

MUNICIPALITY OF CASSELMAN OFFICE FIT-UP

1 INDUSTRIEL ST., CASSELMAN, ON

ISSUED FOR TENDER
DATE: MARCH 24, 2025
PROJECT NO.: 22045

ARCHITECTURAL DRAWINGS:

- A-000 COVER PAGE
- A-001 SPECIFICATIONS
- A-002 SPECIFICATIONS
- A-100 LEVEL 2 DEMOLITION PLAN
- A-101 LEVEL 2 REFLECTED CEILING DEMO PLAN
- A-102 LEVEL 1 CONSTRUCTION PLAN
- A-103 LEVEL 2 CONSTRUCTION PLAN
- A-104 PARTITION ASSEMBLIES
- A-105 LEVEL 2 REFLECTED CEILING PLAN
- A-106 REFLECTED CEILING PLAN DETAILS & SECTIONS
- A-107 LEVEL 2 WALL FINISHES PLAN
- A-108 LEVEL 2 FLOOR FINISHES PLAN
- A-109 LEVEL 2 FURNITURE PLAN (INFO ONLY)
- A-110 ROOF PLAN
- A-111 ROOF DETAILS
- A-200 DOOR & HARDWARE SCHEDULE & ELEVATIONS
- A-200 INTERIOR GLAZING ELEVATIONS
- A-301 INTERIOR GLAZING ELEVATIONS
- A-302 WASHROOM ELEVATIONS
- A-303 CUSTOM MILLWORK ELEVATIONS & DETAILS
- A-304 CUSTOM MILLWORK ELEVATIONS & DETAILS
- A-305 MILLWORK ELEVATIONS
- A-400 CUSTOM MILLWORK SECTIONS
- A-401 MILLWORK SECTIONS
- A-500 FINISHES SCHEDULE

MECHANICAL DRAWINGS:

- M-1 MECHANICAL NOTES & LEGENDS
- M-2 MECHANICAL SPECIFICATIONS
- M-3 MECHANICAL SPECIFICATIONS
- M-4 MECHANICAL SPECIFICATIONS
- M-5 MECHANICAL SCHEDULES AND DETAILS
- M-6 MECHANICAL SECOND FLOOR PLUMBING AND FIRE PROTECTION PLAN
- M-7 MECHANICAL SECOND FLOOR HVAC PLAN
- M-8 ROOF PLAN

ELECTRICAL DRAWINGS:

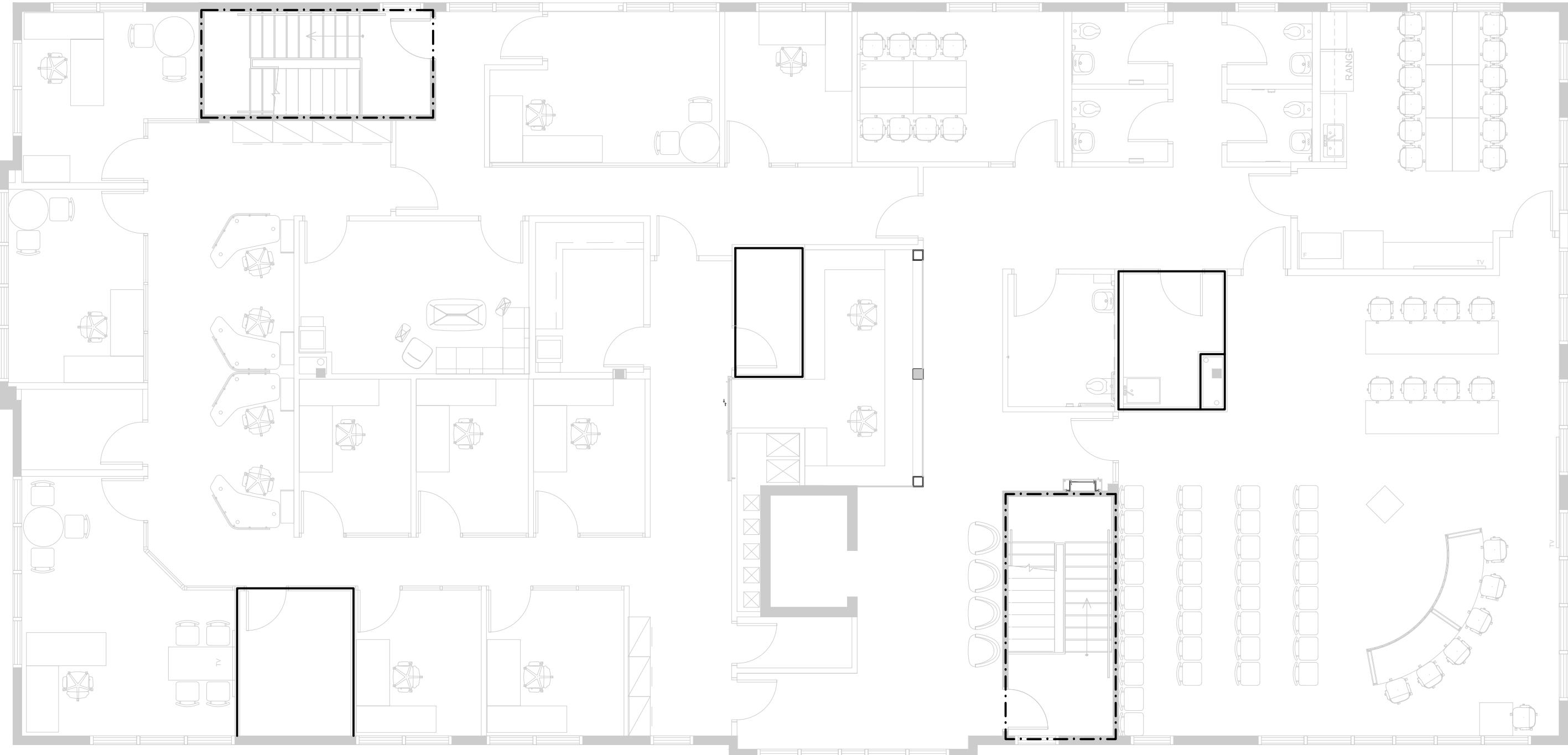
- E-01 ELECTRICAL LEGEND, GENERAL NOTES, AND DRAWING LIST
- E-02 SECOND FLOOR ELECTRICAL DEMOLITION PLAN
- E-03 GROUND FLOOR ELECTRICAL LAYOUT - NEW WORK
- E-04 SECOND FLOOR POWER & SYSTEMS LAYOUT - NEW WORK
- E-05 ELECTRICAL ROOF LAYOUT - NEW WORK
- E-06 LIGHTING SECOND FLOOR LAYOUT - NEW WORK
- E-07 ELECTRICAL SCHEDULE AND DIAGRAM
- E-08 ELECTRICAL DETAILS
- E-09 ELECTRICAL SPECIFICATIONS 1 OF 4
- E-10 ELECTRICAL SPECIFICATIONS 2 OF 4
- E-11 ELECTRICAL SPECIFICATIONS 3 OF 4
- E-12 ELECTRICAL SPECIFICATIONS 4 OF 4

STRUCTURAL DRAWINGS:

- S-1 ROOF FRAMING PLAN SECTION AND DETAILS
- S-2 GENERAL NOTES TYPICAL DETAILS

NAME OF PRACTICE:		Pye & Richards - Temprano & Young Architects inc. 200 - 824 MEATH STREET, OTTAWA, ONTARIO. K1Z 6E8 T. 613-724-7700 F. 613-724-1289 info@prty.ca			
NAME OF PROJECT:		Municipality of Casselman - Office Fit-Up			
LOCATION:		1 Industriel Street, Casselman			
ONTARIO BUILDING CODE 2012					
DATA MATRIX - PART 3					
TITLE		DESCRIPTION			OBC REFERENCE
PROJECT DESCRIPTION:		INTERIOR FIT-UP OF OFFICE SPACE AND COUNCIL CHAMBER.			1.1.2 (A)
MAJOR OCCUPANCY(S):		GROUP D OCCUPANCY			3.1.2.1.(1)
BUILDING AREA:		EXISTING: 614.8 m2 (6,615 SQ.FT)			1.4.1.2 (A)
GROSS AREA:		EXISTING: 1,190.6 m2 (12,811 SQ.FT)			1.4.1.2 (A)
NUMBER OF STOREYS:		ABOVE GRADE: 2, BELOW GRADE: 0			1.4.1.2 (A) &
NUMBER OF STREETS:		1			3.2.2.10 & 3.2.5
BUILDING CLASSIFICATION:		MAJOR: GROUP D BUSINESS AND PERSONAL SERVICES, SUSIDIARY: GROUP A2 ASSEMBLY			3.2.2.55
SPRINKLERS:		NOT REQUIRED			3.2.2.55
STANDPIPE SYSTEM:		NOT REQUIRED			3.2.9
FIRE ALARM SYSTEM:		NOT REQUIRED			3.2.4
CONSTRUCTION RESTRICTIONS:		BOTH ALLOWED			3.2.2.64
ACTUAL CONSTRUCTION:		NON-COMBUSTIBLE			3.2.2.64
MEZZANINES:		NONE			3.2.1.1.(3)-(8)
OCCUPANT LOAD:		BASED ON AREA PER PERSON AS NOTED BELOW: (EDIT AS REQUIRED)			3.1.17
FLOOR	OCCUPANCY TYPE	AREA (SM)	RATE	PERSONS	
SECOND	OFFICES	471	9.3	50	
TOTAL BUILDING OCCUPANCY LOAD - THE COUNCIL CHAMBER IS OCCUPIED BY THE SAME PERSONS THAT OCCUPY THE OFFICE SPACE AND ARE OCCUPIED AT ALTERNATING TIMES. THE COUNCIL CHAMBER IS DESIGNED FOR 50 PERSONS AND IT IS ASSUMED THAT OF THE 50 PERSONS, 8 PERSONS HAVE OFFICES. THE TOTAL NUMBER OF PERSONS ALLOWED ON THE FLOOR IS LIMITED BY THE NUMBER OF WASHROOM FIXTURES, TOTALING TO 98 PERSONS. A SIGN WOULD NEED TO BE PLACED ON THE FLOOR INDICATING THE OCCUPANT LOAD IS 98 PERSONS.					98
BARRIER FREE DESIGN		YES			3.8
REQUIRED FIRE RESISTANCE RATINGS		FLOORS	45 MIN	3.2.2.55	
		ROOF	NONE	3.2.2.55	
		MEZZANINE	NONE	3.2.2.55	
		SUPPORTING STRUCTURES	SUPPORTING FLOORS - 45 MIN SUPPORTING ROOF - NONE	3.2.2.55	
REQUIRED FIRE SEPARATIONS		EXIT ENCLOSURES	45 MIN	3.4.4.1	
		JANITOR'S ROOM	1 HOUR	3.3.1.20.(3)	
PLUMBING FIXTURE REQUIREMENTS					3.7
MALE/FEMALE @ 50%/50%					
FLOOR	OCCUPANCY	AREA / RATE FOR OFFICES	OCCUPANT LOAD PER SEX	BUILDING CODE TABLE #	FIXTURES REQUIRED
					M F M F U
SECOND	OFFICES	471/14	17	3.7.4.7	2 2 2 2 1
	ASSEMBLY	50 PERSONS	25	3.7.4.3.D	1 1 2 2 1
ASSEMBLY OCCUPANCY FALLS WITHIN THE 98 PROVIDED TO WASHROOMS ON THE FLOOR.					

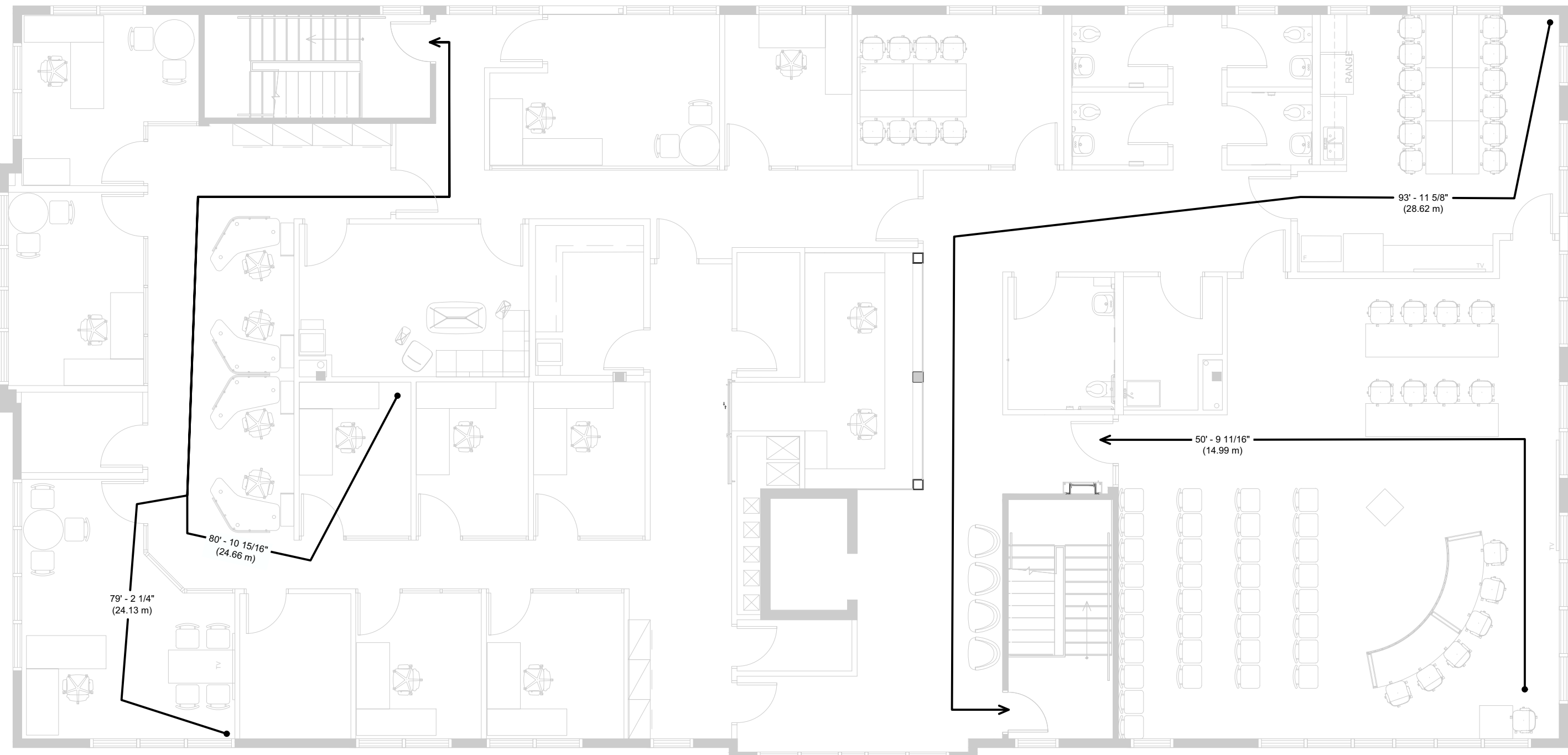
ONTARIO BUILDING CODE 2012		DATA MATRIX - PART 11 (Existing building 5 years old and older)	
TITLE	DESCRIPTION	BC REFERENCE	
EXISTING BUILDING CLASSIFICATION:	OFFICE SPACE WITH A SUBSIDIARY COUNCIL CHAMBER	11.2.1	
	CONSTRUCTION INDEX: 3	T 11.2.1.1A	
	HAZARD INDEX: 4	T 11.2.1.1B TO N	
ALTERATION TO EXISTING BUILDING IS:	EXTENSIVE RENOVATION	11.3.3.1 OR 11.33.2	
REDUCTION IN PERFORMANCE LEVEL	STRUCTURAL	NO	11.4.2.1
	BY INCREASE IN OCCUPANT LOAD	YES	11.4.2.2
	BY CHANGE IN MAJOR OCCUPANCY	NO	11.4.2.3
	PLUMBING	YES	11.4.2.4
	SEWAGE SYSTEM	NO	11.4.2.5
COMPENSATING CONSTRUCTION	STRUCTURAL	NO	11.4.3.2
	BY INCREASE IN OCCUPANT LOAD	NO. EXISTING BUILDING ACCOMMODATED THE ADDITIONAL OCCUPANCY AS PER PART 3	11.4.3.3
	BY CHANGE IN MAJOR OCCUPANCY	NO	11.4.3.4
	PLUMBING	NO.	11.4.3.5
	SEWAGE SYSTEM	NO	11.4.3.6



1 FIRE SEPARATION PLAN
SCALE = N.T.S.

FIRE SEPARATION LEGEND

- 45 MIN FIRE SEPARATION
- 1 HR FIRE SEPARATION



2 TRAVEL DISTANCE PLAN
SCALE = N.T.S.



DESIGN CONSULTANT:
PR-TY ARCHITECTS INC.
824 MEATH STREET, SUITE 100
OTTAWA, ONTARIO, K1Z 6E8
TEL: (613) 724-7700
www.prty.ca

ENGINEERING CONSULTANT:
EXP Services Inc.
2650 QUEENSVIEW DRIVE, SUITE 100,
OTTAWA, ONTARIO, K2B 8H6
TEL: (613) 688-1899
www.exp.com

04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023

REV.	DESCRIPTION	DATE
------	-------------	------

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless
SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200
Ottawa, ON K1Z 6E8

613. 724. 7700
info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP


1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

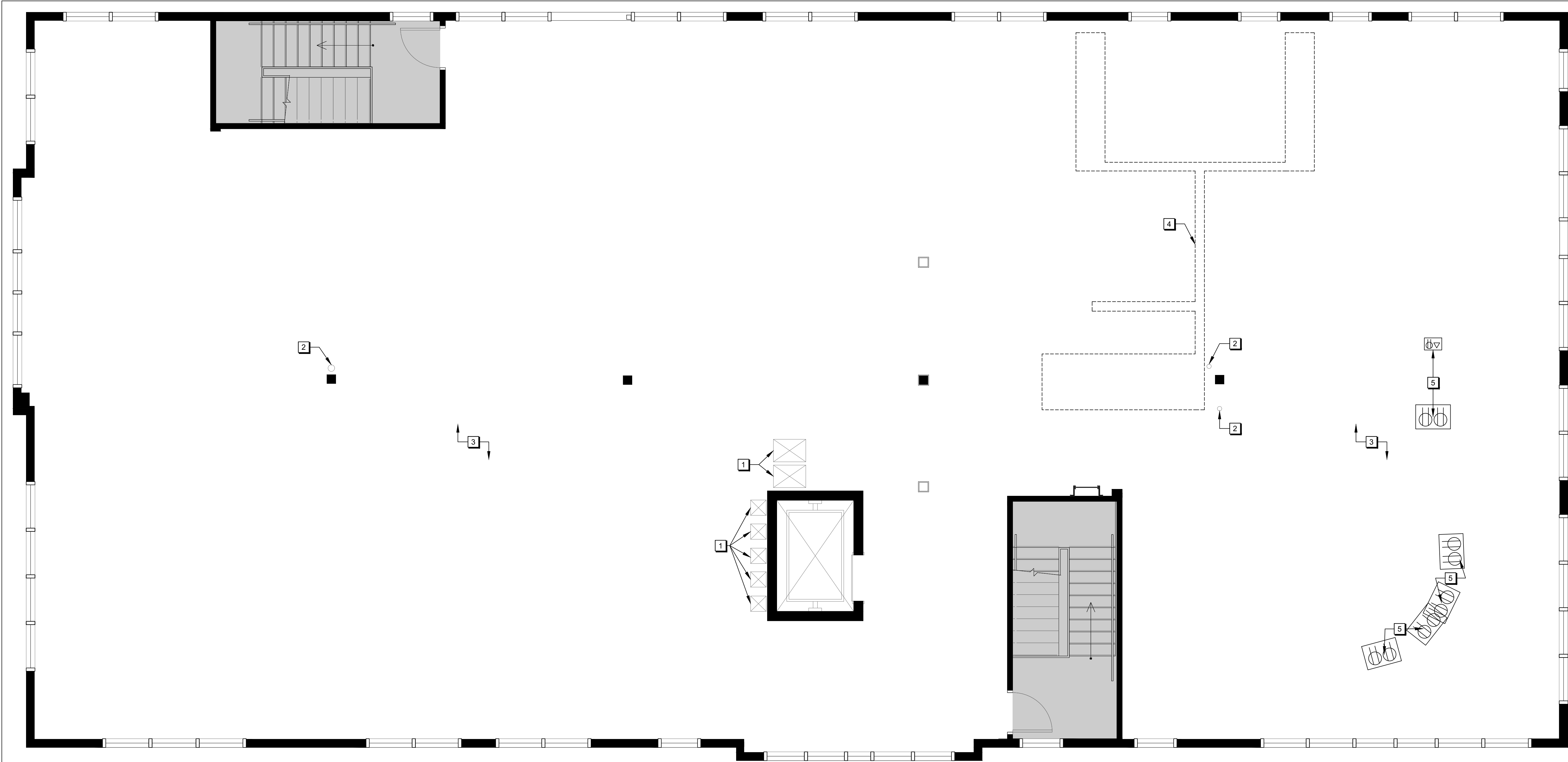
COVER PAGE

PROJECT NO.	22045	DRAWING NO.	
SCALE -	NTS		
DRAWN -	MH		
CHECKED -	KB		
PLOT DATE -	24/03/2025	PLOTTED BY:	

A-000

<div><div>00 21 13 INSTRUCTIONS TO TENDERERS (Applicable to all Trades)</div><div><div>1. Each tenderer must examine the plans and specifications and visit the site of the work before submitting a tender and must satisfy themselves by personal examination as to the local conditions to be met with during the constructions and conduct of the work. Tenderers are not to claim at any time after submission of the tender that there was any misunderstanding of the terms and conditions of the Contract relating to site conditions.</div><div>2. The responsibility and scope of each sub-contractor rests solely with the contractor. Extras will not be considered based on the grounds of difference in interpretation of specifications and drawings as to which trade involved shall provide certain products or work.</div><div>3. It is a condition of this contract that the contractors will, in the performance of the work, comply with any and all municipal, provincial, and federal laws, regulations, and by-laws in being, but not limited to, those concerning the environment and the disposal of waste. It is incumbent on the contractors to be knowledgeable of any such legislation and in the event of non-compliance indemnify and hold harmless the owner and consultants from any costs and damages resulting from such non-compliance.</div></div><div><div>00 70 00 CONDITIONS OF THE CONTRACT</div><div><div>1. Standard Construction Document, CCDC 2 2020, Stipulated Price Contract including Agreement, Definitions, and General Conditions.</div></div></div><div><div>00 71 50 AMENDMENTS TO DEFINITIONS</div><div><div>1. Add the following definition: "Proper Invoice means a "proper invoice" as defined in the Payment Legislation, if any, and as may be modified by written agreement between the parties to the extent permitted by such Payment Legislation."</div><div>2. Add the following definition: "Submittals are documents or items required by the Contract Documents such as: Shop Drawings, samples, models, mock ups to indicated details or characteristics, before the portion of the Work that they represent can be incorporated into the Work, and As-built drawings and manuals to provide instructions to the operation and maintenance of the Work."</div></div><div><div>00 73 00 SUPPLEMENTARY CONDITIONS (Applicable to all Trades except for Mechanical & Electrical Trades - refer to Mechanical and Electrical Specifications for amendments and/or additional requirements for these trades)</div><div><div>1. Delete paragraphs 1.1.3 and 1.1.4 in their entirety and replace them with the following: "</div><div>1.1.3 The Contractor shall review the Contract Documents for the purpose of facilitating and co-ordination and execution of the Work by the Contractor. The Contractor shall report promptly to the Consultant any ambiguities, design issues or other matters requiring clarification made known to the Contractor or that the Contractor may discover from such a review. Such review by the Contractor shall comply with the standard of care described in paragraph 3.9.1 of the Contract."</div><div>1.1.4 Except for its obligation to review the Contract Documents and report the result pursuant to paragraph 1.1.3, the Contractor is not responsible for ambiguities, design issues or other matters requiring clarification in the Contract Documents and does not assume any responsibility to the Owner or to the Consultant for the accuracy of the Contract Documents. Without limiting the foregoing, the Contractor shall not be liable for any damages or costs resulting from any ambiguities, design issues or other matters requiring clarification in the Contract Documents which the Contractor could not reasonably have discovered from such a review in accordance with the standard of care. If the Contractor does discover any ambiguities, design issues or other matters requiring clarification in the Contract Documents, the Contractor shall not proceed with the work affected until the Contractor has received modified or additional information from the Consultant. The impacts of any ambiguities, design issues or other matters requiring clarification in the Contract Documents, including to the Contract Price and Contract Time, shall be addressed by the parties in accordance with Part 6 – CHANGES."</div><div>2. Delete all paragraphs of GC 5.4 in their entirety and replace them with the following paragraphs:</div><div>5.4.1 When the Contractor considers that the Work is substantially performed, or if permitted by the lien legislation applicable to the Place of the Work a designated portion thereof which the Owner agrees to accept separately is substantially performed, the Contractor shall, within five (5) Working Days, deliver to the Consultant and to the Owner a comprehensive list of items to be completed or corrected, together with a written application for a review by the Consultant to establish Substantial Performance of the Work or substantial performance of the designated portion of the Work. Failure to include an item on the list does not alter the responsibility of the Contractor to complete the Contract.</div><div>5.4.2 The Consultant will review the Work to certify or verify the validity of the application and shall promptly, and in any event, no later than 10 calendar days after receipt of the Contractor's application, advise the Contractor in writing that the Work or the designated portion of the Work is not substantially performed and give reasons why, or</div><div>2. state the date of Substantial Performance of the Work or a designated portion of the Work in a certificate and issue a copy of that certificate to each of the Owner and the Contractor.</div><div>5.4.3 Where the holdback amount required by the applicable lien legislation has not been placed in a separate lien holdback account, the Owner shall, no later than 10 calendar days prior to the expiry of the holdback period stipulated in the lien legislation applicable to the Place of the Work, place the holdback amount in a bank account in the joint names of the Owner and the Contractor.</div><div>5.4.4 Subject to the requirements of any Payment Legislation, all holdback amounts prescribed by the applicable lien legislation for the Place of the Work shall become due and payable to the Contractor no later than 10 Working Days following the expiration of the holdback period stipulated in the lien legislation applicable to the Place of the Work, as certified or verified by the Consultant when permitted by any Payment Legislation.</div><div>5.4.5 The Contractor shall submit an application for release of the lien holdback amount in accordance with the lien legislation applicable to the Place of the Work. Except to the extent required by any Payment Legislation, such application for release of the holdback shall not constitute an application for payment that is subject to Proper Invoice requirements.</div><div>5.4.6 Where legislation permits progressive release of the holdback for a portion of the Work and the Consultant has certified or verified that the part of the Work has been performed prior to Substantial Performance of the Work, the Owner hereby agrees to release, and shall release the holdback for such portion of the Work to the Contractor in accordance with such legislation.</div><div>5.4.7 Notwithstanding any progressive release of the holdback, the Contractor shall ensure that such parts of the Work are protected pending the issuance of a final certificate for payment or until the Owner takes early occupancy in accordance with GC12.2, whichever comes first, and shall be responsible for the correction of defects or work not performed regardless of whether or not such was apparent when the holdback was released."</div><div>3. Add to the end of paragraph 5.5.1 the following sentence:</div><div>"The application for final payment shall meet the requirements of a Proper Invoice."</div><div>4. Add the following to the end of paragraph 5.5.3:</div><div>"Subject to any Payment Legislation, when the Consultant finds the Contractor's application for final payment to be not valid, the Contractor shall revise and resubmit the application when the Contractor has addressed the reasons given by the Consultant."</div><div>5. Part 6 Changes in the Work:</div><div>5. Add sub-paragraph "6.2.3 If a change in the Work, not covered by unit prices or estimate and acceptance in a lump sum, results in a net increase in the Contract Price, the charge to the Owner shall be the cost of the work plus:</div><div>1. a maximum charge of 15% covering overhead and profit for work done by the subcontractor's own forces.</div><div>2. a maximum charge of 10% covering overhead and profit for work done by a sub-subcontractor. Sub-subcontractors shall be permitted a maximum percentage of 15% covering overhead and profit for work done by a sub-subcontractor's own forces."</div><div>7. Add sub-paragraph "6.2.4 If a change in Work results in a net decrease in the Contract Price, the amount of the credit shall be the net cost, without deduction for overhead or profit. When both additions and deletions covering related work or substitutions are involved in a change in the Work, the allowance for overhead and profit shall be calculated on the basis of the net increase, if any, with respect to that change in the Work."</div><div>8. Add sub-paragraph "6.2.5 Labour costs shall be the actual rates paid to the workers plus a documented mark-up (not exceeding 60% of actual wages) to cover contributions, assessments, or taxes incurred for such items as unemployment and other insurance, provincial health insurance, Workplace Safety Insurance, Canada or Quebec Pension Plan, Holiday & Vacation Pay, Travelling time, Travel and Parking, Union, Industry Training and Pension Fund, rest periods, down time, personal hygiene, and other benefits paid to workers, personal protection, small tools and the like. Travel time to and from site shall be at no charge to the Owner."</div><div>9. Add sub-paragraph "6.2.6 The percentage for office overhead and profit shall also cover financing, project management, estimating and processing of change orders, shop drawing review, record drawings and all other overheads such as superintendence, site facilities, safety, clean-up and items of all plant, equipment and tools and the like."</div><div>10. Add sub-paragraph "6.2.7 Complete breakdown of all costs submitted for consideration due to changes in the Work shall be furnished to the Contractor for both subcontractor's work and sub-subcontractors' work."</div><div>11. The above conditions are considered the minimum and apply to all subcontractors and their sub-subcontractors except for mechanical and electrical subcontractors and their sub-subcontractors. The above may be amended by the mechanical and electrical specifications. Mechanical and Electrical subcontractors are to review the relevant specifications for different and/or specific requirements as outlined in those specifications. The mechanical and electrical specifications govern over the above for mechanical and electrical subcontractors and their sub-subcontractors in the case of differences with the above. The mechanical and electrical specifications do not apply to all other subcontractors and their sub-subcontractors.</div></div></div><div><div>01 00 00 GENERAL INSTRUCTIONS (Applicable to all Trades)</div><div><div>1. Where new work connects with existing and where existing work is altered, cut, patch, and make good to match existing work.</div><div>2. Conceal pipes, ducts, and wiring in floor and wall construction of finished areas except where indicated otherwise.</div><div>3. Cut and patch existing surfaces as required to accommodate new work, including concealment of new mechanical and electrical services.</div><div>4. "Provide" means "supply and install."</div><div>5. Provide all construction barriers and protection. Maintain all emergency egresses from the building at all times as required by code.</div><div>6. Authorized, Directed, Required, Requested, Approved, Ordered, Sanctioned and Satisfactory: Unless some other meaning is obvious from the context, the above words mean respectively authorized, directed, ... sanctioned by and satisfactory to the Consultant.</div><div>7. The specifications are not intended as detailed installation methods but serve to indicate particular requirements of the completed work.</div><div>8. Confine operation, storage, access, parking to areas as directed.</div><div>9. Maintain all relevant documents at site.</div><div>10. Hold job meetings when directed. Record and distribute minutes.</div><div>11. Designated sanitary facilities in existing building will not be available. Contractor to provide own facilities for use.</div><div>12. Existing power and water at site may be used by Contractor without charge.</div><div>13. Provide Owner with min. 48 hours written notice of service shutdown.</div><div>14. Keep fire routes and corridors clear. Maintain fire protection systems and equipment in operation at all times.</div><div>15. Erect temporary dust screens and fire-rated construction barriers to separate work from remainder of building.</div><div>16. Provide "as-built" drawings accurately showing in red all deviations from Contract Drawings, including location of all underground and concealed utilities, footings, and constructions.</div><div>17. Follow OAA/OGCA Take Over Procedures, OAA/OGCA Document No. 100-2018, Reissued January 8, 2019.</div></div><div><div>01 60 00 PRODUCT/WORKMANSHIP REQUIREMENTS (Applicable to all Trades)</div><div><div>1. Conform to or exceed the minimum requirements of the Ontario Building Code (including Part 9), and all Provincial, Municipal, and Utility laws and regulations.</div><div>2. All materials, products, workmanship shall conform to the applicable CSA, CGSB, ULC, or OPS standards or in their absence, ASTM standards. The most conservative standard applies. All materials shall be new. Pay for tests that indicate non-compliance with Contract Documents.</div><div>3. Apply, install, connect, erect, use, clean all manufactured articles, materials and equipment as recommended by the manufacturer.</div></div></div></div></div></div>	<div><div>4. Execute work in accordance with best standard practice utilizing mechanics skilled in their trades. Erect work true to lines, levels, dimensions, square and plumb. Finish surfaces to be without defect detrimental to appearance.</div><div>5. Provide all necessary and appropriate fastenings and supports required to fabricate, erect, and complete the Work.</div><div>6. Conceal pipes, conduits, ducts and wiring within floor, wall, or ceiling.</div><div>7. In patching, making good, and extending existing surfaces, match in colour and texture all finishes within one area and all items of a similar nature. Maintain fire, air, moisture, and thermal tightness of assembly.</div><div>8. Deliver, store, and handle all material and products in a manner to prevent damage and deterioration.</div><div>9. Protect all new and existing work against damage until take over by the Owner.</div><div>10. Maintain work area free from accumulation of waste materials and rubbish. Remove debris and surplus materials from site.</div><div>11. Clean all surfaces and equipment just prior to hand over to Owner.</div></div> <div><div>02 41 00 DEMOLITION</div><div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Prevent damage to construction and services to remain.</div><div>3. Seal ducts, electrical panels and drains to prevent dust and debris from entering.</div><div>4. Sawcut or diamond drill new openings in concrete and masonry. All cuts in concrete to be scanned and reviewed by structural consultant prior to cutting. Approval by structural consultant and landlord required before commencing work.</div><div>5. Carry out demolition work in accordance with requirements of authorities having jurisdiction.</div><div>6. Remove hazardous and designated substances in accordance with governing regulations.</div><div>7. Demolish parts of existing building required to accommodate new construction.</div><div>8. Remove items as outlined for removal on the drawings, as required to install new materials, finishes, and equipment indicated and where existing items are no longer required for the functioning of the work.</div><div>9. Remove adhesives and fasteners used with demolished material. Existing surfaces to remain to be cleaned and/or made good to the satisfaction of the consultant and Owner.</div><div>10. Remove and reinstall existing equipment, services and obstacles where required for functioning of the work.</div><div>11. Take special note that drawings do not indicate the amount of demolition necessary, only the condition of the building when complete. Inspect the site and ascertain the correct portions to be removed.</div></div><div><div>06 10 00 ROUGH CARPENTRY</div><div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Lumber: CLSAB identified softwood to CSA O141-05 and NLGA 2014, max. 19% MC, S4S. Finger jointed material unacceptable.</div><div>3. Furring blocking, nailing strips, grounds, rough bucks: SPF or DF; boards to be #3 common, dimension sizes to be structural grade.</div><div>4. Cants, curbs, nailers, for roofing: #3 structural, northern species.</div><div>5. Plywood: DFP to CSA O121-08 or CSP to CSA O151-09.</div><div>1. Fire retardant Treat Wood (FRWT) plywood pressure impregnated with fire retardant chemicals in accordance with CAN/CSA-O80.1 and CAN/CSA-O80.2. Flame Spread Rating, max. 25.</div><div>6. OSB: to CAN/CSA O437-0.93.</div><div>7. Nails: To NBC 9.23.3, galvanized for exterior, exterior wall, roof work and for pressure treated wood: spiral. [except for floors]</div><div>8. Rough hardware, hot dipped galvanized with 600g zinc/m² to CAN/CSA G164-M92 or "Climaseal" or "Sentri" coated.</div><div>9. Electroplated galvanizing is not acceptable.</div><div>9. Provide furring and blocking for items to be attached. Provide electrical back boards.</div><div>10. Rough carpentry indicated shall not be regarded as complete or exact. Conform to OBC Section 9.23 and as additionally indicated.</div></div><div><div>06 20 00 FINISH CARPENTRY</div><div><div>1. General:</div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Do work to North American Architectural Woodwork Standards 4.0 Errata Edition, custom grade.</div><div>3. Submit shop drawings.</div><div>2. Cabinetry:</div><div>1. Construct from minimum 19mm plywood to CSA O115-M1982(R2001).</div><div>2. Countertops: as per drawings.</div><div>3. Hardwood Veneer: min. 0.71mm thick; stain grade.</div><div>4. Use MDF core to ANSI A208.2-2002 for doors > 1.2m in height.</div><div>5. Cabinet Doors: Overlay type.</div><div>6. Plastic laminate: to NEMA LD 3-2005.</div><div>7. Solid Surface: Cast, non-porous mineral filled acrylic polymer to ANSI Z124.3 or 6, Type 6. Maximum flame spread rating 25, maximum smoke developed 30 to ASTM E84. Acceptable Product: Corian by Dupont or equivalent.</div><div>8. Solid Surface Adhesive: 2-part, inconspicuous, chemical bonding, non-porous adhesive, as recommended by the manufacturer.</div><div>9. Accessories as per drawings.</div></div><div><div>07 21 00 INSULATION</div><div><div>1. Materials:</div><div>1. The requirements of Division 1 form part of this section.</div><div>2. Perimeter Insulation: Celcor 300 or Dow Styrofoam SLM in 600 x 2400 boards, min. 65mm thick.</div><div>3. Batt insulation: Glass fibre to CAN/ULC-S702-14, to suit steel studs, RSI or thickness as indicated.</div><div>4. Adhesive: Bakor Air-Bloc 21.</div><div>5. Mechanical Fasteners:</div><div>1. Impale type, perforated 50 x 50mm c/w 25mm dia. self-locking washers.</div><div>2. Installation:</div><div>1. Install insulation to provide continuity of thermal protection to building elements and spaces. Fix tightly and neatly to interruption and pack perimeter of interruptions. Eliminate voids behind insulation.</div><div>2. Do not enclose insulation until it has been reviewed.</div><div>3. Where air barrier is provided by others, apply adhesive to board perimeters. On rigid boards apply supplemental adhesive in serpentine pattern from side to side. Otherwise install board insulation in min. 3mm thick continuous bed of air/vapour barrier adhesive and butter edges.</div><div>4. Mechanically fasten wall insulation with min. 4 fasteners/board. Double rate on ceilings.</div><div>5. At exterior stud walls: Locate end joints of rigid insulation over studs. Fastener adjacent to top and bottom at each stud and max. 400mm o.c. between in field and 150mm o.c. between on vertical edges.</div><div>6. Keep insulation other than Rock Wool min. 75mm from heat emitting devices such as lights and chimneys.</div><div>7. Install prefab vents including all requisite accessories.</div></div><div><div>07 84 00 FIRESTOPPING</div><div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Do all firestopping except as specified under other sections.</div><div>3. Provide firestopping and smoke seal system and components to CAN4-S115-M85, asbestos free, non-sagging, ULC listed, to equal rating of fire separation: Type F. Materials to suit opening size and type of penetration.</div><div>4. Submit shop drawings and product data to suit job conditions.</div><div>5. Seal holes or voids at penetrations and at openings, joints and gaps in construction continuity to ensure continuity and integrity of fire separations are maintained.</div><div>6. Firestop at:</div><div>1. Penetrations through fire rated masonry, concrete and gypsum board walls, ceilings, roof, and floors.</div><div>2. Top of fire rated gypsum board partitions.</div><div>3. Intersection of fire resistance rated fire rated gypsum board partition walls.</div><div>4. Smoke seal at locations in Item 5 above in unrated fire separations and around stair, elevator and service shafts, interconnected spaces, generator, and boiler rooms.</div><div>5. Firestop at locations in Item 5 above in unrated fire separations where abutting materials cannot be tightly fitted.</div><div>6. Install sealants to standards of Section 07 92 00.</div></div><div><div>07 92 00 JOINT SEALANTS</div><div><div>1. The requirements of Division 01 form part of this section.</div><div>2. For Section 07 92 00, extend GC-12.3 to 3 years. Provide acceptable written warranty for same. Specifically warrant against leakage, running, loss of adhesion or staining adjacent surfaces.</div><div>3. Prepare, prime, seal, install, and maintain all sealants in accordance to manufacturer's instructions.</div><div>4. Apply clear silicone sealant to top of splashbacks. Apply silicone sealant at floor around plumbing fixtures at depths and walls on and above second floor.</div><div>5. Apply interior sealant at perimeters of interior non-wraparound doors and frames.</div><div>6. Where directed, apply fire bead acrylic-latex to non-moving exposed interior joints to be painted.</div><div>7. Apply fire stop sealant around all penetrations of mechanical, electrical and other items penetrating through fire rated construction. Apply to provide required fire rating.</div></div><div><div>08 11 00 STEEL DOORS AND FRAMES</div><div><div>1. General:</div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Fabricate welded steel doors and frames to CSDMA "Specification for Commercial Steel Doors and Frames 2006". Fire doors and frames: ULC or WHI (Intertek), listed, labelled, and certified to CAN/ULC S104-15 and CAN/ULC S105-16. Install fire-rated doors and frames to NFPA 80-2013.</div><div>3. Submit shop drawings.</div><div>4. Doors and frames within demountable wall systems by Section 10 22 19.</div><div>2. Materials:</div><div>1. Sheet steel: Commercial grade to ASTM A568/A568M-19a with ZF001 zinc finish to ASTM A653/A653M-13.</div><div>2. Honeycomb core: Structural core consisting of resin impregnated kraft paper, having 19mm cell size.</div><div>3. Cap tops of exterior doors flush.</div><div>4. Primer: For touch-up to CAN/CSGB-1.181-99.</div><div>5. Glazing stop screws: cadmium plated.</div><div>3. Fabrication:</div><div>1. Door faces: Min. 18ga.</div><div>2. Locate screws for glazing stops at maximum 200mm o.c.</div><div>3. Fit butting stops, channels and components tightly to adjacent corners free of sharp corners.</div><div>4. Repair any surface depressions and butted joints with metallic paste filler. Sand to uniform smooth surface.</div><div>5. Touch-up primer where galvanized finish damaged.</div><div>6. Provide black neoprene rubber bumpers.</div><div>7. Astragals: 4.8mm sheet steel, welded in place.</div><div>4. Installation:</div><div>1. Set frames plumb and level with maximum diagonal distortion of 2.4mm.</div><div>2. Securely anchor to adjacent concrete or masonry.</div><div>3. While building in, brace frames at mid-height (and if over 1.2m wide; at centre).</div><div>4. Adjust doors to close without binding. Provide even margins; 1.0mm at hinge, 1.5mm at head and latch side, 13mm at floor.</div><div>5. Reinforce, drill, cut and make good existing frames and doors as required by modifications indicated by drawings and schedules.</div></div><div><div>08 14 00 WOOD DOORS</div><div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Construct doors and use materials conforming to CSA O132.2 Series-90 and NAAVS 4.0 - North American Architectural Woodwork Standards (AWS), except where specified otherwise.</div><div>3. Provide manufacturer's 3 year written warranty against warpage, twist, showing core lines, splitting, delamination and sag for interior doors.</div></div></div></div></div></div></div></div></div></div>	<div><div>4. Solid core flush doors: framed core of wood particle board with plywood face veneer; use paint/stain grade. Provide solid core and adequate fastening of hardware and min. 12mm hardwood edges. Seal top and bottom of doors and edges of cutouts.</div><div>5. Adjust doors to close without binding. Provide even margins; 2.4mm at latch side, 2.4 - 3.0mm at head, 9 - 12mm at floor but max. 6.0 mm where fire rated.</div></div> <div><div>08 71 00 DOOR HARDWARE</div><div><div>1. General:</div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Submit hardware and keying schedules prepared by registered AHC member and verified as to its appropriateness. All similar items to be of same manufacture. Submit catalogue cuts.</div><div>3. Provide door and frame manufacturers with necessary templates.</div><div>4. All doors to be keyed different and master keyed [to existing system.] Supplier to turn keys over to Owner directly.</div><div>5. Stainless steel: Types 302 or 304.</div><div>2. Hardware Items:</div><div>1. Butts: Refer to drawings.</div><div>2. Locksets: Refer to drawings.</div><div>3. Closers: Refer to drawings.</div><div>4. Stops: Refer to drawings.</div><div>5. Kickplates: Refer to drawings.</div><div>6. Interior Pulls: Refer to drawings.</div><div>7. Thresholds: Refer to drawings.</div><div>8. Weatherstrip: Refer to drawings.</div><div>1. Sweep: Refer to drawings.</div><div>9. Electric Strikes: Refer to drawings.</div><div>10. Robe Hook: Refer to drawings.</div><div>3. Hardware Types:</div><div>1. Refer to drawings.</div><div>4. Automatic Operators:</div><div>1. Refer to drawings.</div><div>5. Installation:</div><div>1. Set thresholds in two continuous beads of butyl sealant. Cope around mullions and frames.</div><div>2. Set angle for stops and holders to Consultant's approval. Mount floor stops out of line of travel.</div><div>3. Set closers and rim exit device strikes over heavy duty weatherstripping.</div><div>4. Mount robe hooks 1.2m from floor in barrier free washrooms.</div></div><div><div>08 80 00 GLAZING</div><div><div>1. General:</div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Glaze in a manner to ensure rattle free cushioning for interior glazing.</div><div>3. Provide ten-year written warranty against failure of seal and deposits on inner face of glass detrimental to vision for sealed double-glazing units.</div><div>4. Use only compatible glazing materials and sealed units.</div><div>2. Glass Materials:</div><div>1. Float glass: To CAN/CSGB-12.3-M91 glazing quality, of thickness indicated, but not less than CAN/CSGB-12.20-M89.</div><div>2. Tempered glass: To CAN/CSGB-12.1-M90, Type 2, Class B, min. 6mm thick.</div><div>3. Mirrors: To CAN/CSGB-12.5-M86, silvered, Type 1A, 6mm thick, unframed, ground, and polished edges.</div><div>3. Glazing Materials:</div><div>1. Glazing tape: Tremco "440" Tape, preshimmmed for exterior glazing.</div><div>2. Setting blocks and spacer suits: Neoprene, 80 and 40 hardness respectively.</div><div>3. Glazing splines: Neoprene, to suit aluminum extrusions.</div><div>4. Sealant: CAN/CSGB-19.24-M87, Type 2, Class A, compatible with sealed units.</div><div>5. Silicone sealant: Tremco Frogglaze.</div><div>4. Workmanship:</div><div>1. Set glass on setting blocks properly centered with uniform face and edge clearance, free from distortion causing stress. Make allowance for contraction and expansion.</div><div>2. Install glass to ensure full contact and adhesion at perimeter and on both sides.</div><div>3. Lay out splines on flat warm area to permit recovery of shape. Install splines under compression from corner.</div><div>4. Provide toe bead of sealant along bottom and for 100mm up from bottom corner of interior installed un-vented exterior glazing.</div><div>5. Install mirrors in adjustable stainless steel edge flange holders.</div></div><div><div>09 21 00 DRYWALL</div><div><div>1. General:</div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Reference Standards: Provide work per CAN/CSA A82.31-M1980, ASTM C754-00, ASTM C840-18b, ASTM C1280-18 and ANSI A108/A118/A136-2024 except where specified otherwise.</div><div>3. Construct fire-rated assemblies to OBC Guidelines, referenced ULC or WHI Designs, or OBMEC Authorizations.</div><div>4. Provide seismic design and final review letter from an Ont. P. Eng. to confirm compliance with OBC for all drywall installations.</div><div>2. Framing and Furring:</div><div>1. Non-load bearing channel stud framing: To ASTM C645-18 stud size as shown, roll formed from 25ga. Electrogalvanized steel sheet, for screw attachment of gypsum board. Knock out service holes at 450mm o.c. Ceiling and floor track to suit.</div><div>2. Drywall furring channels: 25ga. electrogalvanized steel channels for screw attachments of gypsum board.</div><div>3. Ceiling runner channels 38 x 19mm x16ga. cold rolled channels, Z275 galvanized.</div><div>4. Running hangers, tie wires, inserts, anchors; galvanized.</div><div>3. Gypsum Board:</div><div>1. Plain: To ASTM C36/C36M-01, 1200mm wide x max. practical length, ends square cut, edges tapered with round edges.</div><div>2. Fire rated: As item 1, but fire-rated and ULC labelled.</div><div>3. Moisture resistant: To ASTM C630/C630M-01, 1200mm wide x maximum practical length, green facing.</div><div>4. Tile backer: Glass fibre reinforced cement board, CGC Durock, 12.7mm thick.</div><div>4. Accessories:</div><div>1. Corner and casing beads: To ASTM C1047-19, fill type, 25ga. galvanized, concealed except as otherwise noted.</div><div>2. Insulating strips: 3mm closed cell neoprene, self sticking.</div><div>5. Furring and Framing:</div><div>1. Anchor tracks at maximum 600mm o.c. and at ends to floor, deck, abutting walls, columns.</div><div>2. Frame at 400mm o.c. except as indicated. Frame to structure above except as otherwise noted but allow for structural deflection. Use full wall height at each side of openings and secure studs together.</div><div>3. Screw studs to bottom track, but only to top tracks at ceiling height partitions.</div><div>4. Provide two runner channels over head of openings over 1m in width extending out to engage third stud on each side.</div><div>5. Provide reinforcing and backing for items to be attached.</div><div>6. Diagonally brace bulkheads @ max. 1.2m o.c. Run furring channels at 1.2 max. across unfaced wall faces.</div><div>7. Install ceilings to 1:1200 tolerance, walls and furring to 1:1000 tolerance.</div><div>8. Suspend ceiling runner channels at 1.2m o.c. to support furring channels. Rigidly brace soffits.</div><div>9. Provide for control joints at max. 10m centres in walls and ceilings.</div><div>6. Gypsum Board Application:</div><div>1. Use ceiling. Maximum spacing 300mm o.c. on edges and 400mm o.c. in field, except 300mm for fire rated, 150mm for tile backer and cement board. 200mm for gypsum sheathing.</div><div>2. Offset vertical and horizontal joints between layers of gypsum board. Run ceilings boards perpendicular to furring. Run sheathing horizontally.</div><div>3. Laminating gypsum board to Manufacturer's directions.</div><div>4. Install casing beads where gypsum board butts against surfaces having no trim concealing junction. Install continuous insulating strips where gypsum board abuts exterior window and door frames, and above ceiling height partition tracks.</div><div>5. Install access doors to electrical and mechanical services.</div><div>6. Extend gypsum board to structure, except as indicated, to provide a minimum 10mm overlap.</div><div>7. Use moisture resistant gypsum board for washroom walls. At moisture resistant gypsum board to receive tile facing; seal cut edges and fasteners with shellac.</div><div>8. Use tile backer board behind ceramic tile.</div><div>9. Patch/ defects in existing drywall construction, where fixtures removed, and where new work installed.</div><div>7. At Fire Separations:</div><div>1. Shape gypsum board to fit deck profile.</div><div>2. Box in interfering beams, joists, pipes, conduits to maintain integrity.</div><div>3. Line door frame heads and fire damper openings with gypsum board.</div><div>4. Use ULC or WHI labelled acoustic batts.</div><div>5. Carry column fireproofing to top of columns.</div><div>6. Box in lights recessed in fire-rated gypsum board ceilings.</div><div>8. Taping & Filling:</div><div>1. Complete taping, filling and sanding ready for painting: smooth, level, plumb, wave free.</div><div>2. Tape and fill joints covering plastic installation, in acoustic walls, fire separations and behind ceramic tile.</div><div>3. Use CGC Durabond 90 to fill joints of exterior cement board and moisture resistant board.</div></div><div><div>09 30 00 CERAMIC TILING</div><div><div>1. Reference Standards:</div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Do work to 2019-2021 Specification Guide 09300 Tile Installation Manual produced by TTMAC and ANSI "Specifications for Installation of Ceramic Tile".</div><div>2. Manufacture:</div><div>1. Ceramic tile: As per drawings.</div><div>3. Materials:</div><div>1. Mortar and grout: Dry set to ANSI A108/A118/A136.1-2024, colour as selected.</div><div>2. Accessory strips by Schluter: Reducer; "Reno"; "Edge"; "Schiene" - AE finish, stair nosings: "Trep-S" colour as selected.</div><div>3. Waterproofing: Laticrete 9235 or Mapal Plaincrete W on lowest floor.</div><div>4. Workmanship:</div><div>1. Align patterns. Patterns to be uninterrupted through doorways.</div><div>2. Make internal angles square, external angles bullnosed. Use bullnosed base where no tile finish above.</div><div>3. Use bullnosed edged tiles at termination of wall tile panels.</div><div>4. Provide edge and reducer strips at floor terminations. Provide nosing strips at stair and landing edges.</div><div>5. Make joints 2% of tile width, uniform, straight and even. Provide control joints at max. 6.0m on centre.</div><div>6. Apply slight levelling coat to concrete and masonry.</div><div>7. Thoroughly clean down all work immediately as completed.</div><div>8. Apply floor tile with thin set bond coat to TTMAC Detail 311F-02 and ANSI 108/A118/A136.1-2024.</div></div><div><div>09 51 00 ACOUSTIC CEILINGS</div><div><div>1. Materials:</div><div>1. The requirements of Division 01 form part of this section.</div><div>2. Acoustic panels: To CAN/CSGB 92.1-M89, square edge, Type D (mineral), pattern D (fissured), square edge 16mm thick, standard white, min. NRC .50-60, min. CAC 35, min. L.R. 0.75, 610 x 1220mm except as indicated.</div><div>3. Provide seismic design and final review letter from an Ont. P. Eng. to confirm compliance with OBC for all acoustic ceiling installations.</div><div>2. Installation:</div></div></div></div></div></div></div>	<div><div></div><div><div>04 ISSUED FOR TENDER24/MAR/2025</div><div>03 ISSUED FOR PERMIT18/MAR/2025</div><div>02 ISSUED FOR 99% REVIEW24/FEB/2025</div><div>01 ISSUED FOR 66% REVIEW12/MAY/2023</div></div><div><div>REV.</div><div>DESCRIPTION</div><div>DATE</div></div><div><div>THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED</div><div>CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.</div></div><div><div>SEAL</div><div>PROJECT NORTH</div></div><div><div>Not for construction unless SEALED and SIGNED</div><div><div><div>P</div><div>R</div><div>T</div><div>Y</div></div><div><div>PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC.</div></div></div><div><div>824 Meath St. Suite 200</div><div>613. 724. 7700</div><div>Ottawa, ON K1Z 6E8</div><div>info@prty.ca</div></div><div><div>PROJECT</div><div>MUNICIPALITY OF CASSELMAN OFFICE FIT-UP</div></div><div><div>1 INDUSTRIEL STREET</div><div>CASSELMAN, ON</div></div><div><div>DRAWING</div><div>SPECIFICATIONS</div></div><div><div>PROJECT NO. 22045</div><div>DRAWING NO.</div><div>SCALE - 1/8" = 1'-0"</div><div>DRAWN - MH</div><div>CHECKED - KB</div><div>PLOT DATE - 24/03/2025</div><div>PLOTTED BY:</div></div><div><div>A-001</div></div></div></div>
--	--	---	---

