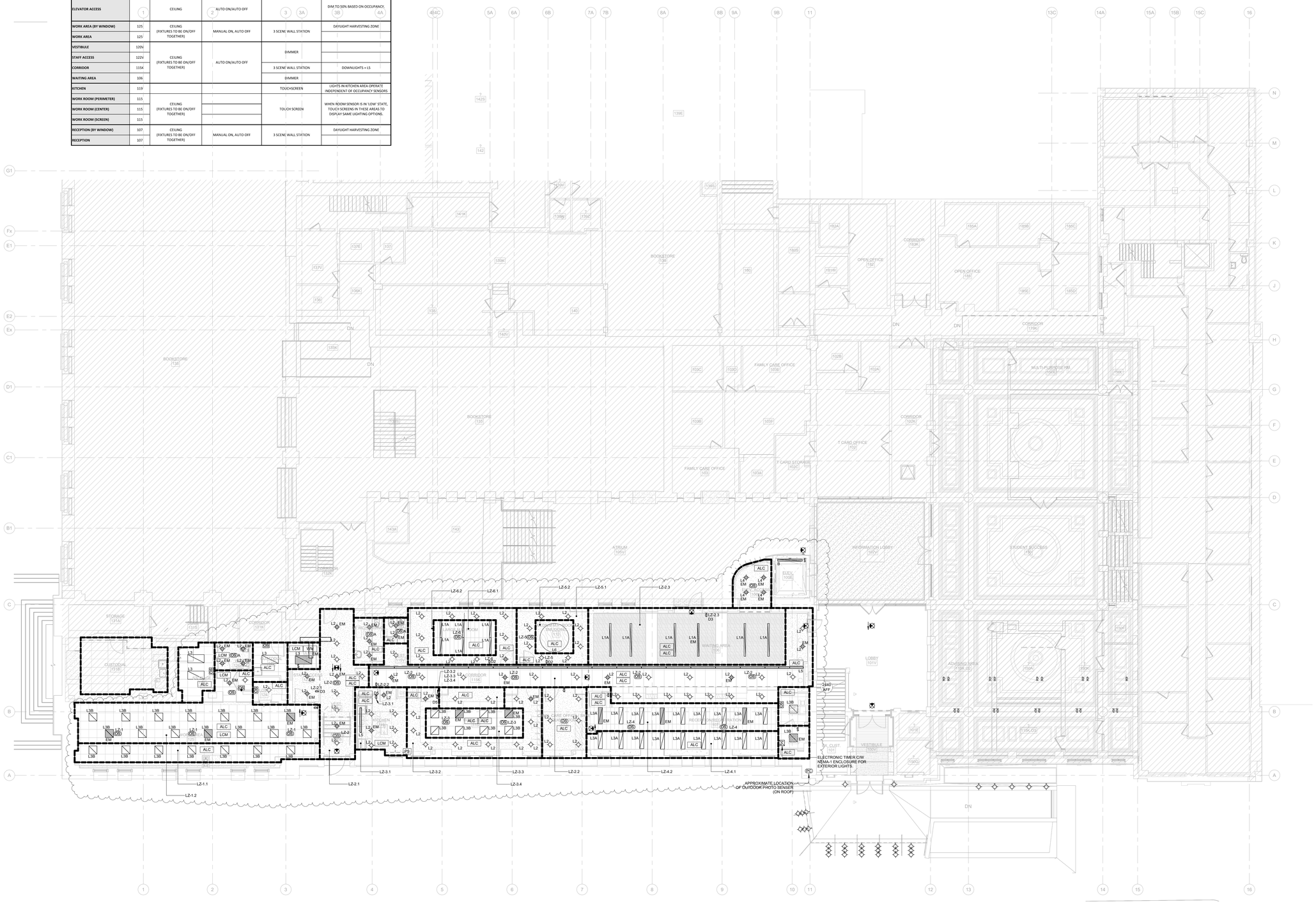
REV : **6**

AREA	ROOM #	OCCUPANCY SENSOR (WALL/CEILING)	ON/OFF	LOCAL CONTROL (SWITCH, WALL STATION, DIMMER)	NOTES
CUSTODIAL ROOMS/STORAGE		WALL	AUTO ON/AUTO OFF		
WASHROOMS		CEILING	AUTO ON/AUTO OFF		LIGHTING ON EM CCT
ELECTRICAL CLOSET/ROOMS				SWITCH	LIGHTING ON EM CCT
IT CLOSET				SWITCH	LIGHTING ON EM CCT
INDIVIDUAL OFFICES	113	CEILING	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	
INDIVIDUAL ROOMS		WALL	MANUAL ON, AUTO OFF	DIMMER BUILT-IN TO WALL OS	
MULTIPURPOSE ROOMS		CEILING SENSOR	MANUAL ON, AUTO OFF	5 SCENE WALL STATION	
ELEVATOR ACCESS	1	CEILING	2 AUTO ON/AUTO OFF	3 3A	DIM TO 50% BASED ON OCCUPANCY. 3B 4A
WORK AREA (BY WINDOW)	125	CEILING (FIXTURES TO BE ON/OFF TOGETHER)	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	DAYLIGHT HARVESTING ZONE
WORK AREA	125				
VESTIBULE	120V	CEILING (FIXTURES TO BE ON/OFF TOGETHER)	AUTO ON/AUTO OFF	DIMMER	
STAFF ACCESS	122V				
CORRIDOR	115K			3 SCENE WALL STATION	DOWNLIGHTS + LS
WAITING AREA	106			DIMMER	
KITCHEN	119			TOUCHSCREEN	LIGHTS IN KITCHEN AREA OPERATE INDEPENDENT OF OCCUPANCY SENSORS
WORK ROOM (PERIMETER)	115	CEILING (FIXTURES TO BE ON/OFF TOGETHER)		TOUCH SCREEN	WHEN ROOM SENSOR IS IN 'LOW' STATE, TOUCH SCREENS IN THESE AREAS TO DISPLAY SAME LIGHTING OPTIONS.
WORK ROOM (CENTER)	115				
WORK ROOM (SCREEN)	115				
RECEPTION (BY WINDOW)	107	CEILING (FIXTURES TO BE ON/OFF TOGETHER)	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	DAYLIGHT HARVESTING ZONE
RECEPTION	107				

NOTE:
1. UNLESS NOTED OTHERWISE, ALL SENSORS TO BE SET TO 20 MINUTE OFF DELAY
2. MULTIPLE AREAS/ZONES CONTROLLED BY CEILING SENSORS SHALL BE ON/OFF TOGETHER WITH LOCAL CONTROL (AS SHOWN)
3. PROVIDE SHUNT TRIP RELAY AS REQUIRED FOR ROOMS WITH TOGGLE SWITCH CONTROLS AND EM LIGHTING CIRCUIT

DEFAULT SCENE WALL STATION LEVELS

	SCENE	LEVEL	
35	1	100	FINAL LEVELS TO BE CONFIRMED WITH CLIENT DURING SYSTEM COMMISSIONING
	2	75	
	3	50	
55	1	100	
	2	75	
	3	50	
	4	60	
	5	25	



DRAWING NOTES:

(N-1) LIGHTING/CEILING DEVICES IN THIS AREA TO BE REMOVED AND REINSTALLED AS REQUIRED TO ACCOMMODATE MECHANICAL WORK IN THIS AREA. COORDINATE THIS SCOPE OF WORK WITH MECHANICAL.

GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
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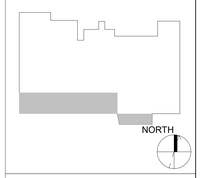
KEY PLAN :



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6	2025-01-31	ISSUED FOR BID
9	2025-03-21	BID ADDENDUM #03
10	2025-03-25	BID ADDENDUM #04

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SEAL :

OWNER:
UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

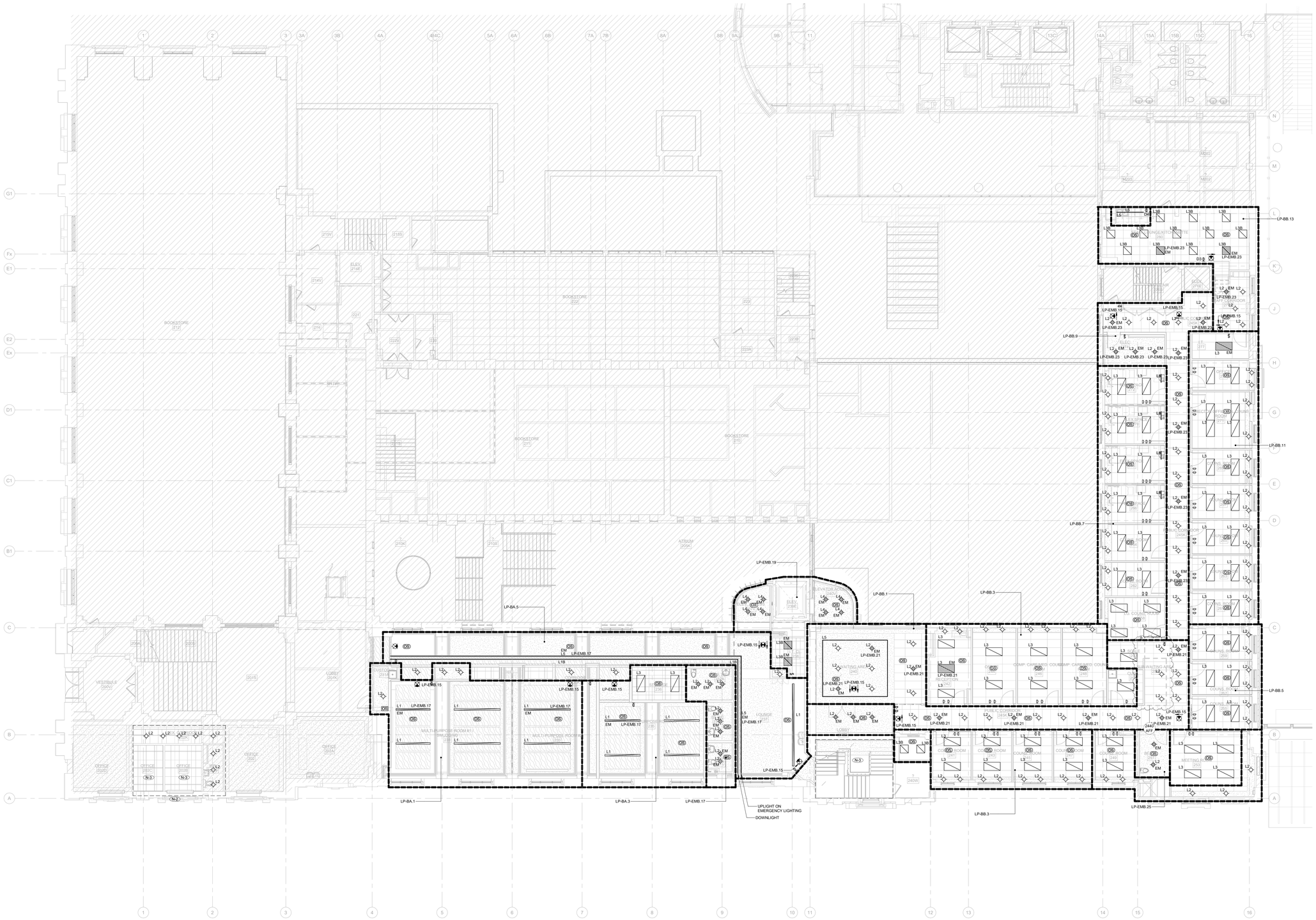
SHEET CONTENTS :
LEVEL 01 - LIGHTING CONTROL PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E401-A**
REV : **10**



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1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.

2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.

3. PROVIDE EXIT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.

4. ALL NEW/RELOCATED/REINSTALLED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.

5. RELAMP EXISTING AND RELOCATED LUMINAIRES DUE TO BURNOUT CONDITIONS AND REPLACE FAULTY BALLASTS AS REQUIRED. INCLUDE IN BASE PRICE.

6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION, TO THE CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.

7. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120-347VAC. CONNECT NEW EXIT SIGNS TO THE EXIT LIGHTING CIRCUIT SERVING THIS AREA. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR FIVE (5) ADDITIONAL EXIT SIGNS PER FLOOR (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.

8. LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.

9. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.

10. LIGHTING FIXTURES IDENTIFIED AS EMERGENCY ARE TO BE CONNECTED SO THAT UNDER NORMAL CONDITIONS THEY WORK IN CONJUNCTION WITH THE SWITCHING AS IDENTIFIED. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS.

11. REMOVE ALL PAGING/AUDIO SPEAKERS IN RENOVATED AREA NOT SHOWN ON PLANS. ALL "EXISTING TO REMAIN" SPEAKERS TO BE FIRE ALARM EVAC SPEAKERS ONLY.

12. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 610" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.

13. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/CC DRAWINGS. PHASING SHOWN IS FOR REFERENCE PURPOSES ONLY.

14. ALLOW FOR THE REWORKING OF EXISTING CONDUIT/FEEDERS TO ACCOMMODATE NEW SCOPE OF WORK AND/OR INTERFERENCES.

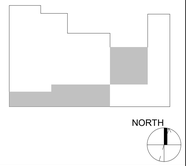
DRAWING NOTES:

N-1: LIGHTING/CEILING DEVICES IN THIS AREA TO BE REMOVED AND REINSTALLED AS REQUIRED TO ACCOMMODATE MECHANICAL WORK IN THIS AREA. COORDINATE THIS SCOPE OF WORK WITH MECHANICAL.

N-2: EXISTING LIGHTING CONTROL IN THIS AREA TO REMAIN.

N-3: EXISTING LIGHT FIXTURES IN THIS AREA TO REMAIN.