A-002



1
A-100
LEVEL 2
DEMOLITION PLAN
SCALE = 1/4" = 1'-0"

DEMOLITION PLAN LEGEND

- EXISTING PARTITIONS TO REMAIN
- EXISTING DOOR, FRAME, AND HARDWARE C/W ALL RELATED COMPONENTS TO REMAIN
- NEW FLOOR MONUMENT (SEE ELECTRICAL). REFER TO PAGE A-103 FOR EXACT LOCATION.

DEMOLITION PLAN KEYNOTES

- 1. EXISTING HVAC DUCTING TO REMAIN (SEE MECHANICAL).
- 2. EXISTING PLUMBING PIPING RUNNING DOWN COLUMN TO REMAIN (SEE MECHANICAL).
- 3. EXISTING CONCRETE SLAB FLOOR TO REMAIN
- 4. AREA OF CORING TO OCCUR FOR INSTALLATION OF NEW SANITARY AND PLUMBING LINES. FLOOR SLAB IS TO BE SCANNED AND SIGNED OFF BY STRUCTURAL ENGINEER PRIOR TO CORING TO VERIFY NO INTERFERENCES WITHIN THE SLAB. CORE LOCATIONS ARE TO BE COORDINATED WITH THE MECHANICAL DRAWINGS AND BASED ON SHORTEST DISTANCE AND LEAST INTERFERENCES.
- 5. CORE FOR NEW FLOOR MONUMENT AS PER ENGINEERS DRAWINGS. FLOOR SLAB IS TO BE SCANNED AND SIGNED OFF BY STRUCTURAL ENGINEER PRIOR TO CORING TO VERIFY NO INTERFERENCES WITHIN THE SLAB. CORE LOCATIONS ARE TO BE COORDINATED BASED ON SHORTEST DISTANCE AND LEAST INTERFERENCES.

DEMOLITION NOTES

- 1. CONTRACTOR TO REPAIR AND MAKE GOOD ALL EXISTING SURFACES (FLOOR, WALL AND CEILING) AFFECTED BY DEMOLITION AND NEW WORK, READY TO RECEIVE NEW FINISHES.
- 2. ALL MATERIALS FROM DEMOLITION TO BE REMOVED.
- 3. CONTRACTOR TO ENSURE THAT ALL AREAS ARE CLEANED ON AN ONGOING BASIS.
- 4. CONTRACTOR TO BE RESPONSIBLE FOR ENSURING THERE IS A SECURE AND LEVEL FLOOR SUBSTRATE TO RECEIVE NEW FINISH INSTALLATION.
- 5. THE CONTRACTOR SHALL PATCH AND REPAIR ALL WALL, FLOOR AND CEILING SURFACES AFFECTED BY DEMOLITION.
- 6. THIS IS AN OCCUPIED BUILDING. CONTRACTOR IS REQUIRED TO NOTIFY BUILDING MANAGEMENT & PROJECT MANAGER MINIMUM 24 HOURS PRIOR TO STARTING ANY AFTER HOUR WORK AND WORK THAT CREATES NOISE & DIRT. CLEANING PUBLIC ACCESS SPACE IS REQUIRED AT THE END OF EACH WORKING SHIFT.
- 7. CONTRACTOR TO COORDINATE REMOVAL OF MECHANICAL, ELECTRICAL, VOICE, DATA AND EQUIPMENT. ALL REMOVED SECURITY DEVICES SUCH AS CARD READERS, KEYPADS, BELLS, ALARMS ETC. TO BE TURNED OVER FOR REUSE. ALL EXISTING ELECTRICAL WIRES IN PARTITIONS THAT ARE TO BE REMOVED ARE TO BE PULLED BACK TO SOURCE. SEE ELECTRICAL.
- 8. ALL ELECTRICAL DEMOLITIONS ARE TO BE BROUGHT BACK TO SOURCE. SEE ELECTRICAL.



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/ OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

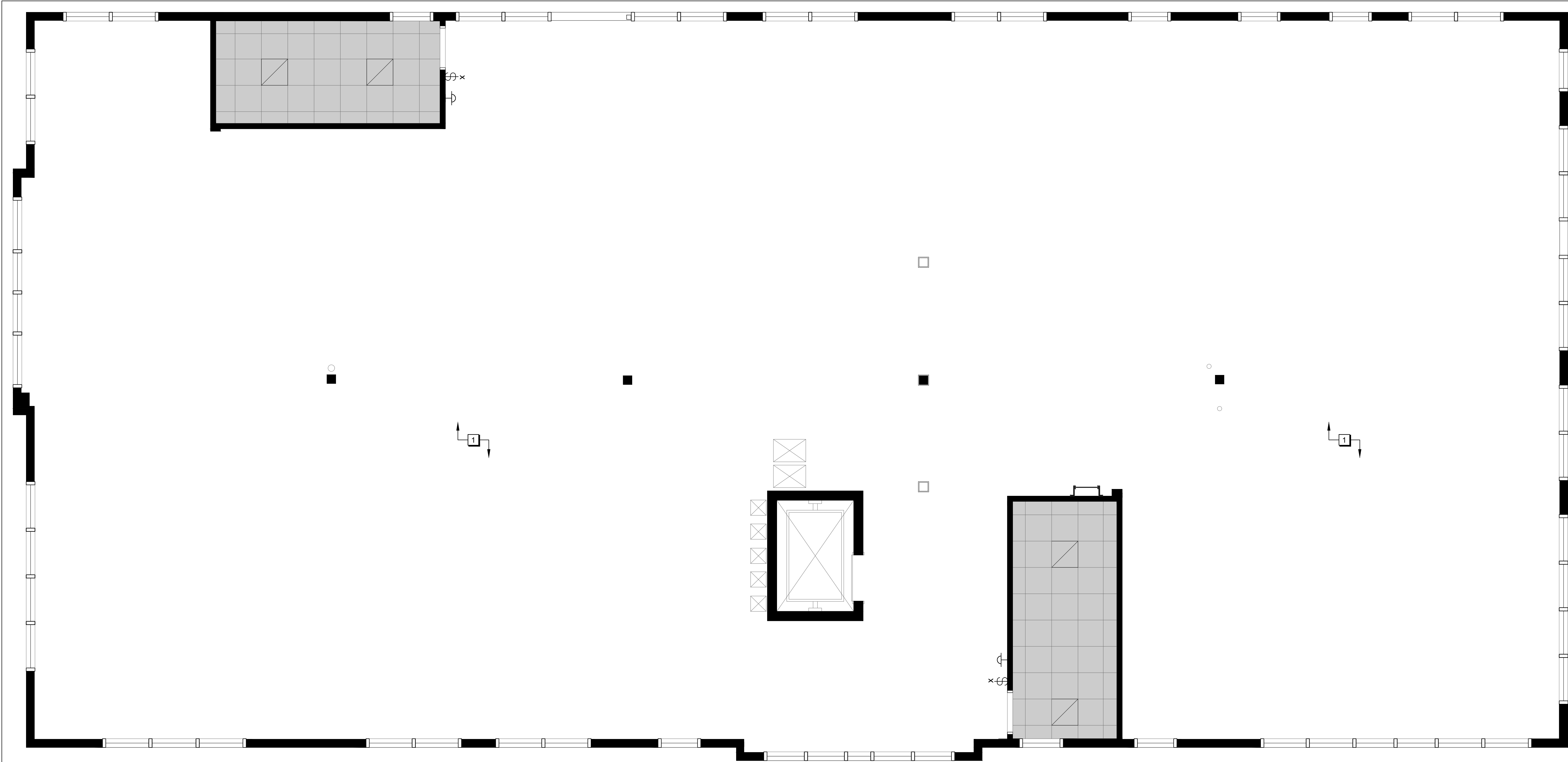
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

LEVEL 2
DEMOLITION PLAN

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-100
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	
		PLOTTED BY:



1
A-101
**LEVEL 2
REFLECTED CEILING DEMOLITION PLAN**
SCALE = 1/4" = 1'-0"

REFLECTED CEILING DEMOLITION PLAN LEGEND

- EXISTING PARTITIONS TO REMAIN
- EXISTING T-BAR GRID AND CEILING TILES TO REMAIN.
- EXISTING RECESSED FLUORESCENT TROFFER TO REMAIN (SEE ELECTRICAL).
- EXISTING SWITCH TO BE REMOVED (SEE ELECTRICAL).
- EXISTING WALL MOUNTED LIGHT FIXTURE TO BE REMOVED (SEE ELECTRICAL)

REFLECTED CEILING DEMOLITION PLAN KEYNOTES

- 1 EXISTING EXPOSED TRUSSES & ROOF DECK TO REMAIN.

AREA NOT IN CONTRACT



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/ OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
Not for construction unless SEALED and SIGNED	

P

R

T

Y

PYE & RICHARDS -

TEMPRANO & YOUNG

ARCHITECTS INC.

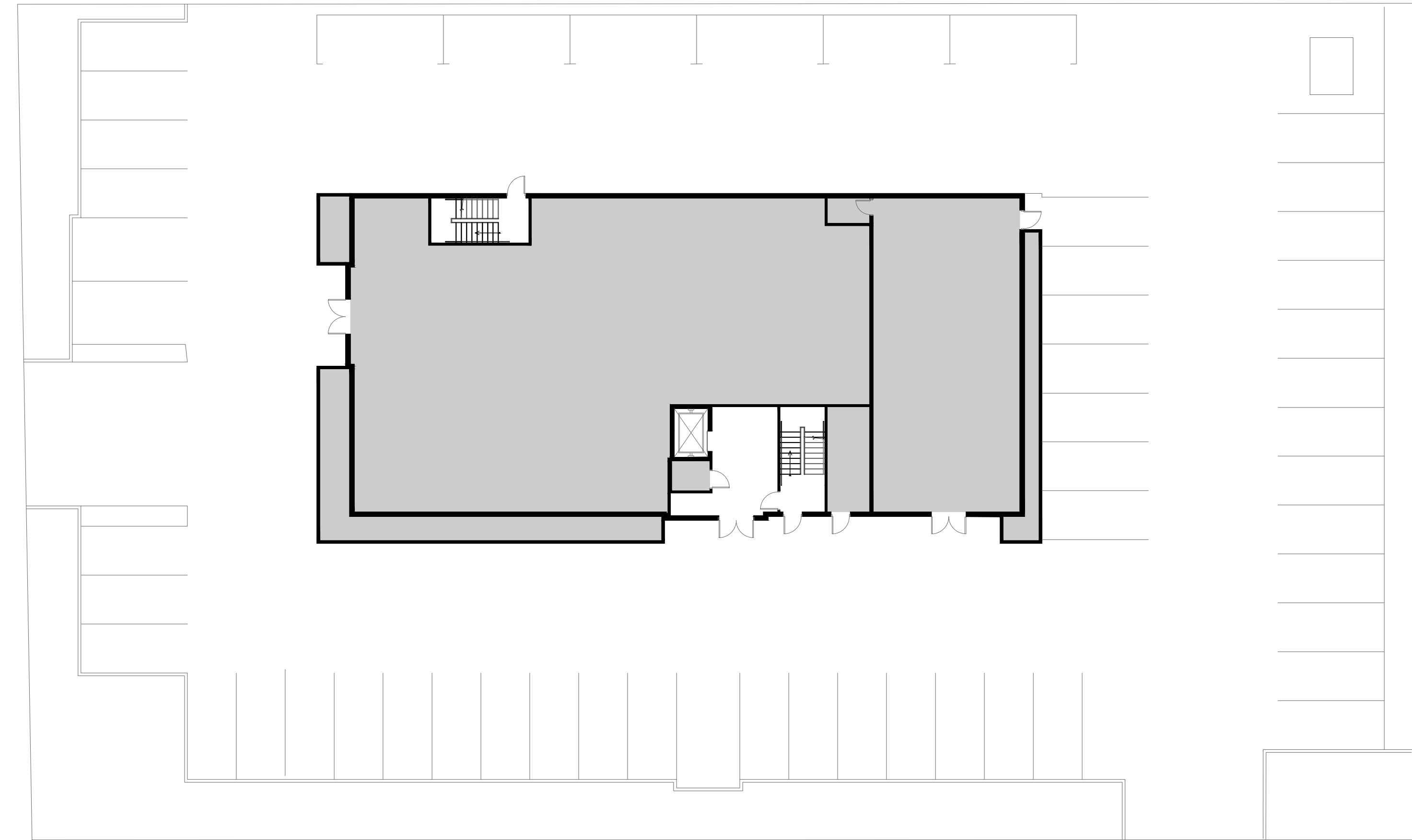
824 Meath St. Suite 200

Ottawa, ON K1Z 6E8

613. 724. 7700

info@prty.ca

PROJECT	
MUNICIPALITY OF CASSELMAN OFFICE FIT-UP	
1 INDUSTRIEL STREET	CASSELMAN, ON
DRAWING	
LEVEL 2 REFLECTED CEILING DEMOLITION PLAN	
PROJECT NO. 22045	DRAWING NO.
SCALE - 1/8" = 1'-0"	A-101
DRAWN - MH	
CHECKED - KB	
PLOT DATE - 24/03/2025	
PLOTTED BY:	



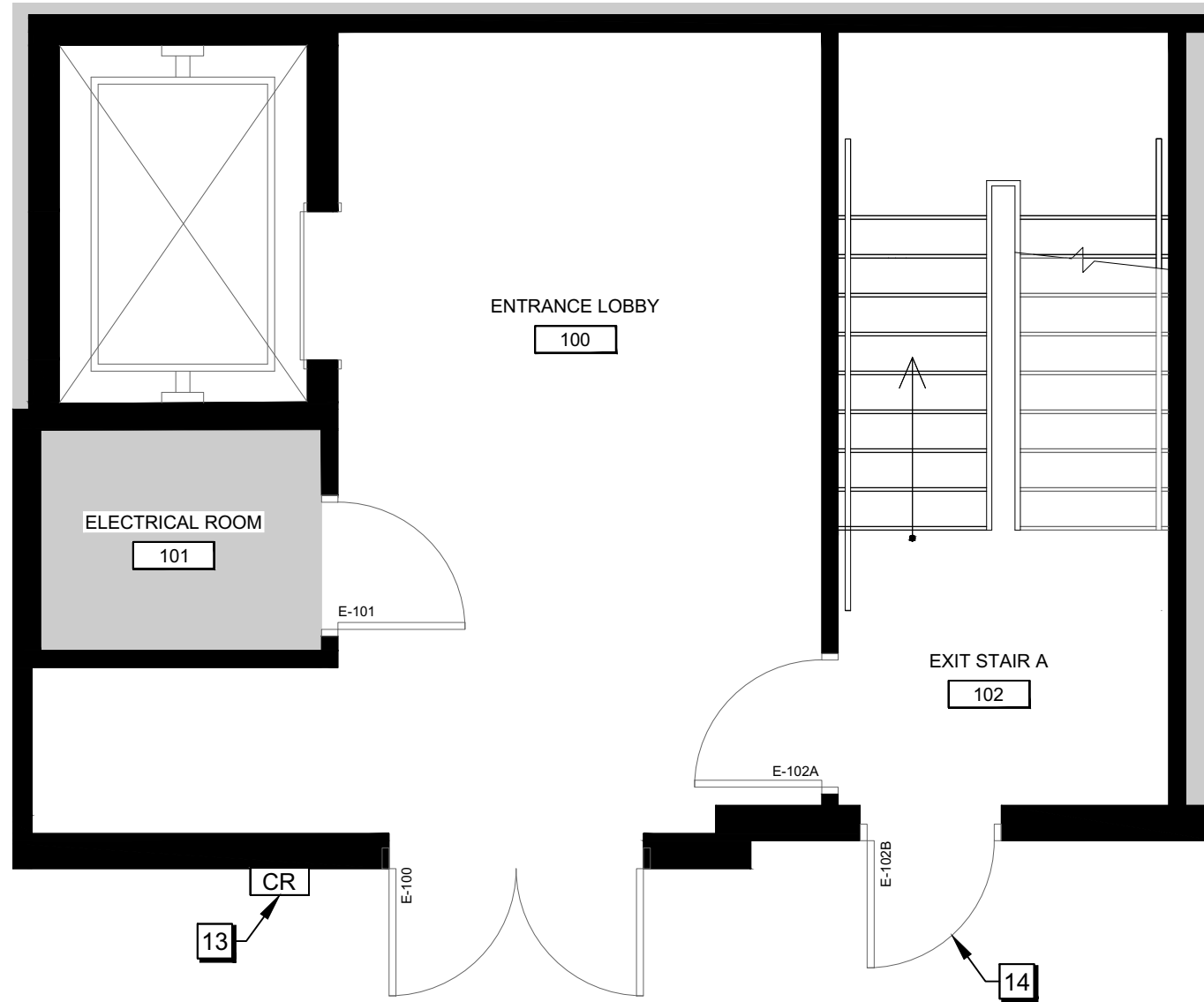
1
LEVEL 1
KEY PLAN
SCALE = 1/16" = 1'-0"

CONSTRUCTION PLAN LEGEND

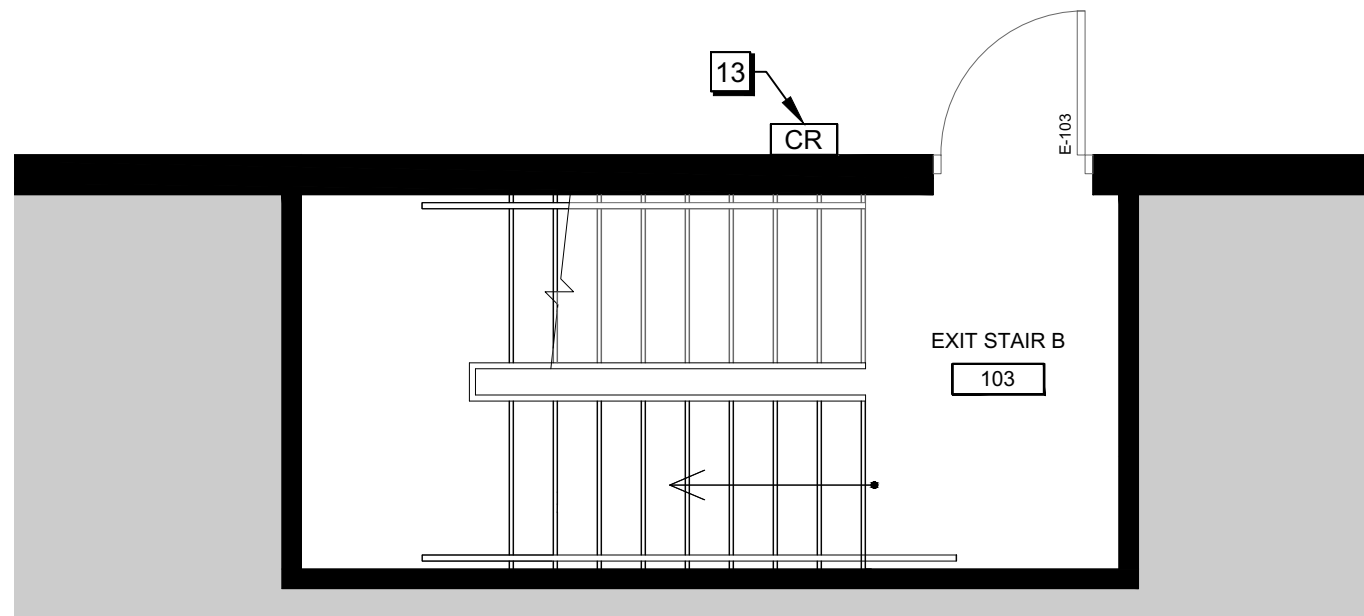
- XX
XX
ROOM NAME/ NUMBER FOR IDENTIFICATION PURPOSES ONLY
- EXISTING PARTITIONS TO REMAIN
- CARD READER AND RELATED SECURITY HARDWARE TO BE INSTALLED BY SECURITY CONTRACTOR (SEE ELECTRICAL). CARD ACCESS READERS TO BE INSTALLED AT 1000MM A.F.F. O.C.
- CR

CONSTRUCTION PLAN KEYNOTES

- 1 NEW AND EXISTING PARTITIONS/ COLUMNS TO ALIGN.
- 2 SUPPLY & INSTALL ONE LAYER OF 16MM G.W.B TO CLOSE IN EXISTING EXTERIOR PARTITIONS. TAPE, SAND AND PREPARE FOR FINAL FINISH AS PER FINISHES PLAN.
- 3 SUPPLY & INSTALL 6MM CLEAR TEMPERED GLASS, MOUNTED IN U-CHANNEL. GLAZING PANES TO BE ADHERED TOGETHER USING CLEAR SILICONE ADHESIVE FOR ADDED STABILITY. SEE PAGE A-303 FOR DETAILS.
- 4 3/4" PLYWOOD WRAPPED AROUND EXISTING COLUMN. SANDED TO MAKE GOOD TO RECEIVE NEW FINISH. PLAM-2 FINISH IS TO BE APPLIED TO ALL EXPOSED FACES OF NEW PLYWOOD. REFER TO PAGE A-303 FOR FURTHER DETAILS.
- 5 FAUX COLUMNS FROM SLAB TO U/S OF BULKHEAD MADE OF 3/4" PLYWOOD, SANDED TO MAKE GOOD TO RECEIVE NEW FINISH. PLAM-2 FINISH IS TO BE APPLIED TO ALL EXPOSED PLYWOOD FACES. REFER TO PAGE A-303 FOR FURTHER DETAILS.
- 6 SUPPLY & INSTALL NEW CUSTOM RECEPTION DESK. REFER TO FINISHES SCHEDULE AND PAGE A-303 FOR FURTHER DETAILS.
- 7 FRAME OUT THE EXISTING STEEL COLUMN AND APPLY 1 LAYER OF 3/2" GWB ON ALL SIDES. REFER TO DETAIL 8/A-104 FOR FURTHER DETAILS.
- 8 SUPPLY & INSTALL BLOCKING AS REQUIRED TO SUPPORT A THREE-DIMENSIONAL LOGO. O.C OF PARTITION. LOGO TO BE SUPPLIED BY THE CLIENT AND INSTALLED BY THE CONTRACTOR. COORDINATE SIZE OF LOGO AND MOUNTING HEIGHT WITH THE CLIENT.
- 9 SUPPLY & INSTALL NEW CUSTOM COUNCIL TABLE. PROVIDE SHOP DRAWINGS FOR A 6-PERSON TABLE AND AN 8-PERSON TABLE FOR THE CLIENTS REVIEW AND SELECTION. COORDINATE LOCATION OF TABLE WITH LOCATION OF NEW FLOOR MONUMENTS. REFER TO PAGE A-304 FOR FURTHER DETAILS.
- 10 SUPPLY & INSTALL NEW CUSTOM MILLWORK DOORS TO ENCLOSE ROOF ACCESS STAIRS. REFER TO 5/A-304 & 6/A-304 FOR FURTHER DETAILS.
- 11 SUPPLY & INSTALL NEW WALL HOOK, MOUNTED AT 3'-0" A.F.F. COORDINATE LOCATION WITH FURNITURE PLAN.
- 12 EXISTING STEEL COLUMN TO BE ENCLOSED WITHIN NEW PARTITION.
- 13 SUPPLY & INSTALL NEW CARD READER. REFER TO HARDWARE PACKAGE FOR DETAILS & SEE ELECTRICAL.
- 14 SUPPLY & INSTALL NEW DOOR CONTACT. REFER TO HARDWARE PACKAGE FOR DETAILS & SEE ELECTRICAL.



2
LEVEL 1
CONSTRUCTION PLAN A
SCALE = 1/4" = 1'-0"



3
LEVEL 1
CONSTRUCTION PLAN B
SCALE = 1/4" = 1'-0"



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023

REV.	DESCRIPTION	DATE
------	-------------	------

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/ OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

LEVEL 1
CONSTRUCTION PLAN

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-102
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	
		PLOTTED BY:



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/ OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

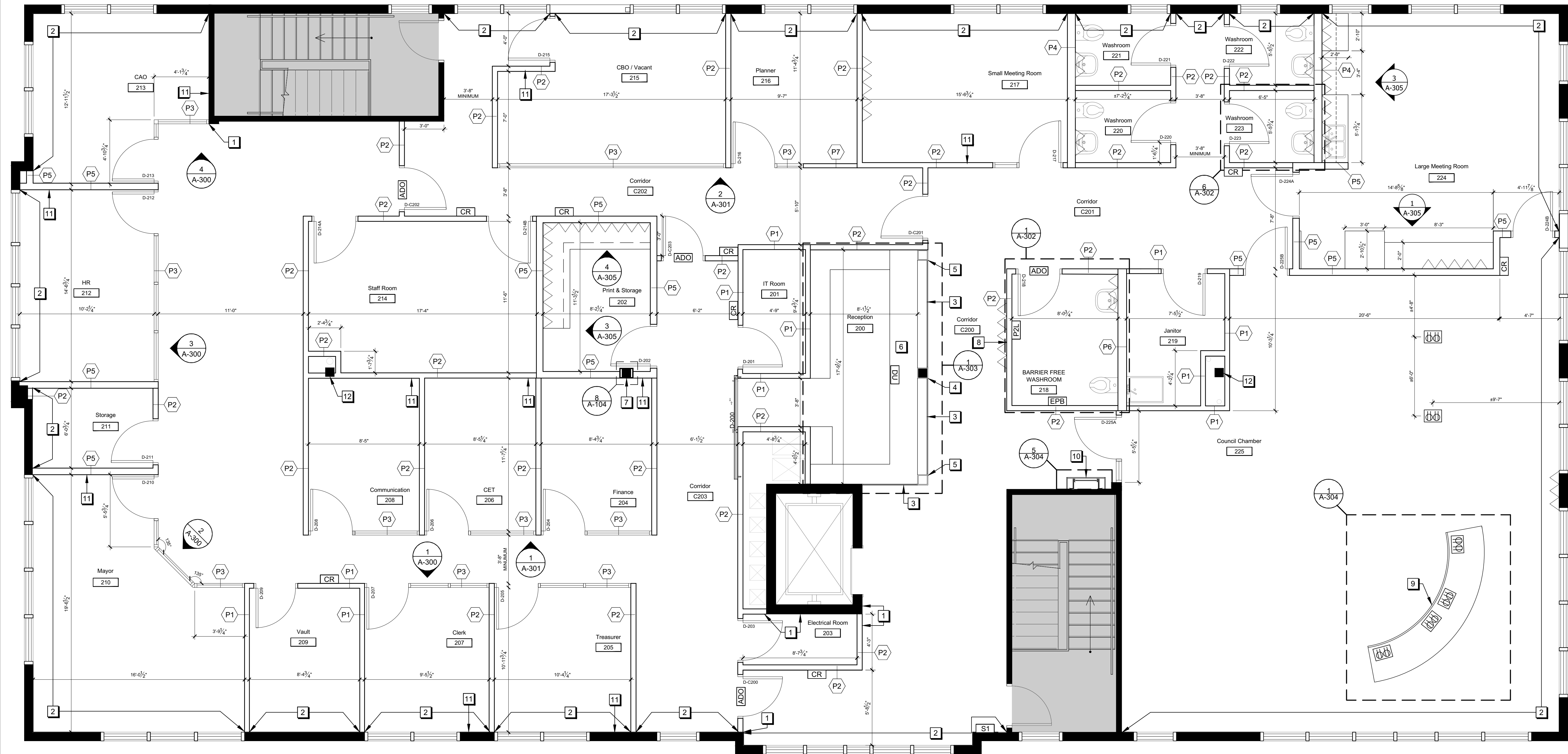
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

LEVEL 2
CONSTRUCTION PLAN

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-103
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	PLOTTED BY:



LEVEL 2 CONSTRUCTION PLAN

A-103 SCALE = 1/4" = 1'-0"

CONSTRUCTION PLAN LEGEND

XX XX	ROOM NAME/ NUMBER FOR IDENTIFICATION PURPOSES ONLY
EXISTING PARTITIONS TO REMAIN	
EXISTING EXTERIOR GLAZING TO REMAIN	
NEW PARTITIONS CONSTRUCTION. REFER TO PAGE A-104 FOR PARTITION ASSEMBLES.	
EXISTING SINGLE WIDTH DOOR, FRAME, HARDWARE C/W ALL RELATED COMPONENTS TO REMAIN	
NEW SINGLE WIDTH DOOR, FRAME, HARDWARE C/W ALL RELATED COMPONENTS. REFER TO DOOR & HARDWARE SCHEDULE FOR DETAILS.	
NEW SINGLE WIDTH DOOR, FRAME, HARDWARE, SIDELITE C/W ALL RELATED COMPONENTS. REFER TO DOOR & HARDWARE SCHEDULE FOR DETAILS.	
NEW WALL MOUNTED BARN DOOR, FRAME, HARDWARE C/W ALL RELATED COMPONENTS. REFER TO DOOR & HARDWARE SCHEDULE FOR DETAILS.	

CONSTRUCTION PLAN LEGEND CONT'

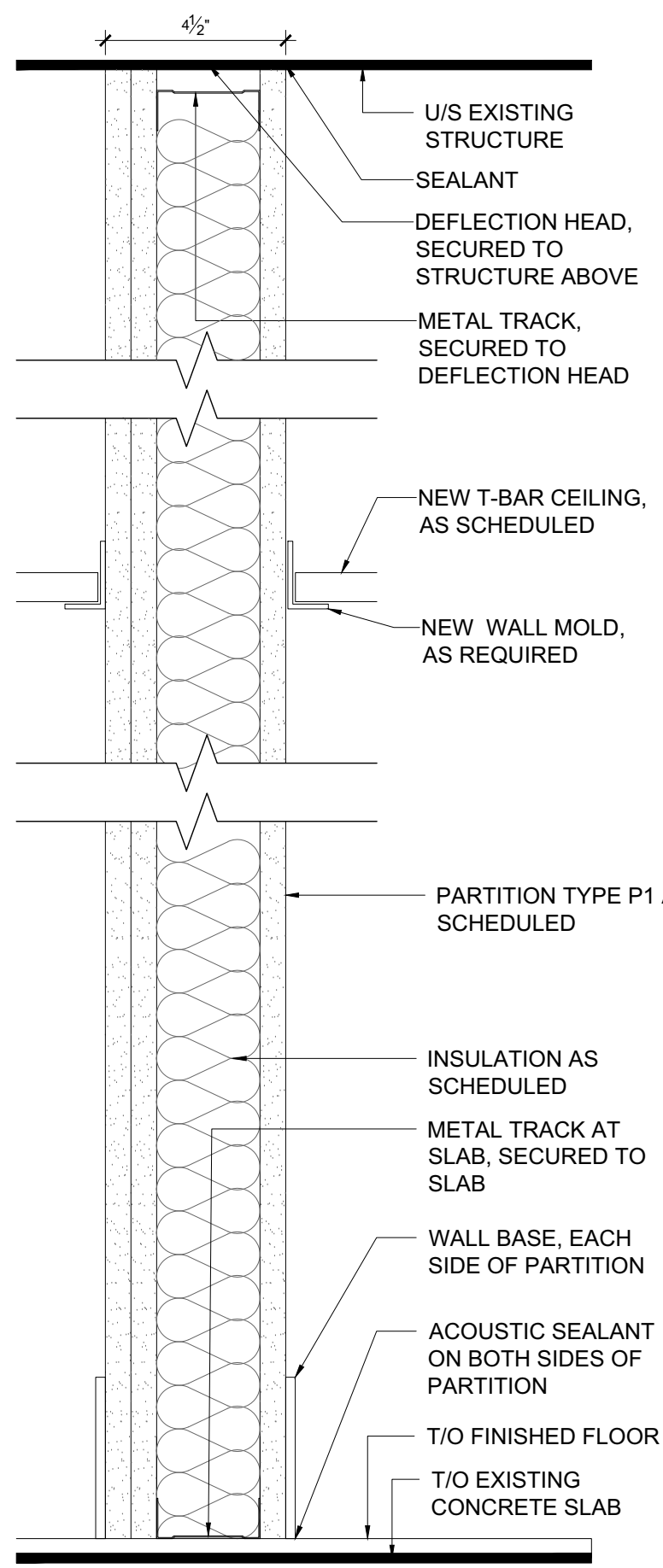
NEW BLOCKING: FIRE TREATED NON-COMBUSTIBLE PLYWOOD INSTALLED WITHIN WALL CAVITY. CUT AS REQUIRED TO SUIT LENGTH OF COMPONENTS TO BE MOUNTED. REFER TO FURNITURE PLAN AND INTERIOR ELEVATIONS FOR.	
CARD READER AND RELATED SECURITY HARDWARE. TO BE INSTALLED BY SECURITY CONTRACTOR (SEE ELECTRICAL). CARD ACCESS READERS TO BE INSTALLED AT 1000MM A.F.F O.C.	CR
NEW AUTOMATIC DOOR OPERATOR C/W PADDLE (SEE ELECTRICAL). AUTOMATIC DOOR OPERATOR TO BE INSTALLED AT 1000MM A.F.F O.C.	ADO
NEW EMERGENCY PUSH BUTTON (SEE ELECTRICAL). EMERGENCY PUSH BUTTON TO BE INSTALLED AT 700MM A.F.F O.C.	EPB
NEW PUSH TO LOCK BUTTON (SEE ELECTRICAL). PUSH TO LOCK BUTTON TO BE INSTALLED AT 1100MM A.F.F O.C.	P2L
DURESS STATIONS (SEE ELECTRICAL). REFER TO ELEVATION 6/A-303 FOR INSTALLATION LOCATION.	DU
NEW FLOOR MONUMENT (SEE ELECTRICAL)	DB
SUPPLY & INSTALL NEW OCCUPANCY SIGNAGE	S1
CONTRACTOR TO PROVIDE SHOP DRAWING OF SIGNAGE FOR REVIEW AND APPROVAL	

CONSTRUCTION PLAN KEYNOTES

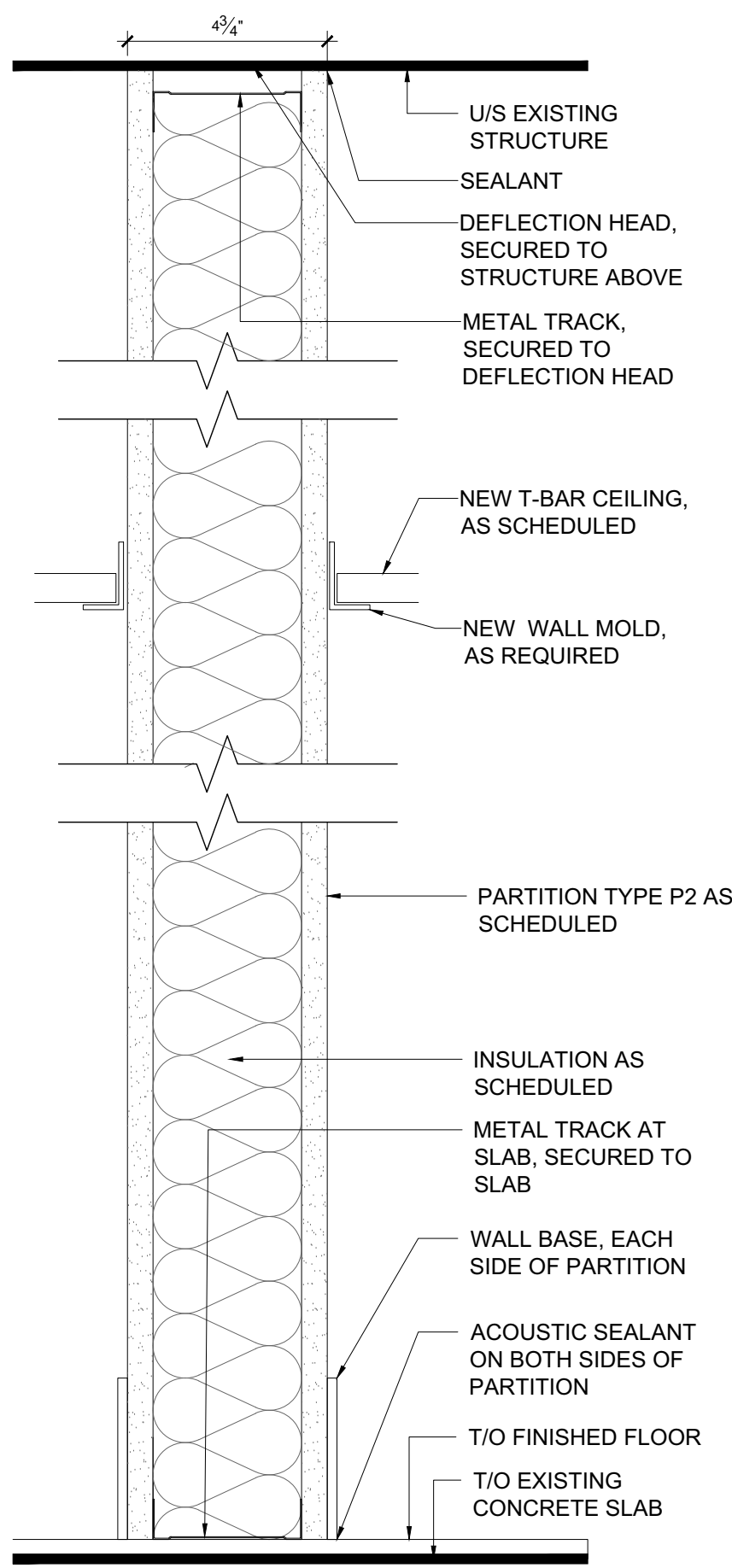
- NEW AND EXISTING PARTITIONS/ COLUMNS TO ALIGN.
- SUPPLY & INSTALL ONE LAYER OF 16MM G.W.B TO CLOSE IN EXISTING EXTERIOR PARTITIONS. TAPE, SAND AND PREPARE FOR FINAL FINISH AS PER FINISHES PLAN.
- SUPPLY & INSTALL 6MM CLEAR TEMPERED GLASS, MOUNTED IN U-CHANNEL. GLAZING PANES TO BE ADHERED TOGETHER USING CLEAR SILICONE ADHESIVE FOR ADDED STABILITY. SEE PAGE A-303 FOR DETAILS.
- 3/4" PLYWOOD WRAPPED AROUND EXISTING COLUMN, SANDED TO MAKE GOOD TO RECEIVE NEW FINISH. PLAM-2 FINISH IS TO BE APPLIED TO ALL EXPOSED FACES OF NEW PLYWOOD. REFER TO PAGE A-303 FOR FURTHER DETAILS.
- FAUX COLUMNS FROM SLAB TO U/S OF BULKHEAD MADE OF 3/4" PLYWOOD, SANDED TO MAKE GOOD TO RECEIVE NEW FINISH. PLAM-2 FINISH IS TO BE APPLIED TO ALL EXPOSED PLYWOOD FACES. REFER TO PAGE A-303 FOR FURTHER DETAILS.
- SUPPLY & INSTALL NEW CUSTOM RECEPTION DESK. REFER TO FINISHES SCHEDULE AND PAGE A-303 FOR FURTHER DETAILS.
- FRAME OUT THE EXISTING STEEL COLUMN AND APPLY 1 LAYER OF 1/2" GWB ON ALL SIDES. REFER TO DETAIL 8/A-104 FOR FURTHER DETAILS.
- SUPPLY & INSTALL BLOCKING AS REQUIRED TO SUPPORT A THREE-DIMENSIONAL LOGO, O.C OF PARTITION. LOGO TO BE SUPPLIED BY THE CLIENT AND INSTALLED BY THE CONTRACTOR. COORDINATE SIZE OF LOGO AND MOUNTING HEIGHT WITH THE CLIENT.
- SUPPLY & INSTALL NEW CUSTOM COUNCIL TABLE. PROVIDE SHOP DRAWINGS FOR A 6-PERSON TABLE AND AN 8-PERSON TABLE FOR THE CLIENTS REVIEW AND SELECTION. COORDINATE LOCATION OF TABLE WITH LOCATION OF NEW FLOOR MONUMENTS. REFER TO PAGE A-304 FOR FURTHER DETAILS.
- SUPPLY & INSTALL NEW CUSTOM MILLWORK DOORS TO ENCLOSE ROOF ACCESS STAIRS. REFER TO 5/A-304 & 6/A-304 FOR FURTHER DETAILS.
- SUPPLY & INSTALL NEW WALL HOOK, MOUNTED AT 3'-0" A.F.F. COORDINATE LOCATION WITH FURNITURE PLAN.
- EXISTING STEEL COLUMN TO BE ENCLOSED WITHIN NEW PARTITION.

CONSTRUCTION NOTES

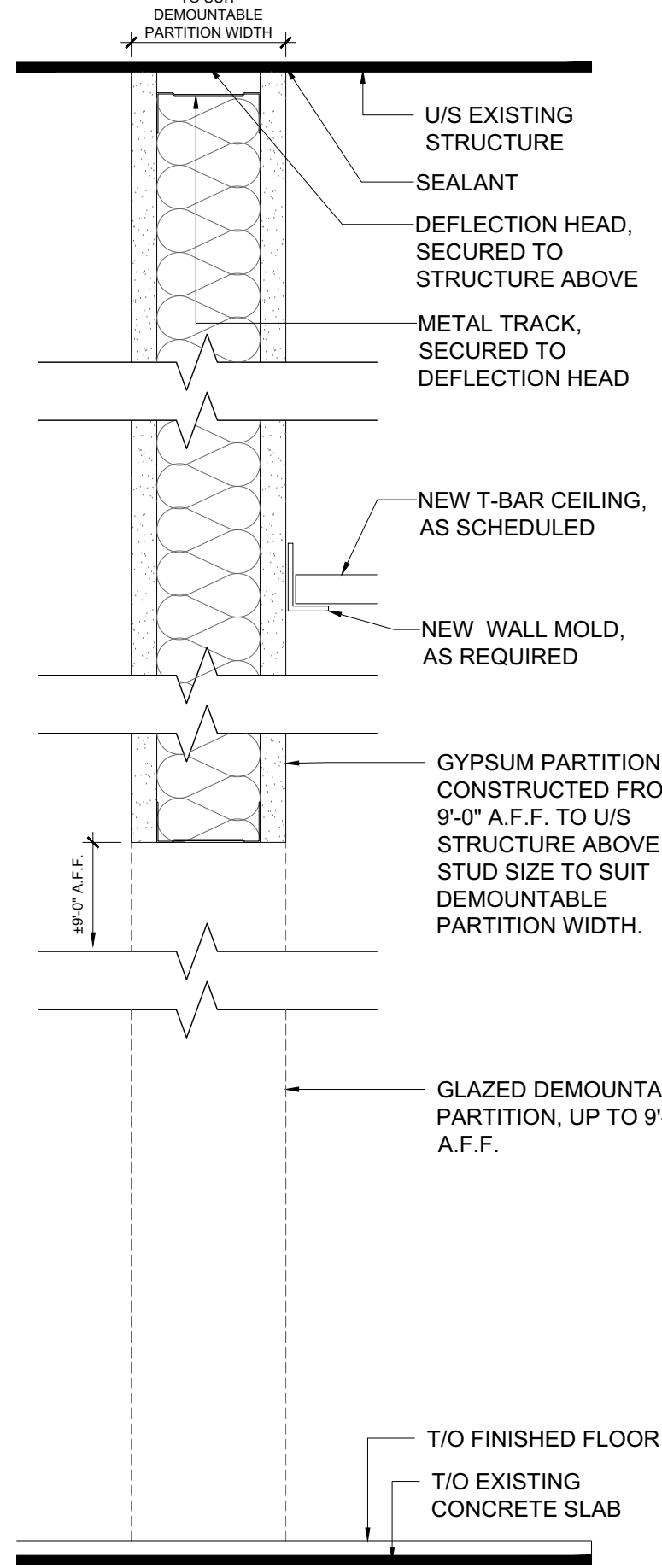
- CHALK ALL NEW PARTITION LOCATIONS AND OBTAIN APPROVAL OF PARTITION LAYOUT BY DESIGNER PRIOR TO INSTALLING METAL TRACKS AND STUDS.
- ALL HARDWARE AND SUPPORT ELEMENTS LOCATED WITHIN THE WALL CAVITY ARE TO BE SUPPLIED AND INSTALLED BY CONTRACTOR.
- WHERE FLOOR SLAB IS UNEVEN, SHIM DOOR FRAMES TO SUIT AND PAINT SHIM TO MATCH THE FRAME FINISH.
- CONTRACTOR TO CUT OPENING IN EXISTING WALL FOR A/M&E AS REQUIRED. NOTE: CONTRACTOR TO VERIFY WALL CONSTRUCTION AND PATCH & REPAIR WALL UPON COMPLETION OF WORK. FINISH TO MATCH EXISTING WALL CONSTRUCTION.
- CONTRACTOR IS TO COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS AND REVIEW SITE CONDITIONS TO IDENTIFY JUNCTION BOXES, DUCTWORK, ETC., THAT RUN IN LINE WITH NEW PARTITIONS THAT EXTEND TO CEILING SLAB. CONTRACTOR TO OFFSET PARTITIONS WITHIN THE CEILING PLENUM AS REQUIRED TO SUIT THESE INTERFERENCES.
- CONTRACTOR TO SUPPLY AND INSTALL AN ACCESS HATCH IN PARTITIONS WHERE APPLICABLE FOR ACCESS TO PLUMBING OR OTHER ELEMENTS WITHIN THE WALL.



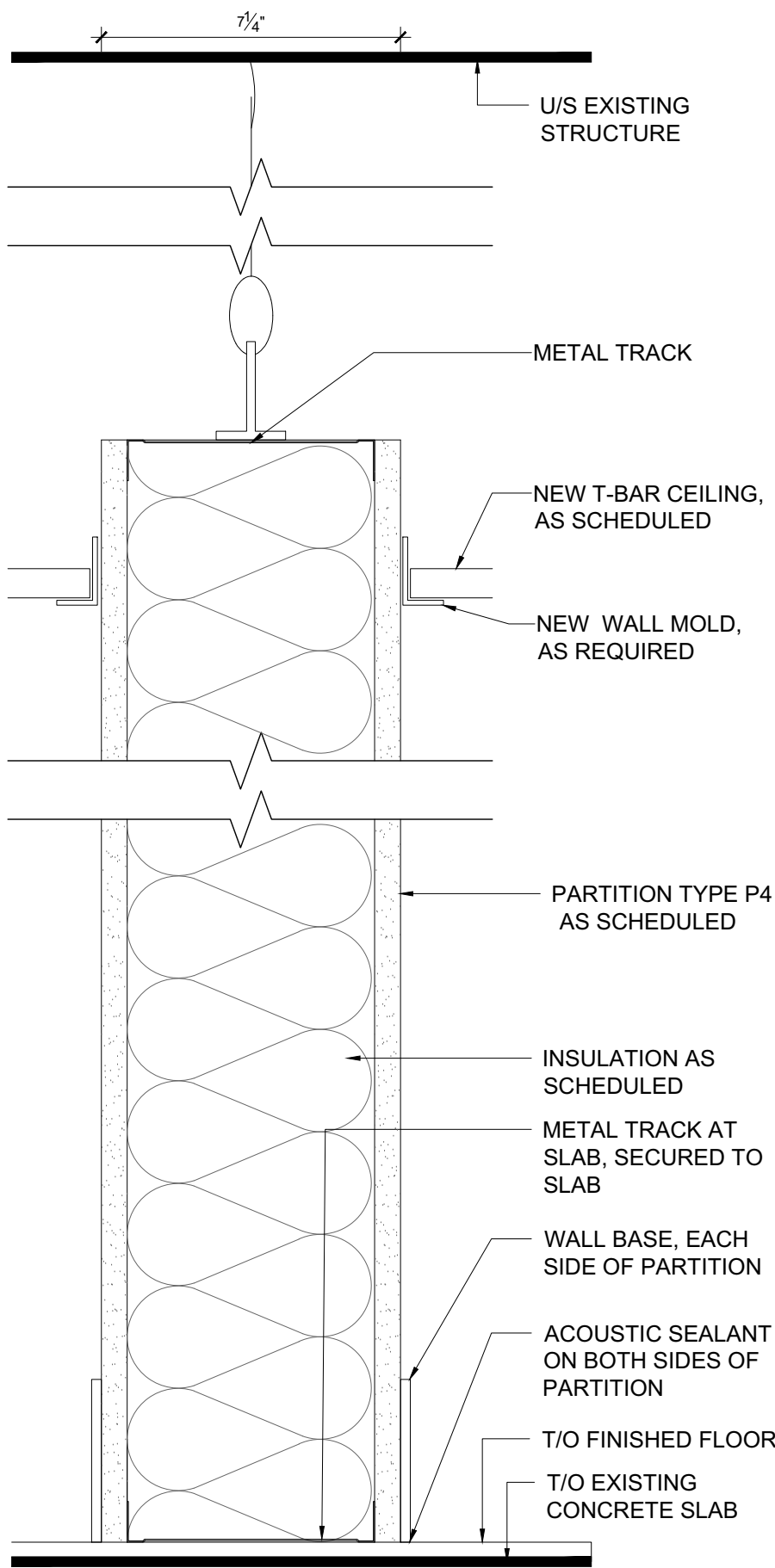
1 P1 ASSEMBLY
A-104 SCALE = 3"=1'-0"



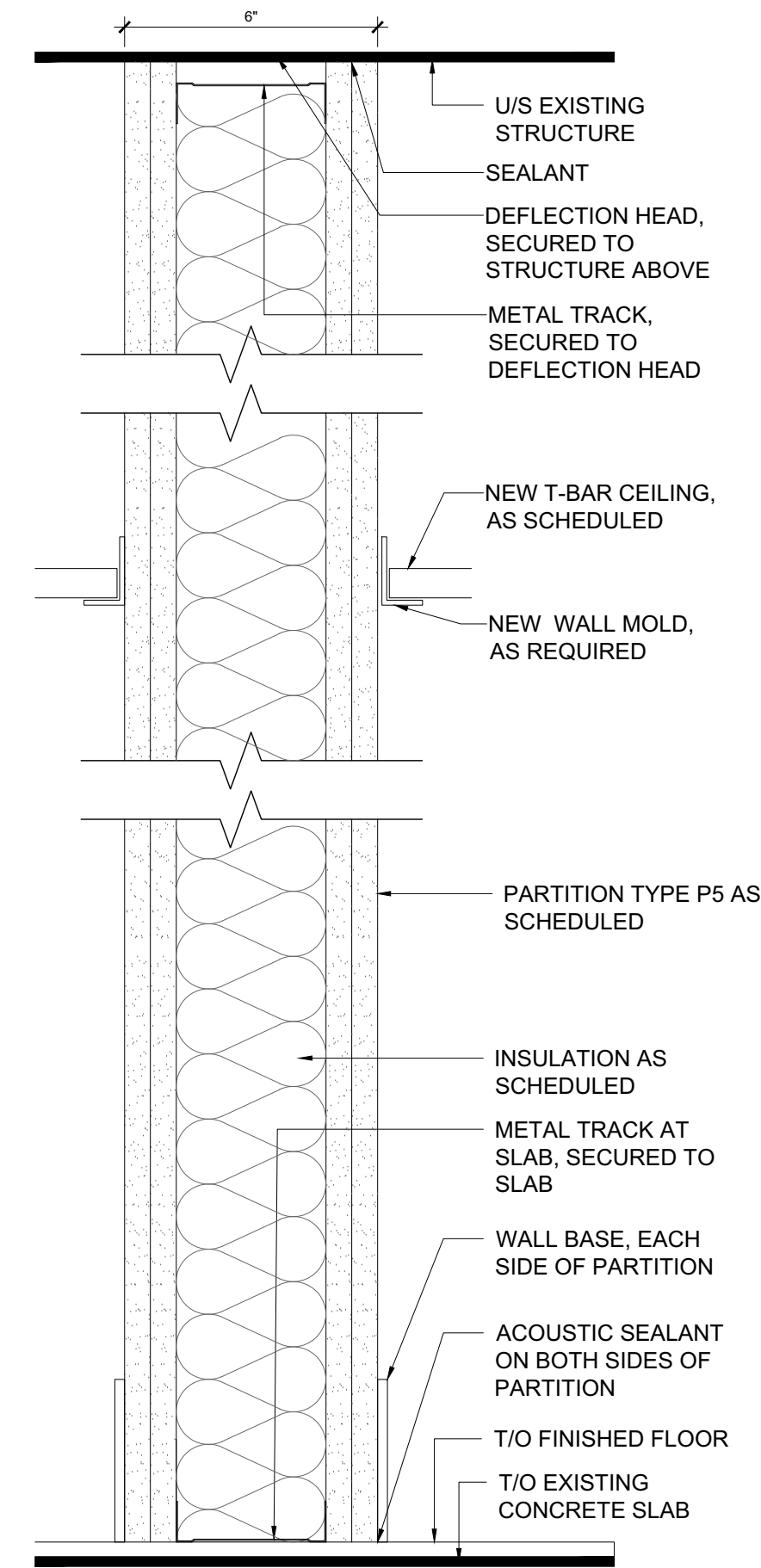
2 P2 ASSEMBLY
A-104 SCALE = 3"=1'-0"



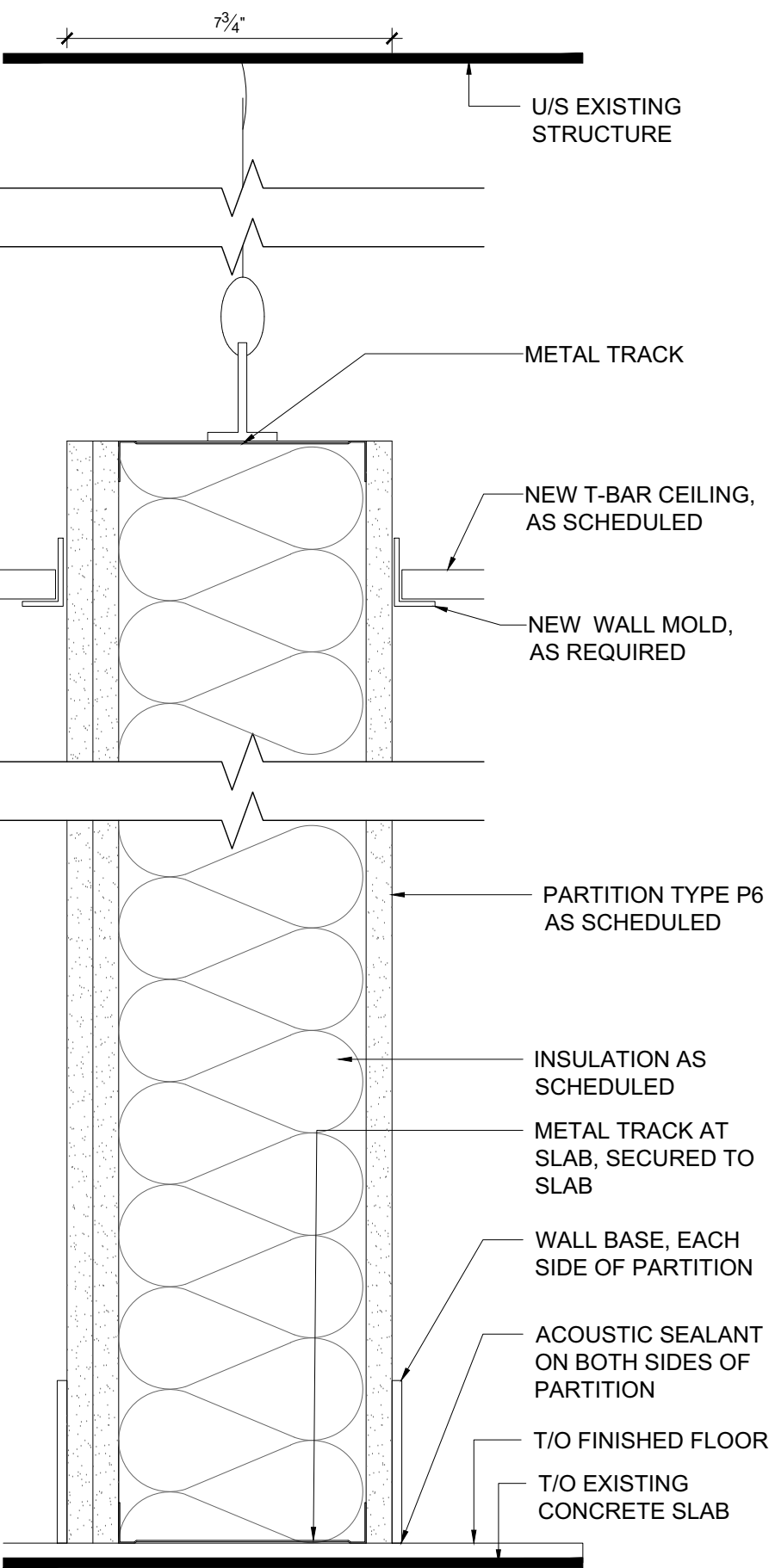
3 P3 ASSEMBLY
A-104 SCALE = 3"=1'-0"



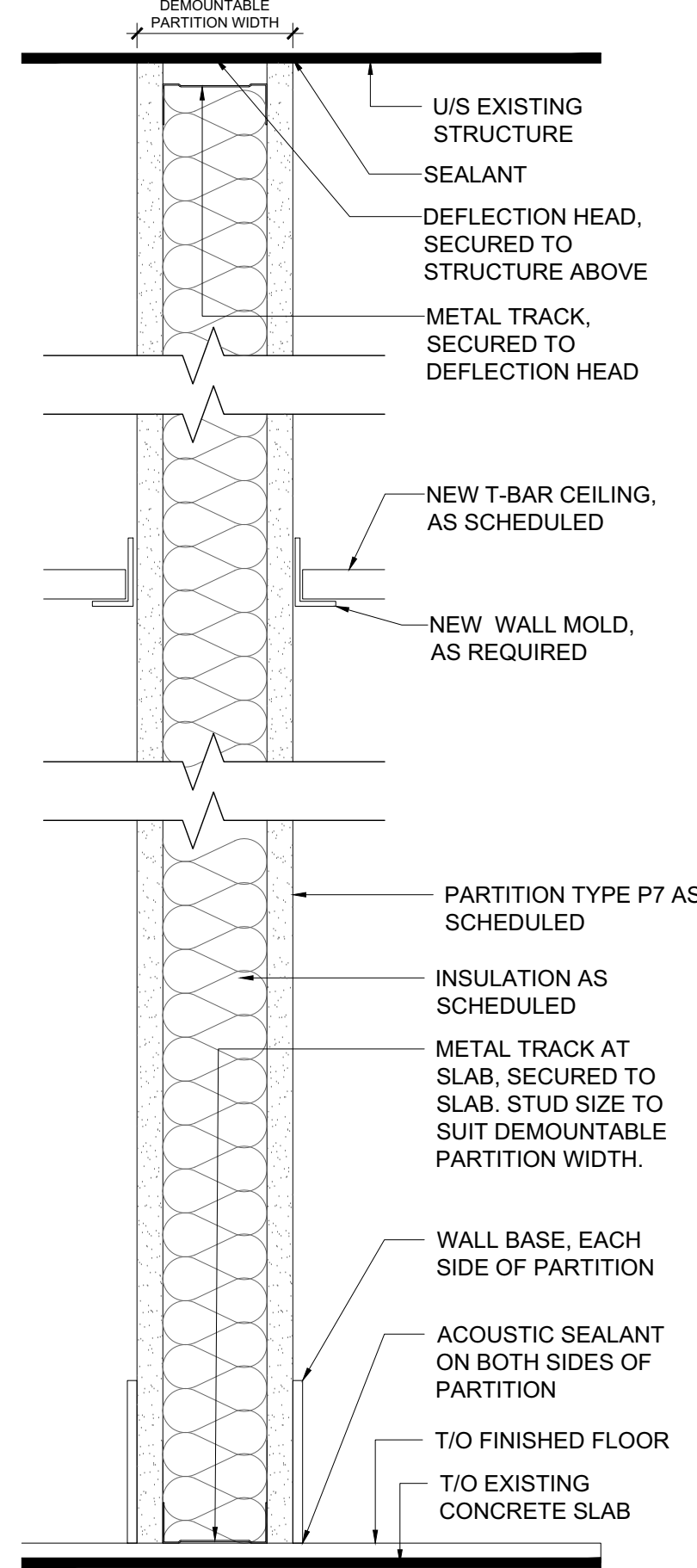
4 P4 ASSEMBLY
A-104 SCALE = 3"=1'-0"



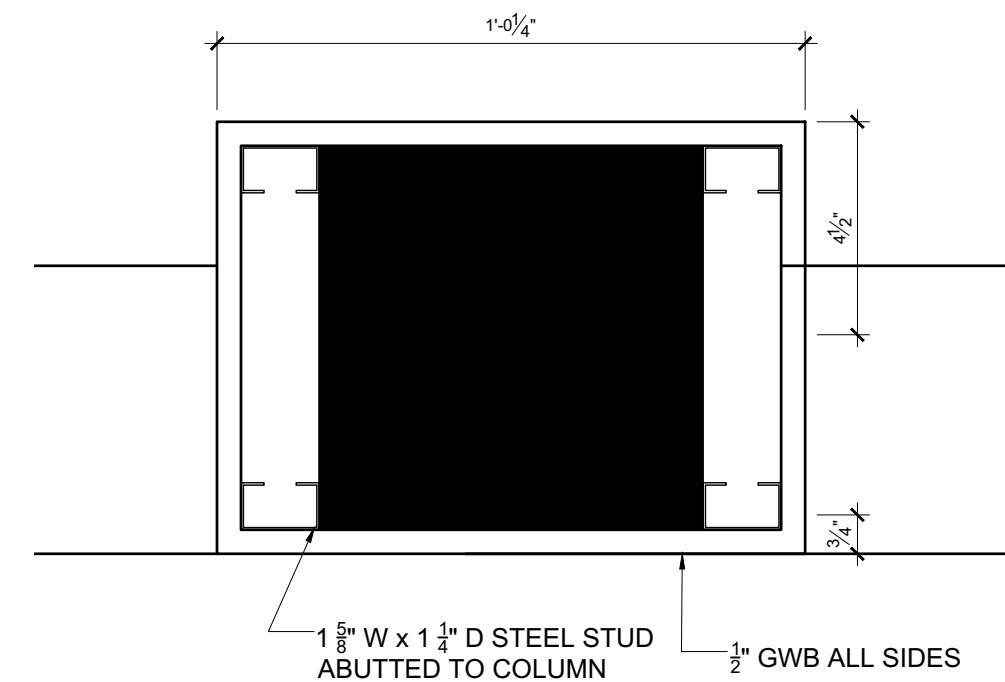
5 P5 ASSEMBLY
A-104 SCALE = 3"=1'-0"