KEY PLAN :



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TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 02 - LIGHTING PLAN

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO :
E402

REV :
10

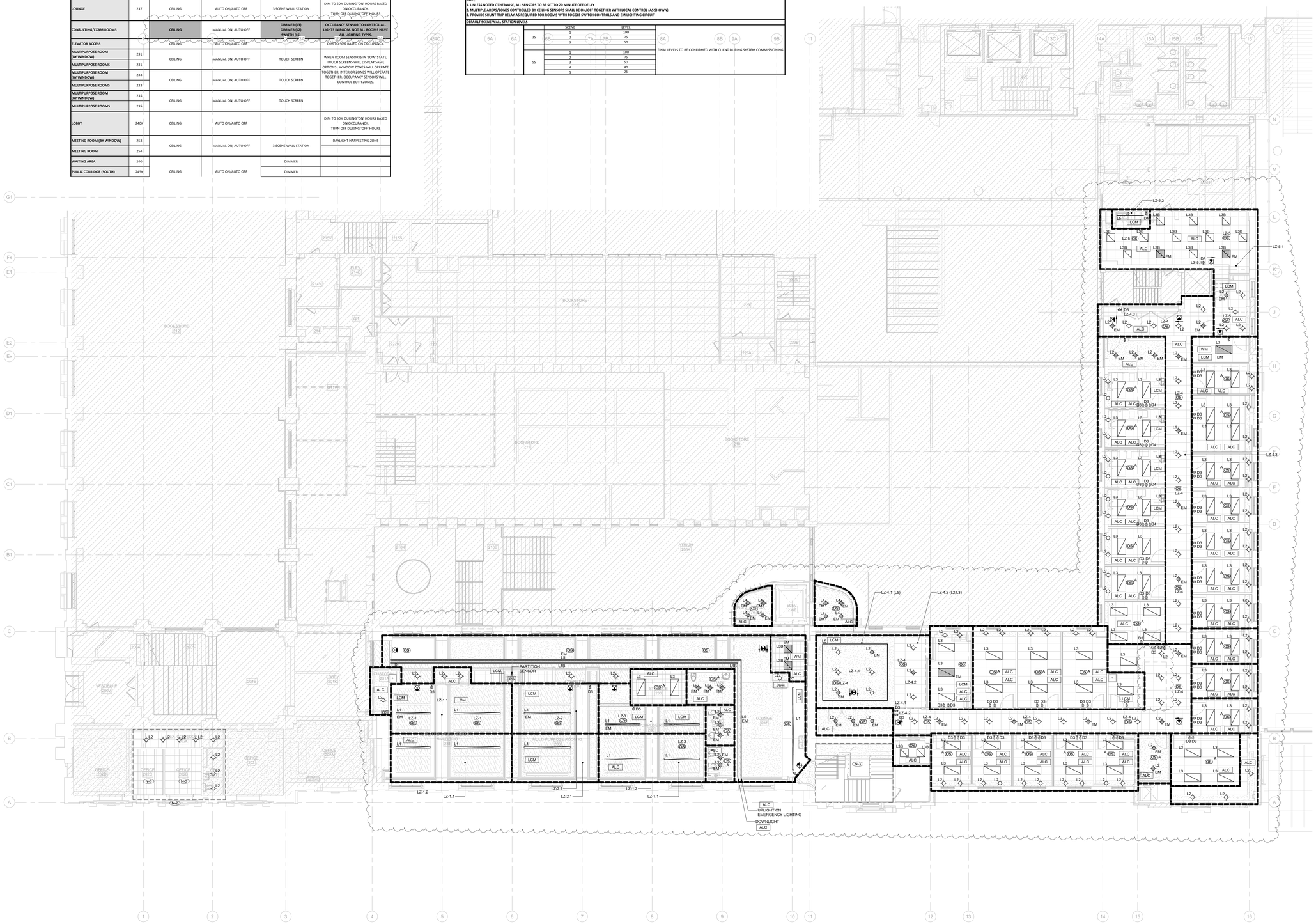
AREA	ROOM #	OCCUPANCY SENSOR (WALL,CEILING)	ON/OFF	LOCAL CONTROL (SWITCH, WALL STATION, DIMMER)	NOTES
CUSTODIAL ROOMS/STORAGE		WALL	AUTO ON/AUTO OFF		
WASHROOMS		CEILING	AUTO ON/AUTO OFF		LIGHTING ON EM CCT
ELECTRICAL CLOSET/ROOMS				TOGGLE SWITCH	LIGHTING ON EM CCT
IT CLOSET				TOGGLE SWITCH	LIGHTING ON EM CCT
LOUNGE	237	CEILING	AUTO ON/AUTO OFF	3 SCENE WALL STATION	DIM TO 50% DURING 'ON' HOURS BASED ON OCCUPANCY. TURN OFF DURING 'OFF' HOURS
CONSULTING/EXAM ROOMS		CEILING	MANUAL ON, AUTO OFF	DIMMER (L3) DIMMER (L2) SWITCH (L1)	OCCUPANCY SENSOR TO CONTROL ALL LIGHTS IN ROOM. NOT ALL ROOMS HAVE ALL LIGHTING TYPES.
ELEVATOR ACCESS		CEILING	AUTO ON/AUTO OFF		DIM TO 50% BASED ON OCCUPANCY.
MULTIPURPOSE ROOM (BY WINDOW)	231	CEILING	MANUAL ON, AUTO OFF	TOUCH SCREEN	WHEN ROOM SENSOR IS IN 'LOW' STATE, TOUCH SCREENS WILL DISPLAY SAME OPTIONS. WINDOW ZONES WILL OPERATE TOGETHER. INTERIOR ZONES WILL OPERATE TOGETHER. OCCUPANCY SENSORS WILL CONTROL BOTH ZONES.
MULTIPURPOSE ROOMS	231				
MULTIPURPOSE ROOM (BY WINDOW)	233	CEILING	MANUAL ON, AUTO OFF	TOUCH SCREEN	
MULTIPURPOSE ROOMS	233				
MULTIPURPOSE ROOM (BY WINDOW)	235	CEILING	MANUAL ON, AUTO OFF	TOUCH SCREEN	
MULTIPURPOSE ROOMS	235				
LOBBY	240K	CEILING	AUTO ON/AUTO OFF		DIM TO 50% DURING 'ON' HOURS BASED ON OCCUPANCY. TURN OFF DURING 'OFF' HOURS
MEETING ROOM (BY WINDOW)	253	CEILING	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	DAYLIGHT HARVESTING ZONE
MEETING ROOM	254				
WAITING AREA	240			DIMMER	
PUBLIC CORRIDOR (SOUTH)	245K	CEILING	AUTO ON/AUTO OFF	DIMMER	
PUBLIC CORRIDOR (NORTH)	245K			DIMMER	
STAFF CORRIDOR	277K	CEILING	AUTO ON/AUTO OFF	DIMMER	
STAFF LOUNGE/KITCHENETTE	280				
STAFF LOUNGE/KITCHENETTE	280		MANUAL ON/AUTO OFF	WALL SWITCH	UNDER CABINET LIGHT
RECEPTION	242	CEILING	MANUAL ON, AUTO OFF	3 SCENE WALL STATION	

NOTE:
1. UNLESS NOTED OTHERWISE, ALL SENSORS TO BE SET TO 20 MINUTE OFF DELAY
2. MULTIPLE AREAS/ZONES CONTROLLED BY CEILING SENSORS SHALL BE ON/OFF TOGETHER WITH LOCAL CONTROL (AS SHOWN)
3. PROVIDE SHUNT TRIP RELAY AS REQUIRED FOR ROOMS WITH TOGGLE SWITCH CONTROLS AND EM LIGHTING CIRCUIT

DEFAULT SCENE WALL STATION LEVELS

	SCENE	LEVEL
35	1	100
	2	75
	3	50
55	1	100
	2	75
	3	50
	4	40
	5	25

FINAL LEVELS TO BE CONFIRMED WITH CLIENT DURING SYSTEM COMMISSIONING



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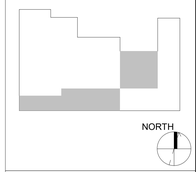

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SHEET CONTENTS :

LEVEL 02 - LIGHTING CONTROL PLAN

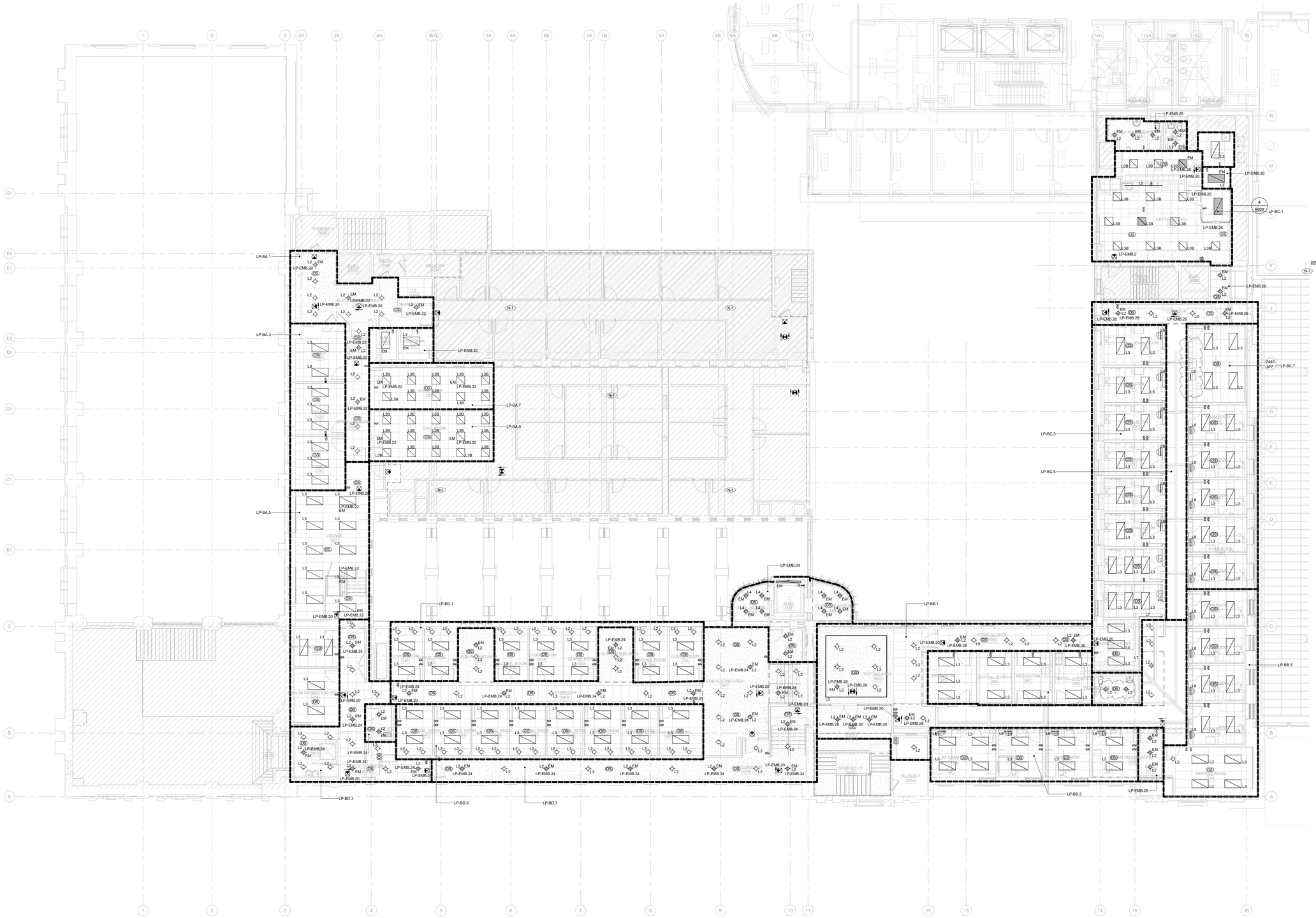
PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1 : 100**

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E402-A**

REV : **10**



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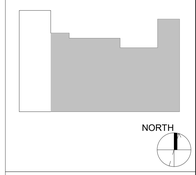
DRAWING NOTES:

N-1 WALLS SHOWN IN THIS HATCHED AREA ARE FOR REFERENCE ONLY. SPACE WILL BE IN SHELL CONDITION.

KEY PLAN :



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SHEET CONTENTS :

LEVEL 03 - LIGHTING PLAN

PROJECT NUMBER : 21590.003

DRAWING SCALE : 1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E403**

REV : 10

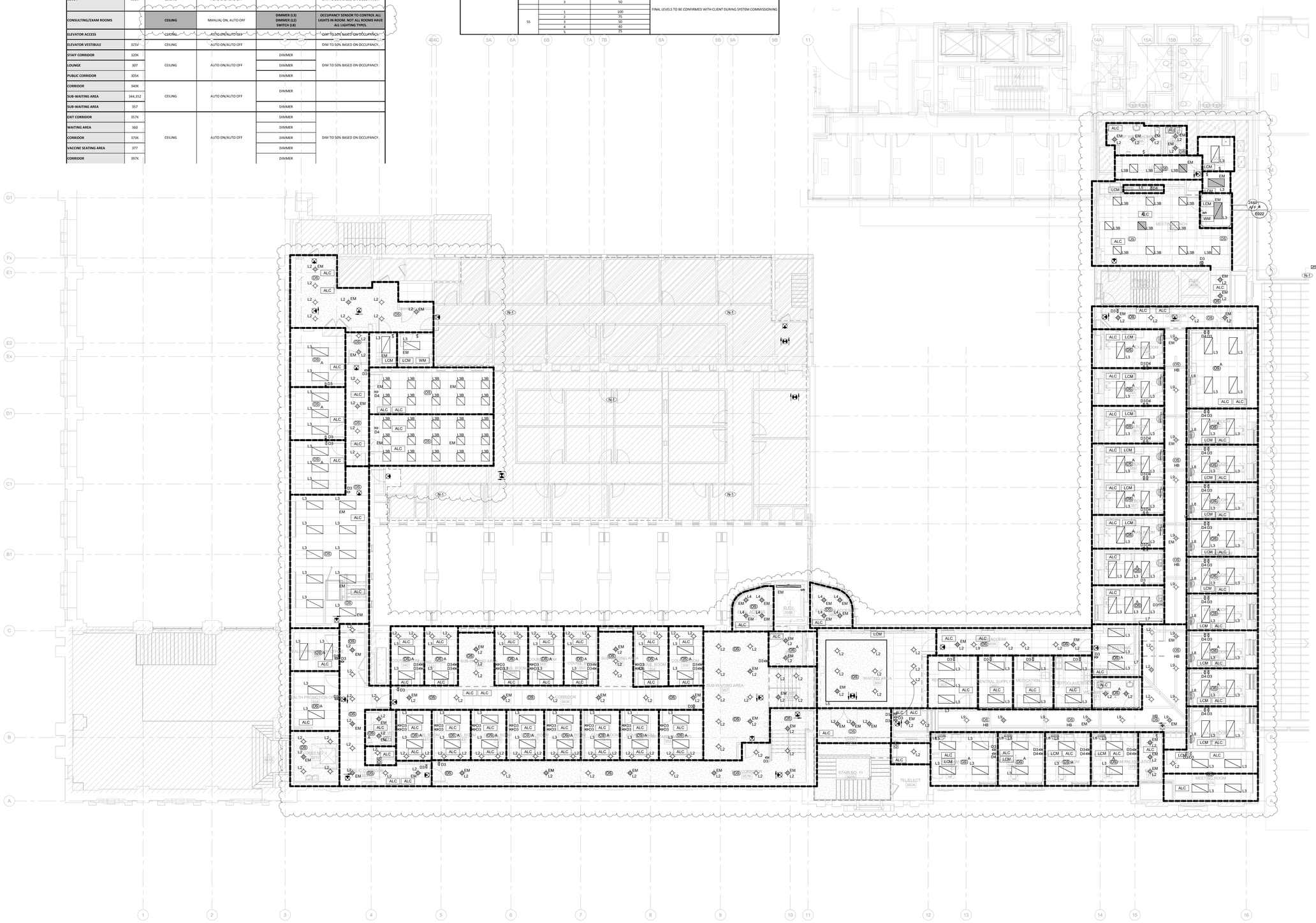
AREA	ROOM #	OCCUPANCY SENSOR (WALL/CEILING)	ON/OFF	LOCAL CONTROL (SWITCH, WALL STATION, DIMMER)	NOTES
CUSTODIAL ROOMS/STORAGE		WALL	AUTO ON/AUTO OFF		
WASHROOMS		CEILING	AUTO ON/AUTO OFF		LIGHTING ON EM CCT
BF WASHROOM & SHOWER	399A			TOGGLE SWITCH	LIGHTING ON EM CCT
ELECTRICAL CLOSET/ROOMS				TOGGLE SWITCH	LIGHTING ON EM CCT
IT CLOSET				TOGGLE SWITCH	LIGHTING ON EM CCT
LOBBY	360V	CEILING	AUTO ON/AUTO OFF		DIM TO 50% BASED ON OCCUPANCY.
CONSULTING/EXAM ROOMS		CEILING	MANUAL ON, AUTO OFF	DIMMER (L3) DIMMER (L2) SWITCH (L8)	OCCUPANCY SENSOR TO CONTROL ALL LIGHTS IN ROOM. NOT ALL ROOMS HAVE ALL LIGHTING TYPES.
ELEVATOR ACCESS		CEILING	AUTO ON/AUTO OFF		DIM TO 50% BASED ON OCCUPANCY.
ELEVATOR VESTIBULE	325V	CEILING	AUTO ON/AUTO OFF		DIM TO 50% BASED ON OCCUPANCY.
STAFF CORRIDOR	320K	CEILING	AUTO ON/AUTO OFF	DIMMER	DIM TO 50% BASED ON OCCUPANCY.
LOUNGE	307			DIMMER	
PUBLIC CORRIDOR	305K			DIMMER	
CORRIDOR	340K	CEILING	AUTO ON/AUTO OFF	DIMMER	DIM TO 50% BASED ON OCCUPANCY.
SUB-WAITING AREA	344,352				
SUB-WAITING AREA	357			DIMMER	
EXIT CORRIDOR	357K	CEILING	AUTO ON/AUTO OFF	DIMMER	DIM TO 50% BASED ON OCCUPANCY.
WAITING AREA	360			DIMMER	
CORRIDOR	370K			DIMMER	
VACCINE SEATING AREA	377			DIMMER	
CORRIDOR	397K			DIMMER	

MEETING/LUNCH	398	CEILING (FIXTURES TO BE ON/OFF TOGETHER)	AUTO ON/AUTO OFF	DIMMER	AUTO ON TO 50%
LOCKERS	399				
MEETING/LUNCH (L4 FIXTURE)	398		MANUAL ON/ AUTO OFF	WALL SWITCH	UNDER CABINET LIGHT

NOTE:
1. UNLESS NOTED OTHERWISE, ALL SENSORS TO BE SET TO 20 MINUTE OFF DELAY
2. MULTIPLE AREAS/ZONES CONTROLLED BY CEILING SENSORS SHALL BE ON/OFF TOGETHER WITH LOCAL CONTROL (AS SHOWN)
3. PROVIDE SHUNT TRIP RELAY AS REQUIRED FOR ROOMS WITH TOGGLE SWITCH CONTROLS AND EM LIGHTING CIRCUIT

DEFAULT SCENE WALL STATION LEVELS

	SCENE	LEVEL	
3S	1	100	FINAL LEVELS TO BE CONFIRMED WITH CLIENT DURING SYSTEM COMMISSIONING
	2	75	
	3	50	
	4	40	
5S	1	100	
	2	75	
	3	50	
	4	40	
	5	25	



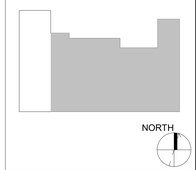
GENERAL NOTES:

1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH INTERIOR DESIGNER'S/ARCHITECT'S DRAWINGS FOR DIMENSIONS, HEIGHTS, CONSTRUCTION DETAILING, FINISHES AND COLOURS.
2. CIRCUITING IN PART IS DIAGRAMMATIC INTENDED TO SHOW GENERAL CIRCUIT ARRANGEMENT AND PANEL DESIGNATION.
3. PROVIDE EMT CONDUIT IN AREAS WITH EXPOSED CEILINGS. BX CABLING IS NOT ACCEPTABLE UNLESS OTHERWISE NOTED. BX CABLES MAY BE USED FOR FINAL CONNECTIONS TO LIGHTING FIXTURES OR EQUIPMENT WITH A MAXIMUM HORIZONTAL RUN LENGTH OF 3 FEET / 1 METER. PAINT CONDUITS TO MATCH ARCHITECTURAL BACKGROUNDS. MOUNT EXIT SIGNS, OCCUPANCY SENSORS, EXIT SIGNS, CAMERAS, WAPS AND ALL OTHER CEILING MOUNTED DEVICES WITH STEMS SUCH THAT THEY ARE ON THE SAME PLANE AS SUSPENDED LIGHTING FIXTURES. COORDINATE CEILINGS AND WALL HEIGHTS WITH INTERIOR DESIGNER DRAWINGS.
4. ALL NEW/RELOCATED/REINSTALLED BASE BUILDING STANDARD LUMINAIRES AND NEW RECESSED DOWN LIGHTS SHALL BE CHAIN HUNG AND SUPPORTED FROM THE SLAB ABOVE. PROVIDE LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
5. RELAMP EXISTING AND RELOCATED LUMINAIRES DUE TO BURNOUT CONDITIONS AND REPLACE FAULTY BALLASTS AS REQUIRED. INCLUDE IN BASE PRICE.
6. MEASURE THE ILLUMINATION OF THE FLOOR AT NIGHT WITH EMERGENCY LIGHTING ON ONLY, AND SEND A DRAWING SHOWING THE MAXIMUM AND MINIMUM LEVEL OF ILLUMINATION. TO THE CONSULTING ENGINEER, FOR REVIEW. PROVIDE WRITTEN CONFIRMATION THAT EMERGENCY LIGHTING HAS BEEN INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND LATEST EDITION OF THE ONTARIO BUILDING CODE SECTIONS 3.2.7.3 AND 3.2.7.4. LETTER TO BE INCLUDED AS PART OF CLOSE-OUT DOCUMENT SUBMITTAL PACKAGE.
7. PROVIDE NEW PICTOGRAM (RUNNING MAN) TYPE EXIT SIGNS, FACES AND INDICATOR ARROWS AS PER DRAWINGS AND UNIVERSAL 120-347VAC. CONNECT NEW EXIT SIGNS TO THE EXIT LIGHTING CIRCUIT SERVING THIS AREA. DO NOT OVERLOAD THE CIRCUIT. ALLOW FOR FIVE (5) ADDITIONAL EXIT SIGNS PER FLOOR (COMPLETE WITH MATERIAL AND LABOUR) TO BE INSTALLED AS PER BUILDING INSPECTORS REQUIREMENTS UPON FINAL INSPECTION.
8. LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
9. ENSURE THAT ALL LIGHTING FIXTURES ARE CLEAN AND ILLUMINATED BY END OF PROJECT.
10. LIGHTING FIXTURES IDENTIFIED AS EMERGENCY ARE TO BE CONNECTED SO THAT UNDER NORMAL CONDITIONS THEY WORK IN CONJUNCTION WITH THE SWITCHING AS IDENTIFIED. IN THE EVENT OF AN EMERGENCY, THESE LIGHTS ARE TO BE FORCED ON WITH THE USE OF A UL-924 LISTED RELAY. UPON POWER FAILURE THE RELAY IS TO ACTIVATE THE LIGHTS TO FULL BRIGHTNESS.
11. REMOVE ALL PAGING/AUDIO SPEAKERS IN RENOVATED AREA NOT SHOWN ON PLANS. ALL "EXISTING TO REMAIN" SPEAKERS TO BE FIRE ALARM EVAC SPEAKERS ONLY.
12. ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE LOCATED AT LEAST 610" AWAY FROM ANY SUPPLY AIR DIFFUSER AND RETURN AIR GRILLE AS PER MANUFACTURER'S RECOMMENDATION. COORDINATE INSTALLATION ON SITE WITH MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
13. COORDINATE ALL WORK TO SUIT PROJECT PHASE SCHEDULE. COORDINATE PHASING WITH ARCHITECT/INTERIOR DESIGN/CC DRAWINGS. PHASING SHOWN IS FOR REFERENCE PURPOSES ONLY.

DRAWING NOTES:

N-1 WALLS SHOWN IN THIS HATCHED AREA ARE FOR REFERENCE ONLY. SPACE WILL BE IN SHELL CONDITION.

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
2	2024-11-15	PERMIT
3	2024-12-04	ISSUED FOR F&S REVIEW
4	2024-12-23	ISSUED FOR F&S REVIEW
5	2025-01-24	ISSUED FOR PEER REVIEW
6	2025-01-31	ISSUED FOR BID
9	2025-03-21	BID ADDENDUM #03
10	2025-03-25	BID ADDENDUM #04

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www.enformarchitects.com

SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 03 - LIGHTING CONTROL PLAN

PROJECT NUMBER : 21590.003

DRAWING SCALE : 1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **E403-A** REV : 10

Smith + Andersen

1100 – 100 Sheppard Ave. East, Toronto ON M2N 6N5
t 416 487 8151 f 416 487 9104 smithandandersen.com

ADDENDUM

PROJECT NAME:	Health And Wellness Centre Renovation at Koffler
COMPANY:	Enform
ATTENTION:	Alan Fraser
PROJECT NO.:	21590.003.D.001
DATE:	2025-03-25
ADDENDUM NO.:	ADD-D-04
ISSUED BY:	Joshua Blizzard

The following amendments are hereby made as part of the Contract Documents. The following revisions and/or additions shall be made to contract documents and the cost shall be included in the Tender Price.

1.0 DRAWINGS

1.1 Refer to Drawing TC-0.0 – Cover Page (included herein)

1.1.1 Replace entire drawing with one attached.

1.2 Refer to Drawing TC-0.1 – Drawing List, General Notes, Abbreviations, Legends, and Details (included herein)

1.2.1 Replace entire drawing with one attached.

1.3 Refer to Drawing TC-0.2 – Communications Telecom Rooms Details (included herein)

1.3.1 Replace entire drawing with one attached.

1.4 Refer to Drawing TC-0.3 – Communications Riser Diagram (included herein)

1.4.1 Replace entire drawing with one attached.

1.5 Refer to Drawing TC-B1.1 – Basement Level Communications Layout (included herein)

1.5.1 Replace entire drawing with one attached.

1.6 Refer to Drawing TC-1.1 – 1st Floor Communications Layout (included herein)

1.6.1 Replace entire drawing with one attached.

1.7 Refer to Drawing TC-1.2 – 1st Floor Wireless Access Point Plan (included herein)

1.7.1 Replace entire drawing with one attached.

1.8 Refer to Drawing TC-1M.1 – Upper Mezzanine Communications Layout (included herein)

1.8.1 Replace entire drawing with one attached.

1.9 Refer to Drawing TC-2.1 – 2nd Floor Communications Layout (included herein)

1.9.1 Replace entire drawing with one attached.

1.10 Refer to Drawing TC-2.2 – 2nd Floor Wireless Access Points Plan (included herein)

1.10.1 Replace entire drawing with one attached.

1.11 Refer to Drawing TC-3.1 – 3rd Floor Communications Layout (included herein)

1.11.1 Replace entire drawing with one attached.

1.12 Refer to Drawing TC-3.2 – 3rd Floor Wireless Access Points Plan (included herein)

1.12.1 Replace entire drawing with one attached.

1.13 Refer to Drawing TC-MP.1 – Mechanical Penthouse Communications Layout (included herein)

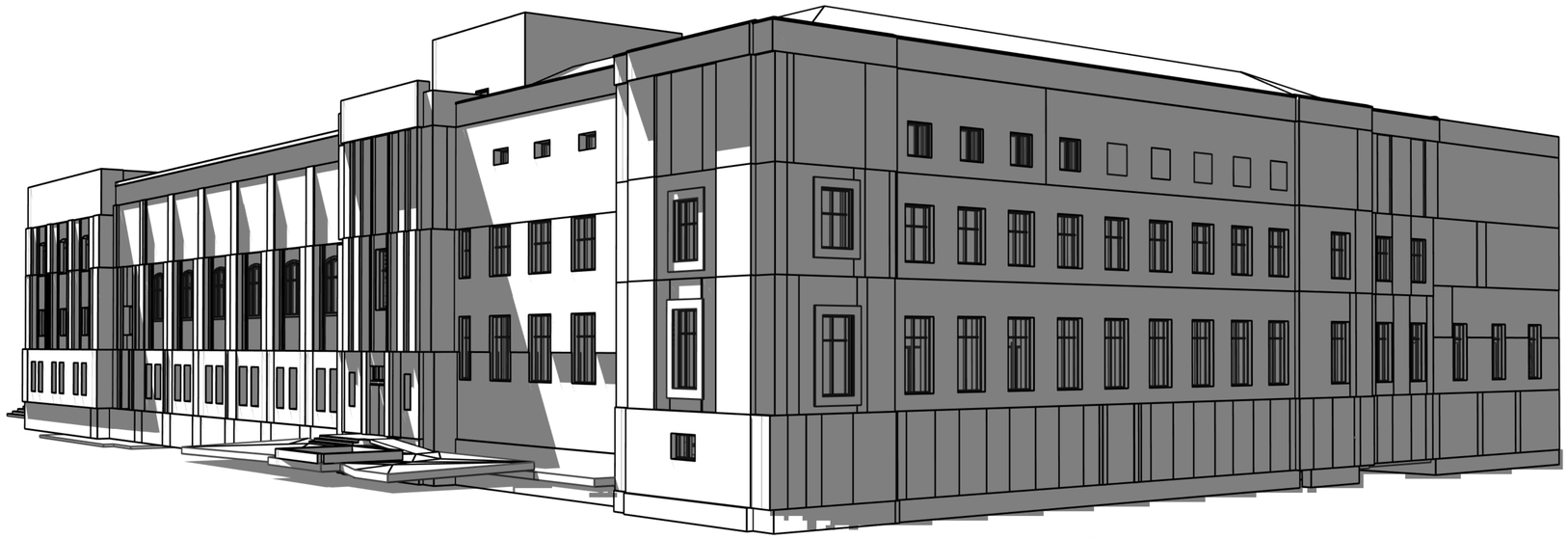
1.13.1 Replace entire drawing with one attached.

END OF TELECOMMUNICATIONS ADDENDUM

21590.003.D.001add004.docx

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST, TORONTO, ON M5T 3A1



KEY PLAN :

REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
3	2024-12-04	ISSUED FOR F&S REVIEW

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HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

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SHEET CONTENTS :

COVER PAGE

PROJECT NUMBER :

21590.003

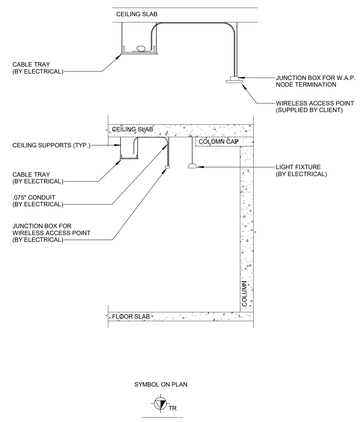
DRAWING SCALE :

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO :

TC-0.0

REV. : **3**

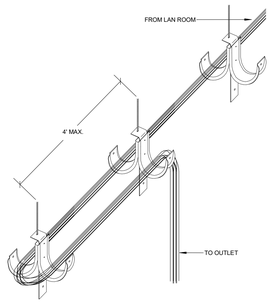


NOTES:

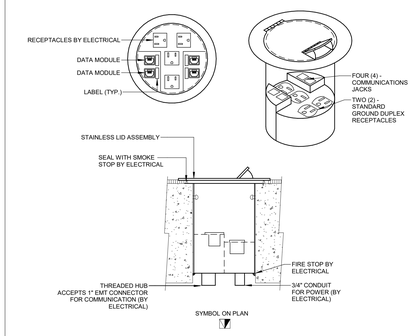
N-1 ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL TO PROVIDE PULL STRINGS IN EMPTY CONDUITS. CO-ORDINATE EXACT LOCATIONS ON SITE WITH COMMUNICATIONS CONTTRACTOR..

N-2 COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATIONS CABLING AND COMPONENTS.

10 WIRELESS ACCESS POINT ROUTING AND TERMINATION DETAIL - CABLE TRAY
TC-0.1 NTS



7 DUAL J-HOOK WITH PROPER COILED
TC-0.1 NTS



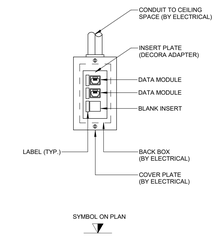
NOTES:

N-1 THIS DRAWING IS FOR SCHEMATIC PURPOSE. QUANTITIES TO SUIT CABLING REQUIREMENTS AS PER DRAWING.

N-2 COORDINATE SCHEDULING OF ALL WORK WITHIN CEILING SPACE BELOW WITH LANDLORD OR BUILDING OPERATIONS.

N-3 PENETRATIONS OF FLOOR BY ELECTRICAL.

4 POKE-THROUGH DATA OUTLET
TC-0.1 NTS.



NOTES:

N-1 REFER TO COMMUNICATIONS CABLING LAYOUT FOR EXACT DATA OUTLET QUANTITIES.