6 P6 ASSEMBLY
A-104 SCALE = 3"=1'-0"



7 P7 ASSEMBLY
A-104 SCALE = 3"=1'-0"



8 NEW PARTITION @ EXISTING COLUMN
A-104 SCALE = 3"=1'-0"

TYPE	CONSTRUCTION	RATING FRR & STC	NOTES
P1	SUB FLOOR TO U/S OF STRUCTURE, AS PER OBC SB-3, S2B: -2 LAYERS OF 5/8" TYPE "X" GWB -2 1/2" HEAVY DUTY STEEL STUDS @ 24" O.C. C/W INTERNAL BRACING AS REQUIRED -FILL CAVITY WITH SOUND AND FIRE INSULATION -1 LAYER OF 5/8" TYPE "X" GYPSUM BOARD	1HR FRR STC 50	REFER TO 1/A-104 FOR MORE DETAILS
P2	SUB FLOOR TO U/S OF STRUCTURE, AS PER OBC SB-3, S4B: - 5/8" GWB - 3 5/8" STUDS AT 16" O.C. - 3 5/8" SOUND ATTENUATION BLANKETS BETWEEN STUDS - 5/8" GWB (USE CEMENT BOARD ON WASHROOM/KITCHENETTE SIDE OF PARTITIONS)	STC 47	REFER TO 2/A-104 FOR MORE DETAILS
P3	SUB FLOOR TO 9'-0" A.F.F.: GLAZED DEMOUNTABLE PARTITION SYSTEM TO BE PROCURED BY CONTRACTOR AND SUPPLIED & INSTALLED BY MANUFACTURER. DEMOUNTABLE PARTITION SUPPLIER MUST MAXIMIZE THE USE OF EQUAL-SIZED PANELS THROUGHOUT PROJECT.		REFER TO 3/A-104 FOR MORE DETAILS
P4	SUB FLOOR TO 100MM ABOVE FINISHED CEILING (PLUMBING PARTITION) - 5/8" CEMENT BOARD - 6" STUDS AT 400MM O.C. - 6" SOUND ATTENUATION BLANKETS BETWEEN STUDS - 5/8" CEMENT BOARD		REFER TO 4/A-104 FOR MORE DETAILS
P5	SUB FLOOR TO U/S STRUCTURE, AS PER OBC SB-3, S6B -2 LAYERS OF 5/8" GWB -3 5/8" HEAVY DUTY STEEL STUDS @ 16" O.C. C/W INTERNAL BRACING AS REQUIRED -FILL CAVITY WITH SOUND INSULATION -2 LAYERS OF 5/8" GWB	STC 55	REFER TO 5/A-104 FOR MORE DETAILS
P6	SUB FLOOR TO 100MM ABOVE FINISHED CEILING (PLUMBING PARTITION), AS PER OBC-SB-3, S8A - 2 LAYERS OF 5/8" CEMENT BOARD TYPE X - 6" STUDS AT 16" O.C. -FILL CAVITY WITH SOUND AND FIRE INSULATION - 1 LAYER OF 5/8" CEMENT BOARD TYPE X	STC 55 1HR FRR	REFER TO 6/A-104 FOR MORE DETAILS
P7	SUB FLOOR TO U/S OF STRUCTURE - STUDS AT 16" O.C., SIZE TO SUIT WIDTH OF DEMOUNTABLE PARTITION - SOUND ATTENUATION BLANKETS BETWEEN STUDS, SIZE TO SUIT STUD - ±5/8" GWB		REFER TO 7/A-104 FOR MORE DETAILS



REV.	DESCRIPTION	DATE
04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

PARTITION ASSEMBLIES

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-104
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	PLOTTED BY:



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

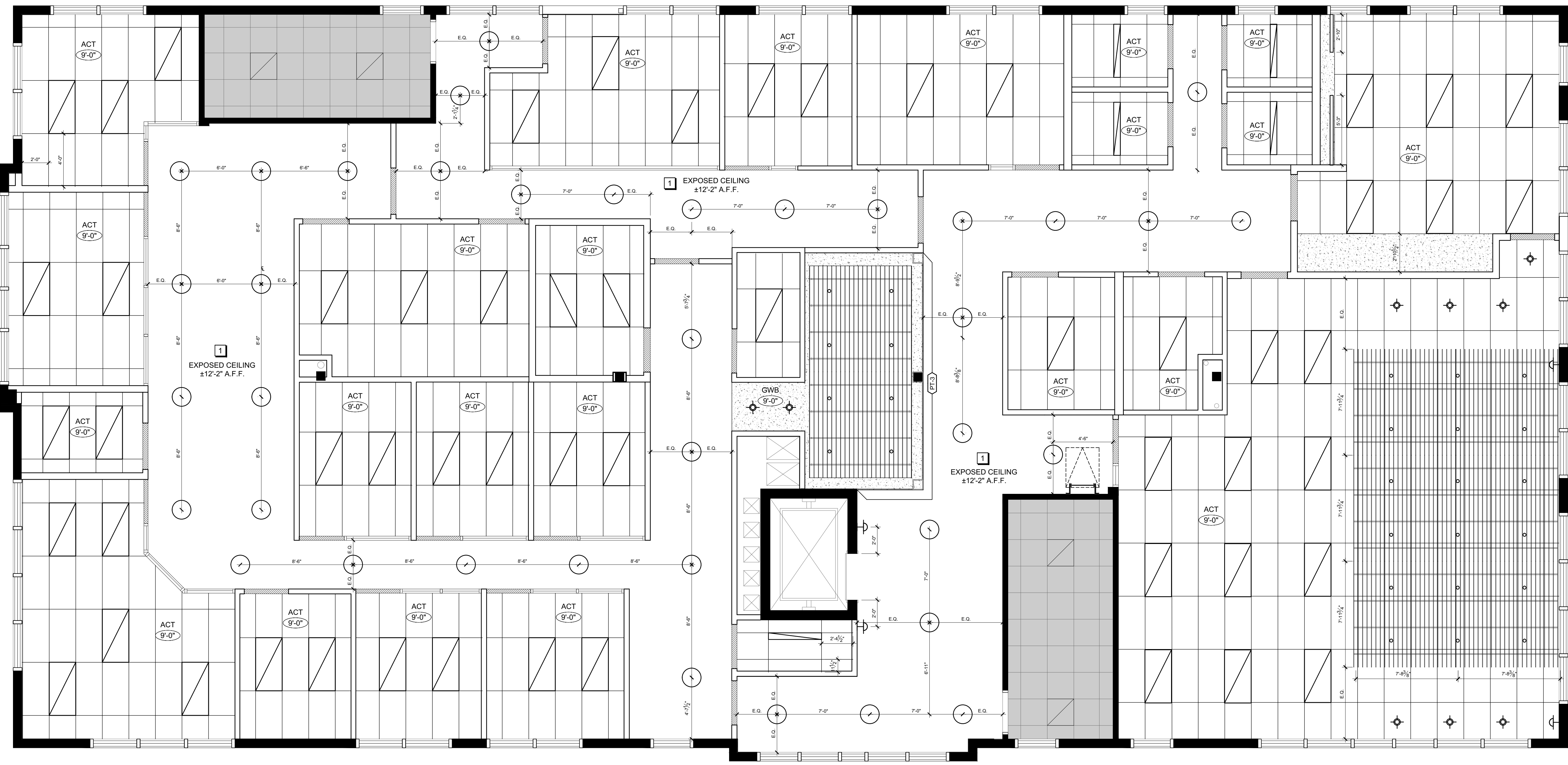
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

LEVEL 2
REFLECTED CEILING PLAN

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-105
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	
		PLOTTED BY:



1 LEVEL 2
REFLECTED CEILING PLAN
A-105 SCALE = 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND

	EXISTING PARTITIONS TO REMAIN
	EXISTING DOOR HEADER
	NEW DOOR HEADER
	EXISTING SUSPENDED CEILING SYSTEM TO REMAIN. CONTRACTOR TO PROTECT CEILING GRID AND TILES DURING DEMOLITION/ CONSTRUCTION.
	SUPPLY & INSTALL NEW 2' X 4' SUSPENDED CEILING GRID AND TILES. CEILING GRID AND TILES ARE TO BE INSTALLED WITHIN THE CENTER OF EACH ROOM, UNLESS OTHERWISE NOTED.
	SUPPLY AND INSTALL NEW GYPSUM BOARD CEILING SYSTEM. INSTALLED 9'-0" AFF. UNLESS NOTED OTHERWISE. CONTRACTOR TO USE SAG RESISTANT GYPSUM BOARD.
	SUPPLY AND INSTALL NEW 96" EBBS & FLOWS BLADES HANGING KIT FROM ARMSTRONG CEILING. REFER TO PAGE A-106 FOR INSTALLATION DETAILS.

REFLECTED CEILING PLAN LEGEND CON'T

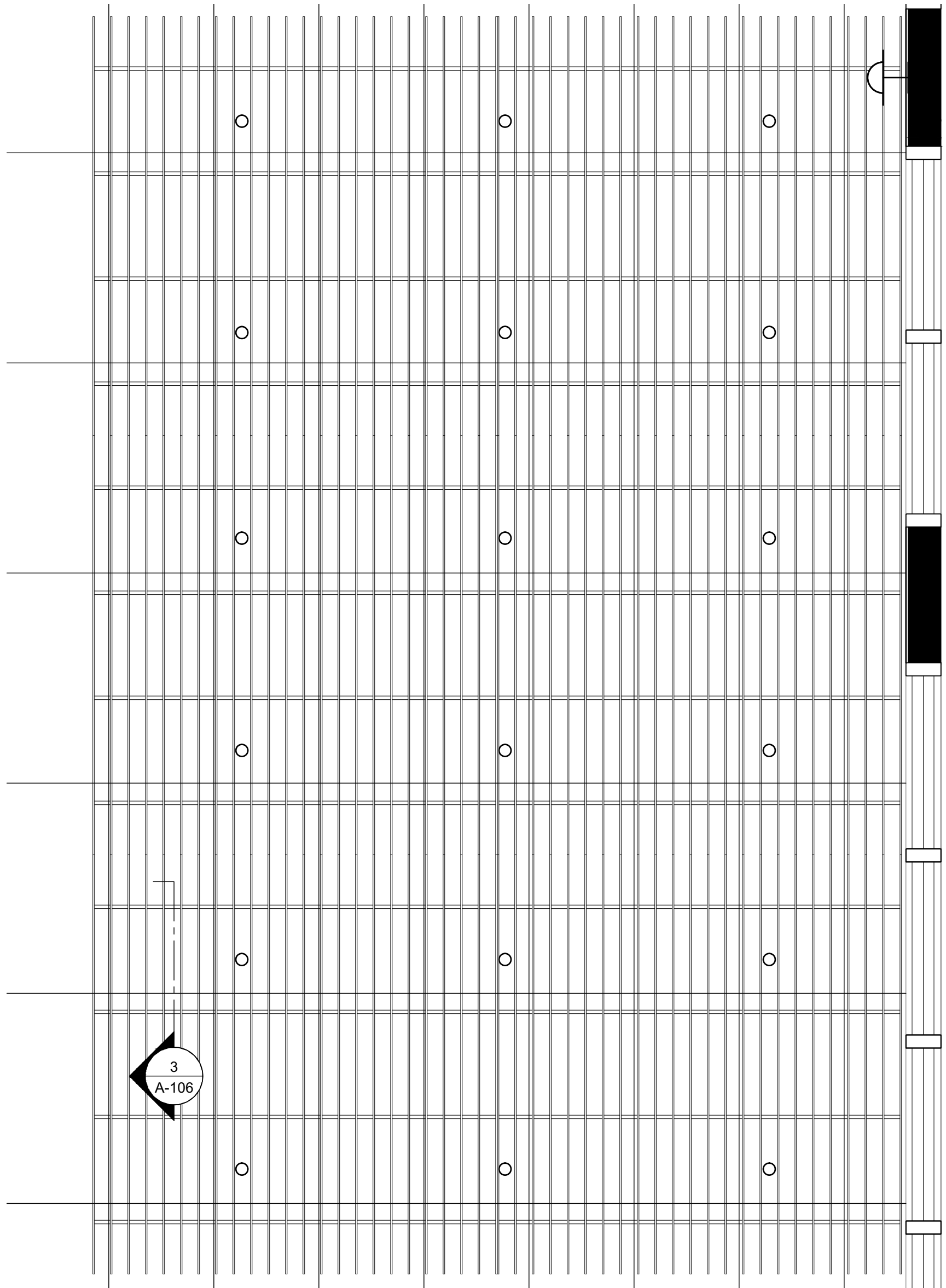
	EXISTING RECESSED FLUORESCENT TROFFER TO REMAIN. ALL BULBS AND DIFFUSERS ARE TO BE REPLACED WITH NEW (SEE ELECTRICAL).
	SUPPLY & INSTALL NEW 2' X 4' LED TROFFER (SEE ELECTRICAL).
	SUPPLY & INSTALL NEW 17" CEILING SUSPENDED LIGHT FIXTURE. FIXTURE TO BE SUSPENDED 9'-0" A.F.F (SEE ELECTRICAL).
	SUPPLY & INSTALL NEW 4" LED POT LIGHT (SEE ELECTRICAL).
	SUPPLY & INSTALL NEW 2.75" DIA. CEILING SUSPENDED LIGHT FIXTURE (SEE ELECTRICAL).
	SUPPLY & INSTALL NEW LED WALL MOUNTED LIGHT FIXTURE (SEE ELECTRICAL).
	SUPPLY & INSTALL NEW UNDER CABINET LIGHTS (SEE ELECTRICAL).
	SUPPLY & INSTALL NEW 4' X 4' LED TROFFER (SEE ELECTRICAL).
	CEILING HEIGHT

REFLECTED CEILING PLAN KEYNOTES

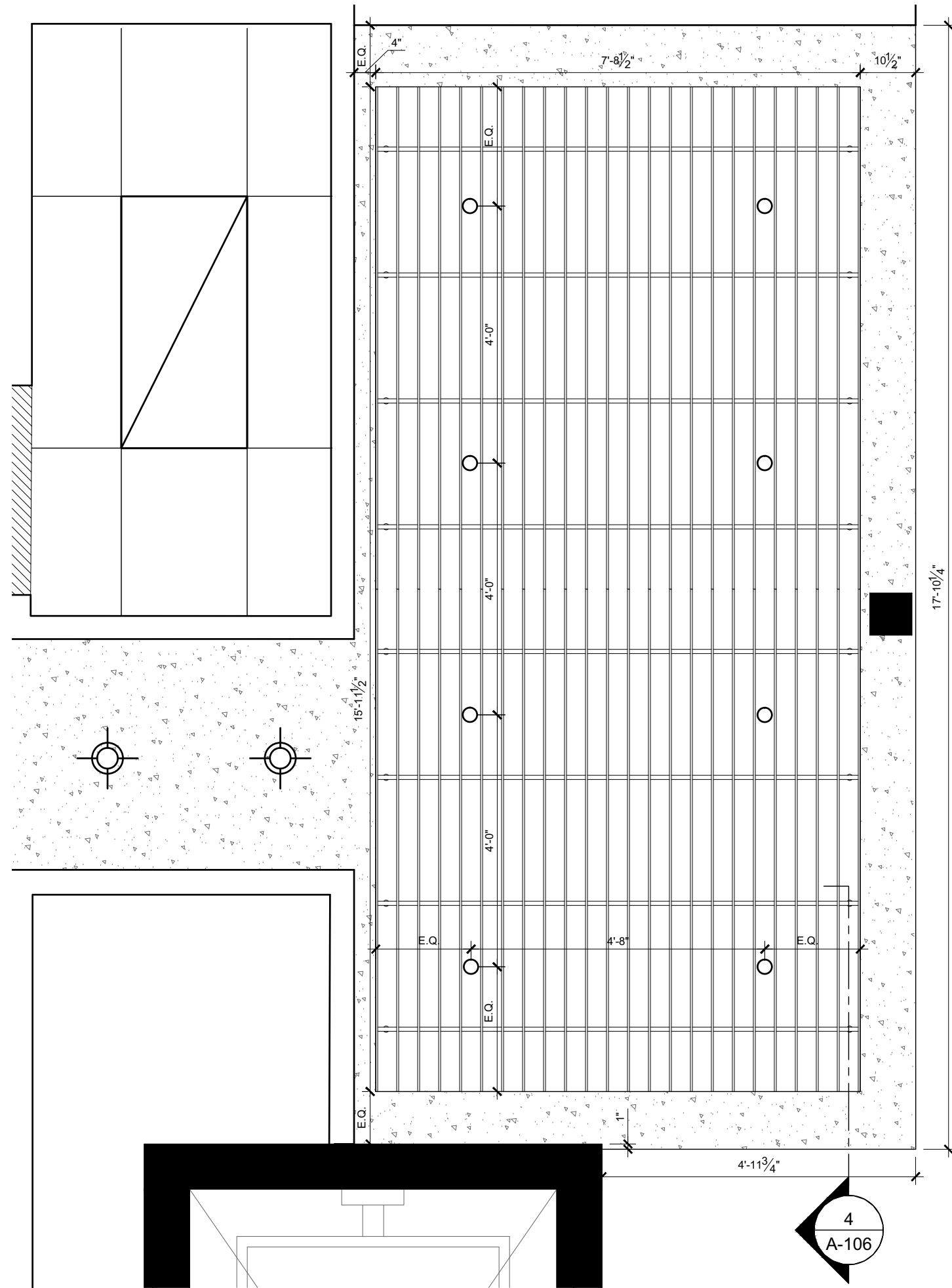
1 EXPOSED CEILING. ALL DUCTS, JOISTS, BEAMS, ETC TO BE PAINTED BLACK. PAINT MATERIAL TO BE SUITABLE FOR SUBSTRATES (DUCTS, JOISTS, BEAMS, ETC).

REFLECTED CEILING NOTES

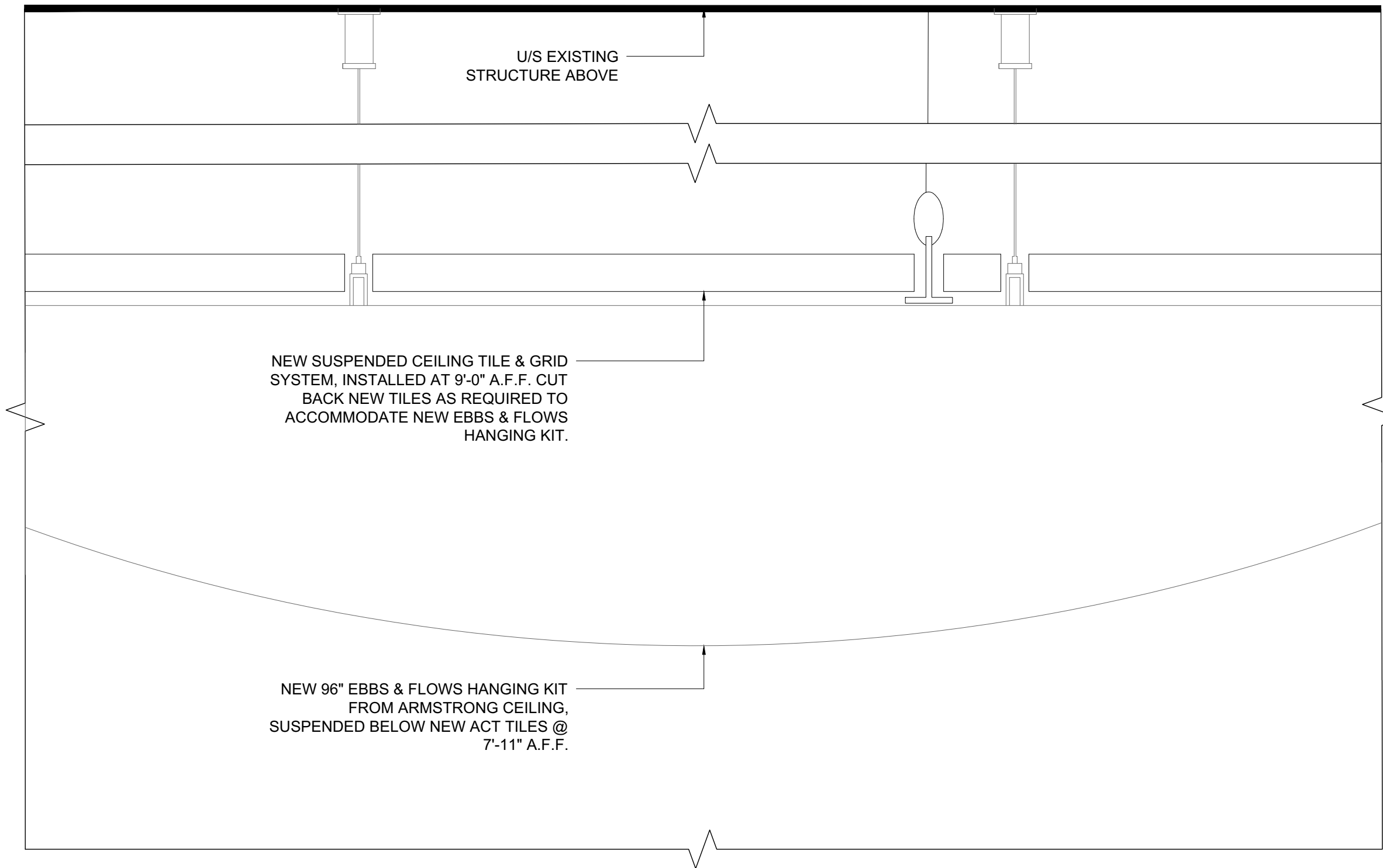
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS AND SPECIFICATIONS. REFLECTED CEILING PLAN SHOWS FIXTURE LOCATIONS ONLY. REFER TO ELECTRICAL AND MECHANICAL ENGINEER'S DRAWINGS FOR SPECIFICATIONS, CIRCUITING, SWITCHING, SPRINKLER HEAD, EXIT SIGN, FIRE ALARM, SUPPLY AND RETURN AIR SOURCE LOCATIONS, QUANTITY OF FIXTURES, ETC.
- ALL NEW FIXTURES AND CONTROLS TO MATCH EXISTING ON SITE UNLESS SPECIFIED OTHERWISE. SEE ELECTRICAL.
- ALL EXISTING FIXTURES REMAIN UNLESS OTHERWISE NOTED. SEE ELECTRICAL.
- CEILING TILES ARE TO BE MODIFIED TO ALLOW FOR THE INSTALLATION OF ALL DEVICES SPECIFIED. SEE MECHANICAL/ELECTRICAL. ENSURE ANY CUT SECTIONS OF CEILING TILES ARE STRAIGHT AND CLEAN.
- CONTRACTOR TO SUPPLY A NEW ACCESS HATCH IN ALL ROOMS WITH GYPSUM BOARD CEILINGS FOR ACCESS TO THE PLENUM SPACE ABOVE.
- ADEQUATELY PROTECT THE T-BAR AND CEILING TILES DURING CONSTRUCTION ACTIVITIES. PATCH, REPAIR OR REPLACE ANY MISSING, STAINED OR DAMAGED CEILING T-BAR AND OR CEILING TILES AS REQUIRED AND LEAVE THE CEILING IN A "LIKE NEW" CONDITION. CLEAN THE CEILING GRID OF ALL DIRT, STAINS, ADHESIVES, ETC.
- COORDINATE NEW CEILING TILES FOR ACCESS BY OTHER TRADES, REMOVE AND REPLACE CEILING TILES AS NEEDED.



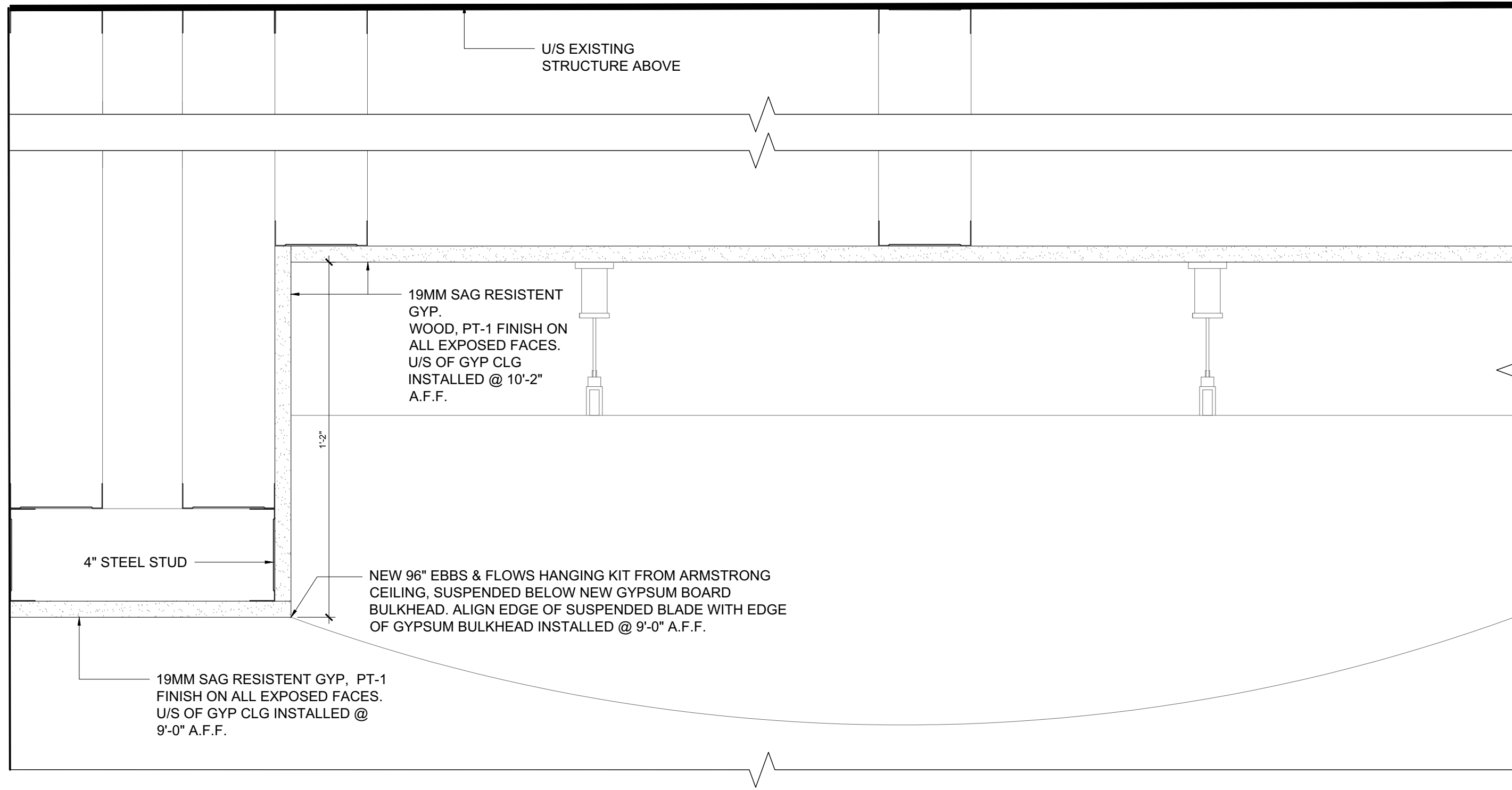
1
COUNCIL CHAMBER 225
ENLARGED CEILING PLAN
SCALE = 1/2" = 1'-0"



2
RECEPTION 200
ENLARGED CEILING PLAN
SCALE = 1/2" = 1'-0"



3
COUNCIL CHAMBER 225
CEILING SECTION
SCALE = 3" = 1'-0"



4
RECEPTION 200
CEILING SECTION
SCALE = 3" = 1'-0"



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/ OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

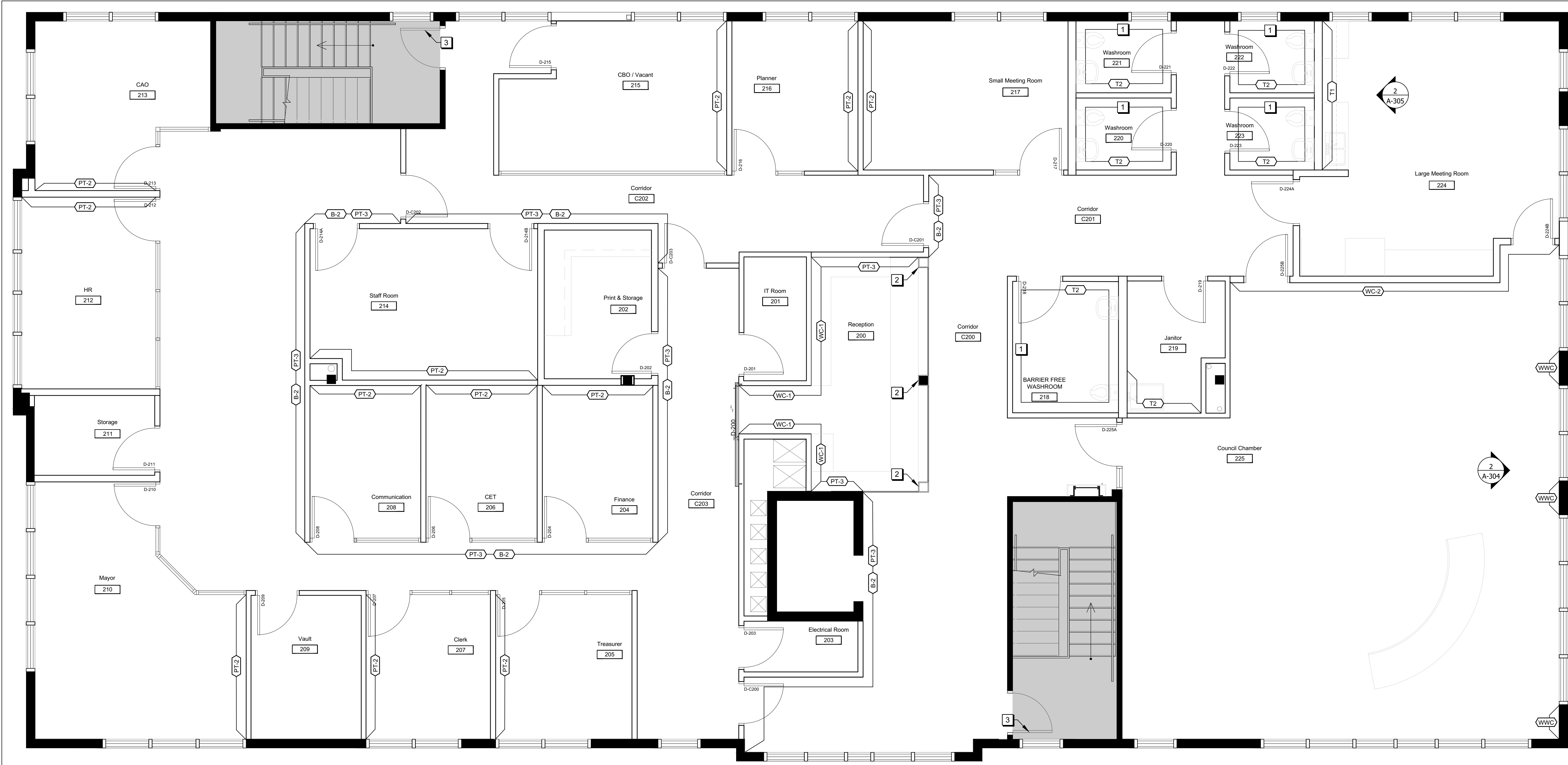
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

LEVEL 2
REFLECTED CEILING PLAN

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-106
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	PLOTTED BY:



LEVEL 2
WALL FINISHES PLAN
SCALE = 1/4" = 1'-0"

WALL FINISHES PLAN LEGEND

- PT-1** **GENERAL WALL PAINT (PT-1)**
COLOUR: WHITE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- PT-2** **ACCENT WALL PAINT (PT-2)**
COLOUR: LIGHT BLUE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- PT-3** **ACCENT WALL PAINT (PT-3)**
COLOUR: NAVY BLUE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- PT-4** **DOOR FRAME PAINT (PT-4)**
COLOUR: TO MATCH DEMOUNTABLE PARTITIONS
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- WC-1** **ACCENT VINYL WALLCOVERING (WC-1)**
PATTERN: CITY SCAPE, OFF-WHITE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- WC-2** **ACCENT VINYL WALLCOVERING (WC-2)**
PATTERN: CITY SCAPE, NAVY BLUE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- WWC** **WOOD WALLCOVERING (WWC)**
PATTERN: WOOD GRAIN
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- B1** **WALL BASE (B1)**
COLOUR: WHITE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS

WALL FINISHES PLAN LEGEND CON'T

- B2** **WALL BASE (B1)**
COLOUR: NAVY BLUE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- T1** **BACK SPLASH TILE (T1)**
COLOUR: BLUE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- T2** **WALL TILE (T2)**
COLOUR: WHITE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS

WALL FINISHES PLAN KEYNOTES

- 1** SEE ELEVATIONS ON PAGE A-9 FOR INSTALLATION DETAILS OF T2.
- 2** PLAM-2 FINISH IS TO BE APPLIED TO ALL EXPOSED PLYWOOD FACES OF THE COLUMN. REFER TO PAGE A-8 FOR FURTHER DETAILS.
- 3** PREP EXISTING DOOR & FRAME TO BE PAINTED. PAINT EXISTING DOOR TO REMAIN PT-1, ON ALL EXPOSED FACES. PAINT EXISTING FRAME TO REMAIN PT-4, ON ALL EXPOSED FACES.

WALL FINISHES NOTES

- FOR GYPSUM BOARD SURFACES WHERE PAINT IS APPLIED, CONTRACTOR TO PRIME WITH ONE COAT LATEX SEALER, SAND ALL SURFACES, REPAIR DEPRESSIONS, ETC. WITH DRYWALL COMPOUND. SPOT PRIME ALL PATCHED AREAS. SAND, APPLY ONE FINISH PAINT COAT (COLOUR AS SPECIFIED) AND AFTER COAT HAS DRIED RE-SAND AND FINISH WITH FINAL COAT OF PAINT (COLOUR AS SPECIFIED).
- ALL GYPSUM BOARD WALLS INCLUDING PERIMETER WALLS, CORE WALLS WITHIN THE CONTRACT AREA ARE TO BE PAINTED WITH GENERAL PAINT FINISH 'P1' UNLESS NOTED OTHERWISE ON THE DRAWING.
- CONTRACTOR TO REMOVE ALL SIGNAGE, WALL HUNG ITEMS ETC. PRIOR TO PAINTING. PATCH & REPAIR WALLS AS REQUIRED. REINSTALL SIGNAGE, WALL HUNG ITEMS AS PER EXISTING. UPON COMPLETION OF WORK.
- UNLESS OTHERWISE NOTED, ALL PAINT FINISHES ARE TO BE LATEX PAINT, EGGSHELL FINISH.
- DO NOT PAINT ANY SPRINKLERS OR FIRE SAFETY EQUIPMENT. REMOVE ALL SPLASHES.
- WALL BASE
 - LAY OUT BASE TO KEEP NUMBER OF JOINTS TO A MINIMUM.
 - SCRIBE AND FIT TO DOOR FRAMES AND OTHER OBSTRUCTIONS.

FINISHES GENERAL NOTES

- ALL MATERIALS ARE TO BE ORDERED WHEN THE CONSTRUCTION CONTRACT IS AWARDED AND UPON APPROVAL OF SHOP DRAWINGS & SAMPLES. AT THIS TIME THE CONTRACTOR IS TO CONFIRM THAT ALL DELIVERIES WILL MEET CONSTRUCTION SCHEDULE. SUBSTITUTIONS WILL NOT BE ACCEPTED DUE TO LATE ORDERING. IN THE EVENT THAT MATERIALS ARE NOT AVAILABLE IN TIME TO MEET SCHEDULED COMPLETION DATES, THE CONTRACTOR SHALL PROVIDE PROOF OF DATE OF ORDER OF MATERIALS PRIOR TO REQUESTING SUBSTITUTIONS.
- THE CONTRACTOR SHALL PROVIDE CONTROL SAMPLES FOR APPROVAL BY DESIGNERS OF ALL FINISHES SPECIFIED. SAMPLES TO BE TAGGED ACCORDING TO THE LEGEND ALL SAMPLES SHALL BE APPROVED BY THE CONSULTANT PRIOR TO ORDERING.
- CEASE OPERATION AND NOTIFY THE PROJECT MANAGER IMMEDIATELY IF ANY ASBESTOS IS DISCOVERED OR SUSPECTED ON-SITE.
- ALL FINISHES TO BE INSTALLED STRICTLY AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- CONTRACTOR TO SUBMIT MANUFACTURER'S MAINTENANCE INSTRUCTIONS FOR ALL FINISHES IN OPERATIONS AND MAINTENANCE MANUAL.
- SHOULD ANY DISCREPANCY OR UNCERTAINTY ARISE, CONTACT DESIGNER BEFORE PROCEEDING WITH APPLICATION OF FINISH.



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
Not for construction unless SEALED and SIGNED	

P R T Y	PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC.
--------------------------	--

824 Meath St. Suite 200
Ottawa, ON K1Z 6E8

613. 724. 7700
info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

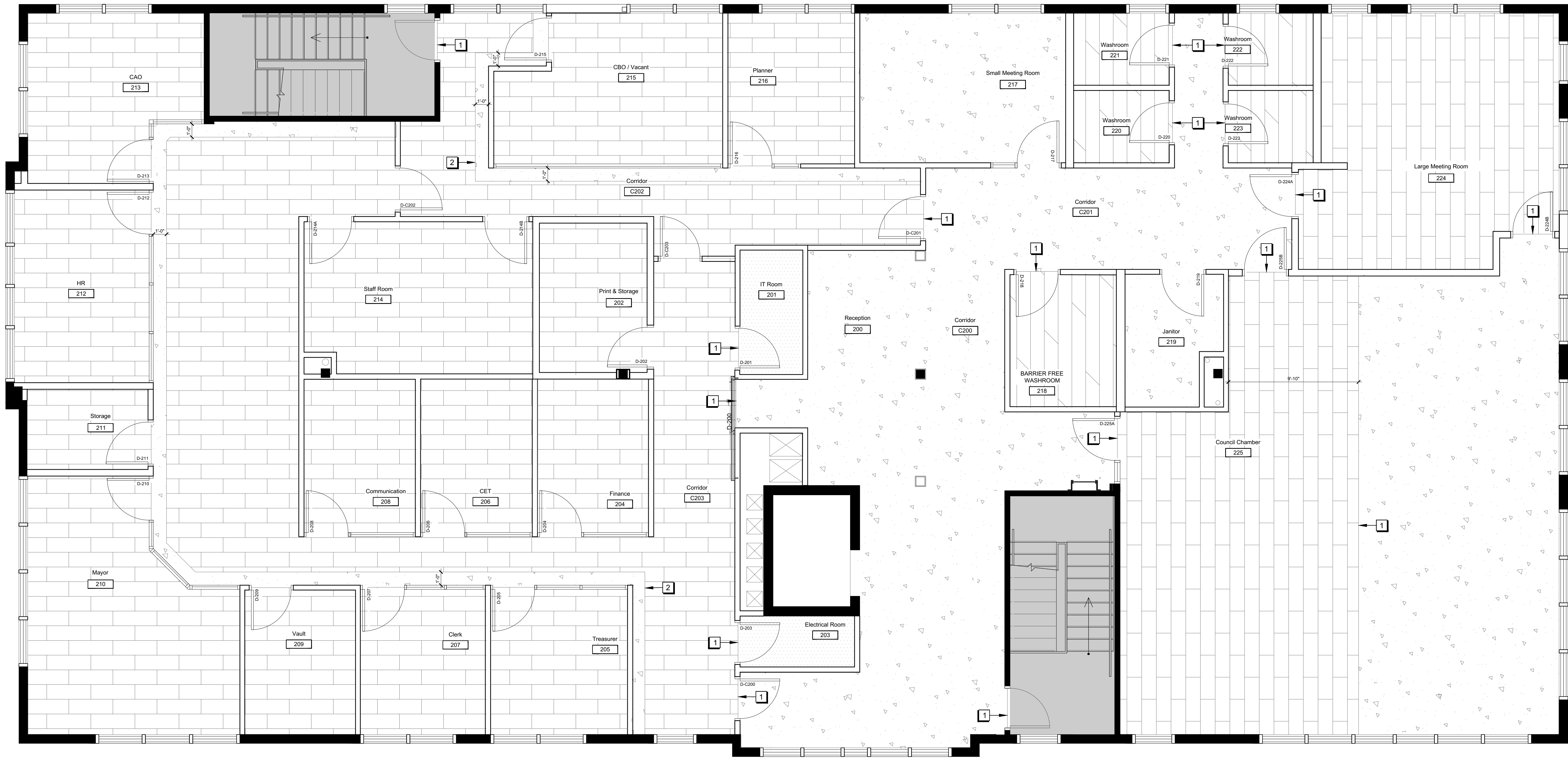
1 INDUSTRIEL STREET
CASSELMAN, ON

DRAWING

LEVEL 2
WALL FINISHES PLAN

PROJECT NO.	22045	DRAWING NO.	
SCALE -	1/8" = 1'-0"		
DRAWN -	MH		
CHECKED -	KB		
PLOT DATE -	24/03/2025	PLOTTED BY:	

A-107



1
A-108

**LEVEL 2
FLOOR FINISHES PLAN**
SCALE = 1/4" = 1'-0"

FLOOR FINISHES PLAN LEGEND

- EXISTING FINISHES TO REMAIN UNLESS NOTED OTHERWISE
- LUXURY VINYL TILE (LVT):**
PATTERN: CONCRETE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- LUXURY VINYL TILE (LVT):**
PATTERN: WOOD
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- PORCELAIN TILE (T-3):**
PATTERN: WOOD
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- STATIC DISSIPATIVE TILE (SDT-1):**
PATTERN: WHITE/GREY
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS

FLOOR FINISHES PLAN KEYNOTES

- 1** PROVIDE TRANSITION STRIP BETWEEN FLOORING CHANGES TO SUIT FLOORING TYPE.
- 2** ALIGN END OF ACCENT FLOORING WITH END OF WALL

FINISHES GENERAL NOTES

- ALL MATERIALS ARE TO BE ORDERED WHEN THE CONSTRUCTION CONTRACT IS AWARDED AND UPON APPROVAL OF SHOP DRAWINGS & SAMPLES. AT THIS TIME THE CONTRACTOR IS TO CONFIRM THAT ALL DELIVERIES WILL MEET CONSTRUCTION SCHEDULE. SUBSTITUTIONS WILL NOT BE ACCEPTED DUE TO LATE ORDERING. IN THE EVENT THAT MATERIALS ARE NOT AVAILABLE IN TIME TO MEET SCHEDULED COMPLETION DATES, THE CONTRACTOR SHALL PROVIDE PROOF OF DATE OF ORDER OF MATERIALS PRIOR TO REQUESTING SUBSTITUTIONS.
- THE CONTRACTOR SHALL PROVIDE CONTROL SAMPLES FOR APPROVAL BY DESIGNERS OF ALL FINISHES SPECIFIED. SAMPLES TO BE TAGGED ACCORDING TO THE LEGEND ALL SAMPLES SHALL BE APPROVED BY THE CONSULTANT PRIOR TO ORDERING.
- CEASE OPERATION AND NOTIFY THE PROJECT MANAGER IMMEDIATELY IF ANY ASBESTOS IS DISCOVERED OR SUSPECTED ON-SITE.
- ALL FINISHES TO BE INSTALLED STRICTLY AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- CONTRACTOR TO SUBMIT MANUFACTURER'S MAINTENANCE INSTRUCTIONS FOR ALL FINISHES IN OPERATIONS AND MAINTENANCE MANUAL.
- SHOULD ANY DISCREPANCY OR UNCERTAINTY ARISE, CONTACT DESIGNER BEFORE PROCEEDING WITH APPLICATION OF FINISH.

FLOOR FINISHES NOTES

- CONTRACTOR TO PREPARE SLAB TO RECEIVE FLOORING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- NEW FLOORING & RUBBER BASE IS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
- CONTRACTOR TO CHALK ALL FLOORING INSERT/ACCENT LOCATIONS AND PATTERNS ON SUB-FLOOR AND OBTAIN APPROVAL FROM DESIGNER (PR-TY) BEFORE COMMENCING WORK.
- CONTRACTOR TO PROVIDE WALK-OFF MATS. TAPE ALL PROTECTION PLASTIC INTO PLACE AND MAINTAIN IN GOOD CONDITION. POLYETHYLENE IS TO BE REMOVED AT COMPLETION OF WORK BY CONTRACTOR.
- CONTRACTOR TO PROTECT FLOOR USING 6 mil POLY. POLY JOINTS ARE TO BE TAPED; ADHESIVE FROM TAPE IS NOT TO COME IN CONTACT WITH FLOORING. MAINTAIN PROTECTION FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
- UPON CONSTRUCTION COMPLETION, FLOORING WITHIN CONTRACT AREA IS TO BE THOROUGHLY CLEANED OF CONSTRUCTION DEBRIS.
- CONTRACTOR TO PATCH AND REPAIR FLOOR FINISHES AS REQUIRED DUE TO CONSTRUCTION ACTIVITIES.
- COORDINATE INSTALLATION OF FLOORING ON MOBILE SHELVING PLATFORM.
- CONTRACTOR SHALL PROVIDE SUITABLE TRANSITION STRIPS AT ALL FLOORING CHANGES. CONTRACTOR IS TO PROVIDE A SAMPLE FOR APPROVAL BY DESIGNER BEFORE PROCEEDING WITH INSTALLATION.
- WHERE FLOORING CHANGES OCCUR AT DOORWAYS, THE INTERFACE OF THE FLOORING SHALL OCCUR SO THAT IT IS CONCEALED BENEATH THE DOOR WHEN IT IS IN A CLOSED POSITION.
- VINYL COMPOSITION TILE FLOORING
 - ALL FLOOR TILES TO BE FROM THE SAME BATCH NUMBER.
 - FLOOR TILE, AND ALL NECESSARY COMPONENTS, ARE TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
 - CONTINUE FLOORING OVER AREAS WHICH WILL BE UNDER BUILT-IN FURNITURE AND/OR MILLWORKS.
 - SCRIBE AND CUT BORDER TILES TO SUIT SITE CONDITIONS.
 - COMPLETE INITIAL CLEANING AS PER MANUFACTURER'S INSTRUCTIONS.

04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

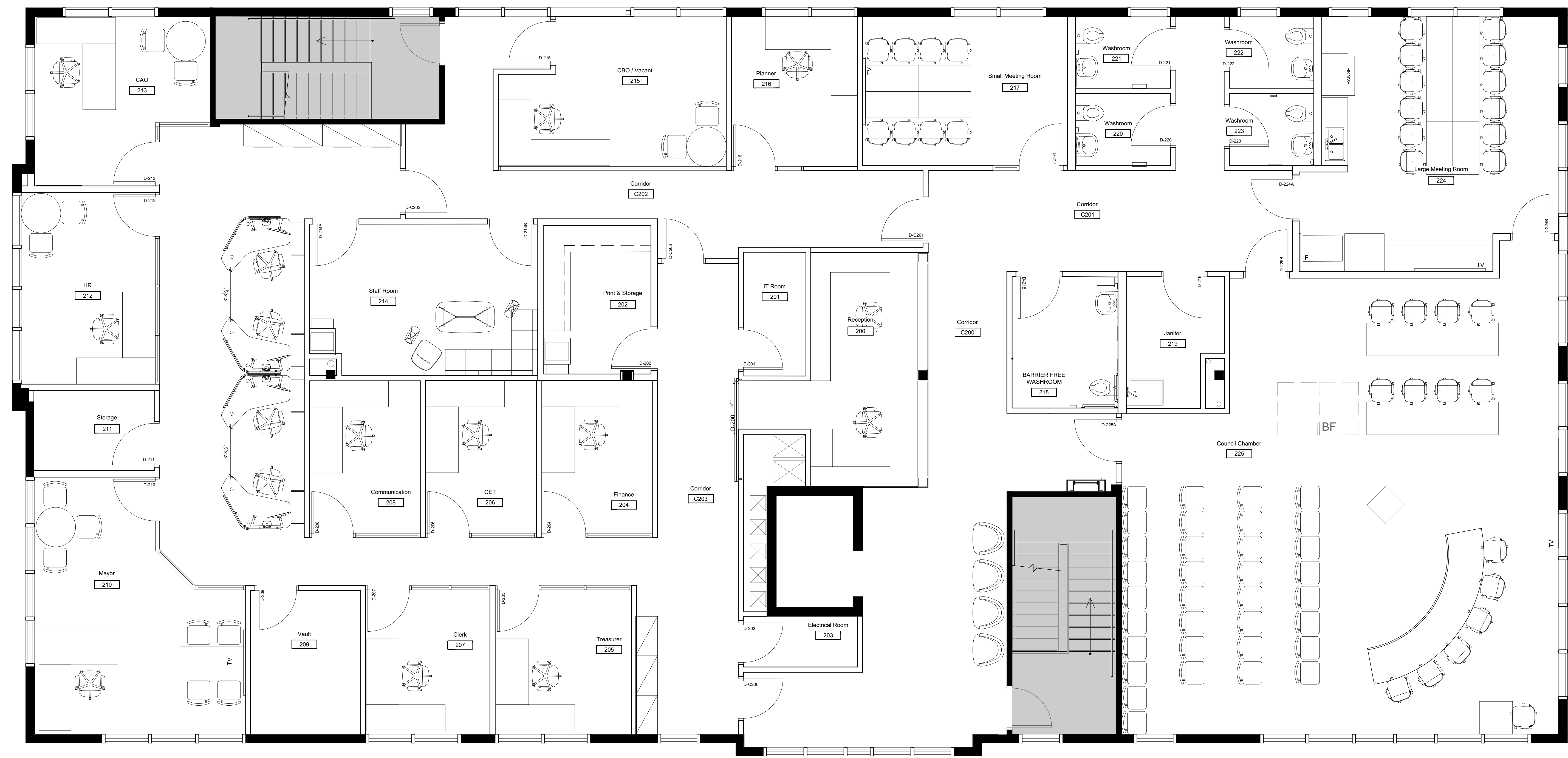
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

LEVEL 2
FLOOR FINISHES PLAN

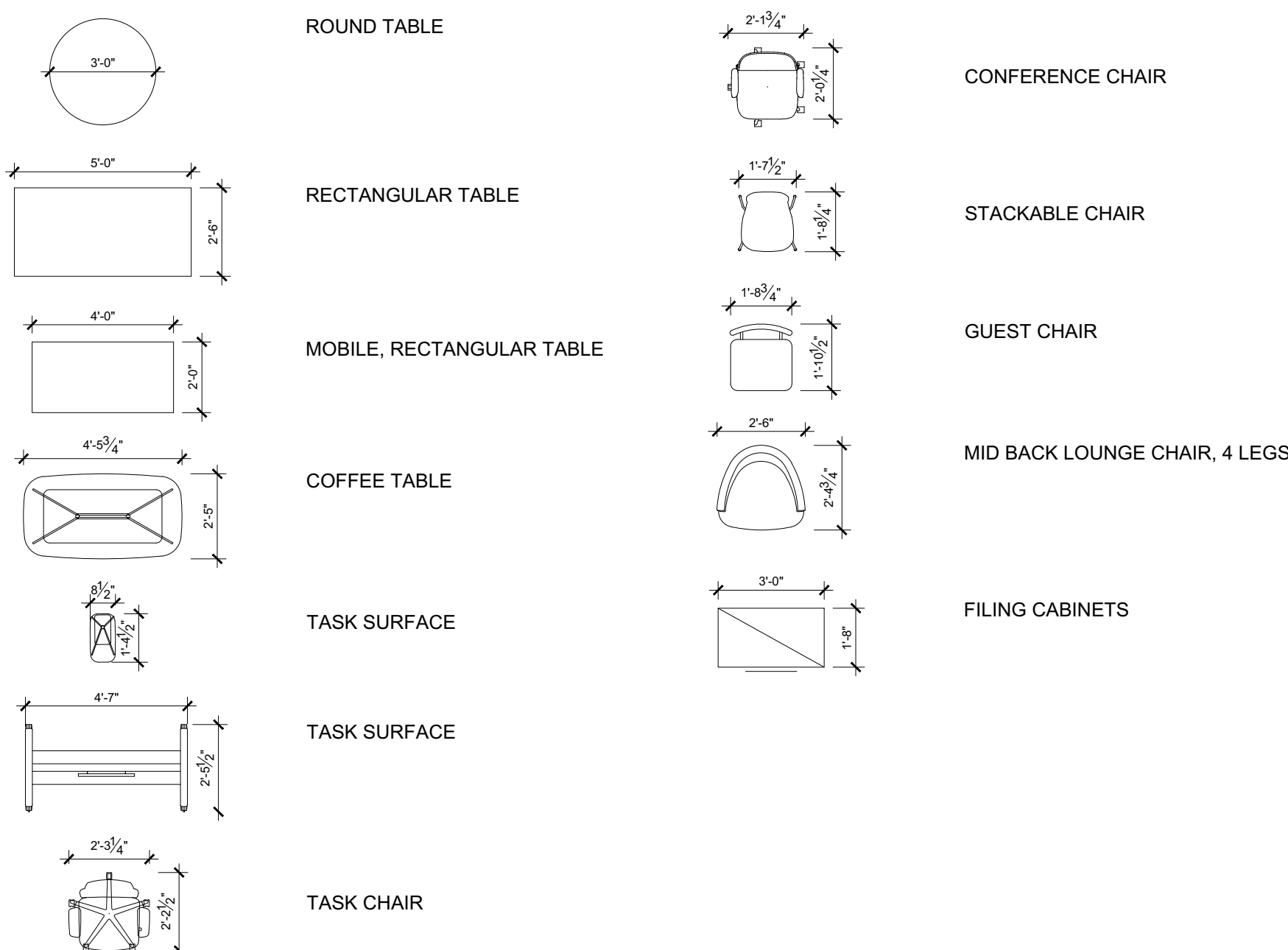
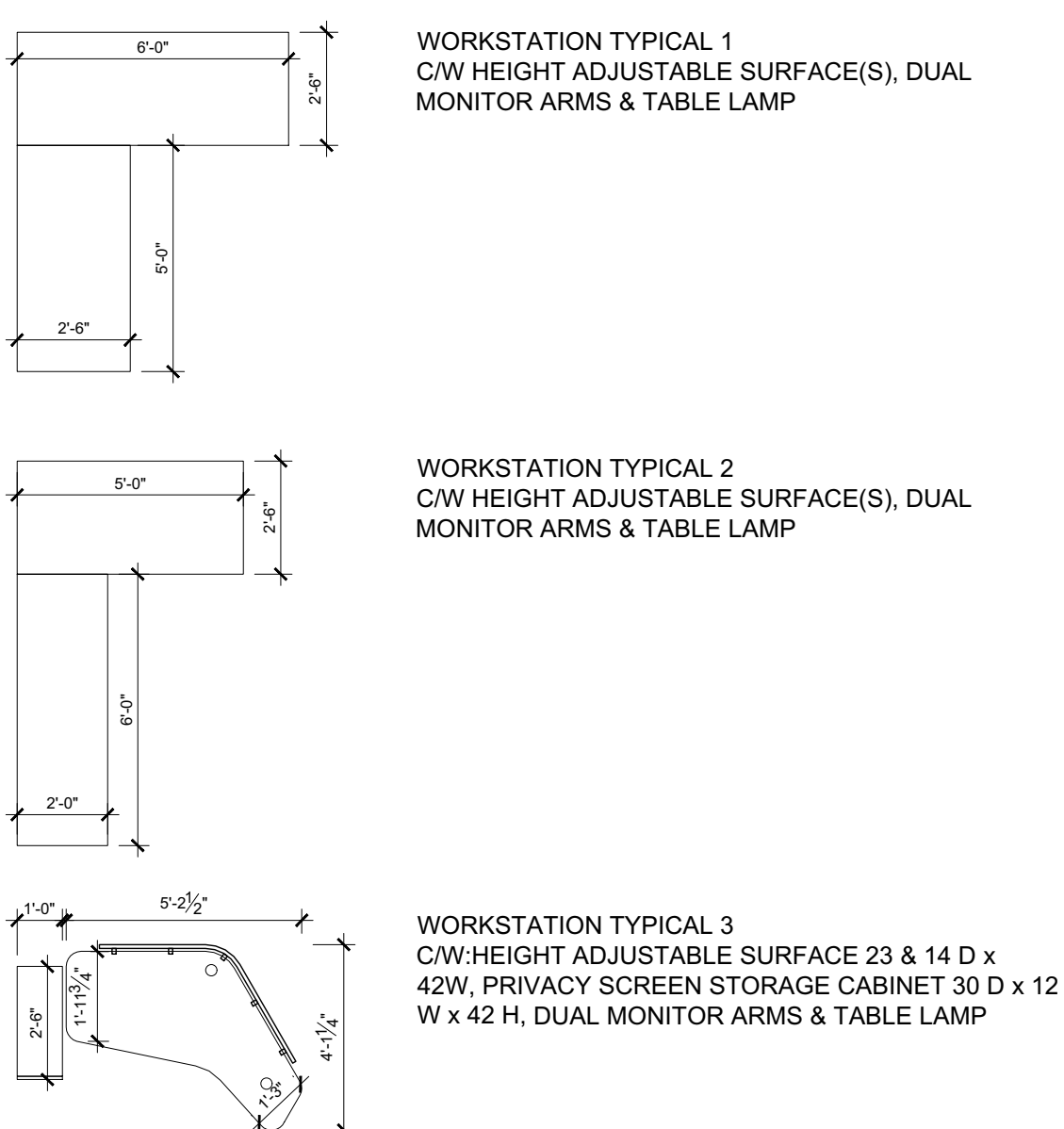
PROJECT NO.	22045	DRAWING NO.	A-108
SCALE -	1/8" = 1'-0"		
DRAWN -	MH		
CHECKED -	KB		
PLOT DATE -	24/03/2025	PLOTTED BY:	



1 LEVEL 2
A-109 FURNITURE PLAN (FOR INFORMATION ONLY)
SCALE = 1/4" = 1'-0"

FURNITURE PLAN LEGEND

FURNITURE IS TO BE PROCURED BY OTHERS.
THIS PLAN IS FOR INFORMATION ONLY.



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
------	---------------

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

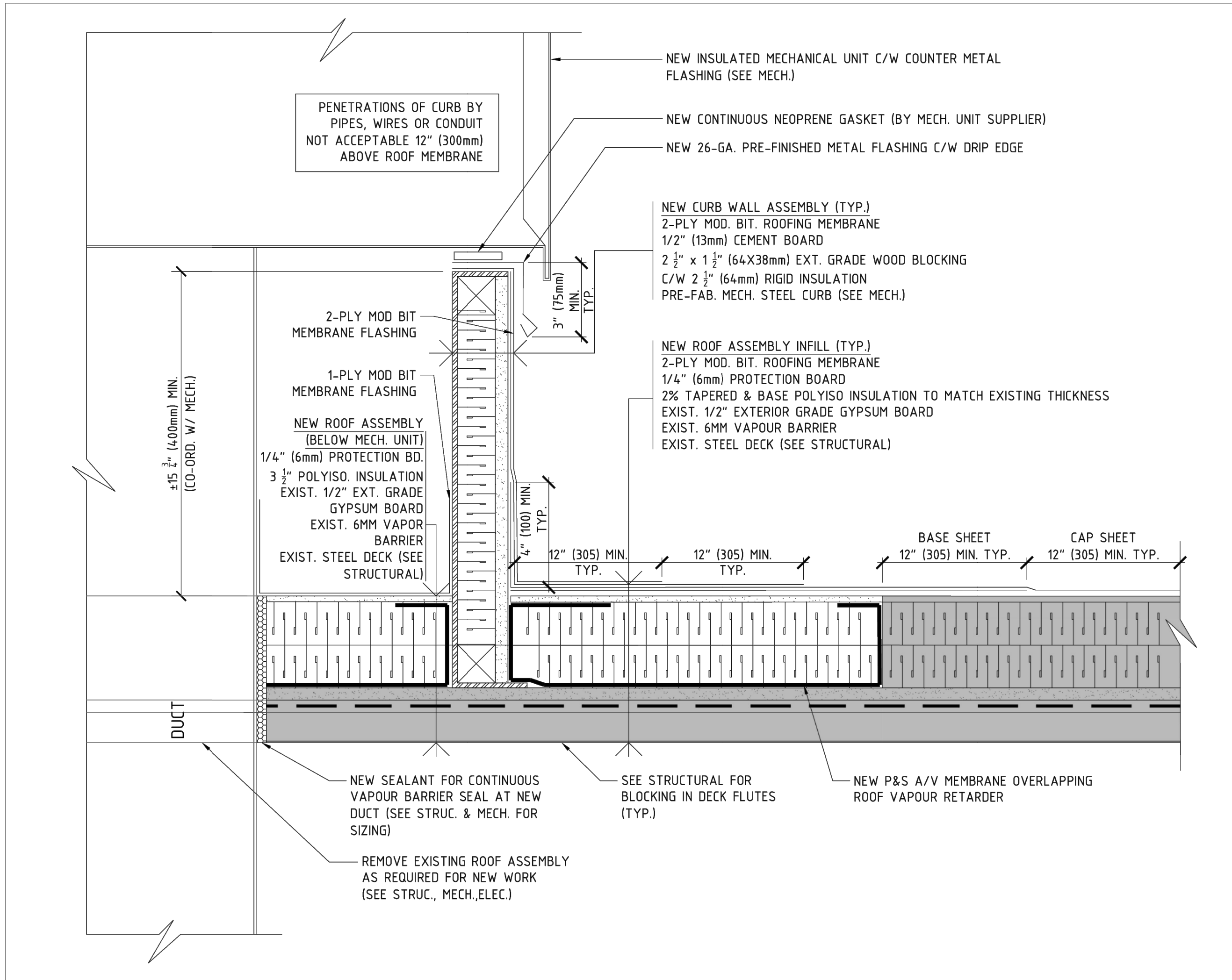
824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING
LEVEL 2
FURNITURE PLAN (REFERENCE ONLY)

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-109
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	PLOTTED BY:



1 ROOF DETAIL @ NEW MECHANICAL UNIT
A-111 SCALE = N.T.S.



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023

REV.	DESCRIPTION	DATE
------	-------------	------

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
Not for construction unless SEALED and SIGNED	

P

R

T

Y

PYE & RICHARDS -

TEMPRANO & YOUNG

ARCHITECTS INC.

824 Meath St. Suite 200

Ottawa, ON K1Z 6E8

613. 724. 7700

info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET
DRAWING

CASSELMAN, ON

ROOF DETAILS

PROJECT NO.	22045	DRAWING NO.
SCALE	N.T.S.	A-111
DRAWN	MH	
CHECKED	KB	
PLOT DATE	24/03/2025	
		PLOTTED BY:

DOOR, FRAME & HARDWARE SCHEDULE

DOOR DESCRIPTION										FRAME DESCRIPTION						
Door No.	From	To	Door Type	Swing	Door Width (inch)	Door Height (inch)	Door Thickness	Door Finish	Frame Type	Frame Material	Frame Finish	Frame Glass Type	Film Type	Hardware	STC Rating	Remarks
E-100	100	Exterior	EX	RH	EX	EX	EX	EX	EX	EX	EX	-	-	HP-13	-	
E-102B	102	Exterior	EX	RH	EX	EX	EX	EX	EX	EX	EX	-	-	HP-12	-	
E-103	103	Exterior	EX	RH/LH	EX	EX	EX	EX	EX	EX	EX	-	-	HP-11	-	
D-C200	C200	C203	HM-1	RHR	38	80	1.75	WV-1	F1	PS	PT-4	-	-	HP-2	-	
D-C201	C200	C204	HM-1	LH	38	80	1.75	WV-1	F1	PS	PT-4	-	-	HP-3	-	
D-C202	C204	C202	HM-1	LHR	38	80	1.75	WV-1	F1	PS	PT-4	-	-	HP-2	-	
D-C203	C204	C203	HM-1	RHR	38	80	1.75	WV-1	F1	PS	PT-4	-	-	HP-2	-	
D-200	C203	200	W-2	BARN	40	80	1.75	WV-1	F3	-	PT-4	-	-	HP-7	-	SLIDING BARN DOOR
D-201	C203	201	HM-2	RH	38	80	1.75	PT-1	F1	PS	PT-1	-	-	HP-8	-	
D-202	C203	202	W-1	LH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-3	-	
D-203	C203	203	HM-1	LH	38	80	1.75	PT-1	F1	PS	PT-1	-	-	HP-4	-	
D-204	C202	204	W-1	LH	38	80	1.75	FF	-	AL	FF	-	-	HP-1	-	PART OF DEMOUNTABLE PARTITION
D-205	C202	205	W-1	RH	38	80	1.75	FF	-	AL	FF	-	-	HP-1	-	PART OF DEMOUNTABLE PARTITION
D-206	C202	206	W-1	LH	38	80	1.75	FF	-	AL	FF	-	-	HP-1	-	PART OF DEMOUNTABLE PARTITION
D-207	C202	207	W-1	RH	38	80	1.75	FF	-	AL	FF	-	-	HP-1	-	PART OF DEMOUNTABLE PARTITION
D-208	C202	208	W-1	LH	38	80	1.75	FF	-	AL	FF	-	-	HP-1	-	PART OF DEMOUNTABLE PARTITION
D-209	C202	209	HM-1	RH	38	80	1.75	WV-1	F1	PS	PT-4	-	-	HP-4	-	
D-210	C202	210	W-1	RH	38	80	1.75	FF	-	AL	FF	-	-	HP-1	-	PART OF DEMOUNTABLE PARTITION
D-211	C202	211	W-1	LH	38	80	1.75	WV-1	F1	PS	PT-4	-	-	HP-3	-	
D-212	C202	212	W-1	RH	38	80	1.75	FF	-	AL	FF	-	-	HP-1	-	PART OF DEMOUNTABLE PARTITION
D-213	C202	213	W-1	LH	38	80	1.75	FF	-	AL	FF	-	-	HP-1	-	PART OF DEMOUNTABLE PARTITION
D-214A	C202	214	W-1	RH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-3	-	
D-214B	C202	214	W-1	LH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-1	-	
D-215	C204	215	W-1	RHR	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-10	-	PROVIDE SEPARATE PRICING, SEE HP-1
D-216	C204	216	W-1	LH	38	80	1.75	FF	-	AL	FF	-	-	HP-10	-	PART OF DEMOUNTABLE PARTITION SYSTEM
D-217	C201	217	W-1	RH	38	80	1.75	WV-1	F2	SCW	PT-4	GL1	-	HP-3	-	
D-218	C201	218	W-1	RH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-6	-	
D-219	C201	219	HM-2	LH	38	80	1.75	PT-1	F1	PS	PT-1	-	-	HP-8	-	
D-220	C201	220	W-1	LH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-5	-	
D-221	C201	221	W-1	LH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-5	-	
D-222	C201	222	W-1	RH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-5	-	
D-223	C201	223	W-1	RH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-5	-	
D-224A	C201	224	W-1	LHR	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-9	-	
D-224B	225	224	W-1	RH	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-9	-	
D-225A	C201	225	W-1	LHR	38	80	1.75	WV-1	F2	SCW	PT-4	GL1	-	HP-3	-	
D-225B	C200	225	W-1	LHR	38	80	1.75	WV-1	F1	SCW	PT-4	-	-	HP-3	-	

DOOR & FRAME ABBREVIATION LEGEND

DOOR FINISH:
PT PAINT FINISH
FF FACTORY FINISH

FRAME MATERIAL:
PS PRESSED STEEL
SCW SOLID CORE WOOD
AL ALUMINUM

FRAME FINISH:
PT PAINT FINISH
FF FACTORY FINISH

GLAZING LEGEND

GL-1 DOUBLE PANE, 6MM TEMPERED GLASS SUPPLIED AND INSTALLED BY CONTRACTOR
GL-2 DOUBLE PANE, 6MM CLEAR TEMPERED GLASS SUPPLIED AND INSTALLED BY THE DEMOUNTABLE PARTITION SUPPLIER.

DOOR & HARDWARE GENERAL NOTES

- NEW DOOR, FRAME & HARDWARE TO BE SUPPLIED, INSTALLED & FINISHED AS PER DOOR SCHEDULE. ENSURE PROPER FUNCTION OF ALL DOOR COMPONENTS.
- IF FLOOR SLAB IS UNEVEN, SHIM DOOR FRAMES TO SUIT AS REQUIRED & PAINT SHIM TO MATCH FRAME.
- PATCH, REPAIR & REFINISH EXISTING DOORS & FRAMES THAT ARE DAMAGED BY CONSTRUCTION TO MATCH EXISTING.

MANUFACTURERS / MODELS

STANDARD FINISHES:
26D OR MANUFACTURER'S EQUIVALENT

LOCKSETS & LOCK CORES:
GRADE 1 EXTRA HEAVY DUTY OR GRADE 2 HEAVY DUTY AS NOTED
DESIGN SPECIFICATIONS: LEVER HANDLES

KEYING:
ALL DOORS TO HAVE SAME KEY WAY;
SUPPLY 4 MASTER KEYS BY FLOOR;
SUPPLY 2 KEYS PER DOOR
DOORS KEYED SEPARATELY

DOOR CLOSERS:
SURFACE MOUNTED, INTERIOR FACE OF DOOR & FRAME;
MODELS AS NOTED BY HARDWARE PACKAGE NUMBER
MAXIMUM FORCE OF 4.9 POUNDS / 22 NEWTONS TO MET OBC & CSA B651-12 REQUIREMENTS

DOOR PULLS:
SURFACE MOUNTED, EXTRA LONG PULL;
MODEL AS NOTED BY FINISH SCHEDULE ON PAGE A-500

HINGES:
HEAVY DUTY
FULL MORTISED BALL BEARING
MINIMUM 4 PAIRS FOR FULL HEIGHT DOORS

FLOOR STOP:
FLOOR STOP BY GALLERY SPECIALITY HARDWARE, MODEL No. GSH209, PROVIDE RISER AS REQUIRED
DOOR CEILING STOP BY GLYNN JOHNSON, 100 SERIES CONCEALED OVERHEAD STOP

AUTOMATIC DOOR BOTTOM:
MORTISED CT-53F BY K.N. KROWDER, FULL GROOVE

DOOR 'SOUND' SEALS:
PEMKO SOUND SEALS, MODEL No. S773.
INSTALLED AT FRAME HEAD JAMB, LATCH & HINGE SIDES

DOOR PLATES (KICKPLATES):
BY GALLERY SPECIALITY HARDWARE
INSTALLED AT DOOR BOTTOM, TO MATCH DOOR WIDTH
MODEL: 80 KICK PLATE w/ COUNTER-SUNK SCREWS
FINISH: BRUSHED STAINLESS STEEL

HARDWARE NOTES:

- COORDINATE ALL 'SECURE' HARDWARE PACKAGES WITH THE SECURITY COMPONENT OF THE CONTRACT.
- ALL CLOSERS ARE TO BE ADA COMPLIANT.
- ALL DOORS ARE TO BE SUPPLIED WITH:
 - A DOOR STOP
 - THE APPROPRIATE NUMBER OF HINGE PAIRS TO MEET THE WEIGHT OF THE DOOR
 - ACOUSTIC TREATMENT (ALL DOORS IN 40 STC AND UP WALLS);
ACOUSTIC DOOR SEALS
MORTISED DROP DOWN NEOPRENE DOOR BOTTOM

HARDWARE PACKAGES

HARDWARE TYPE HP1:
ENCLOSED OFFICES
9 SINGLE DOORS: BY DEMOUNTABLE PARTITION SUPPLIER
D-204, D-205, D-206, D-207, D-208, D-210, D-212, D-213, D-216
BB HINGES
OFFICE LOCKSET (MORTISE)
FLOOR STOP
SOUND SEALS
AUTO DOOR BOTTOM
NOTES:
1. DEMOUNTABLE PARTITION SUPPLIER TO PREP DOOR TO RECEIVE CONTRACTOR SUPPLIED HARDWARE.
2. CONTRACTOR TO PROVIDE SEPARATE PRICING WITHIN BID DOCUMENT TO CHANGE HARDWARE FOR DOOR D-216 TO THE FOLLOWING:
BB HINGES
MORTISE LOCKSET (STOREROOM FUNCTION)
BY ELECTRIC STRIKE
CARD READER
DOOR CONTACT
FLOOR DOORSTOP
DOOR CLOSER
SOUND SEALS
AUTO DOOR BOTTOM
BY DEMOUNT. PART. SUPPLIER
BY DEMOUNT. PART. SUPPLIER

HARDWARE TYPE HP2:
SECURE OFFICE SUITE ENTRY
3 SINGLE DOORS: BY CONTRACTOR
D-C200, D-C202, D-C203
BB HINGES
MORTISE LOCKSET (STOREROOM FUNCTION)
ELECTRIC STRIKE
CARD READER (ONE SIDE)
DOOR CONTACT
FLOOR STOP
AUTOMATIC DOOR OPERATOR
VERTICAL ACTUATOR (ON BOTH SIDES)

HARDWARE TYPE HP3:
UNSECURED ROOMS
7 SINGLE DOORS: BY CONTRACTOR
D-C201, D-202, D-211, D-214A, D-217, D-225A, D-225B
BB HINGES
PASSAGE SET
FLOOR STOP
SOUND SEALS
AUTO DOOR BOTTOM

HARDWARE TYPE HP4:
KEYED ROOMS
2 SINGLE DOORS: BY CONTRACTOR
D-203, D-219
BB HINGES
MORTISE LOCKSET (STOREROOM FUNCTION)
FLOOR DOORSTOP
DOOR CLOSER

HARDWARE TYPE HP5:
WASHROOMS
4 SINGLE DOORS: BY CONTRACTOR
D-220, D-221, D-222, D-223
BB HINGES
MORTISE LOCKSET (PRIVACY FUNCTION)
FLOOR DOORSTOP
KICKPLATE

HARDWARE TYPE HP6:
BARRIER FREE WASHROOM
1 SINGLE DOOR: BY CONTRACTOR
D-218
BB HINGES
MORTISE LOCKSET (PRIVACY FUNCTION)
ELECTRIC STRIKE
PUSH TO LOCK BUTTON
EMERGENCY CALL KIT
OCCUPIED WHEN LIT SIGNAGE
AUTOMATIC DOOR OPERATOR
VERTICAL ACTUATOR (ON BOTH SIDES)
FLOOR STOP
KICKPLATE

HARDWARE PACKAGES CON'T

HARDWARE TYPE HP7:
RECEPTION
1 SINGLE BARN DOOR: BY CONTRACTOR
BARN DOOR KIT
DOOR PULL LEVER

HARDWARE TYPE HP8:
SERVICE ROOMS
2 SINGLE DOORS: BY CONTRACTOR
D-201, D-209
BB HINGES
MORTISE LOCKSET (STOREROOM FUNCTION)
ELECTRIC STRIKE
CARD READER
DOOR CONTACT
FLOOR STOP
DOOR CLOSER

HARDWARE TYPE HP9:
ACCESS CONTROLLED ROOMS
4 SINGLE DOORS: BY CONTRACTOR
D-214B, D-215, D-224A, D-224B

BB HINGES
MORTISE LOCKSET (STOREROOM FUNCTION)
BY ELECTRIC STRIKE
CARD READER
DOOR CONTACT
FLOOR DOORSTOP
DOOR CLOSER
SOUND SEALS
AUTO DOOR BOTTOM

HARDWARE TYPE HP10:
ENCLOSED OFFICE, KEYED
1 SINGLE DOOR: BY CONTRACTOR
D-215

BB HINGES
OFFICE LOCKSET (MORTISE)
FLOOR STOP
SOUND SEALS
AUTO DOOR BOTTOM

NOTES:
1. CONTRACTOR TO PROVIDE SEPARATE PRICING WITHIN BID DOCUMENT TO CHANGE HARDWARE TO THE FOLLOWING:
BB HINGES
MORTISE LOCKSET (STOREROOM FUNCTION)
BY ELECTRIC STRIKE
CARD READER
DOOR CONTACT
FLOOR DOORSTOP
DOOR CLOSER
SOUND SEALS
AUTO DOOR BOTTOM

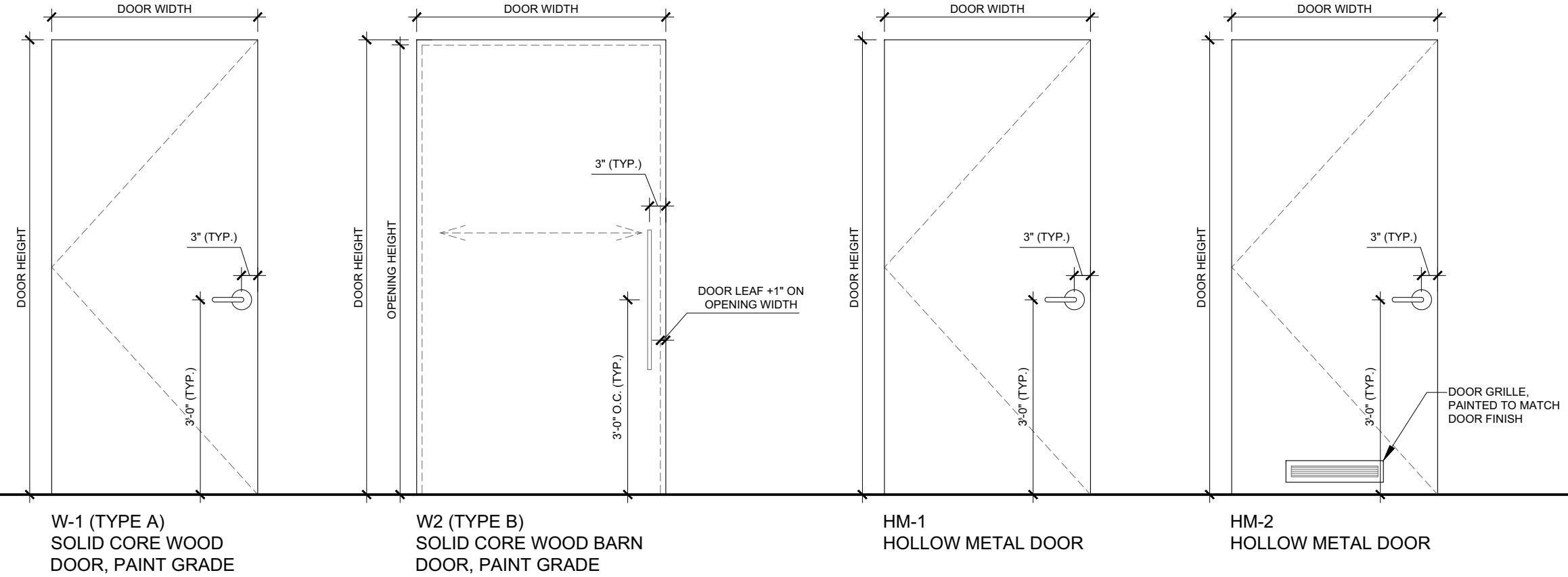
HARDWARE TYPE HP11:
EXIT STAIR
1 EXISTING SINGLE DOORS: TO REMAIN
E-103

NEW CARD READER (ONE SIDE)
NEW ELECTRIC STRIKE
NOTE: CONTRACTOR TO VERIFY THAT EXISTING HARDWARE WILL FUNCTION WITH THE NEW HARDWARE. ANY UPGRADES REQUIRED TO EXISTING HARDWARE UPON INVESTIGATION, TO BE APPLIED TO HARDWARE ALLOWANCE.