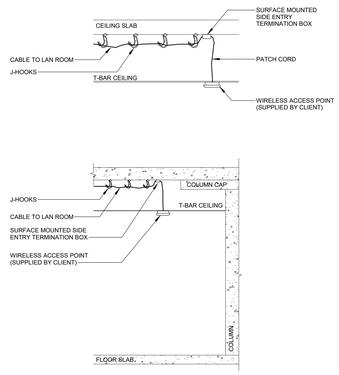
N-2 FOR COMMUNICATIONS CABLING, FACEPLATE, INSERT PLATES, JACKS, BLANK INSERT AND LABELING REFER TO COMMUNICATIONS SPECIFICATION.

N-3 CONDUIT AND BACKBOX BY ELECTRICAL.

N-4 ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS NOTED OTHERWISE.

N-5 PROVIDE A 4 PORT FACEPLATE AT AREAS INDICATED ON THE FLOOR LAYOUT.

1 TYPICAL WALL MOUNTED COMMUNICATIONS OUTLET DETAIL
TC-0.1 NTS.

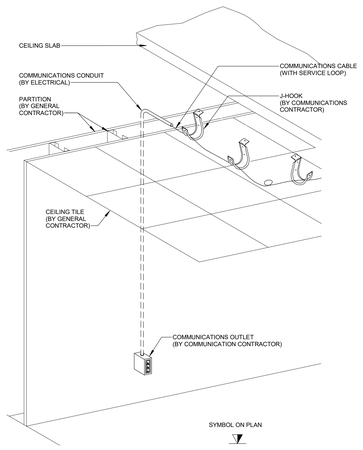


NOTES:

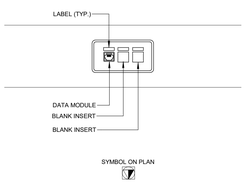
N-1 ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL TO PROVIDE PULL STRINGS IN EMPTY CONDUITS. CO-ORDINATE EXACT LOCATIONS ON SITE WITH COMMUNICATIONS CONTTRACTOR.

N-2 COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATIONS CABLING AND COMPONENTS.

8 WIRELESS ACCESS POINT ROUTING AND TERMINATION DETAIL - ACCESSIBLE CEILING1
TC-0.1 NTS



5 TYPICAL COMMUNICATIONS CABLE WALL ROUTING DETAIL - ACCESSIBLE CEILING
TC-0.1 NTS



NOTES:

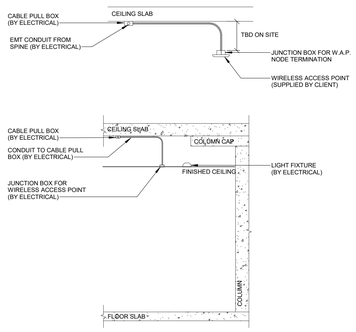
N-1 REFER TO COMMUNICATIONS CABLING LAYOUT FOR EXACT DATA OUTLET QUANTITIES.

N-2 FOR COMMUNICATIONS CABLING, FACEPLATE, INSERT PLATES, JACKS, BLANK INSERT AND LABELING. REFER TO COMMUNICATIONS SPECIFICATION.

N-3 CONDUIT AND BACKBOX BY ELECTRICAL.

N-4 ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS NOTED OTHERWISE.

2 TYPICAL FURNITURE MOUNTED COMMUNICATIONS OUTLET DETAIL
TC-0.1 NTS.

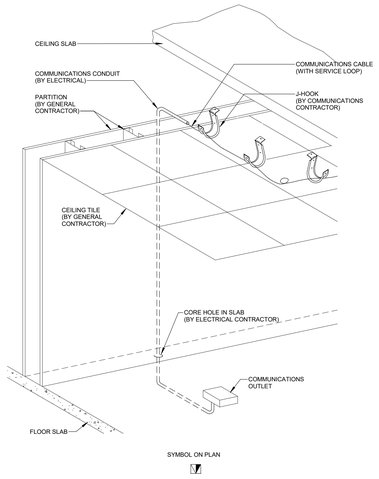


NOTES:

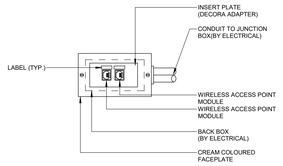
N-1 ALL CONDUIT TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL TO PROVIDE PULL STRINGS IN EMPTY CONDUITS. CO-ORDINATE EXACT LOCATIONS ON SITE WITH COMMUNICATIONS CONTTRACTOR.

N-2 COMMUNICATION CONTRACTOR TO PROVIDE ALL COMMUNICATIONS CABLING AND COMPONENTS.

9 WIRELESS ACCESS POINT ROUTING AND TERMINATION DETAIL - CONDUIT SPINE
TC-0.1 NTS



6 TYPICAL COMMUNICATIONS CABLE WALL ROUTING DETAIL - ACCESSIBLE CEILING #2
TC-0.1 NTS



NOTES:

N-1 WHILE EVERY ATTEMPT HAS BEEN MADE TO ENSURE ALL INFORMATION IS CORRECT AT THE TIME OF PUBLICATIONS, THE PRODUCTS SPECIFIED ARE AVAILABLE AND THAT THE PART NUMBER IDENTIFIED ARE CORRECT, IT IS THE RESPONSIBILITY OF THE COMMUNICATIONS CONTRACTOR TO VERIFY ALL PART NUMBERS AND TO REPORT ANY ERRORS AND/OR OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS WITH THEIR BID SUBMISSION.

N-2 COMMUNICATIONS CONTRACTOR TO PROVIDE 20 FOOT SERVICE LOOP

N-3 COMMUNICATIONS CONTRACTOR TO INSTALL CLIENT SUPPLIED WIRELESS ACCESS POINTS.

3 WIRELESS ACCESS POINT 2-PORT MDVO SIDE ENTRY TERMINATION BOX DETAIL
TC-0.1 NTS.

SHEET No.	SHEET NAME	SCALE
TC-0.0	COVER PAGE	N.T.S.
TC-0.1	DRAWING LIST, GENERAL NOTES, ABBREVIATIONS, LEGENDS AND DETAILS	N.T.S.
TC-0.2	COMMUNICATIONS TELECOM ROOMS DETAILS	N.T.S.
TC-0.3	COMMUNICATIONS RISER DIAGRAM	N.T.S.
TC-B1.1	LEVEL 00 COMMUNICATIONS LAYOUT	1:100
TC-1.1	LEVEL 01 COMMUNICATIONS LAYOUT	1:100
TC-1.2	LEVEL 01 WIRELESS ACCESS POINT PLAN	1:100
TC-1M.1	LEVEL 1 UPPER MEZZANINE	1:100
TC-2.1	LEVEL 02 COMMUNICATIONS LAYOUT	1:100
TC-2.2	LEVEL 02 WIRELESS ACCESS POINT PLAN	1:100
TC-3.1	LEVEL 03 COMMUNICATIONS LAYOUT	1:100
TC-3.2	LEVEL 03 WIRELESS ACCESS POINT PLAN	1:100
TC-MP.1	MECHANICAL PENTHOUSE COMMUNICATIONS LAYOUT	1:100

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	BP	BLANK PLATE
DAS	DISTRIBUTED ANTENNA SYSTEM	E	EXISTING TO REMAIN
ER	EXISTING TO BE REMOVED	FTTD	FIBRE TO THE DESK
JB	JUNCTION BOX	KW	KILOWATTS
R	EXISTING TO BE RELOCATED	RR	REMOVE AND REINSTALL
RSD	ROOM SCHEDULING DEVICE	TYP	TYPICAL - TO BE INTERPRETED AS THE SAME AS COMPARABLE FEATURES.
V	VOLTS	WAP	WIRELESS ACCESS POINT
WP	EXTERIOR/WEATHERPROOF		

LEGEND

6 / E-01	DETAIL NUMBER	12 / E-01	SECTION NUMBER
	DRAWING NUMBER		DRAWING NUMBER
	REVISION BUBBLE	4	REVISION NUMBER
	WALL MOUNTED DATA AND/OR VOICE OUTLETS. COMMUNICATIONS CABLE TYPE AS PER SPECIFICATION.		
	WALL MOUNTED DATA OUTLET. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	WALL MOUNTED VOICE OUTLET. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	WALL MOUNTED AUDIO VISUAL CONNECTION. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	FLOOR MOUNTED DATA AND/OR VOICE OUTLETS. COMMUNICATIONS CABLE TYPE AS PER SPECIFICATION.		
	FLOOR MOUNTED DATA OUTLET. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	FLOOR MOUNTED VOICE OUTLET. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	FURNITURE MOUNTED DATA AND/OR VOICE OUTLETS. COMMUNICATIONS CABLE TYPE AS PER SPECIFICATION.		
	FURNITURE MOUNTED DATA OUTLET. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	FURNITURE MOUNTED VOICE OUTLET. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	WIREMOLD MOUNTED DATA AND/OR VOICE OUTLETS. COMMUNICATIONS CABLE TYPE AS PER SPECIFICATION.		
	CEILING MOUNTED DATA OUTLET(S). CABLE TYPE AS PER SPECIFICATION.		
	CEILING MOUNTED DATA OUTLET. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	CEILING MOUNTED VOICE OUTLET. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	CEILING MOUNTED AUDIO VISUAL CONNECTION. COMMUNICATION CABLE TYPE AS PER SPECIFICATION.		
	4-PAIR HORIZONTAL COPPER DATA CABLE FOR SECURITY CAMERA CABLING.		
Z-XXX	4-PAIR HORIZONTAL COPPER CABLE. LABELING SCHEME SHOWN IS GENERIC. VERIFY EXACT LABELING SCHEME PRIOR TO INSTALLATION. LETTER DENOTES CABLE TYPE: D = DATA, V = VOICE, W = WIRELESS ACCESS POINT, AV = AUDIO/VISUAL DATA, S = SECURITY		
	COAXIAL CATV OUTLET		
W	FEED POINT FOR COMMUNICATIONS CABLING. LETTER DENOTES FEED LOCATION: W = WALL, F = FLOOR, P = PAC POLE, WM = WIREMOLD		
	CONDUIT FOR COMMUNICATIONS CABLING. SIZE AND QUANTITY AS NOTED. BY ELECTRICAL UNLESS OTHERWISE NOTED.		
	CABLE TRAY FOR COMMUNICATIONS CABLING. SIZE AS NOTED. BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED.		
	GRID POINT BOUNDARY		
	NOT IN CONTRACT		

NOTE: NOT ALL SYMBOLS APPLY. CONTRACTOR TO REFER TO FLOOR PLANS.

GENERAL NOTES:

1. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS, HEIGHTS, PARTITION TYPES, CEILING TYPES, CONSTRUCTION DETAILING, MOUNTING DETAILS, FINISHES, AND COLOURS.
2. WHILE EVERY ATTEMPT HAS BEEN MADE TO ENSURE ALL INFORMATION IS CORRECT AT THE TIME OF PUBLICATION, THE PRODUCTS SPECIFIED ARE AVAILABLE AND THAT THE PART NUMBER IDENTIFIED ARE CORRECT, IT IS THE RESPONSIBILITY OF THE COMMUNICATIONS CONTRACTOR TO VERIFY ALL PART NUMBERS AND TO REPORT ANY ERRORS AND/OR OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS WITH THEIR BID SUBMISSION.
3. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.
4. REVIEW ALL PROJECT RELATED ARCHITECTURAL, MECHANICAL, ELECTRICAL, SECURITY AND AV DRAWINGS AND SPECIFICATIONS. DISCERN AND COORDINATE ALL OVERLAPPING WORK WITH COMMUNICATIONS SYSTEMS TO AVOID COLLISIONS AND CONFLICTS OF DEVICES.
5. DEVICES SHALL NOT BE INSTALLED IN WALL AREAS THAT ARE DESIGNATED TO HAVE MARKER BOARD, FABRIC PANELS, OR ACCENT FINISHES/DETAIL UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
6. DEVICES SHALL NOT BE INSTALLED ABOVE ANY FURNITURE - AND SHALL BE LOCATED WHERE THERE IS ADEQUATE ACCESS FOR USE UNLESS INDICATED SPECIFICALLY ON AN ELEVATED DRAWING.
7. INFORM THE ENGINEER'S REPRESENTATIVE AND GENERAL CONTRACTOR OF ALL DEVICE AND FURNITURE CONFLICTS PRIOR TO INSTALLATION. OBTAIN RESOLUTION TO DEVICE AND FURNITURE CONFLICTS FROM THE ENGINEER'S REPRESENTATIVE PRIOR TO INSTALLATION.

KEY PLAN :

REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
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6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04

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UNIVERSITY OF TORONTO

PROJECT :

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214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

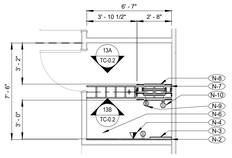
DRAWING LIST, GENERAL NOTES, ABBREVIATIONS, LEGENDS AND DETAILS

PROJECT NUMBER :
21590.003

DRAWING SCALE :
As indicated

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **TC-0.1** REV : **10**



NOTES:

N-1 THIS DRAWING IS FOR SCHEMATIC PURPOSE. QUANTITIES TO SUIT CABLING REQUIREMENTS AS PER DRAWING. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.

N-2 3/4"T X 8'H X 4'W FIRE RATED PLYWOOD BACKBOARD PAINTED WITH TWO (2) COATS OF NON-CONDUCTIVE FIRE RETARDANT WHITE PAINT (BY ELECTRICAL) (TYP).

N-3 TELECOMMUNICATION GROUNDING BUSBAR (T.G.B.) MOUNTED AT THE TOP OF THE BACKBOARD (BY ELECTRICAL). BONDING OF RACKS TO THE BUS BAR SHALL BE BY COMMUNICATIONS CONTRACTOR.

N-4 ONE (1) 5-20R DUPLEX RECEPTACLE (BY ELECTRICAL CONTRACTOR) AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-5 NOT USED.

N-6 ONE (1) 5-20R DUPLEX RECEPTACLE (BY ELECTRICAL CONTRACTOR) AND TWO DATA CABLES ON DECORA OUTLET FOR F&S (BY COMMUNICATIONS CONTRACTOR) (TYP).

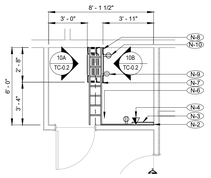
N-7 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR (BY ELECTRICAL). PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

N-8 19" 45U FLOOR MOUNTED 2-POST RACK FOR HORIZONTAL DATA CABLE, FIBRE BACKBONE AND COPPER TIE CABLE TERMINATIONS WITH VERTICAL CABLE MANAGER (TYP).

N-9 ONE (1) L5-30R RECEPTACLE MOUNTED ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-10 ONE (1) 5-15R RECEPTACLE MOUNTED ON RACK (BY ELECTRICAL) (TYP).

13 TC-0.2 I.T. CLOSET 399E PLAN DETAIL
1 : 50



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N-5 NOT USED.

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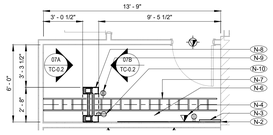
N-10 ONE (1) 5-15R RECEPTACLE MOUNTED ON RACK (BY ELECTRICAL) (TYP).

10 TC-0.2 I.T. CLOSET 325 PLAN DETAIL
1 : 50



NOTES:

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N-5 NOT USED.

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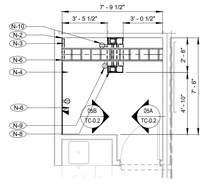
N-10 ONE (1) 5-15R RECEPTACLE MOUNTED ON RACK (BY ELECTRICAL) (TYP).

7 TC-0.2 I.T. CLOSET 277 PLAN DETAIL
1 : 50



NOTES:

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N-5 NOT USED.

N-6 ONE (1) 5-20R DUPLEX RECEPTACLE (BY ELECTRICAL CONTRACTOR) AND TWO DATA CABLES ON DECORA OUTLET FOR F&S (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-7 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR (BY ELECTRICAL). PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

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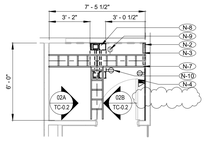
N-9 ONE (1) L5-30R RECEPTACLE MOUNTED ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-10 ONE (1) 5-15R RECEPTACLE MOUNTED ON RACK (BY ELECTRICAL) (TYP).

4 TC-0.2 I.T. CLOSET 238 PLAN DETAIL
1 : 50



NOTES:

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N-4 ONE (1) 5-20R DUPLEX RECEPTACLE (BY ELECTRICAL CONTRACTOR) AND TWO DATA CABLES ON DECORA OUTLET FOR MISCELLANEOUS USE (BY COMMUNICATIONS CONTRACTOR) (TYP).

N-5 NOT USED.

N-6 NOT USED.

N-7 12" X 4" OVERHEAD CABLE TRAY (LADDER) FOR COMMUNICATIONS, INSTALLED APPROXIMATELY 8' ABOVE FINISHED FLOOR (BY ELECTRICAL). PROVIDE WATERFALL ACCESSORY TO DRESS CABLING. (TYP).

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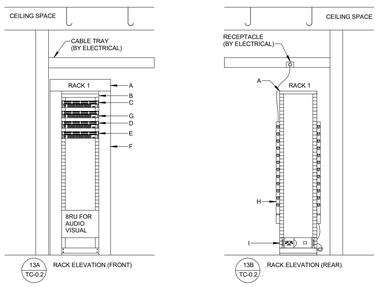
N-9 ONE (1) L5-30R RECEPTACLE MOUNTED ON CABLE TRAY (BY ELECTRICAL) (TYP).

N-10 ONE (1) 5-15R RECEPTACLE MOUNTED ON RACK (BY ELECTRICAL) (TYP).

1 TC-0.2 I.T. CLOSET 122 PLAN DETAIL
1 : 50



NOTES:

N-1 FOR COMPONENTS LISTED BELOW, COMMUNICATIONS CONTRACTOR SHALL REFERENCE COMMUNICATIONS SPECIFICATION FOR REQUIREMENTS. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.

A. 19" 45U FLOOR MOUNTED TELECOMMUNICATIONS 2-POST RACK. (TYP.)

B. FIBER PATCH PANEL AND FIBER CONNECTIVITY: REFER TO COMMUNICATION RISER DIAGRAM FOR DETAILS.

C. MODULAR PATCH PANEL FOR HORIZONTAL DATA CABLING.

D. MODULAR PATCH PANEL FOR WIRELESS ACCESS POINT CABLING.

E. MODULAR PATCH PANEL FOR F&S CABLING.

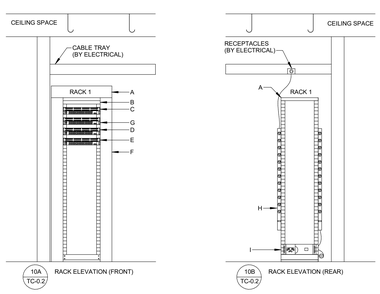
F. 6" VERTICAL CABLE MANAGEMENT PANEL (TYP.)

G. ACTIVE EQUIPMENT (BY OWNER).

H. VERTICAL POWER BAR (PDU) BEHIND RACK WITH 12 NEMA 5-20 OUTPUT RECEPTACLES AND COMES WITH A MINIMUM OF 3M (10FT) CORD AND NEMA L5-30 INPUT PLUG. (TYP.)

I. UPS BY OWNER (TYP.)

14 TC-0.2 LEVEL 03 COMMUNICATIONS RACK ELEVATION DETAIL - I.T. 399C CLOSET
NTS



NOTES:

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A. 19" 45U FLOOR MOUNTED TELECOMMUNICATIONS 2-POST RACK. (TYP.)

B. FIBER PATCH PANEL AND FIBER CONNECTIVITY: REFER TO COMMUNICATION RISER DIAGRAM FOR DETAILS.

C. MODULAR PATCH PANEL FOR HORIZONTAL DATA CABLING.

D. MODULAR PATCH PANEL FOR WIRELESS ACCESS POINT CABLING.

E. MODULAR PATCH PANEL FOR F&S CABLING.

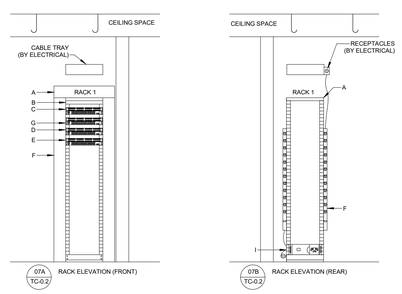
F. 6" VERTICAL CABLE MANAGEMENT PANEL (TYP.)

G. ACTIVE EQUIPMENT (BY OWNER).

H. VERTICAL POWER BAR (PDU) BEHIND RACK WITH 12 NEMA 5-20 OUTPUT RECEPTACLES AND COMES WITH A MINIMUM OF 3M (10FT) CORD AND NEMA L5-30 INPUT PLUG. (TYP.)

I. UPS BY OWNER (TYP.)

11 TC-0.2 LEVEL 03 COMMUNICATIONS RACK ELEVATION DETAIL - I.T. 327 CLOSET
NTS



NOTES:

N-1 FOR COMPONENTS LISTED BELOW, COMMUNICATIONS CONTRACTOR SHALL REFERENCE COMMUNICATIONS SPECIFICATION FOR REQUIREMENTS. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.

A. 19" 45U FLOOR MOUNTED TELECOMMUNICATIONS 2-POST RACK. (TYP.)

B. FIBER PATCH PANEL AND FIBER CONNECTIVITY: REFER TO COMMUNICATION RISER DIAGRAM FOR DETAILS.

C. MODULAR PATCH PANEL FOR HORIZONTAL DATA CABLING.

D. MODULAR PATCH PANEL FOR WIRELESS ACCESS POINT CABLING.

E. MODULAR PATCH PANEL FOR F&S CABLING.

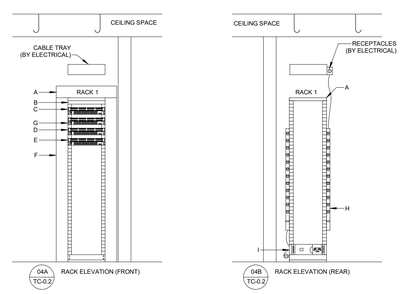
F. 6" VERTICAL CABLE MANAGEMENT PANEL (TYP.)

G. ACTIVE EQUIPMENT (BY OWNER).

H. VERTICAL POWER BAR (PDU) BEHIND RACK WITH 12 NEMA 5-20 OUTPUT RECEPTACLES AND COMES WITH A MINIMUM OF 3M (10FT) CORD AND NEMA L5-30 INPUT PLUG. (TYP.)

I. UPS BY OWNER (TYP.)

8 TC-0.2 LEVEL 02 COMMUNICATIONS RACK ELEVATION DETAIL - I.T. 277 CLOSET
NTS



NOTES:

N-1 FOR COMPONENTS LISTED BELOW, COMMUNICATIONS CONTRACTOR SHALL REFERENCE COMMUNICATIONS SPECIFICATION FOR REQUIREMENTS. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.

A. 19" 45U FLOOR MOUNTED TELECOMMUNICATIONS 2-POST RACK. (TYP.)

B. FIBER PATCH PANEL AND FIBER CONNECTIVITY: REFER TO COMMUNICATION RISER DIAGRAM FOR DETAILS.

C. MODULAR PATCH PANEL FOR HORIZONTAL DATA CABLING.

D. MODULAR PATCH PANEL FOR WIRELESS ACCESS POINT CABLING.

E. MODULAR PATCH PANEL FOR F&S CABLING.

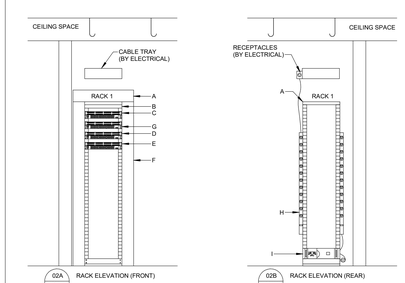
F. 6" VERTICAL CABLE MANAGEMENT PANEL (TYP.)

G. ACTIVE EQUIPMENT (BY OWNER).

H. VERTICAL POWER BAR (PDU) BEHIND RACK WITH 12 NEMA 5-20 OUTPUT RECEPTACLES AND COMES WITH A MINIMUM OF 3M (10FT) CORD AND NEMA L5-30 INPUT PLUG. (TYP.)

I. UPS BY OWNER (TYP.)

5 TC-0.2 LEVEL 02 COMMUNICATIONS RACK ELEVATION DETAIL - I.T. 238 CLOSET
NTS



NOTES:

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A. 19" 45U FLOOR MOUNTED TELECOMMUNICATIONS 2-POST RACK. (TYP.)

B. FIBER PATCH PANEL AND FIBER CONNECTIVITY: REFER TO COMMUNICATION RISER DIAGRAM FOR DETAILS.

C. MODULAR PATCH PANEL FOR HORIZONTAL DATA CABLING.

D. MODULAR PATCH PANEL FOR WIRELESS ACCESS POINT CABLING.

E. MODULAR PATCH PANEL FOR F&S CABLING.

F. 6" VERTICAL CABLE MANAGEMENT PANEL (TYP.)

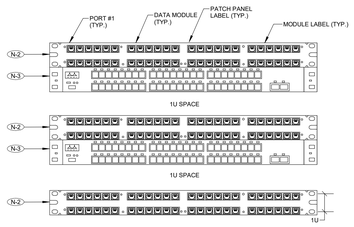
G. ACTIVE EQUIPMENT (BY OWNER).

H. VERTICAL POWER BAR (PDU) BEHIND RACK WITH 12 NEMA 5-20 OUTPUT RECEPTACLES AND COMES WITH A MINIMUM OF 3M (10FT) CORD AND NEMA L5-30 INPUT PLUG. (TYP.)

I. UPS BY OWNER (TYP.)

2 TC-0.2 LEVEL 01 COMMUNICATIONS RACK ELEVATION DETAIL - I.T. 122 CLOSET
NTS

15 TC-0.2 RESERVED
NTS



NOTES:

N-1 HORIZONTAL CABLE LABELING SCHEDULE TO FOLLOW ANSI/TIA-606-LATEST "ADMINISTRATION STANDARD FOR TELECOMMUNICATIONS AND AS PER OWNER'S PREFERRED LABELING SCHEME.

TX.Y WHERE

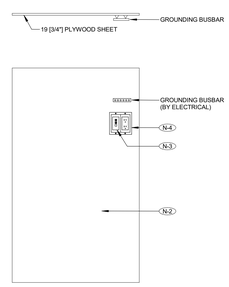
T = TYPE OF CABLE (DATA (D), VOICE (V), WIRELESS (W), AUDIO/VISUAL (AV), OR SECURITY (S)).
X = FLOOR NUMBER
Y = CABLE NUMBER (STARTING AT 001 - ..HIGHEST CABLE NUMBER)

EX D7.017
D = DATA
7= 7TH FLOOR
0.17 = 17TH CABLE

N-2 1U-48 PORT MODULAR HIGH DENSITY PATCH PANEL.

N-3 OWNER SUPPLIED ACTIVE EQUIPEMENT.

12 TC-0.2 COMMUNICATIONS MODULAR PATCH PANEL STACKING DETAIL
NTS



NOTES:

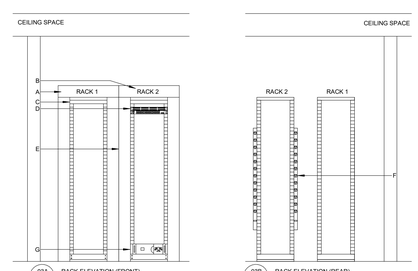
N-1 ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.

N-2 BACKBOARD AND SUPPORTING MATERIALS SHALL BE SUPPLIED AND INSTALLED BY ELECTRICAL.

N-3 TWO (2) DATA CABLES FOR MISCELLANEOUS USE.

N-4 ONE (1) 5-20R DUPLEX RECEPTACLE BY ELECTRICAL.

9 TC-0.2 COMMUNICATIONS BACKBOARD ELEVATION DETAIL
NTS



NOTES:

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A. EXISTING 2-POST RACK.

B. 19" 45U FLOOR MOUNTED TELECOMMUNICATIONS 2-POST RACK. (TYP.)

C. FIBER PATCH PANEL AND FIBER CONNECTIVITY: REFER TO COMMUNICATION RISER DIAGRAM FOR DETAILS.

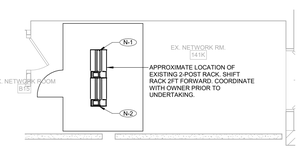
D. MODULAR PATCH PANEL FOR HORIZONTAL DATA CABLING. REFER TO PATCH PANEL DETAIL (TYP.)

E. 6" VERTICAL CABLE MANAGEMENT PANEL (TYP.)

F. VERTICAL POWER BAR (PDU) BEHIND RACK WITH 12 NEMA 5-20 OUTPUT RECEPTACLES AND COMES WITH A MINIMUM OF 3M (10FT) CORD AND NEMA L5-30 INPUT PLUG. (TYP.)

G. UPS BY OWNER (TYP.)

6 TC-0.2 LEVEL 00 COMMUNICATIONS RACK ELEVATION DETAIL - BASEMENT NETWORK ROOM B15
NTS



NOTES:

N-1 EXISTING LAN ROOM. BACKBOARDS, 2-POST RACK, ETC. TO REMAIN.

N-2 19" 45U FLOOR MOUNTED 2-POST RACK FOR HORIZONTAL DATA CABLE, FIBRE BACKBONE AND COPPER TIE CABLE TERMINATIONS WITH VERTICAL CABLE MANAGER (TYP).

N-3 ALL HORIZONTAL CABLING TO TERMINATE IN EXISTING LAN ROOM. COMMUNICATIONS CONTRACTOR TO UTILIZE EXISTING PATHWAYS.