HARDWARE TYPE HP12:
EXIT STAIR
1 EXISTING SINGLE DOOR: TO REMAIN
E-102B
NEW DOOR CONTACT
NOTE: CONTRACTOR TO VERIFY THAT EXISTING HARDWARE FUNCTIONS AS EXIT ONLY. ANY UPGRADES REQUIRED TO EXISTING HARDWARE UPON INVESTIGATION, TO BE APPLIED TO HARDWARE ALLOWANCE.

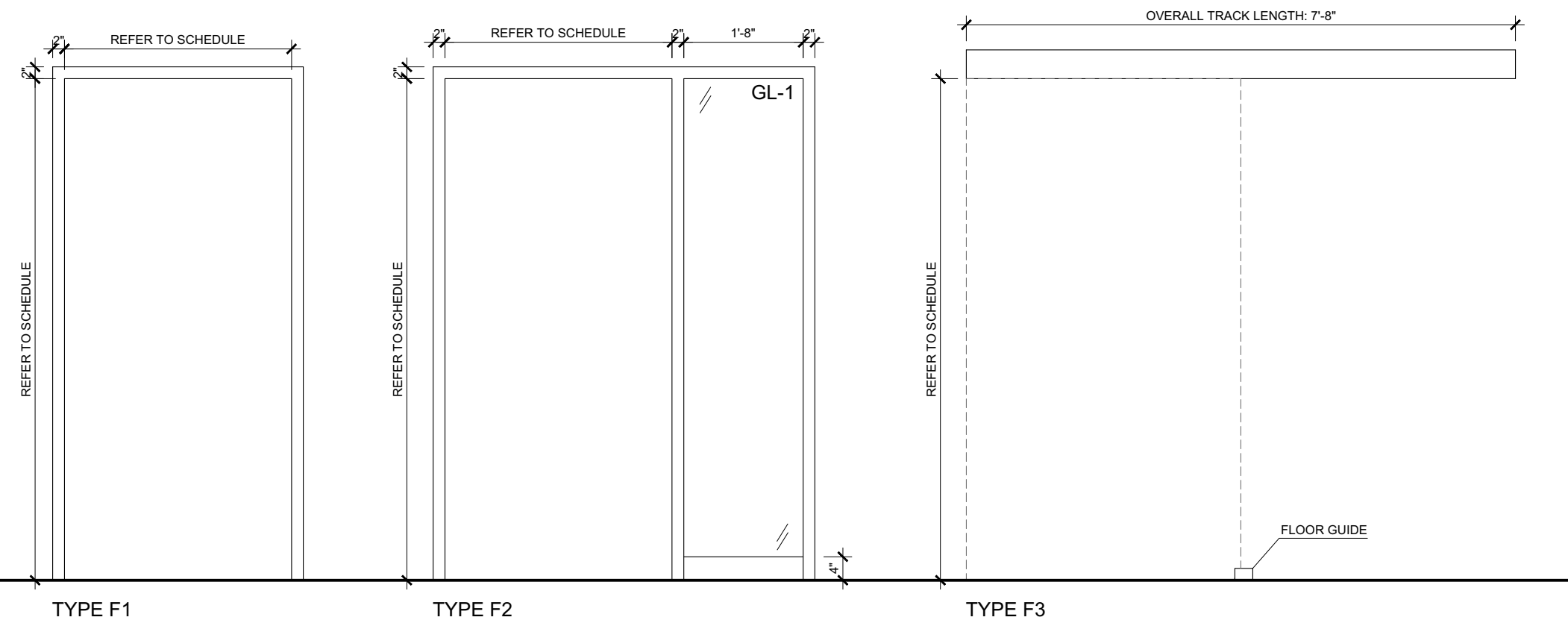
HARDWARE TYPE HP13:
MAIN ENTRANCE
1 EXISTING DOUBLE DOOR: TO REMAIN
E-100

NEW CARD READER
NOTE: CONTRACTOR TO VERIFY THAT EXISTING HARDWARE WILL FUNCTION WITH THE NEW HARDWARE. ANY UPGRADES REQUIRED TO EXISTING HARDWARE UPON INVESTIGATION, TO BE APPLIED TO HARDWARE ALLOWANCE.



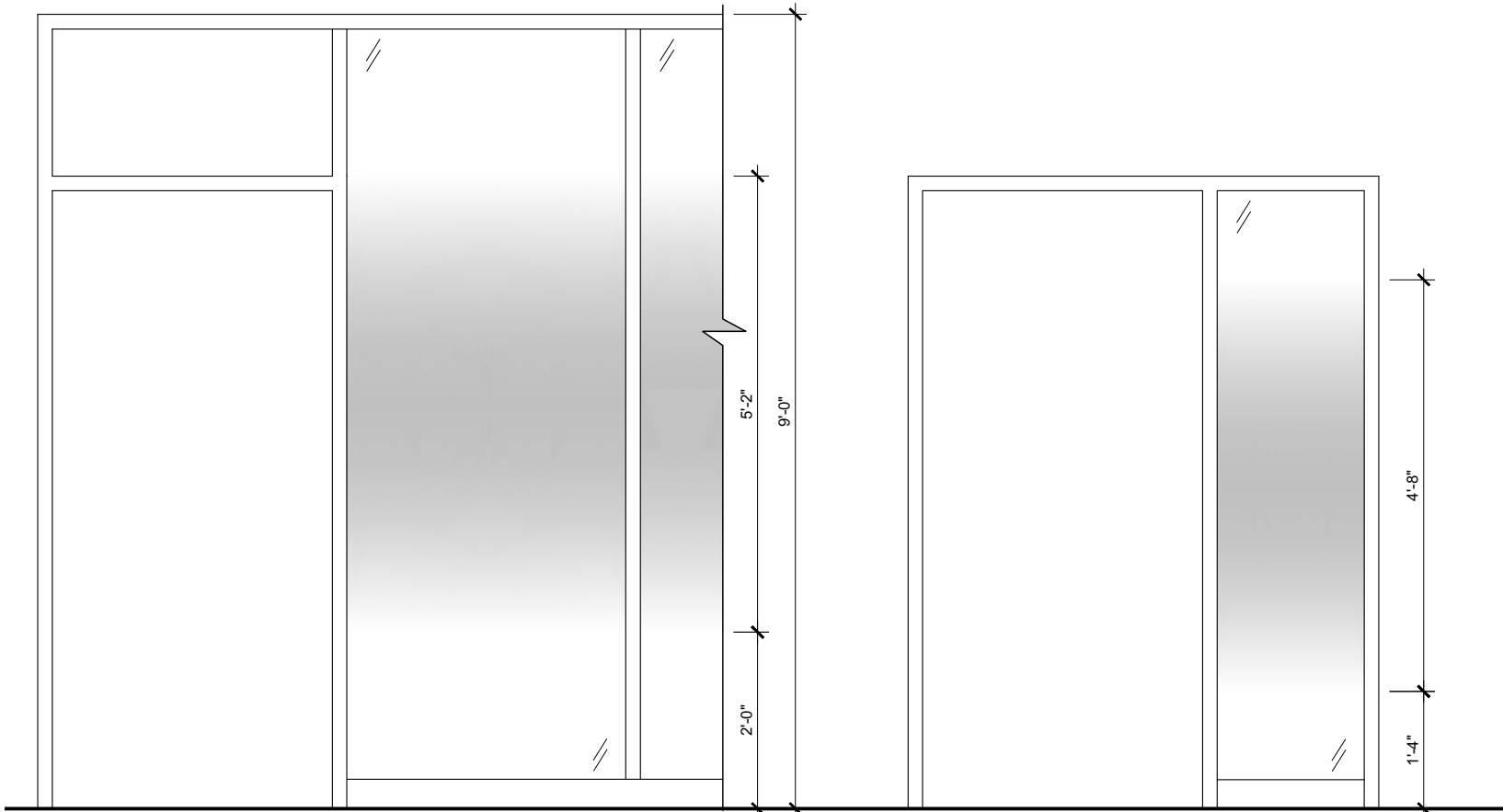
1 DOOR TYPE ELEVATIONS

A-200 SCALE = 1/2" = 1'-0"



2 FRAME TYPE ELEVATIONS

A-200 SCALE = 1/2" = 1'-0"



3 WINDOW FILM ELEVATIONS

A-200 SCALE = 1/2" = 1'-0"

WINDOW FILM LEGEND

- GENERAL NOTES:
- CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING WINDOW FILM FOR ALL GLAZING TYPES, INCLUDING THOSE SUPPLIED BY DEMOUNTABLE PARTITION SUPPLIER.
 - FILM IS TO BE INSTALLED ON THE INTERIOR SIDE OF GLASS.
 - ALL GLAZING PANELS ARE TO HAVE FILM INSTALLED, EXCLUDING D-225A.
 - FOR INSTALLATION DETAILS ON WINDOW FILM APPLIED TO GLAZING SUPPLIED BY THE CONTRACTOR, REFER TO FLM-1 SAMPLE SIDELIGHT APPLICATION B.
 - FOR INSTALLATION DETAILS ON WINDOW FILM APPLIED TO GLAZING SUPPLIED BY THE DEMOUNTABLE PARTITION SYSTEM, REFER TO FLM-1 SAMPLE SIDELIGHT APPLICATION A.
 - THE FILM PATTERN OF FLM-1 SHOULD START FROM THE CENTER OF THE SIDELIGHT PANEL.

FLM-1 GRADIENT FROSTED FILM, WITH FULL WHITE OPACITY IN CENTER AND GRADIENT TO CLEAR ON TOP AND BOTTOM. REFER TO FINISHES SCHEDULE FOR SPECIFICATIONS



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

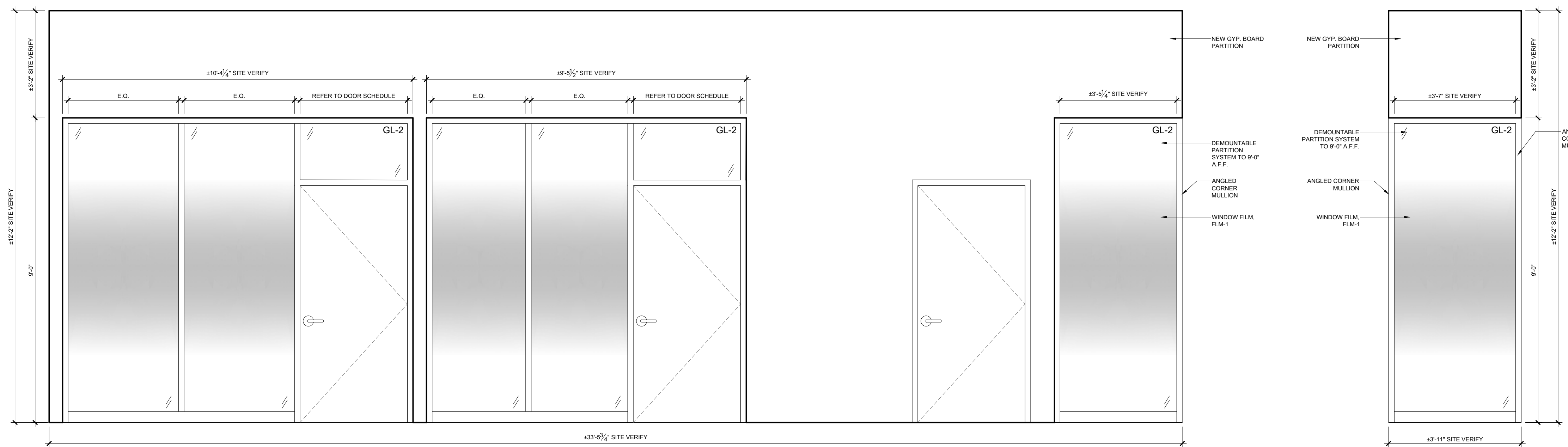
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

DOOR & HARDWARE SCHEDULE &
ELEVATIONS

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-200
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	PLOTTED BY:



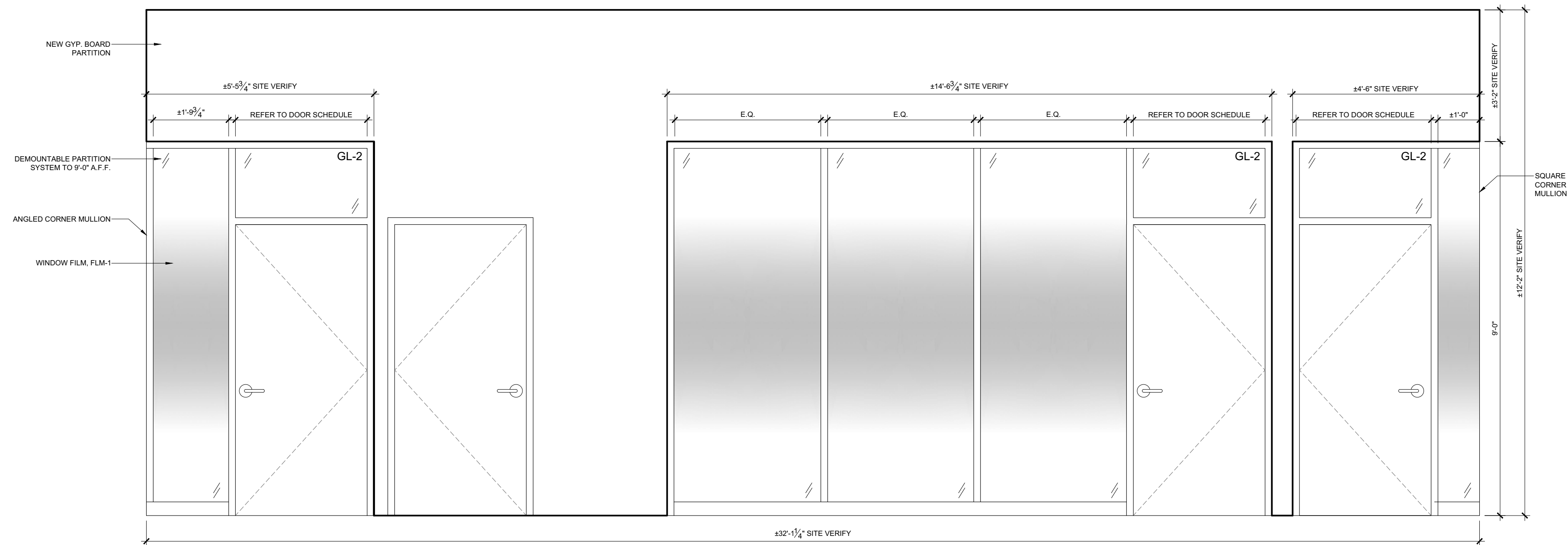
GL-1	DOUBLE PANE, 6MM TEMPERED GLASS SUPPLIED AND INSTALLED BY CONTRACTOR
GL-2	DOUBLE PANE, 6MM CLEAR TEMPERED GLASS SUPPLIED AND INSTALLED BY THE DEMOUNTABLE PARTITION SUPPLIER.

GENERAL NOTES:

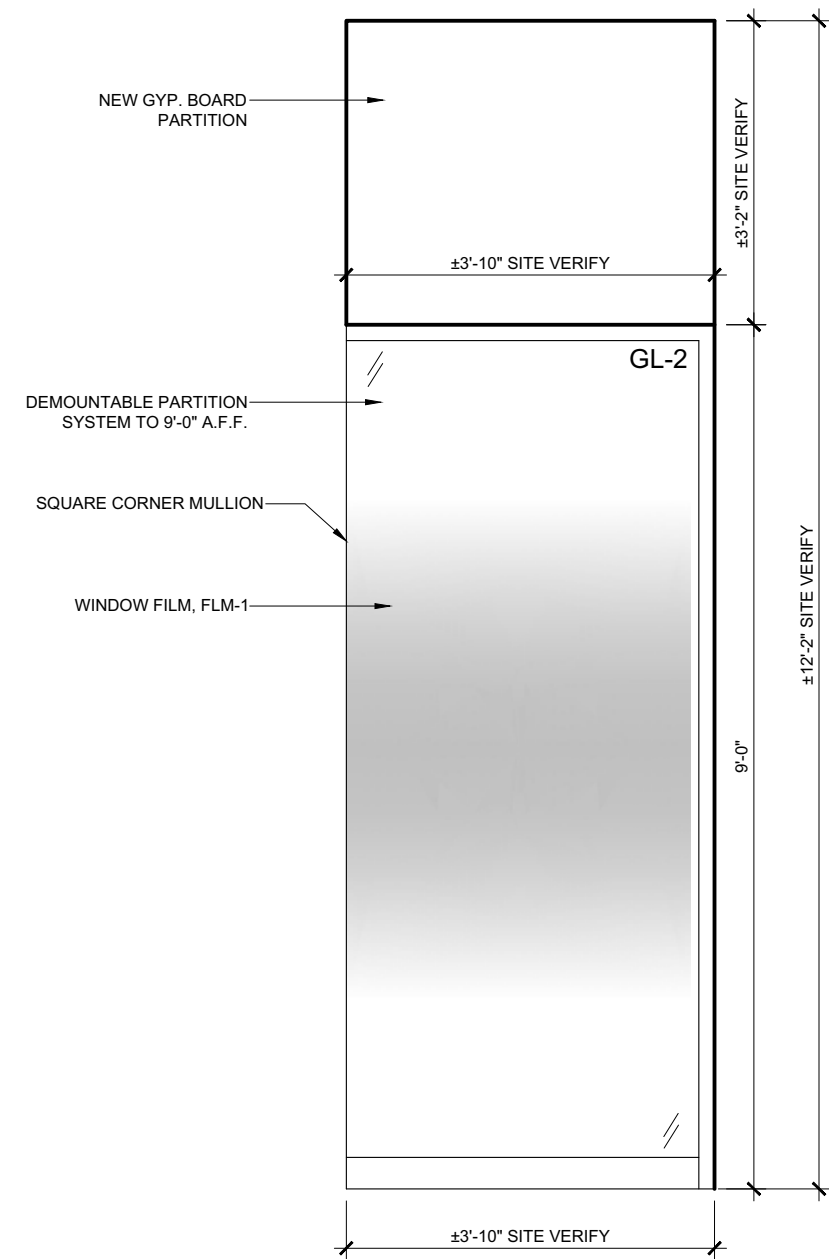
1. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING WINDOW FILM FOR ALL GLAZING TYPES, INCLUDING THOSE SUPPLIED BY DEMOUNTABLE PARTITION SUPPLIER.
2. FILM IS TO BE INSTALLED ON THE INTERIOR SIDE OF GLASS.
3. ALL GLAZING PANELS ARE TO HAVE FILM INSTALLED, EXCLUDING D-25A.
4. FOR INSTALLATION DETAILS ON WINDOW FILM APPLIED TO GLAZING SUPPLIED BY THE CONTRACTOR, REFER TO FLM-1 SAMPLE SIDELIGHT APPLICATION B.
5. FOR INSTALLATION DETAILS ON WINDOW FILM APPLIED TO GLAZING SUPPLIED BY THE DEMOUNTABLE PARTITION SYSTEM, REFER TO FLM-1 SAMPLE SIDELIGHT APPLICATION A.
6. THE FILM PATTERN OF FLM-1 SHOULD START FROM THE CENTER OF THE SIDELIGHT PANEL.

FLM-1 GRADIENT FROSTED FILM, WITH FULL WHITE OPACITY
IN CENTER AND GRADIENT TO CLEAR ON TOP AND BOTTOM.
REFER TO FINISHES SCHEDULE FOR SPECIFICATIONS

2 GLAZING ELEVATION B
A-300 SCALE = 1/2" = 1'-0"



3 GLAZING ELEVATION C
A--300 SCALE = 1/2" = 1'-0"



4 GLAZING ELEVATION D

A-300 SCALE = 1/2" = 1'-0"

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS -
TEMPRANO & YOUNG ARCHITECTS INC.
COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/ OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

P R
T Y **PYE & RICHARDS -
TEMPRANO & YOUNG
ARCHITECTS INC.**

824 Meath St. Suite 200
Ottawa, ON K1Z 6E8

PROJECT

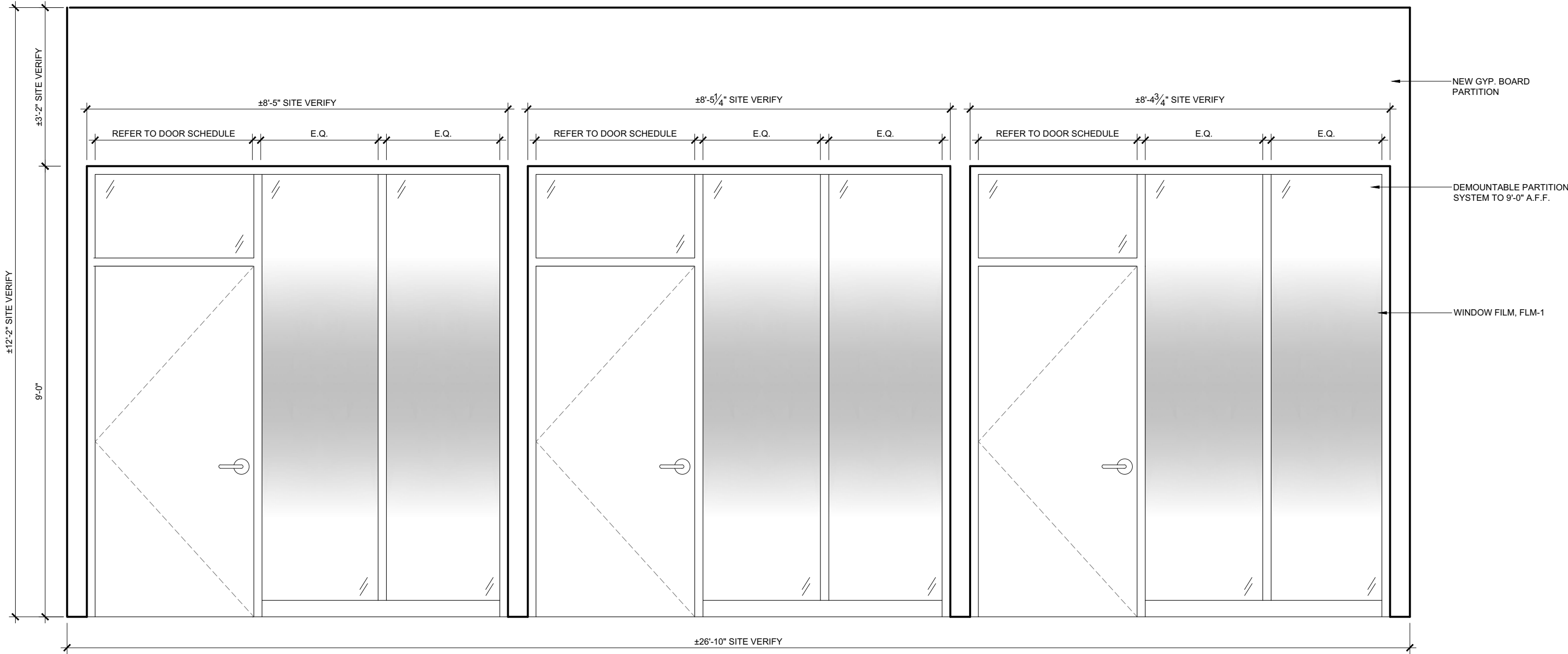
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

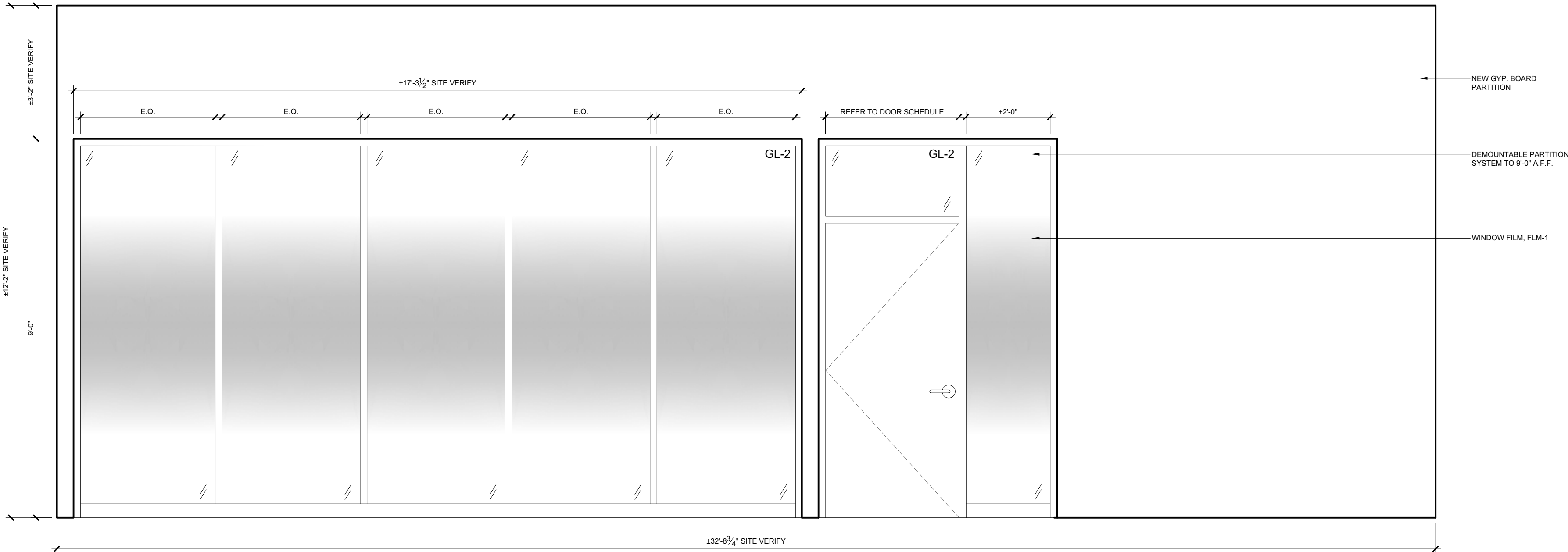
WASHROOM PLANS & ELEVATIONS

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/2" = 1'-0"	A-300
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	PLOTTED BY:

A-300



1 GLAZING ELEVATION E
A--301 SCALE = 1/2" = 1'-0"



2 GLAZING ELEVATION F
A--301 SCALE = 1/2" = 1'-0"

GLAZING LEGEND

- GL-1 DOUBLE PANE, 6MM TEMPERED GLASS SUPPLIED AND INSTALLED BY CONTRACTOR
GL-2 DOUBLE PANE, 6MM CLEAR TEMPERED GLASS SUPPLIED AND INSTALLED BY THE DEMOUNTABLE PARTITION SUPPLIER.

WINDOW FILM LEGEND

- GENERAL NOTES:
1. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING AND INSTALLING WINDOW FILM FOR ALL GLAZING TYPES, INCLUDING THOSE SUPPLIED BY DEMOUNTABLE PARTITION SUPPLIER.
2. FILM IS TO BE INSTALLED ON THE INTERIOR SIDE OF GLASS.
3. ALL GLAZING PANELS ARE TO HAVE FILM INSTALLED, EXCLUDING D-225A.
4. FOR INSTALLATION DETAILS ON WINDOW FILM APPLIED TO GLAZING SUPPLIED BY THE CONTRACTOR, REFER TO FLM-1 SAMPLE SIDELIGHT APPLICATION B.
5. FOR INSTALLATION DETAILS ON WINDOW FILM APPLIED TO GLAZING SUPPLIED BY THE DEMOUNTABLE PARTITION SYSTEM, REFER TO FLM-1 SAMPLE SIDELIGHT APPLICATION A.
6. THE FILM PATTERN OF FLM-1 SHOULD START FROM THE CENTER OF THE SIDELIGHT PANEL.

- FLM-1 GRADIENT FROSTED FILM, WITH FULL WHITE OPACITY IN CENTER AND GRADIENT TO CLEAR ON TOP AND BOTTOM. REFER TO FINISHES SCHEDULE FOR SPECIFICATIONS



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023

REV.	DESCRIPTION	DATE
------	-------------	------

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/ OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
Not for construction unless SEALED and SIGNED	

P

R

T

Y

PYE & RICHARDS -

TEMPRANO & YOUNG

ARCHITECTS INC.

824 Meath St. Suite 200

Ottawa, ON K1Z 6E8

613. 724. 7700

info@prty.ca

PROJECT

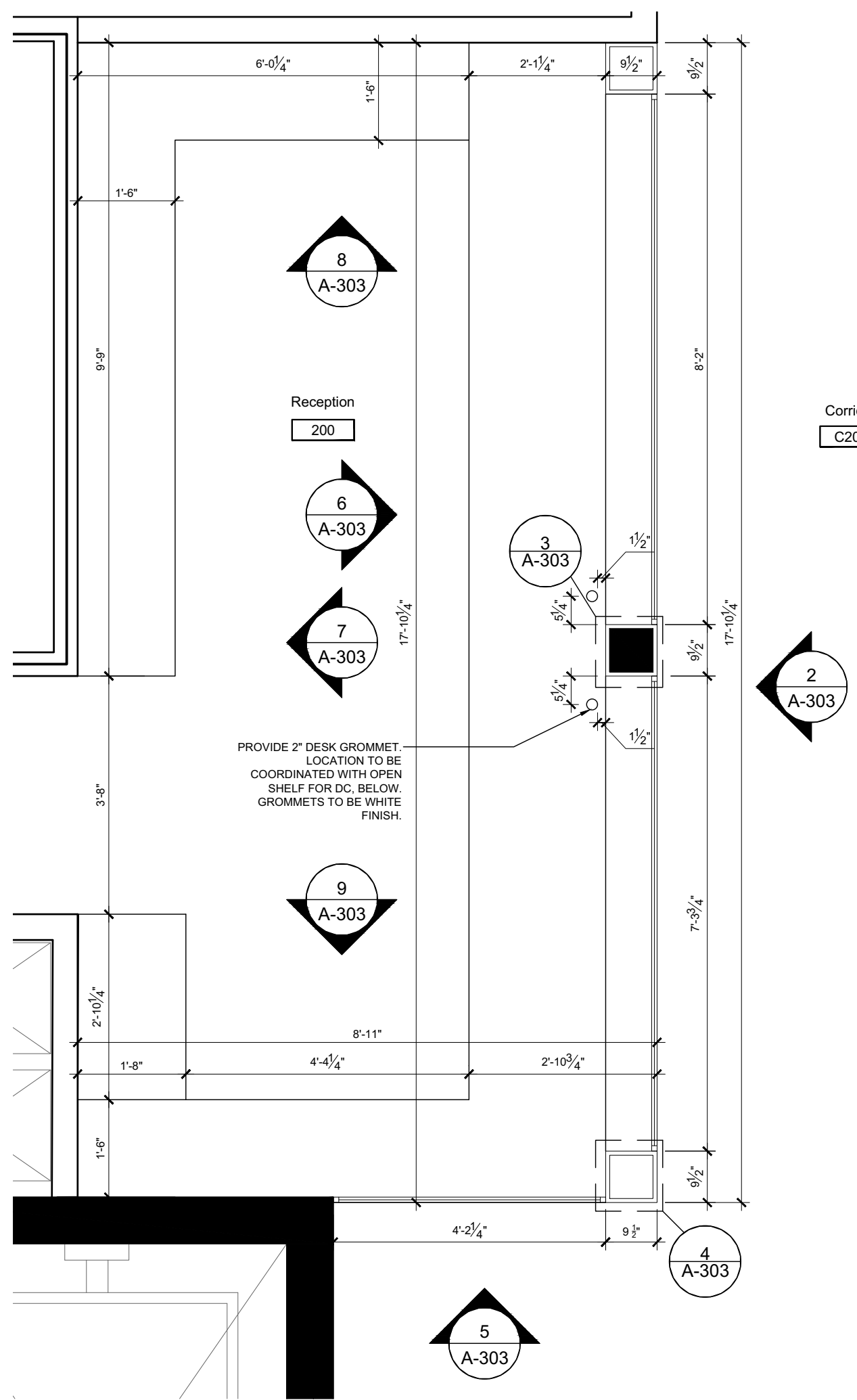
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET
CASSELMAN, ON

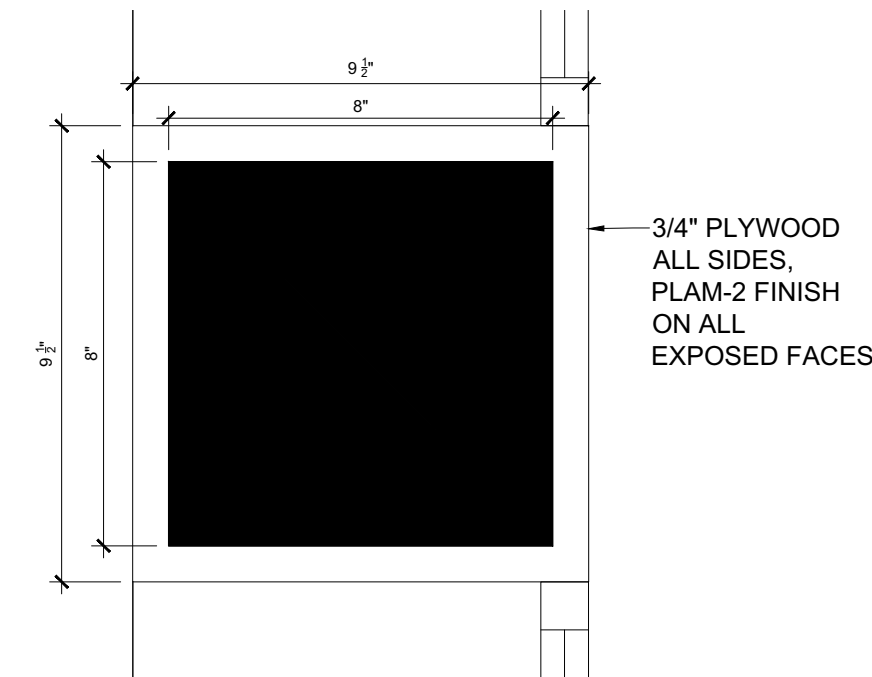
DRAWING

WASHROOM PLANS & ELEVATIONS

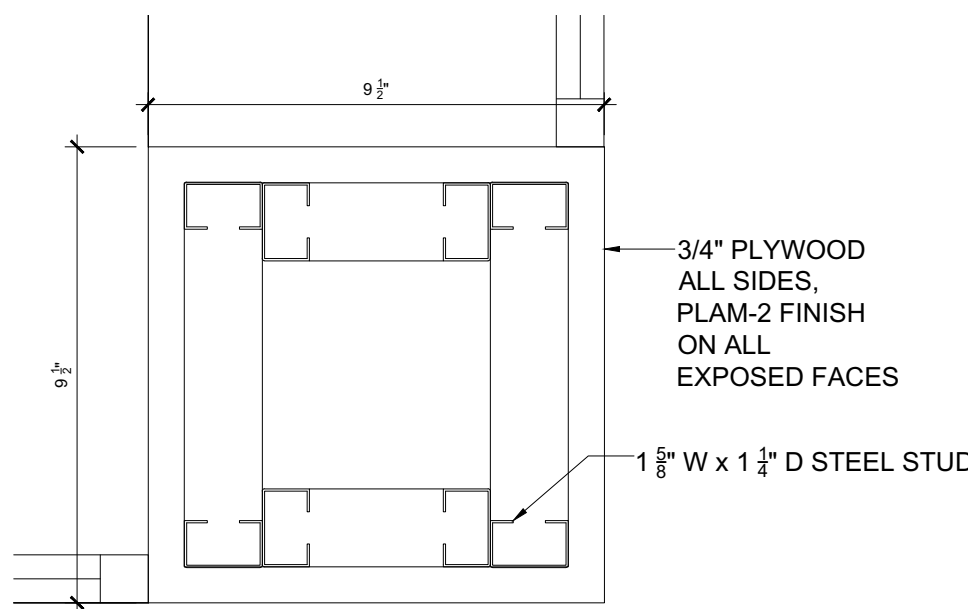
PROJECT NO.	22045	DRAWING NO.
SCALE -	1/2" = 1'-0"	A-301
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	
		PLOTTED BY:



1 RECEPTION AREA - FLOOR PLAN
SCALE = 1/2" = 1'-0"



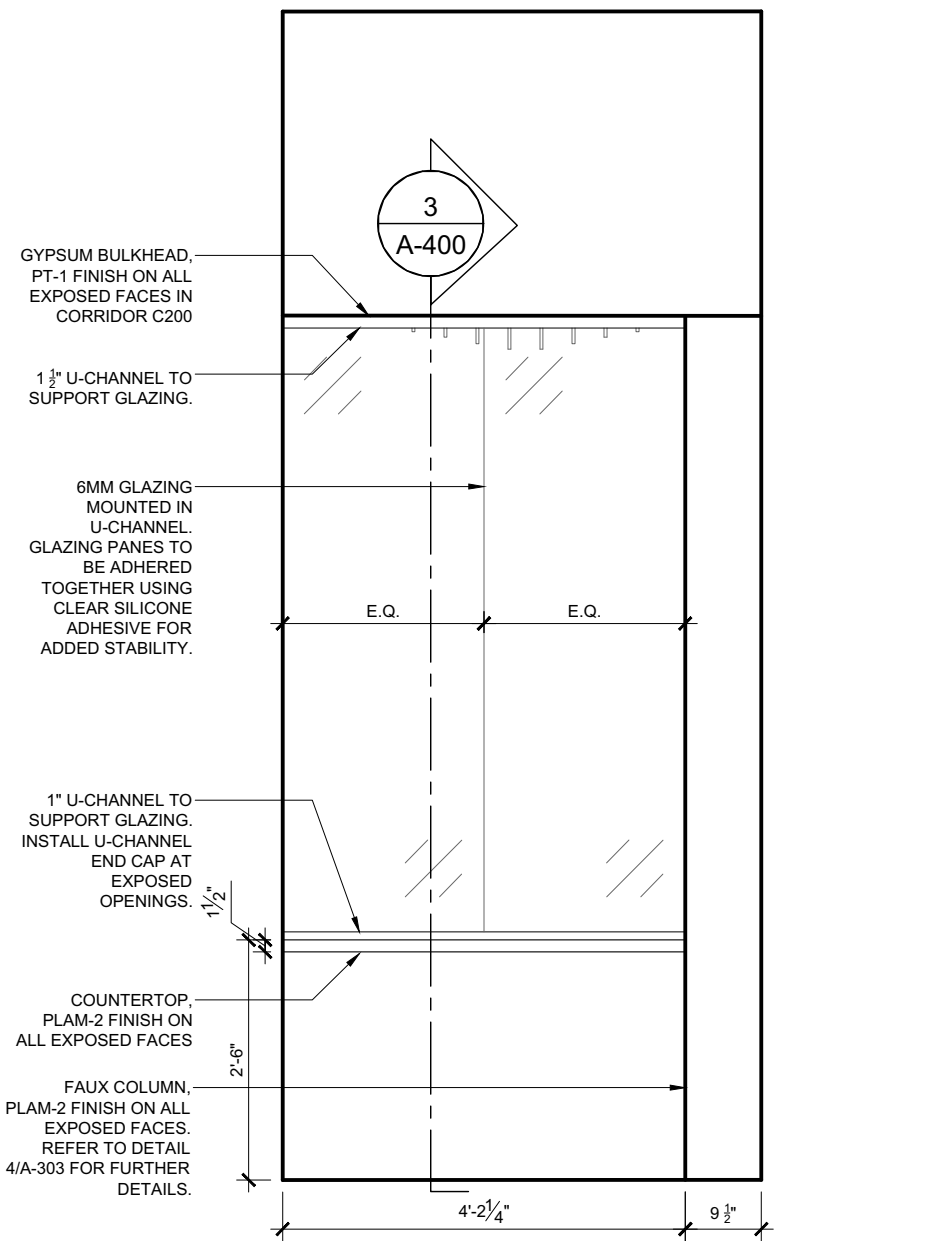
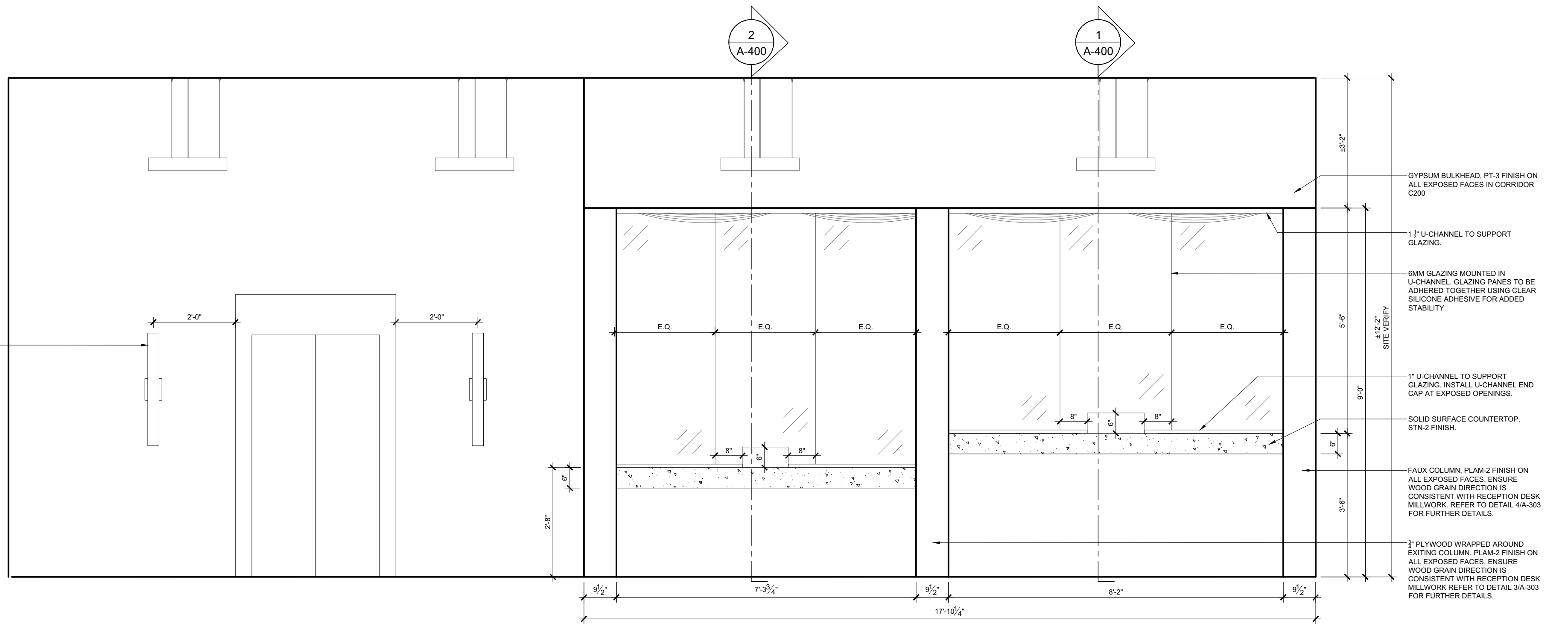
3 RECEPTION - COLUMN DETAIL
SCALE = 3" = 1'-0"



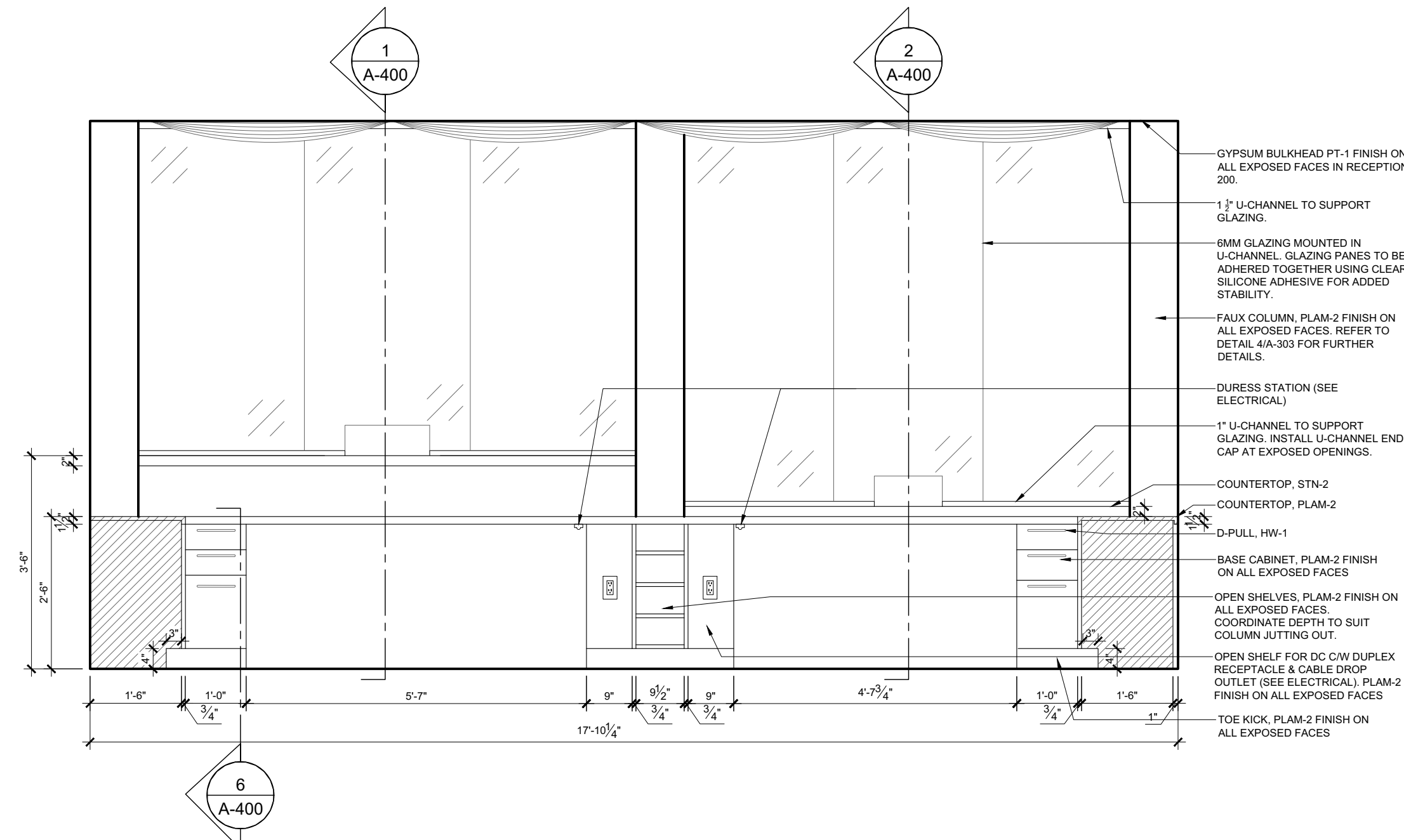
4 RECEPTION - COLUMN DETAIL
SCALE = 3" = 1'-0"

2 ELEVATION A - RECEPTION DESK
SCALE = 1/2" = 1'-0"

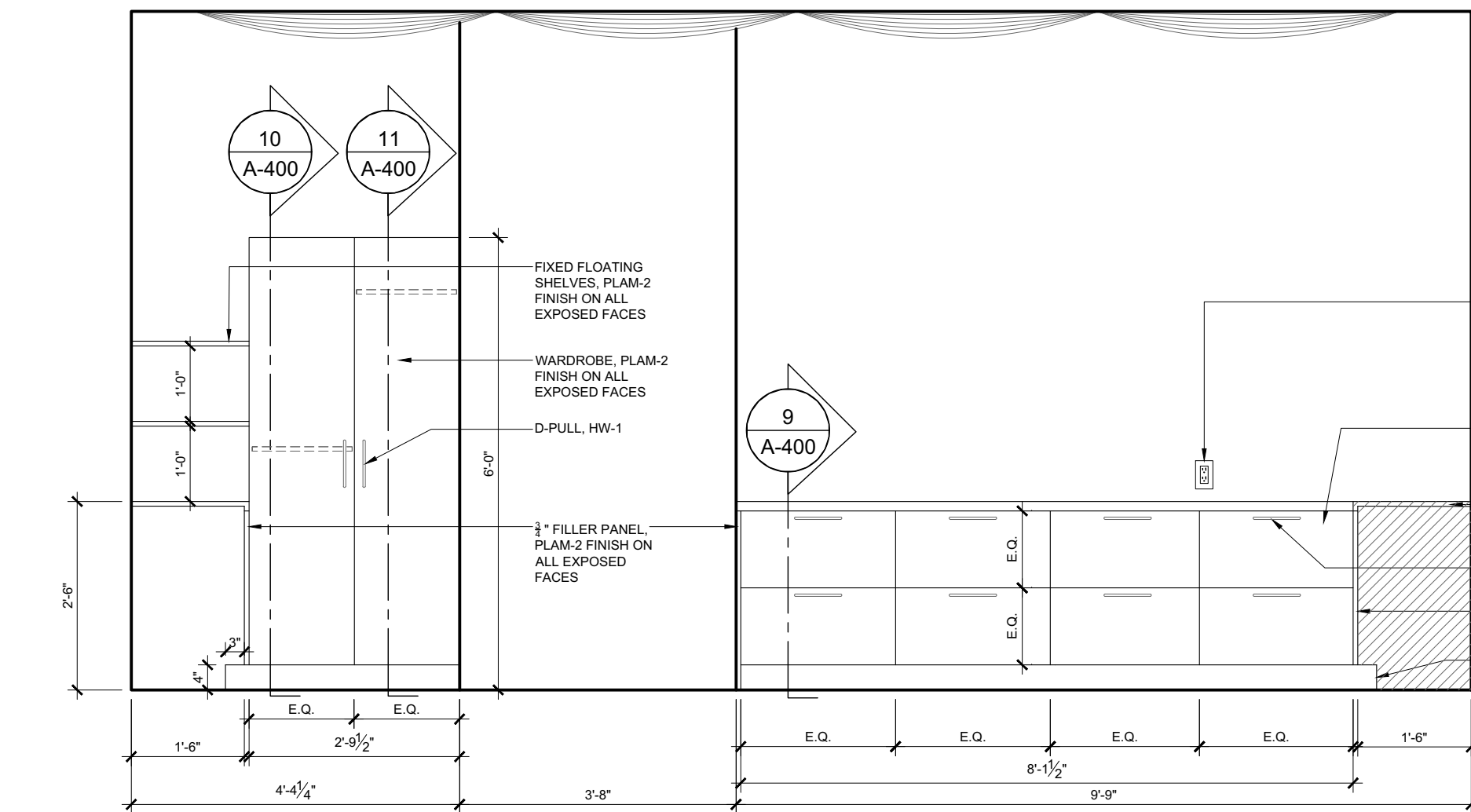
NEW LED WALL MOUNTED LIGHT FIXTURE TO BE INSTALLED (SEE ELECTRICAL)



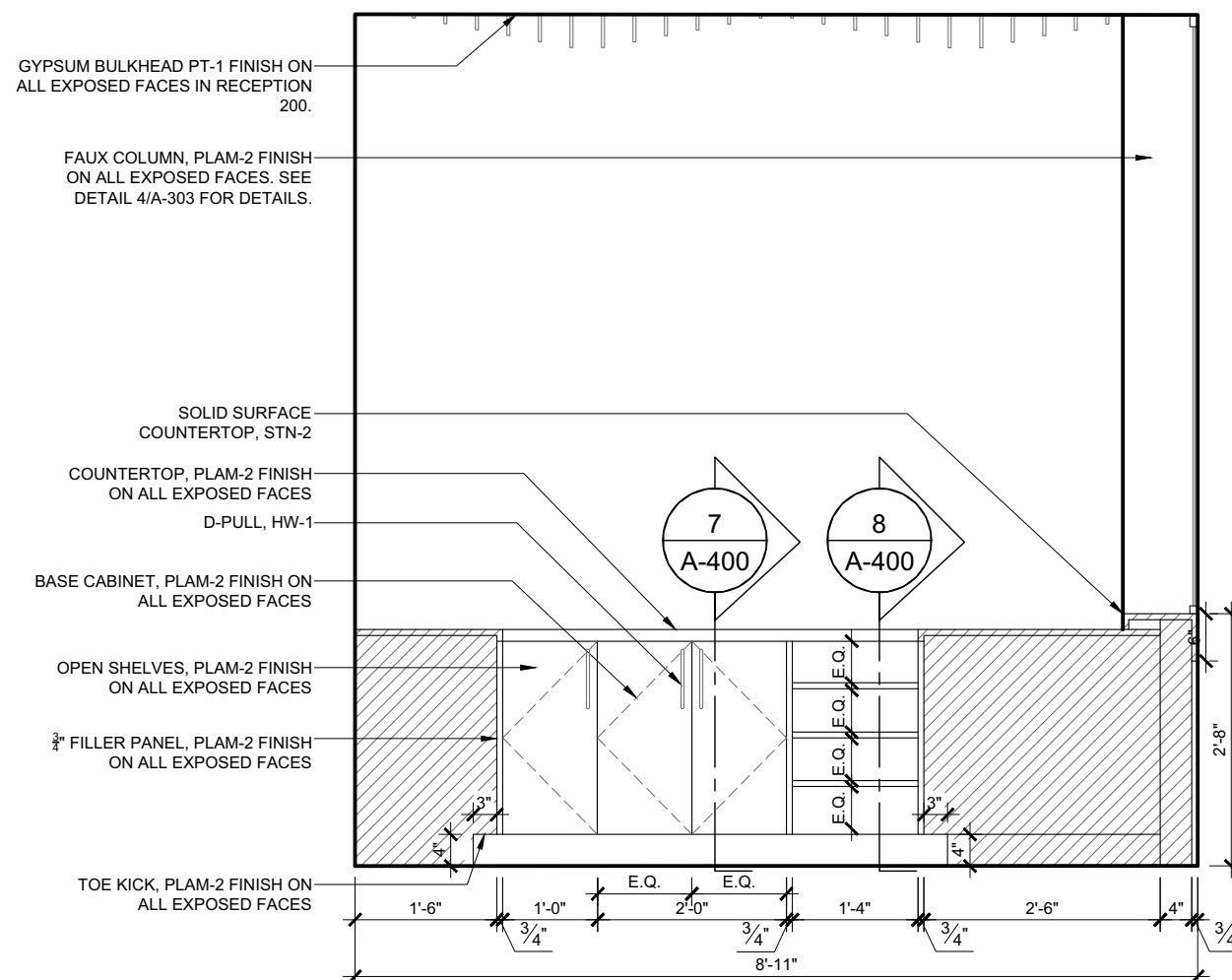
5 ELEVATION B - RECEPTION DESK
SCALE = 1/2" = 1'-0"



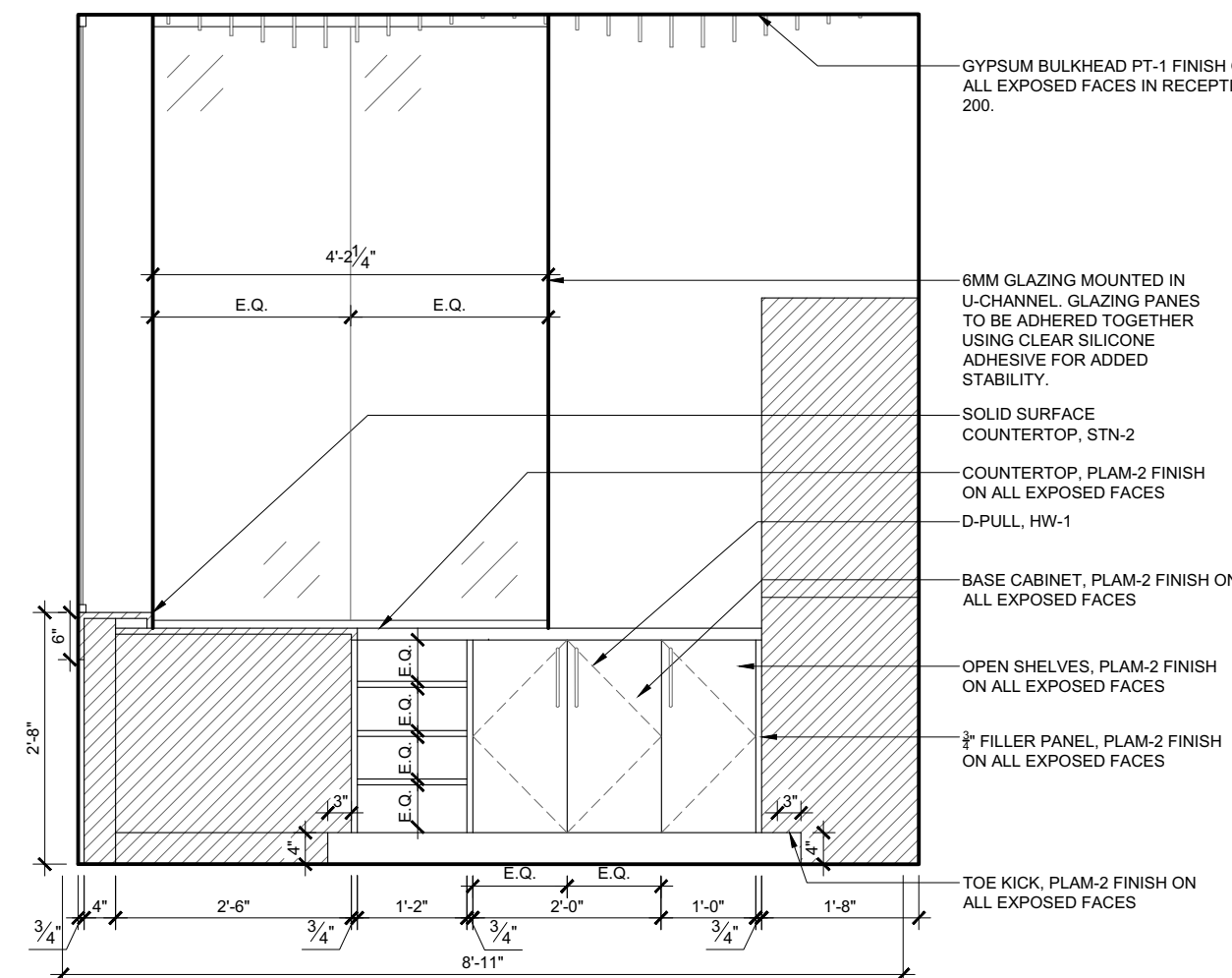
6 ELEVATION F - RECEPTION DESK
SCALE = 1/2" = 1'-0"



7 ELEVATION E - RECEPTION DESK
SCALE = 1/2" = 1'-0"



8 ELEVATION C - RECEPTION DESK
SCALE = 1/2" = 1'-0"



9 ELEVATION D - RECEPTION DESK
SCALE = 1/2" = 1'-0"



REV.	DESCRIPTION	DATE
04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

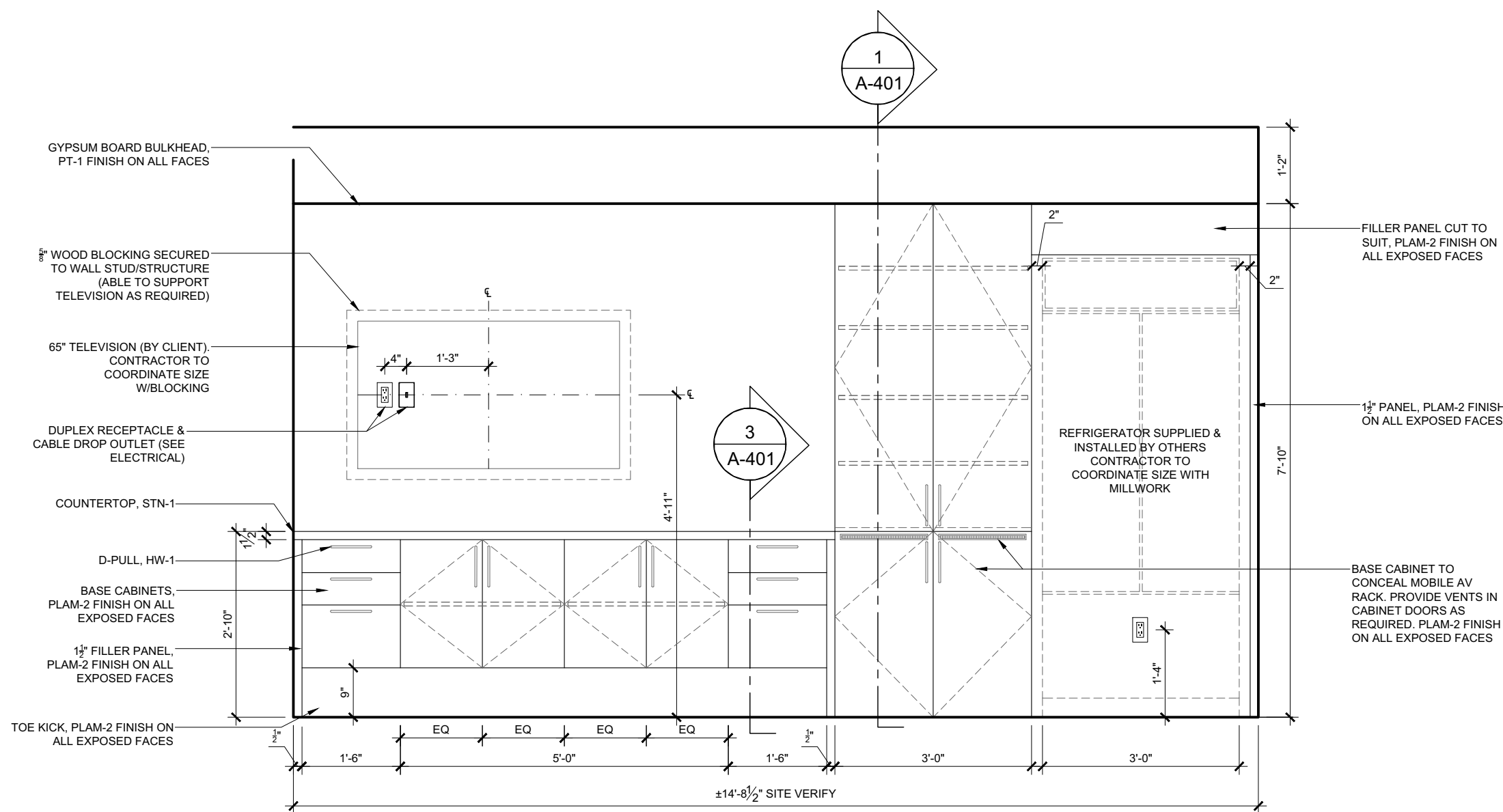
1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

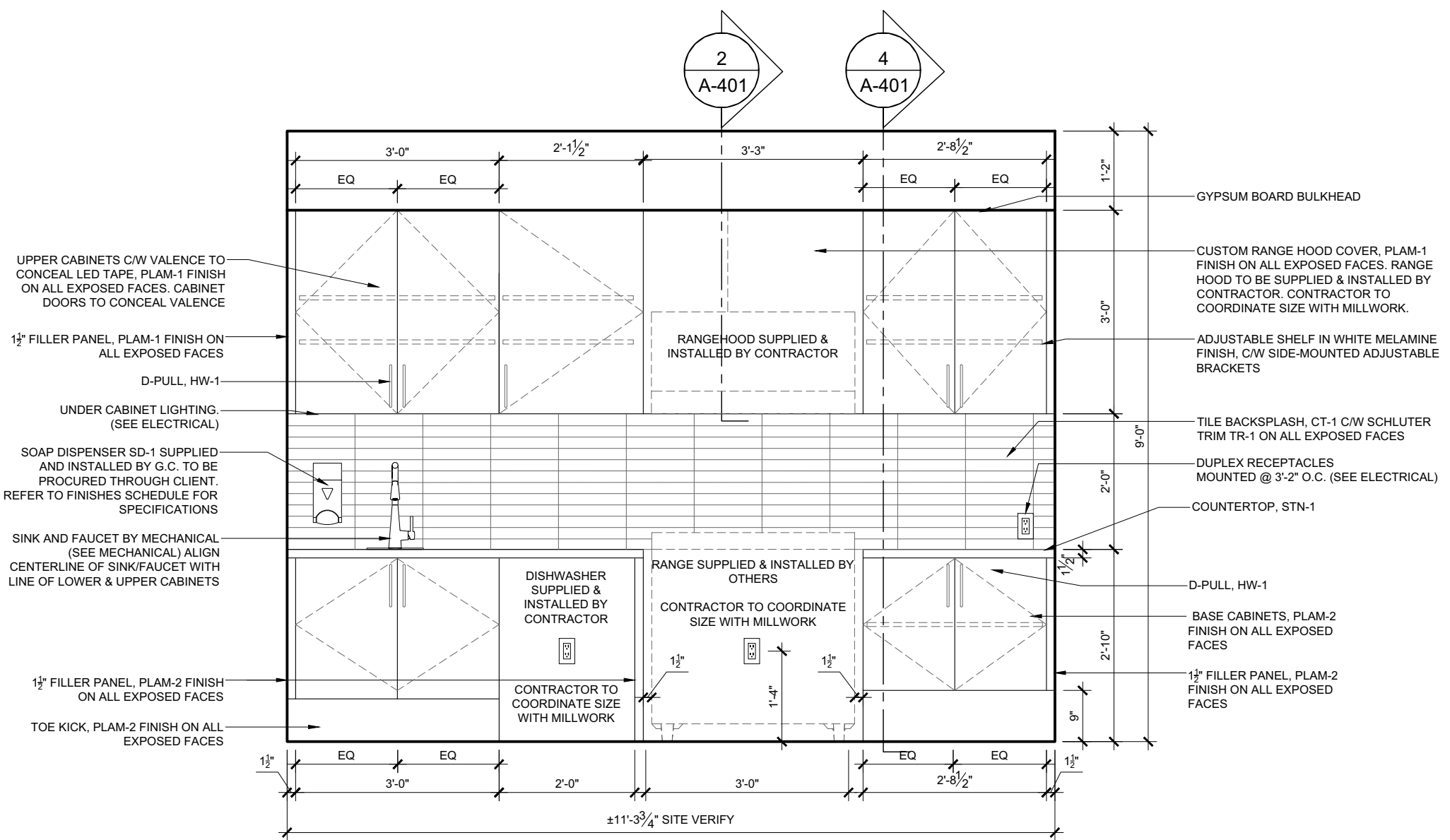
CUSTOM MILLWORK PLANS,
ELEVATIONS & DETAILS

PROJECT NO.	22045	DRAWING NO.	
SCALE -	1/2" = 1'-0"		
DRAWN -	MH		
CHECKED -	KB		
PLOT DATE -	24/03/2025	PLOTTED BY:	

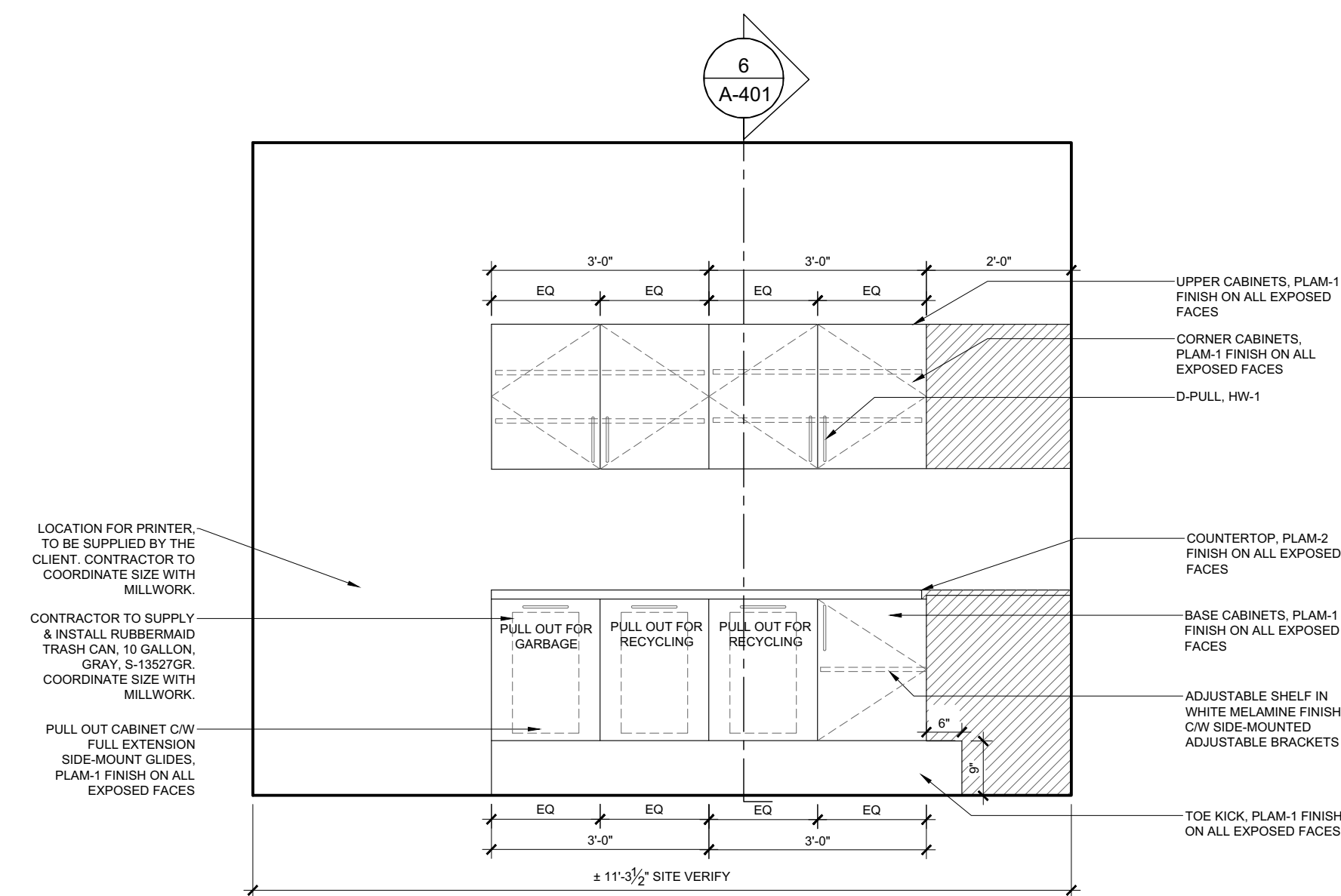
A-303



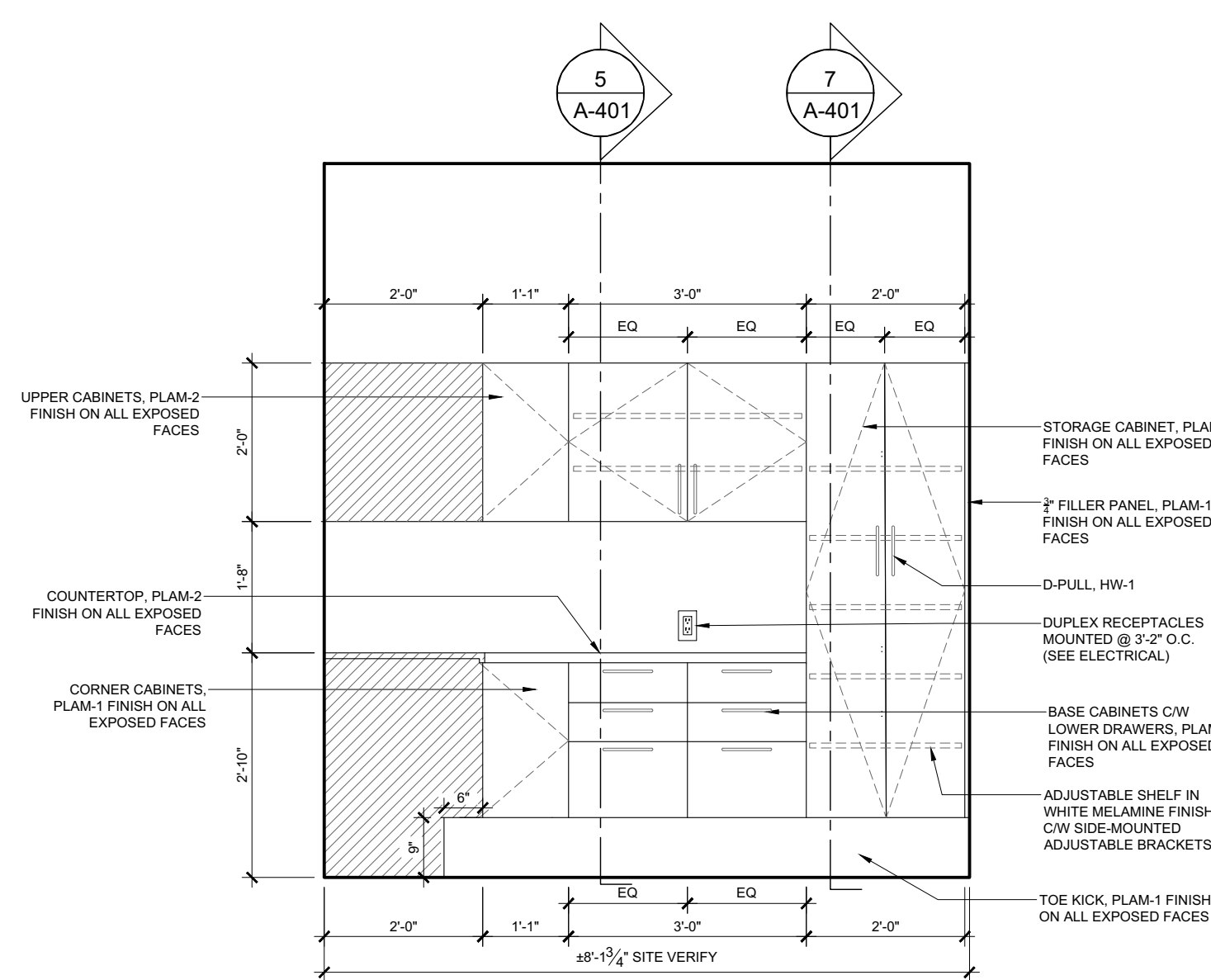
1 LARGE MEETING ROOM 222 - ELEVATION A
A-305 SCALE = 1/2" = 1'-0"



2 LARGE MEETING ROOM 222 - ELEVATION B
A-305 SCALE = 1/2" = 1'-0"



3 PRINT & STORAGE ROOM 202 - ELEVATION A
A-305 SCALE = 1/2" = 1'-0"



4 PRINT & STORAGE ROOM 202 - ELEVATION B
A-305 SCALE = 1/2" = 1'-0"

MILLWORK GENERAL NOTES

- THE CONTRACTOR IS TO REFER TO AND CROSS-REFERENCE NOTES, CONSTRUCTION PLANS AND DETAILS FOR MILLWORK LOCATIONS, INSTALLATION, CONSTRUCTION, AND FINISHING.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
- ALL DIMENSIONS ARE TO BE SITE CONFIRMED AND VERIFIED AGAINST THE DRAWINGS.
- THE CONTRACTOR IS TO CONFIRM THE ELEVATOR DOOR WIDTHS AND CAB DIMENSIONS, STAIRWELLS AND RELEVANT DOOR WIDTHS TO ENSURE THAT ALL MILLWORK COMPONENTS MAY BE DELIVERED AND INSTALLED.
- WHERE UPPER UNITS ARE TO BE INSTALLED ENSURE THAT THE NEW OR EXISTING PARTITION CONSTRUCTION ARE ADEQUATELY REINFORCED

MILLWORK CONSTRUCTION QUALITY NOTES

- IT IS INTENDED THAT ALL ARCHITECTURAL WOODWORK SPECIFIED IS TO MEET A.W.M.A.C. QUALITY STANDARDS AND SHALL CONFIRM TO THE GENERALLY ACCEPTED DEFINITIONS OF GOOD WORKMANSHIP, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - THE WORK SHALL BE FABRICATED AND INSTALLED SQUARE, LEVEL, PLUMB AND STRAIGHT, AND TO THE REQUIRED LINES AND LEVEL.
 - THE WORK SHALL BE NEATLY SCRIBED TO ADJOINING SURFACES, WITH MINIMUM CLEARANCES.
 - EXPOSED JOINTS SHALL BE NEATLY EXECUTED, RIGID, TIGHT AND FLUSH WITH NO TOOL, MACHINE OR CROSS SANDING MARKS.
 - PLASTIC LAMINATE SHALL BE APPLIED TO TOPS ENDS AND OTHER SURFACES SPECIFIED AND STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. ALL JOINTS SHALL BE TIGHT AND FLUSH; INNER CORNERS LIGHTLY RADIUSSED; EDGES BEVELED AND SMOOTHLY FILED OR SANDED WITH NO CHIPPING OR WEARING THROUGH OF SURFACE FINISH.
 - FASTENINGS SHALL BE CONCEALED WHEREVER POSSIBLE.
 - LAMINATE OR MELAMINE SHELVES ARE TO BE OF SEAMLESS CONSTRUCTION WITH MITRED JOINTS. BALANCE SHEETS AS REQUIRED, AS REQUIRED.