3 TC-0.2 BASEMENT NETWORK ROOM B15 PLAN DETAIL
1 : 50

KEY PLAN :

REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
3	2024-12-04	ISSUED FOR F&S REVIEW
6	2025-01-31	ISSUED FOR BID
9	2025-03-21	BID ADDENDUM #03
10	2025-03-25	BID ADDENDUM #04

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128A Sterling Road, Suite 302B
Toronto, Ontario, Canada M6R 2B7
t: 647-948-7523
www.enformarchitects.com

SEAL :

OWNER:

UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
COMMUNICATIONS TELECOM ROOMS DETAILS

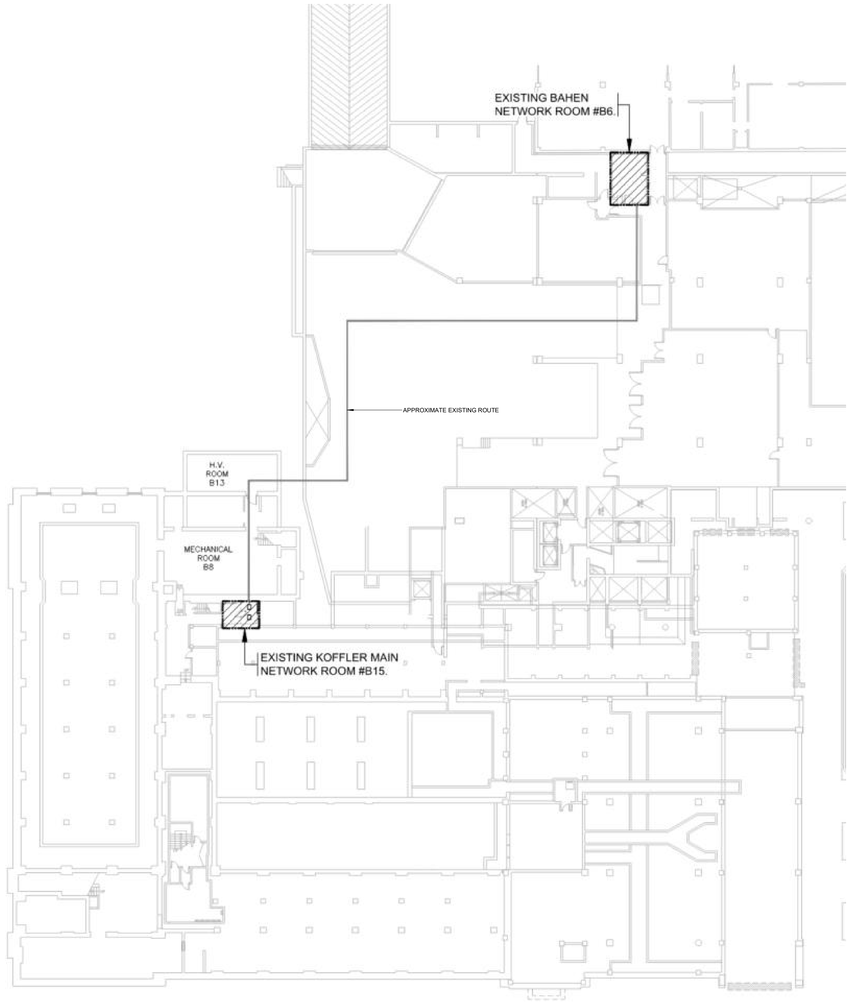
PROJECT NUMBER :
21590.003

DRAWING SCALE :
As indicated

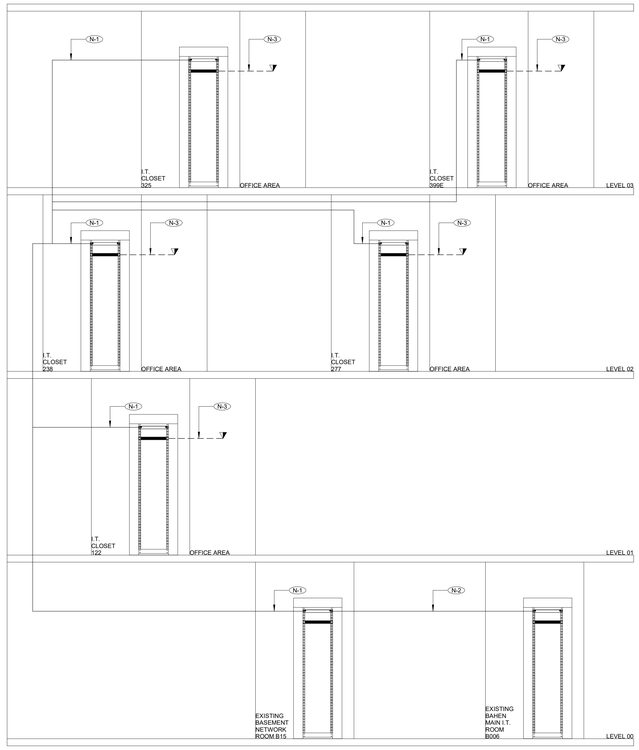
DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **TC-0.2**

REV : **10**



2 COMMUNICATIONS BASEMENT LEVEL KEYPLAN
TC-0.3 NTS



GENERAL NOTES

1. RISER IS DIAGRAMMATIC ONLY. FOR COMPONENTS LISTED BELOW REFERENCE COMMUNICATIONS SPECIFICATION FOR REQUIREMENTS.
2. ALL ITEMS BY COMMUNICATIONS CONTRACTOR UNLESS OTHERWISE NOTED.
3. PROVIDE ADEQUATE FIRE STOPPING AS REQUIRED.

NOTES:

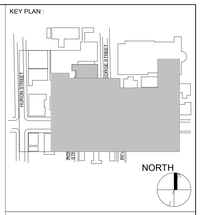
N-1 PROVIDE ONE (1) 24-STRAND SINGLEMODE, OS2, ONFP FIBER BACKBONE CABLE WITH LC CONNECTORS FROM EXISTING BASEMENT LAN ROOM TO EACH TELECOM ROOM (TYP).

N-2 PROVIDE ONE (1) ARMORED 48-STRAND SINGLEMODE, OS2, ONFP FIBER BACKBONE CABLE WITH LC CONNECTORS FROM EXISTING BAHEN MAIN I.T. ROOM B006 TO EXISTING BASEMENT NETWORK ROOM B15. ALLOW FOR 350' FT OF FIBER.

N-3 HORIZONTAL CABLING TO OFFICE AREA BY COMMUNICATIONS CONTRACTOR.

1 COMMUNICATIONS RISER DIAGRAM
TC-0.3 NTS

KEY PLAN :



REVISION

NO.	DATE	DESCRIPTION
1	2024-10-04	ISSUED FOR 50%
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6	2025-01-31	ISSUED FOR BID
10	2025-03-25	BID ADDENDUM #04

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UNIVERSITY OF TORONTO

PROJECT :
HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :
COMMUNICATIONS RISER DIAGRAM

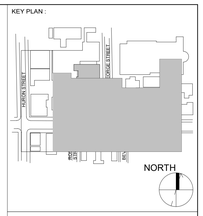
PROJECT NUMBER :
21590.003

DRAWING SCALE :
NTS

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **TC-0.3**
REV : **10**

KEY PLAN :



REVISION

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HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
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SHEET CONTENTS :

LEVEL 00 COMMUNICATIONS LAYOUT

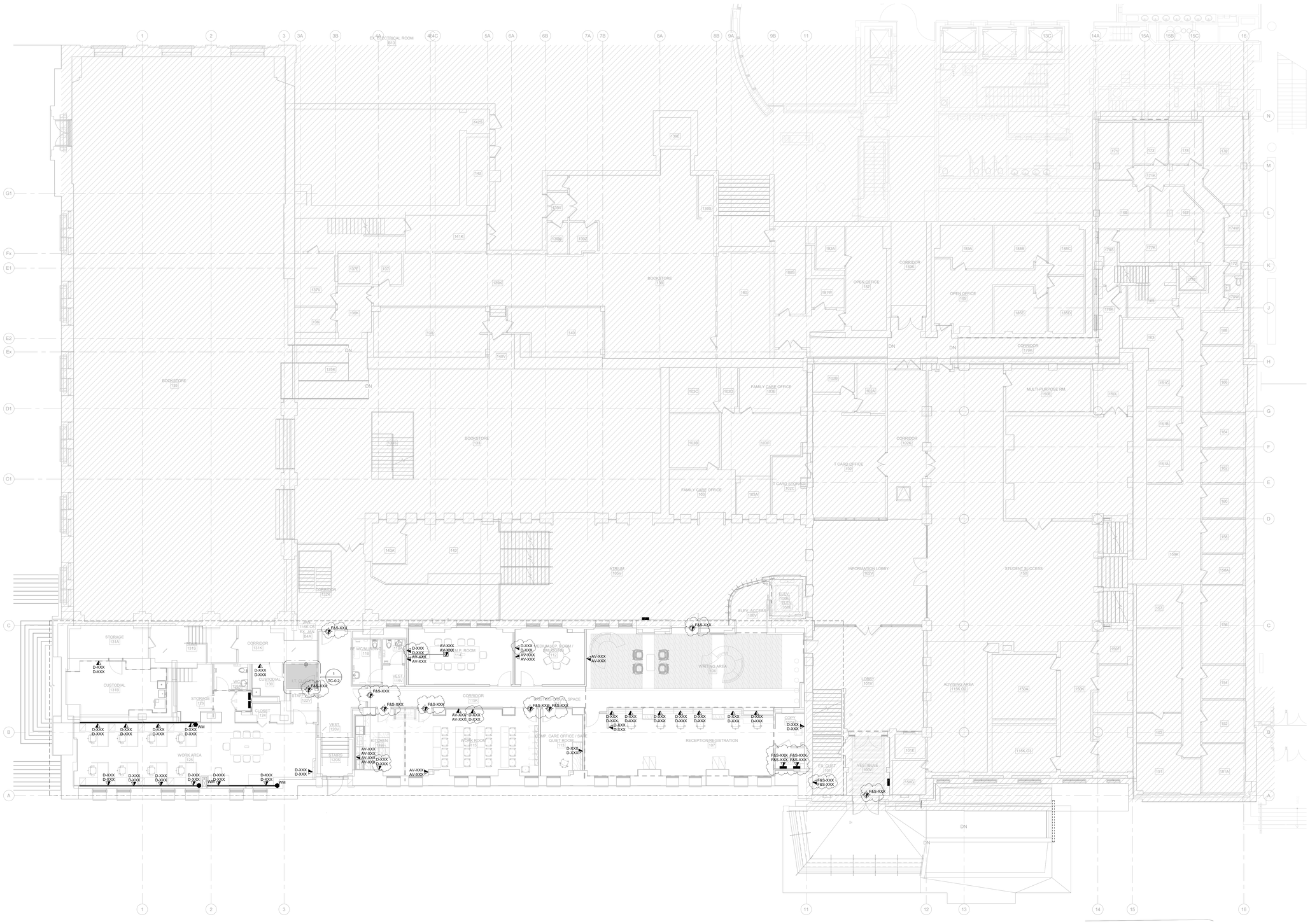
PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **TC-B1.1**

REV : **10**



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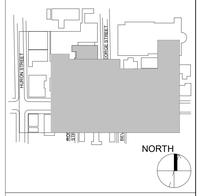

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214 COLLEGE ST,
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SHEET CONTENTS :

LEVEL 01 COMMUNICATIONS LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **TC-1.1**

REV. : **10**

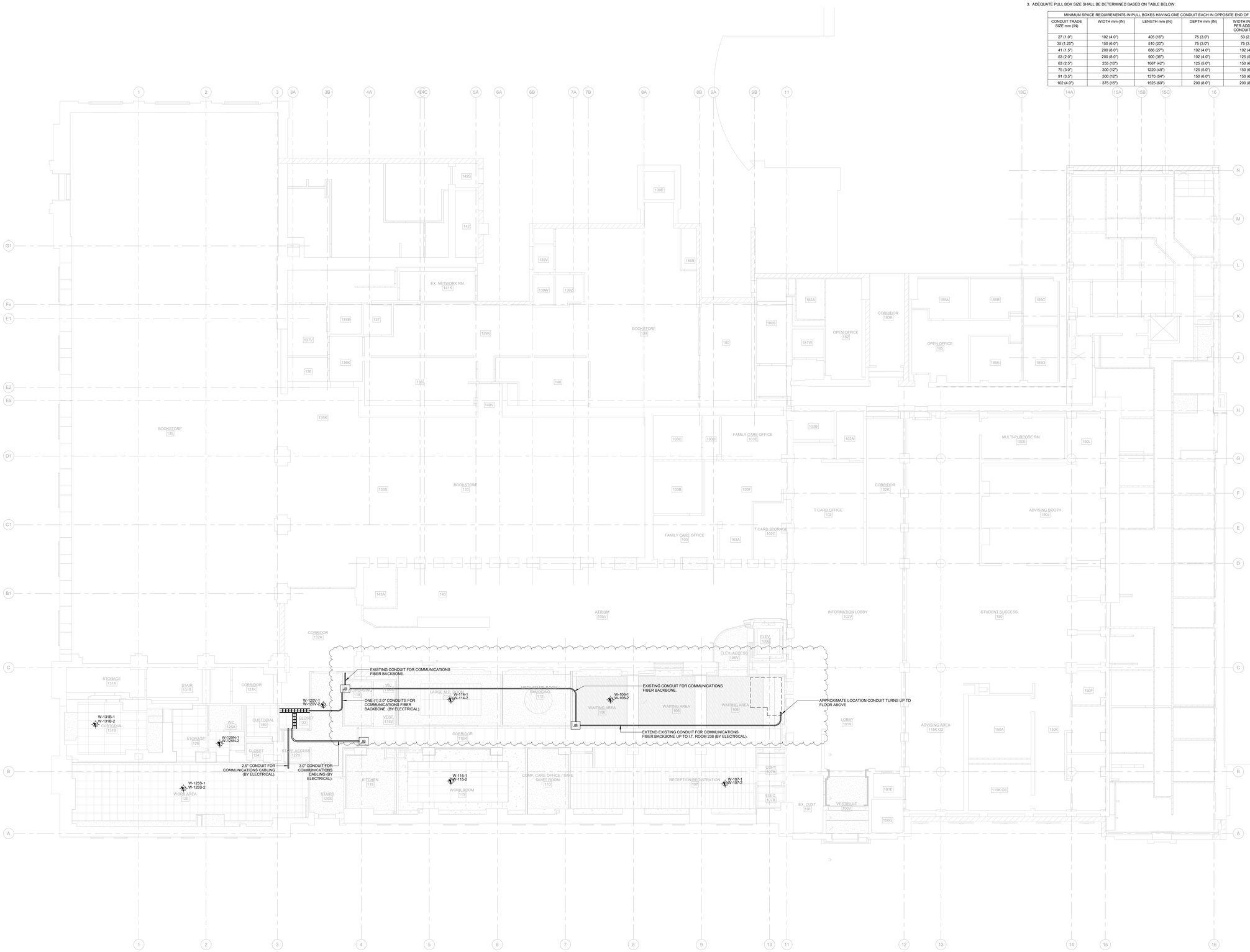
GENERAL NOTES:

1. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINTS. COORDINATE WITH OWNER FOR WAP PICK UP FROM: UNIVERSITY OF TORONTO I+TS, 4 BANCROFT AVENUE, ROOM 103. USE CABLE LABELS NOTED ON PLAN.

2. ALL CONDUITS ARE PROVIDED BY ELECTRICAL CONTRACTOR. CONDUIT ROUTES SHOWN ARE DIAGRAMMATIC. ELECTRICAL CONTRACTOR TO VERIFY ROUTE ON SITE, MAKING ADJUSTMENTS AS NEEDED. ELECTRICAL CONTRACTOR TO PROVIDE PULL BOXES IN SECTIONS OF CONDUIT THAT ARE:
   - 2.1. 30M (100FT) OR LONGER,
   - 2.2. CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR
   - 2.3. CONTAIN A REVERSE BEND.

3. ADEQUATE PULL BOX SIZE SHALL BE DETERMINED BASED ON TABLE BELOW:

MINIMUM SPACE REQUIREMENTS IN PULL BOXES HAVING ONE CONDUIT EACH IN OPPOSITE END OF THE BOX				
CONDUIT TRADE SIZE mm (IN)	WIDTH mm (IN)	LENGTH mm (IN)	DEPTH mm (IN)	WIDTH INCREASE PER ADDITIONAL CONDUIT mm (IN)
27 (1.0")	102 (4.0")	405 (16")	75 (3.0")	53 (2.0")
35 (1.25")	150 (6.0")	510 (20")	75 (3.0")	75 (3.0")
41 (1.5")	200 (8.0")	686 (27")	102 (4.0")	102 (4.0")
53 (2.0")	200 (8.0")	900 (36")	102 (4.0")	125 (5.0")
63 (2.5")	255 (10")	1067 (42")	125 (5.0")	150 (6.0")
75 (3.0")	300 (12")	1220 (48")	125 (5.0")	150 (6.0")
91 (3.5")	300 (12")	1370 (54")	150 (6.0")	150 (6.0")
102 (4.0")	375 (15")	1525 (60")	200 (8.0")	200 (8.0")



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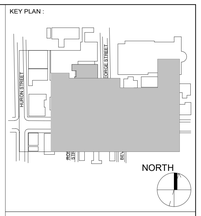

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HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 01 WIRELESS ACCESS POINT PLAN

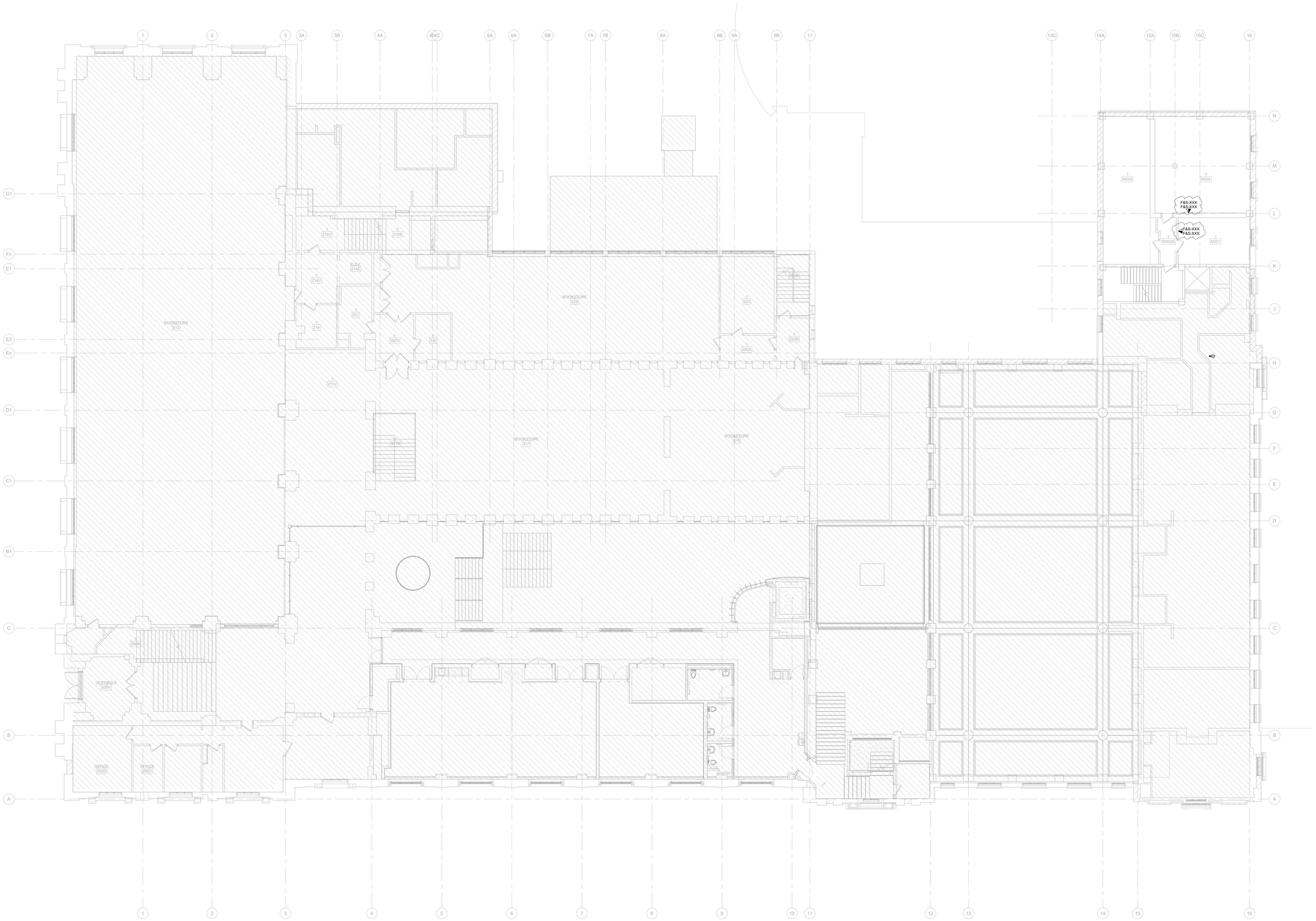
PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1 : 100**

DRAWN BY :	CHECKED BY :	DATE :
Author	Checker	Issue Date

SHEET NO : **TC-1.2**

REV : **10**



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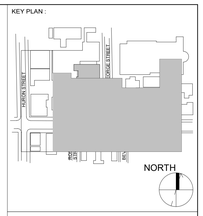

REVISION

NO.	DATE	DESCRIPTION
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SHEET CONTENTS

LEVEL 1 UPPER MEZZANINE

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **TC-1M.1**

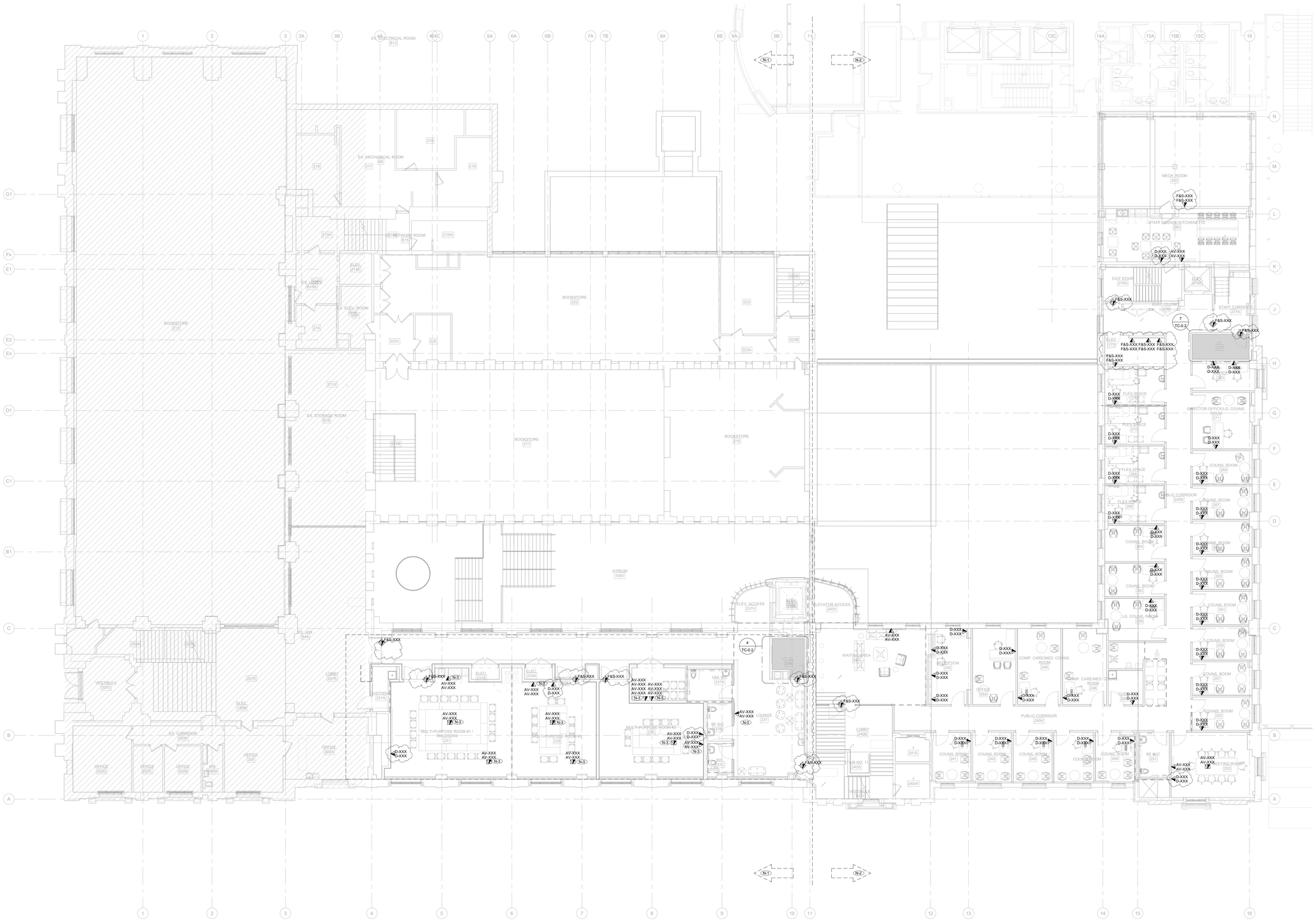
REV : **10**

DRAWING NOTES:

N-1 COMMUNICATIONS CABLES LOCATED FROM THE DIVIDING LINE TO THE DIRECTION OF THE ARROW ARE TO BE TERMINATED AT I.T. CLOSET 235.

N-2 COMMUNICATIONS CABLES LOCATED FROM THE DIVIDING LINE TO THE DIRECTION OF THE ARROW ARE TO BE TERMINATED AT I.T. ROOM 277.

N-3 CONDUITS FOR COMMUNICATIONS ROUGH-INS TERMINATE AT NEAREST JUNCTION BOX.



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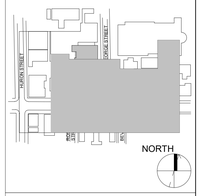

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HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

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SHEET CONTENTS :

LEVEL 02 COMMUNICATIONS LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **TC-2.1**

REV : **10**

DRAWING NOTES:

N-1 COMMUNICATIONS CABLES LOCATED FROM THE DIVIDING LINE TO THE DIRECTION OF THE ARROW ARE TO BE TERMINATED AT I.T. CLOSET 235.

N-2 COMMUNICATIONS CABLES LOCATED FROM THE DIVIDING LINE TO THE DIRECTION OF THE ARROW ARE TO BE TERMINATED AT I.T. ROOM 277.

N-3 CONDUITS FOR COMMUNICATIONS ROUGH-INS TERMINATE AT NEAREST JUNCTION BOX.

N-4 0.75" CONDUIT FOR WIRELESS ACCESS POINT TERMINATED ON A JUNCTION BOX TO CONDUIT SPINE (BY ELECTRICAL).

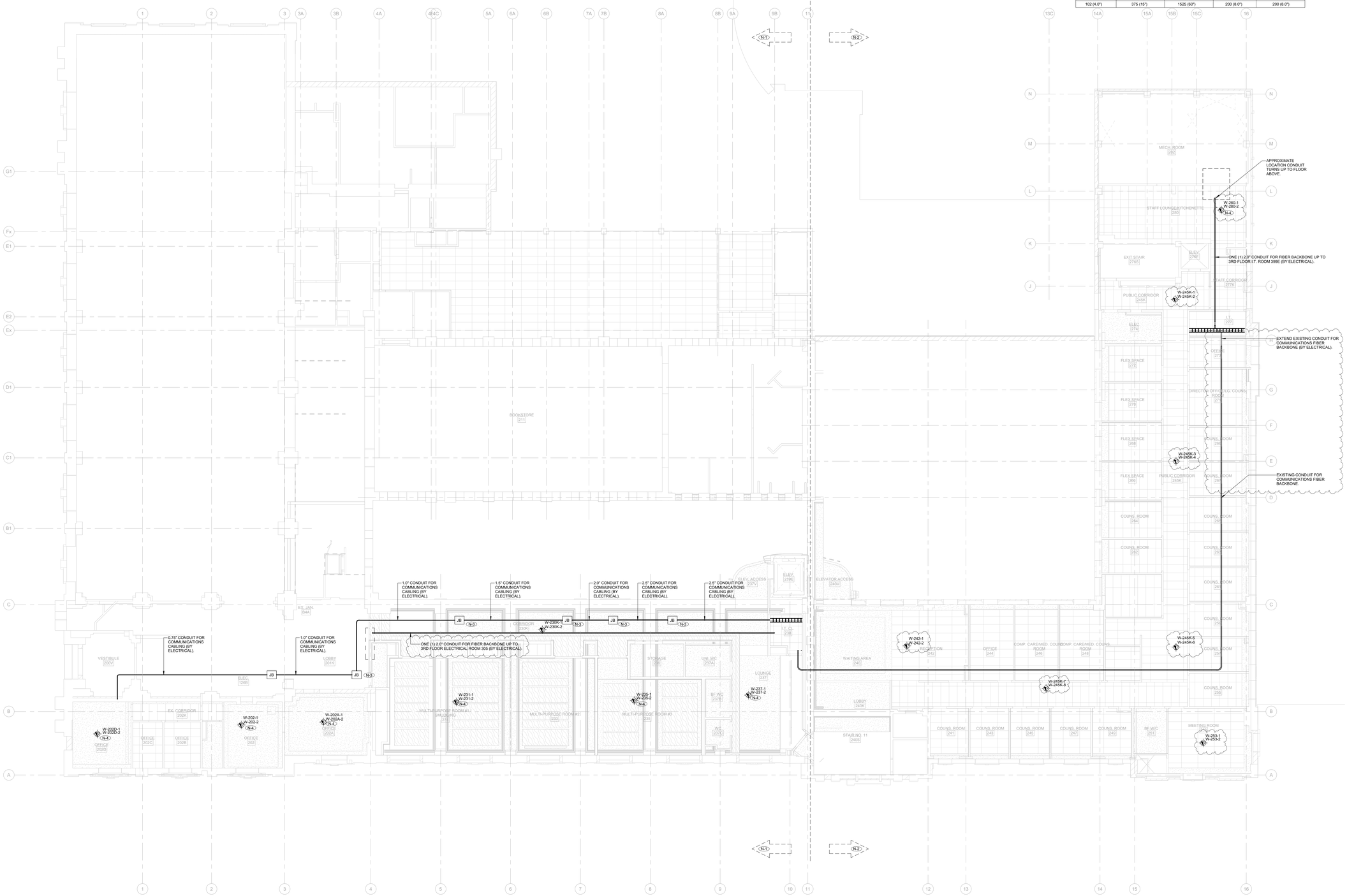
GENERAL NOTES:

1. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINTS. COORDINATE WITH OWNER FOR WAP PICK UP FROM: UNIVERSITY OF TORONTO I+TS, 4 BANCROFT AVENUE, ROOM 103. USE CABLE LABELS NOTED ON PLAN.

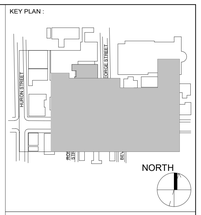
2. ALL CONDUITS ARE PROVIDED BY ELECTRICAL CONTRACTOR. CONDUIT ROUTES SHOWN ARE DIAGRAMMATIC. ELECTRICAL CONTRACTOR TO VERIFY ROUTE ON SITE, MAKING ADJUSTMENTS AS NEEDED. ELECTRICAL CONTRACTOR TO PROVIDE PULL BOXES IN SECTIONS OF CONDUIT THAT ARE:
   - 2.1. 30M (100FT) OR LONGER,
   - 2.2. CONTAIN MORE THAN TWO 90 DEGREE BENDS, OR
   - 2.3. CONTAIN A REVERSE BEND.

3. ADEQUATE PULL BOX SIZE SHALL BE DETERMINED BASED ON TABLE BELOW:

MINIMUM SPACE REQUIREMENTS IN PULL BOXES HAVING ONE CONDUIT EACH IN OPPOSITE END OF THE BOX				
CONDUIT TRADE SIZE mm (IN)	WIDTH mm (IN)	LENGTH mm (IN)	DEPTH mm (IN)	WIDTH INCREASE PER ADDITIONAL CONDUIT mm (IN)
27 (1.0")	102 (4.0")	405 (16")	75 (3.0")	53 (2.0")
35 (1.25")	150 (6.0")	510 (20")	75 (3.0")	75 (3.0")
41 (1.5")	200 (8.0")	686 (27")	102 (4.0")	102 (4.0")
53 (2.0")	200 (8.0")	900 (36")	102 (4.0")	125 (5.0")
63 (2.5")	255 (10")	1067 (42")	125 (5.0")	150 (6.0")
75 (3.0")	300 (12")	1220 (48")	125 (5.0")	150 (6.0")
91 (3.5")	300 (12")	1370 (54")	150 (6.0")	150 (6.0")
102 (4.0")	375 (15")	1525 (60")	200 (8.0")	200 (8.0")



KEY PLAN :



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PROJECT :

HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 02 WIRELESS ACCESS POINT PLAN

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1 : 100**

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

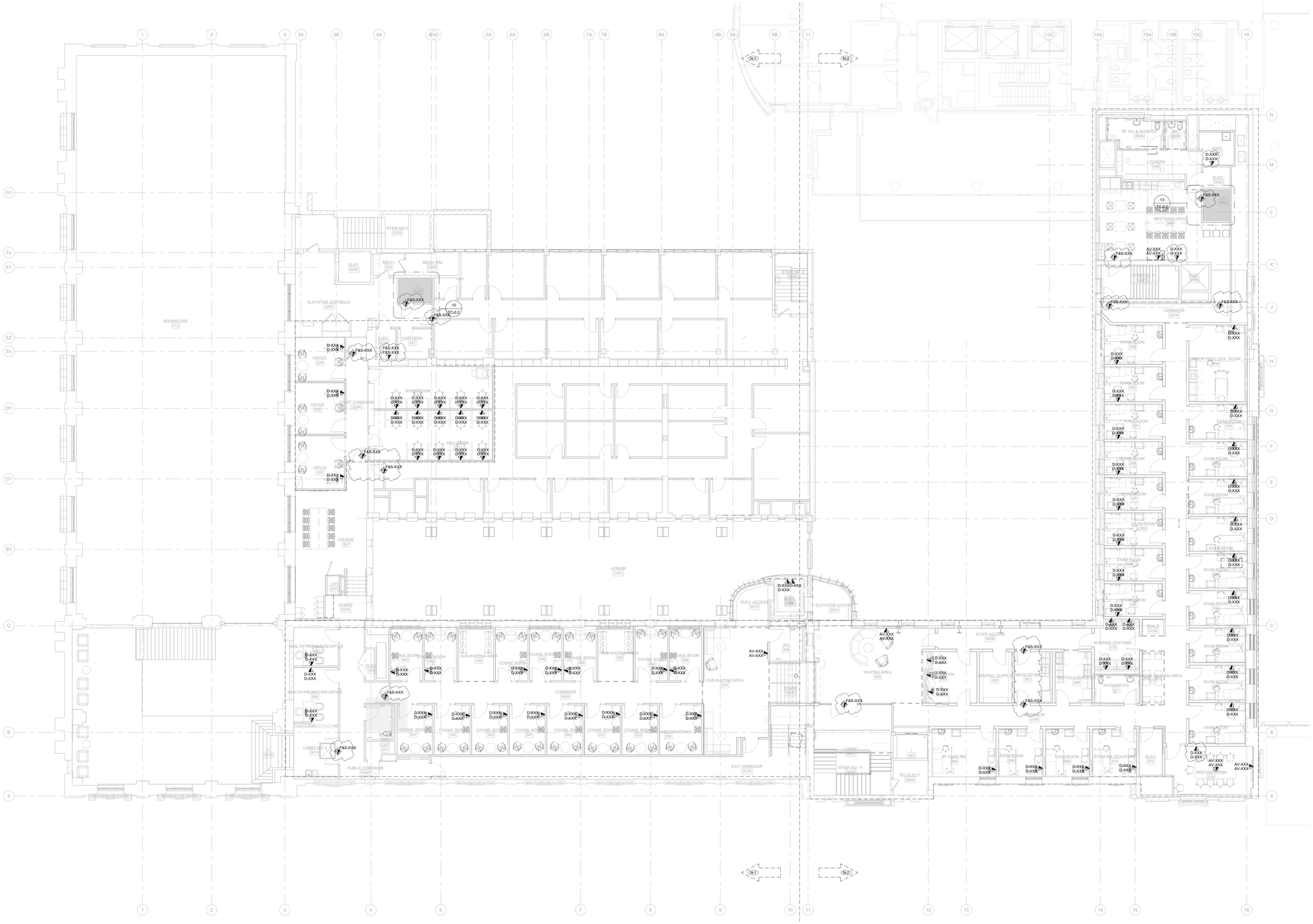
SHEET NO : **TC-2.2**

REV : **10**

DRAWING NOTES:

N-1 COMMUNICATIONS CABLES LOCATED FROM THE DIVIDING LINE TO THE DIRECTION OF THE ARROW ARE TO BE TERMINATED AT I.T. ROOM 325B.

N-2 COMMUNICATIONS CABLES LOCATED FROM THE DIVIDING LINE TO THE DIRECTION OF THE ARROW ARE TO BE TERMINATED AT I.T. ROOM 399E.



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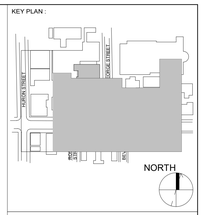

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HEALTH AND WELLNESS CENTRE RENOVATION AT KOFFLER

214 COLLEGE ST,
TORONTO, ON M5T 3A1

SHEET CONTENTS :

LEVEL 03 COMMUNICATIONS LAYOUT

PROJECT NUMBER : **21590.003**

DRAWING SCALE : **1 : 100**

DRAWN BY :	CHECKED BY :	DATE :
Author	Checker	Issue Date

SHEET NO : **TC-3.1**

REV : **10**

DRAWING NOTES:

N-1 COMMUNICATIONS CABLES LOCATED FROM THE DIVIDING LINE TO THE DIRECTION OF THE ARROW ARE TO BE TERMINATED AT I.T. ROOM 325B.

N-2 COMMUNICATIONS CABLES LOCATED FROM THE DIVIDING LINE TO THE DIRECTION OF THE ARROW ARE TO BE TERMINATED AT I.T. ROOM 399E.

N-3 0.75" CONDUIT FOR WIRELESS ACCESS POINT TERMINATED ON A JUNCTION BOX AT THE SAME ELEVATION AS THE LIGHTS BACK TO CBLE TRAY (BY ELECTRICAL).

GENERAL NOTES:

1. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINTS. COORDINATE WITH OWNER FOR WAP PICK UP FROM: UNIVERSITY OF TORONTO I+TS, 4 BANCROFT AVENUE, ROOM 103. USE CABLE LABELS NOTED ON PLAN.

2. ALL CONDUITS ARE PROVIDED BY ELECTRICAL CONTRACTOR. CONDUIT ROUTES SHOWN ARE DIAGRAMMATIC. ELECTRICAL CONTRACTOR TO VERIFY ROUTE ON SITE, MAKING ADJUSTMENTS AS NEEDED. ELECTRICAL CONTRACTOR TO PROVIDE PULL BOXES IN SECTIONS OF CONDUIT THAT ARE:
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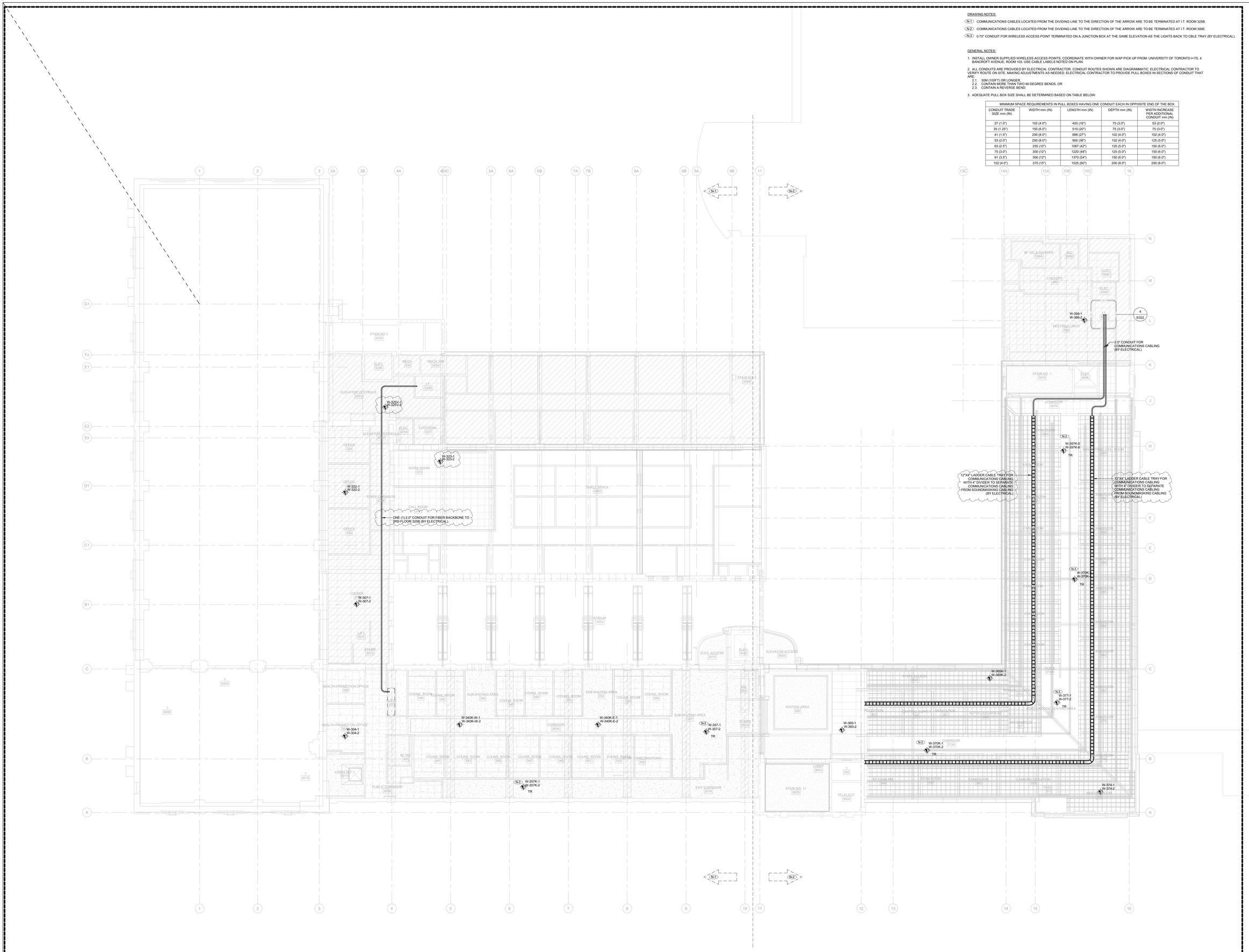
   - 2.3. CONTAIN A REVERSE BEND.

3. ADEQUATE PULL BOX SIZE SHALL BE DETERMINED BASED ON TABLE BELOW:

MINIMUM SPACE REQUIREMENTS IN PULL BOXES HAVING ONE CONDUIT EACH IN OPPOSITE END OF THE BOX

CONDUIT TRADE SIZE mm (IN)	WIDTH mm (IN)	LENGTH mm (IN)	DEPTH mm (IN)	WIDTH INCREASE PER ADDITIONAL CONDUIT mm (IN)
27 (1.0")	102 (4.0")	405 (16")	75 (3.0")	53 (2.0")
35 (1.25")	150 (6.0")	510 (20")	75 (3.0")	75 (3.0")
41 (1.5")	200 (8.0")	686 (27")	102 (4.0")	102 (4.0")
53 (2.0")	200 (8.0")	900 (36")	102 (4.0")	125 (5.0")
63 (2.5")	255 (10")	1067 (42")	125 (5.0")	150 (6.0")
75 (3.0")	300 (12")	1220 (48")	125 (5.0")	150 (6.0")
91 (3.5")	300 (12")	1370 (54")	150 (6.0")	150 (6.0")
102 (4.0")	375 (15")	1525 (60")	200 (8.0")	200 (8.0")



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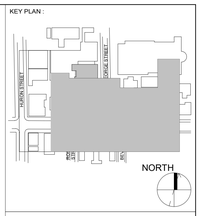

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SHEET CONTENTS :

LEVEL 03 WIRELESS ACCESS POINT PLAN

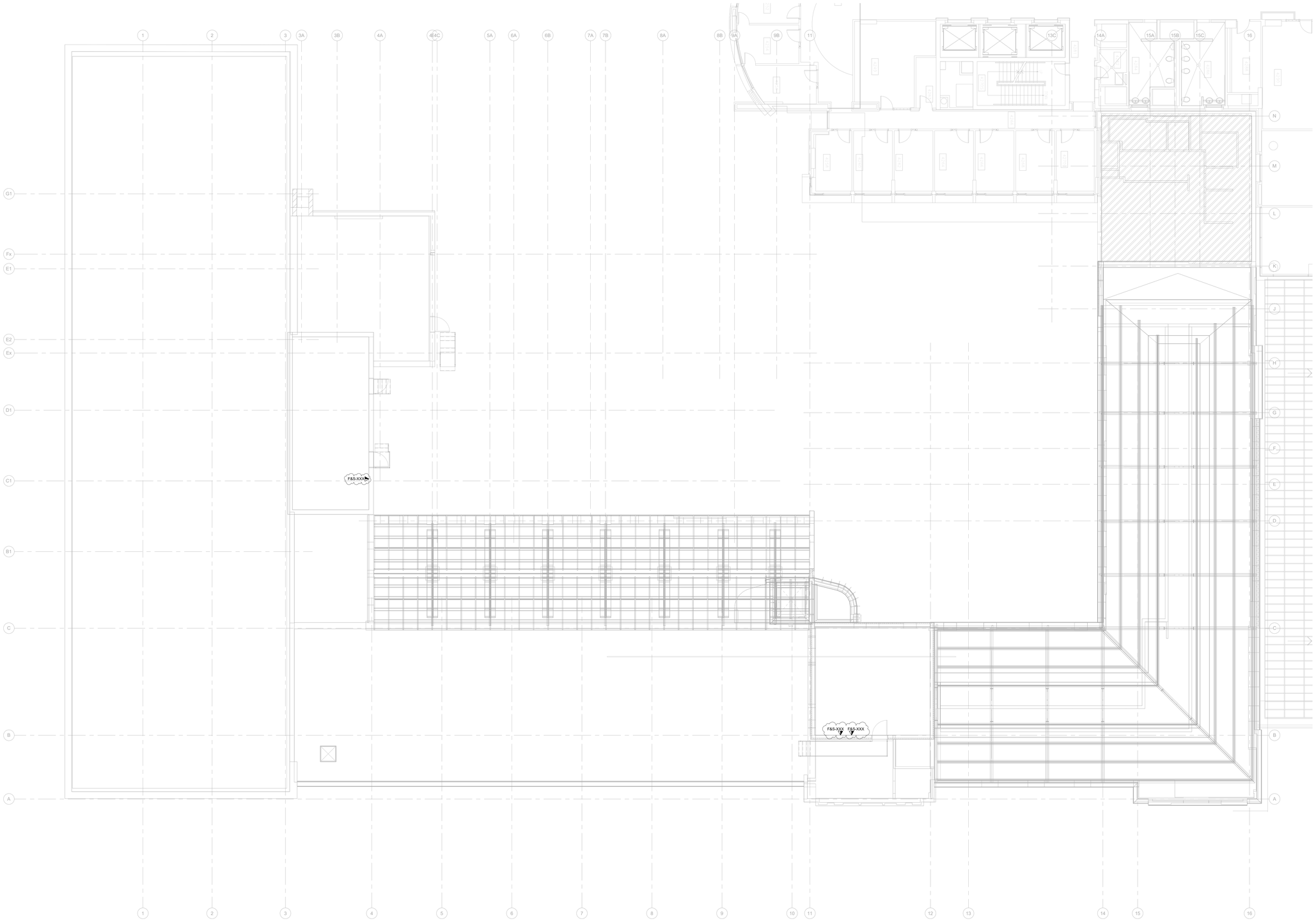
PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE:
Author	Checker	Issue Date

SHEET NO : **TC-3.2**

REV : **10**



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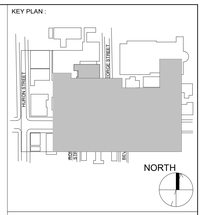

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TORONTO, ON M5T 3A1

SHEET CONTENTS :

MECHANICAL PENTHOUSE COMMUNICATIONS LAYOUT

PROJECT NUMBER :
21590.003

DRAWING SCALE :
1 : 100

DRAWN BY :	CHECKED BY :	DATE :
Author	Checker	Issue Date

SHEET NO. : **TC-MP.1**

REV. : **10**