MILLWORK CABINETRY NOTES

- THE CONTRACTOR IS TO SUBMIT CUTS OF ALL HARDWARE SPECIFIED FOR APPROVAL.
- ALL CABINETRY UNITS ARE TO TAKE QUALITY LEVELERS AND GLIDES TO SUIT.
 - ALL CABINETS TO TAKE SOCKETS AND SUPPORTS AS SPECIFIED; INSTALL FOUR (4) PER SHELF SPACED AT 76.2 MM (3") BEGINNING 152.4 MM (6") FROM THE BASE.
 - DOOR AND DRAWER HARDWARE HINGES AND CATCHES AS SPECIFIED. CABINET DOORS TO HAVE HEAVY DUTY, SELF CLOSING HINGES.
 - ALL MILLWORK TO HAVE CONCEALED FASTENERS.
 - PULLS TO BE EQUIVALENT TO:
- SURFACES TO BE CONSTRUCTED AS NOTED:
 - CABINETRY SHELVING TO BE FIXED OR ADJUSTABLE AS SHOWN ON THE DETAILS.
 - PARTICLE BOARD CONSTRUCTION AND ALL SHELVING TO TAKE A 12.7 MM (1/2") HARDWOOD NOSING ON SUBSTRATE.
 - TOE SPACE: 3/4" - PRE-FINISHED PARTICLE BOARD OR SIMILAR. FINISH AS NOTED. SURFACE MOUNTED BASEBOARD IS TO BE APPLIED TO ALL EXPOSED MILLWORK BASES, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. INSTALL FINISHING BASEBOARD ONLY AFTER INSTALLATION AND LEVELING OF THE MILLWORK UNIT IS COMPLETED.
 - DOOR AND DRAWER FRONTS ARE TO BE CONSTRUCTED OF 15.9 MM (5/8") KILN-DRIED FIR PLYWOOD TO TAKE 1-1/2" SELF- EDGED FRONT APRON (EDGE). PLASTIC LAMINATE FINISH AS SPECIFIED.
 - DOOR AND DRAWER FRONTS ARE TO BE RECESSED A MINIMUM OF 1.6 MM (1/16").
 - COUNTER TOPS, AND SPLASH BACKS AS APPLICABLE, ARE TO BE CONSTRUCTED OF 19.05 MM (3/4") PARTICLE BOARD OR SIMILAR (NO ADDED UREA FORMALDEHYDE). FINISH AS NOTED: 1-1/2" SELF- EDGED FRONT APRON (EDGE). PLASTIC LAMINATE FINISH AS SPECIFIED.
 - ALL CABINET INTERIORS ARE TO BE OF GABLE CONSTRUCTION OF 19.05 MM (3/4") PARTICLE BOARD OR SIMILAR (NO ADDED UREA FORMALDEHYDE). PLASTIC LAMINATE FINISH AS SPECIFIED.
 - CONTRACTOR TO S/I FULL GABLES AT END OF UNIT FOR STABILITY. GABLE FINISH TO MATCH CUPBOARD DOORS.
- CONTRACTOR TO S/I BLOCKING AS REQUIRED.
- REFER TO ENGINEER'S DRAWINGS FOR DETAILS ON PLUMBING FIXTURES & EQUIPMENT AND ELECTRICAL CONNECTIONS.



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
Not for construction unless SEALED and SIGNED	

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

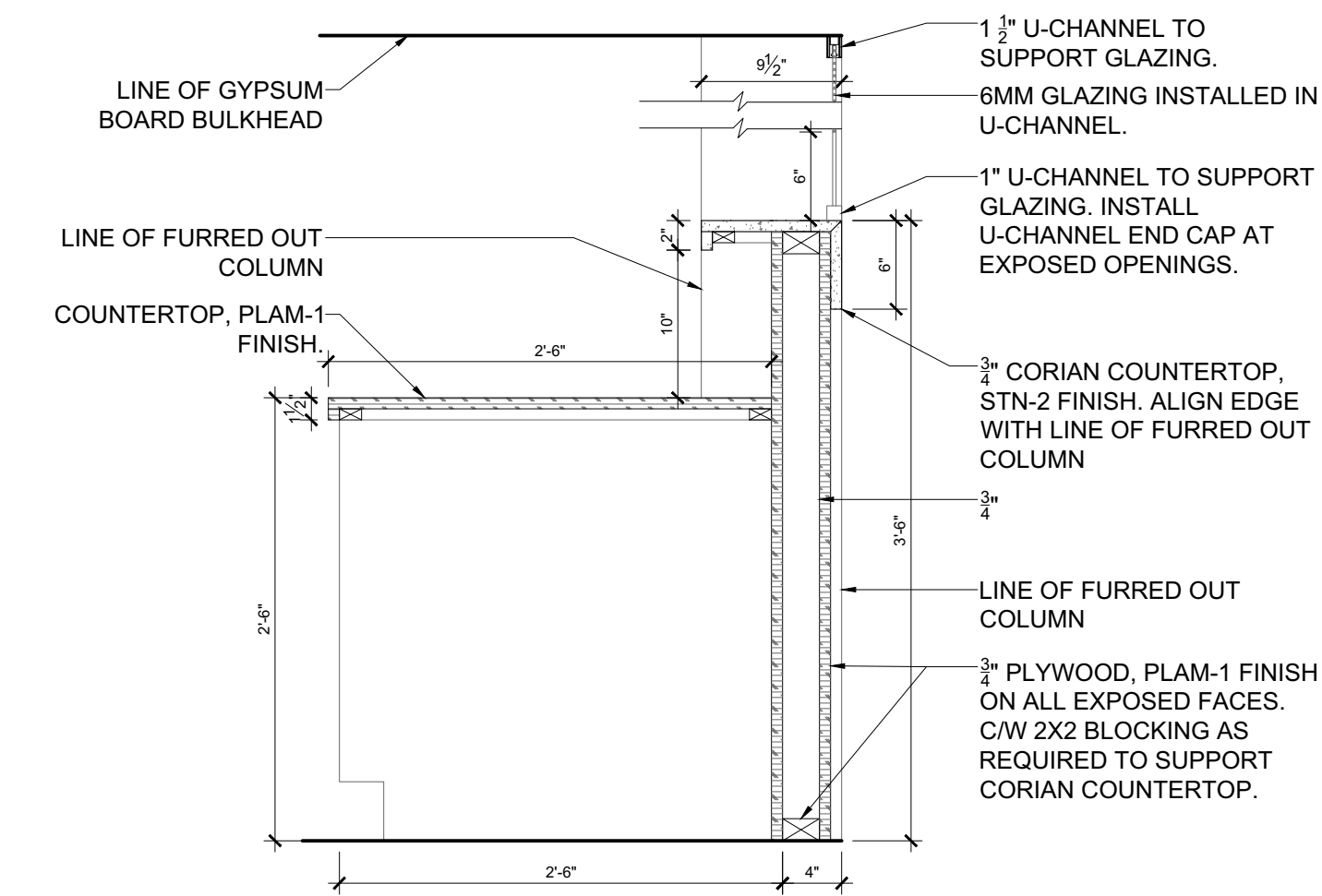
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

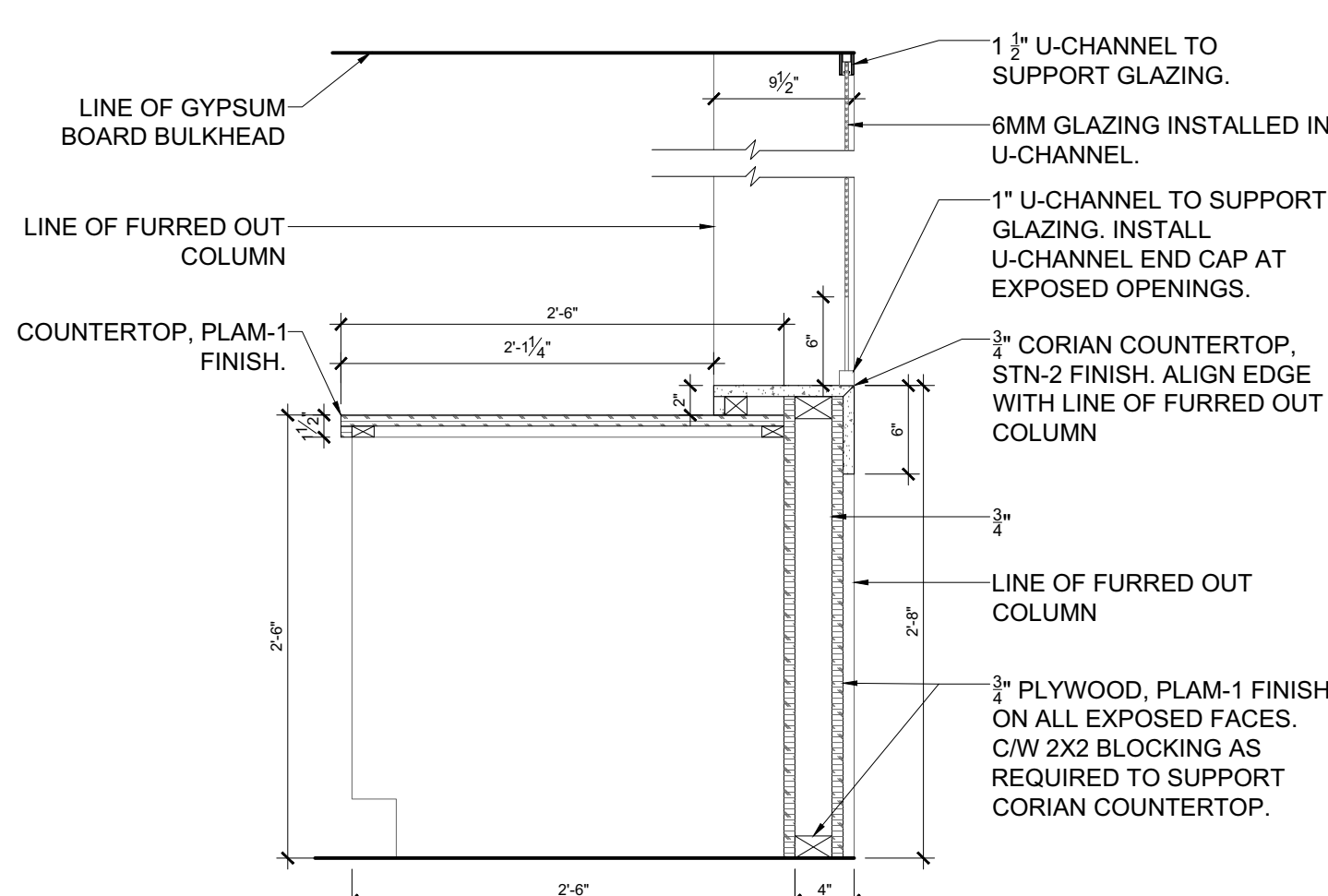
DRAWING

MILLWORK ELEVATIONS

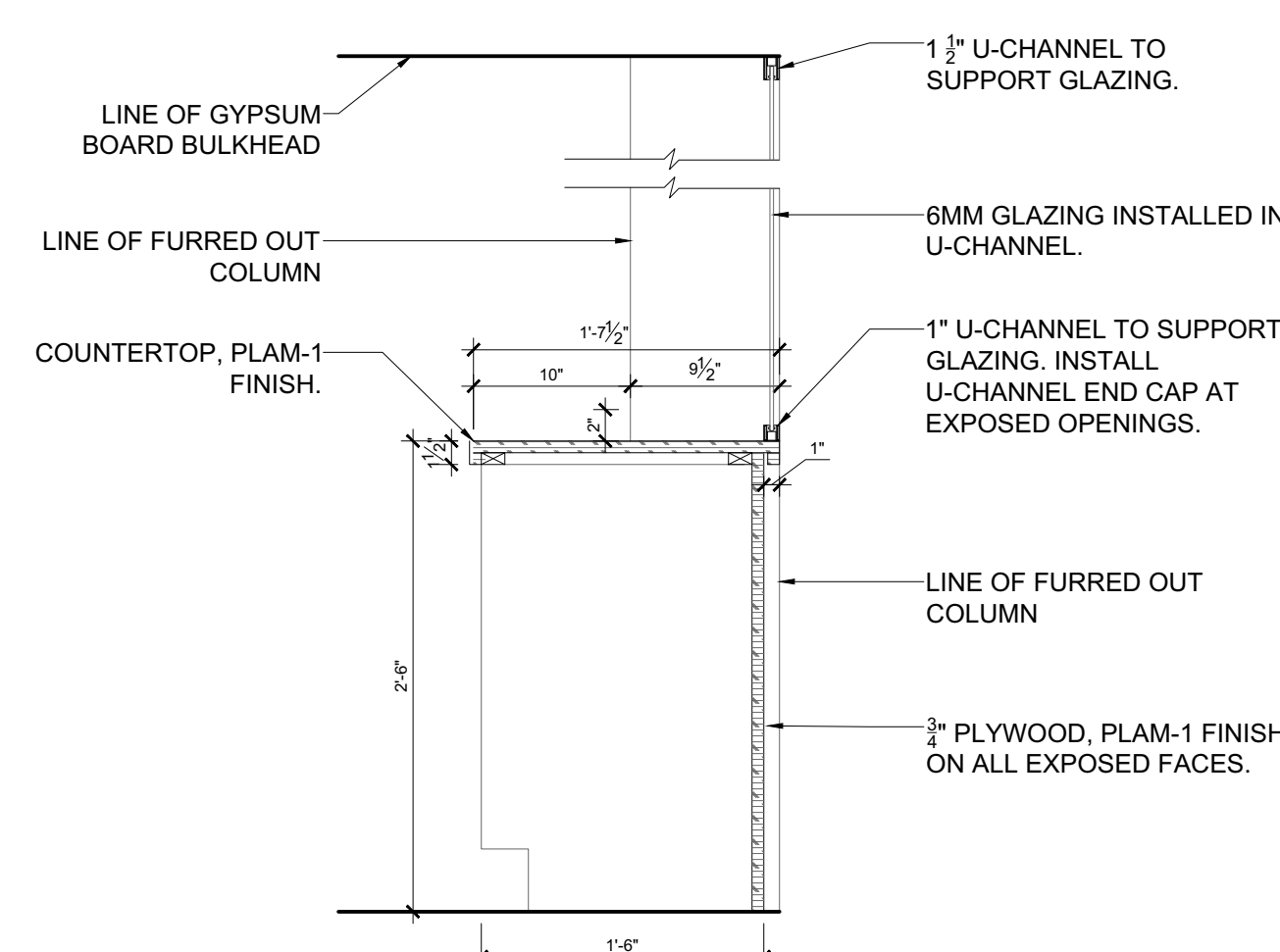
PROJECT NO.	22045	DRAWING NO.
SCALE -	1/2" = 1'-0"	A-305
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	
		PLOTTED BY:



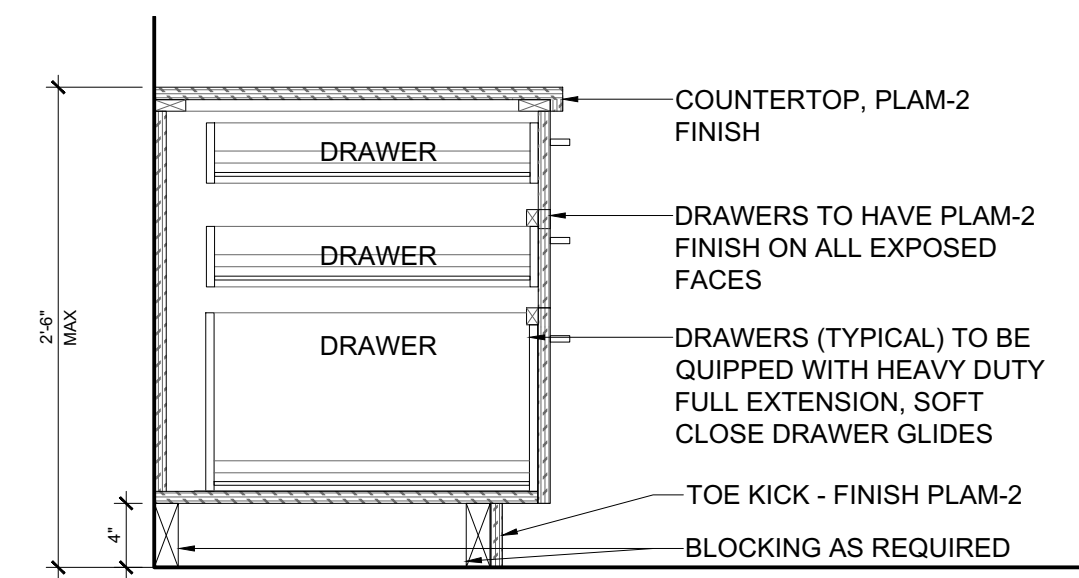
1
A-400
RECEPTION 200
MILLWORK SECTION @ UPPER TRANSACTION SURFACE
SCALE = 1" = 1'-0"



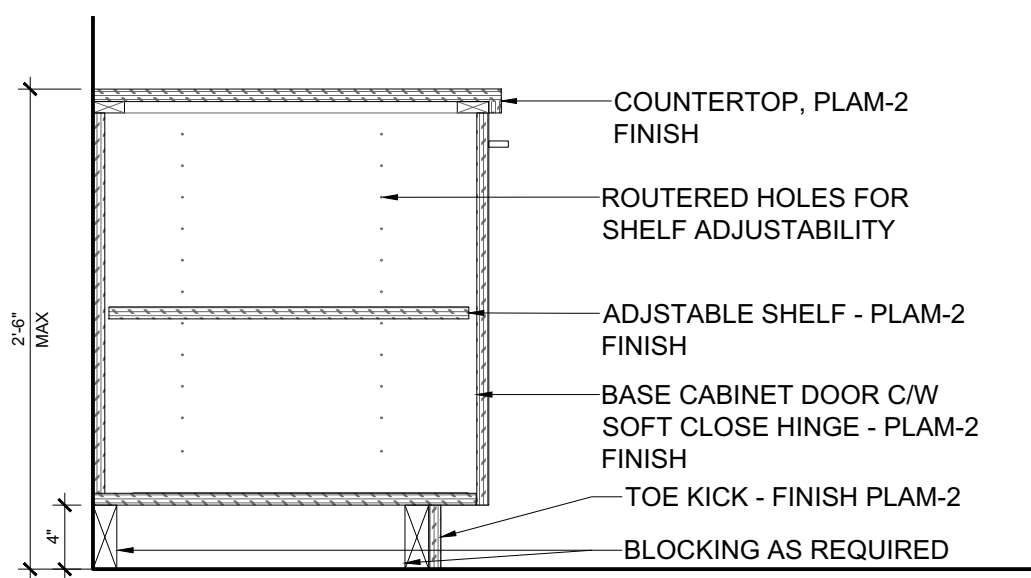
4
A-400
RECEPTION 200
MILLWORK SECTION @ LOWER TRANSACTION SURFACE
SCALE = 1" = 1'-0"



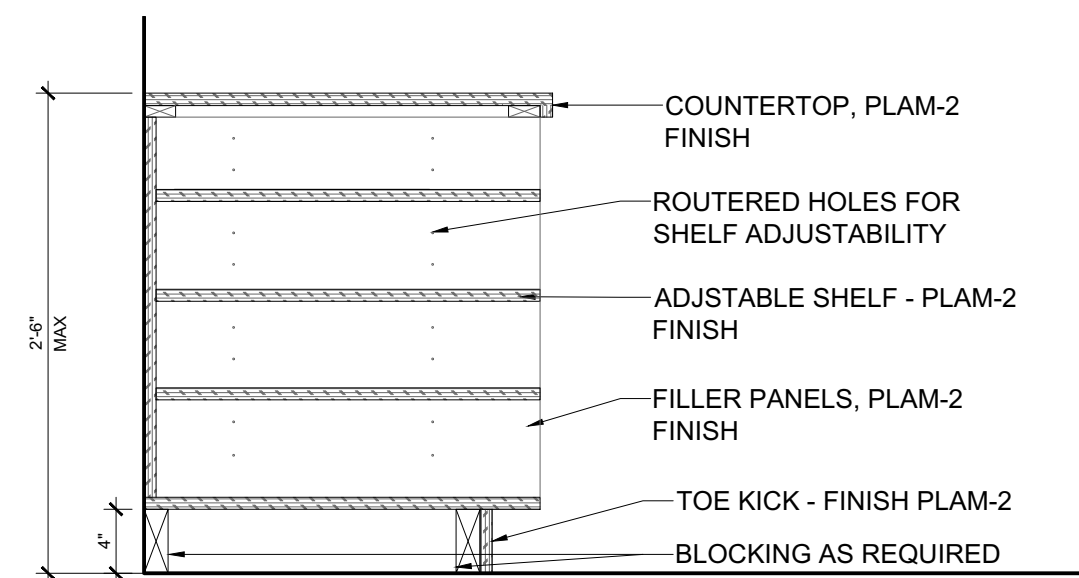
5
A-400
RECEPTION 200
MILLWORK SECTION @ COUNTER
SCALE = 1" = 1'-0"



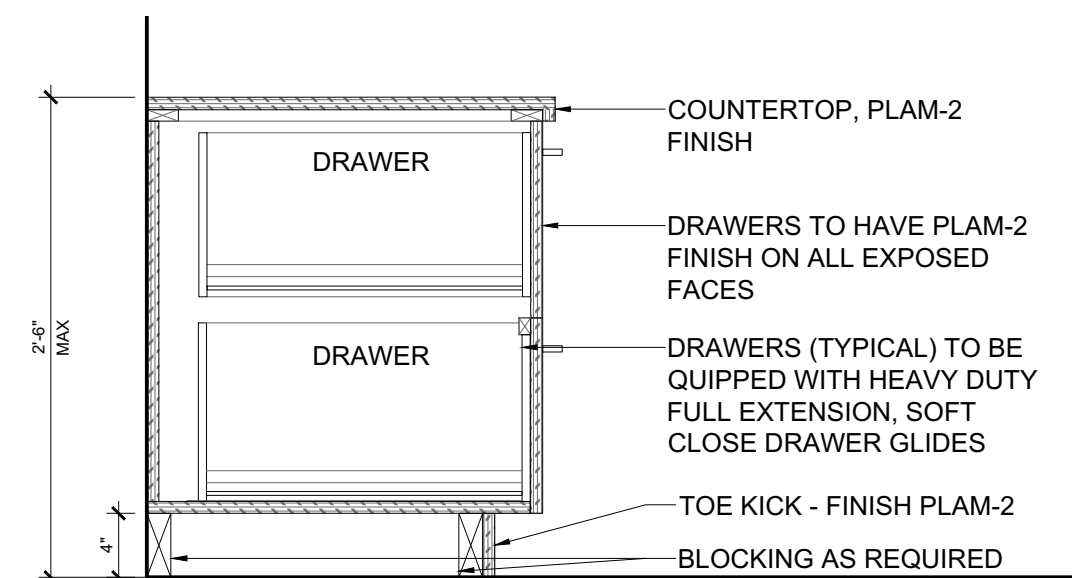
6
A-400
RECEPTION 200
MILLWORK SECTION @ DRAWERS
SCALE = 1" = 1'-0"



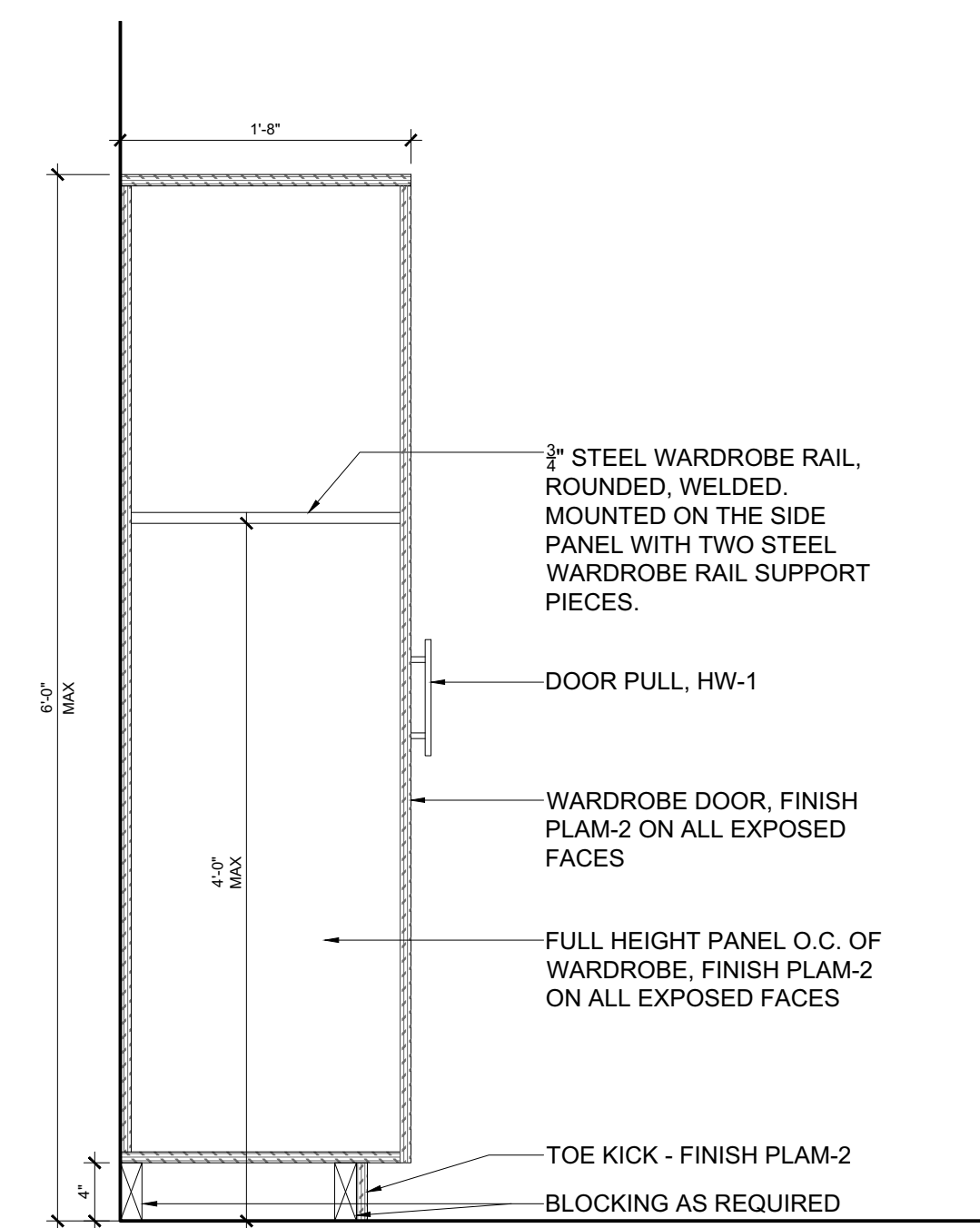
7
A-400
RECEPTION 200
MILLWORK SECTION @ CABINETS
SCALE = 1" = 1'-0"



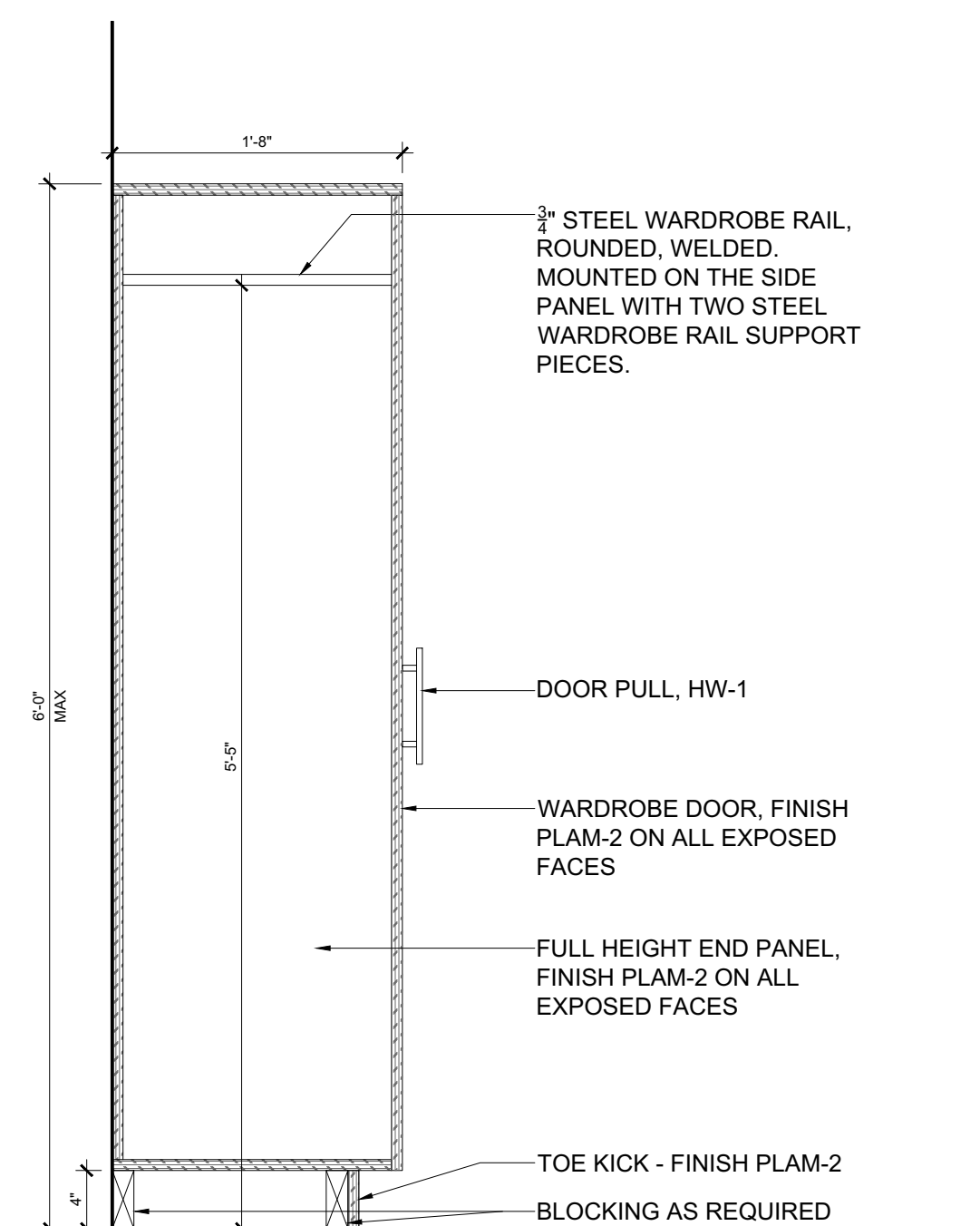
8
A-400
RECEPTION 200
MILLWORK SECTION @ OPEN SHELVES
SCALE = 1" = 1'-0"



9
A-400
RECEPTION 200
MILLWORK SECTION @ FILING CABINETS
SCALE = 1" = 1'-0"



10
A-400
RECEPTION 200
MILLWORK SECTION @ WARDROBE
SCALE = 1" = 1'-0"



11
A-400
RECEPTION 200
MILLWORK SECTION @ WARDROBE
SCALE = 1" = 1'-0"

MILLWORK GENERAL NOTES

- THE CONTRACTOR IS TO REFER TO AND CROSS-REFERENCE NOTES, CONSTRUCTION PLANS AND DETAILS FOR MILLWORK LOCATIONS, INSTALLATION, CONSTRUCTION, AND FINISHING.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
- ALL DIMENSIONS ARE TO BE SITE CONFIRMED AND VERIFIED AGAINST THE DRAWINGS.
- THE CONTRACTOR IS TO CONFIRM THE ELEVATOR DOOR WIDTHS AND CAB DIMENSIONS, STAIRWELLS AND RELEVANT DOOR WIDTHS TO ENSURE THAT ALL MILLWORK COMPONENTS MAY BE DELIVERED AND INSTALLED.
- WHERE UPPER UNITS ARE TO BE INSTALLED ENSURE THAT THE NEW OR EXISTING PARTITION CONSTRUCTION ARE ADEQUATELY REINFORCED

MILLWORK CONSTRUCTION QUALITY NOTES

- IT IS INTENDED THAT ALL ARCHITECTURAL WOODWORK SPECIFIED IS TO MEET A.W.M.A.C. QUALITY STANDARDS AND SHALL CONFIRM TO THE GENERALLY ACCEPTED DEFINITIONS OF GOOD WORKMANSHIP, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - THE WORK SHALL BE FABRICATED AND INSTALLED SQUARE, LEVEL, PLUMB AND STRAIGHT, AND TO THE REQUIRED LINES AND LEVEL.
 - THE WORK SHALL BE NEATLY SCRIBED TO ADJOINING SURFACES, WITH MINIMUM CLEARANCES.
 - EXPOSED JOINTS SHALL BE NEATLY EXECUTED, RIGID, TIGHT AND FLUSH WITH NO TOOL, MACHINE OR CROSS SANDING MARKS.
 - PLASTIC LAMINATE SHALL BE APPLIED TO TOPS ENDS AND OTHER SURFACES SPECIFIED AND STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. ALL JOINTS SHALL BE TIGHT AND FLUSH; INNER CORNERS LIGHTLY RADIUSSED; EDGES BEVELED AND SMOOTHLY FILED OR SANDED WITH NO CHIPPING OR WEARING THROUGH OF SURFACE FINISH.
 - FASTENINGS SHALL BE CONCEALED WHEREVER POSSIBLE.
 - LAMINATE OR MELAMINE SHELVES ARE TO BE OF SEAMLESS CONSTRUCTION WITH MITRED JOINTS. BALANCE SHEETS AS REQUIRED, AS REQUIRED.

MILLWORK CABINETRY NOTES

- THE CONTRACTOR IS TO SUBMIT CUTS OF ALL HARDWARE SPECIFIED FOR APPROVAL:
- ALL CABINETRY UNITS ARE TO TAKE QUALITY LEVELERS AND GLIDES TO SUIT.
 - ALL CABINETS TO TAKE SOCKETS AND SUPPORTS AS SPECIFIED; INSTALL FOUR (4) PER SHELF SPACED AT 76.2 MM (3") BEGINNING 152.4 MM (6") FROM THE BASE.
 - DOOR AND DRAWER HARDWARE HINGES AND CATCHES AS SPECIFIED. CABINET DOORS TO HAVE HEAVY DUTY, SELF CLOSING HINGES.
 - ALL MILLWORK TO HAVE CONCEALED FASTENERS.
 - PULLS TO BE EQUIVALENT TO:
- SURFACES TO BE CONSTRUCTED AS NOTED:
 - CABINETRY SHELVING TO BE FIXED OR ADJUSTABLE AS SHOWN ON THE DETAILS.
 - PARTICLE BOARD CONSTRUCTION AND ALL SHELVING TO TAKE A 12.7 MM (1/2") HARDWOOD NOSING ON SUBSTRATE.
 - TOE SPACE: 3/4" - PRE-FINISHED PARTICLE BOARD OR SIMILAR. FINISH AS NOTED. SURFACE MOUNTED BASEBOARD IS TO BE APPLIED TO ALL EXPOSED MILLWORK BASES, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. INSTALL FINISHING BASEBOARD ONLY AFTER INSTALLATION AND LEVELING OF THE MILLWORK UNIT IS COMPLETED.
 - DOOR AND DRAWER FRONTS ARE TO BE CONSTRUCTED OF 15.9 MM (5/8") KILN-DRIED FIR PLYWOOD TO TAKE 1-1/2" SELF- EDGED FRONT APRON (EDGE), PLASTIC LAMINATE FINISH AS SPECIFIED.
 - DOOR AND DRAWER FRONTS ARE TO BE RECESSED A MINIMUM OF 1.6 MM (1/16").
 - COUNTER TOPS, AND SPLASH BACKS AS APPLICABLE, ARE TO BE CONSTRUCTED OF 19.05 MM (3/4") PARTICLE BOARD OR SIMILAR (NO ADDED UREA FORMALDEHYDE), FINISH AS NOTED: 1-1/2" SELF- EDGED FRONT APRON (EDGE), PLASTIC LAMINATE FINISH AS SPECIFIED.
 - ALL CABINET INTERIORS ARE TO BE OF GABLE CONSTRUCTION OF 19.05 MM (3/4") PARTICLE BOARD OR SIMILAR (NO ADDED UREA FORMALDEHYDE), PLASTIC LAMINATE FINISH AS SPECIFIED.
 - CONTRACTOR TO S/I FULL GABLES AT END OF UNIT FOR STABILITY. GABLE FINISH TO MATCH CUPBOARD DOORS.
- CONTRACTOR TO S/I BLOCKING AS REQUIRED.
- REFER TO ENGINEER'S DRAWINGS FOR DETAILS ON PLUMBING FIXTURES & EQUIPMENT AND ELECTRICAL CONNECTIONS.



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
Not for construction unless SEALED and SIGNED	

P R T Y	PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC.
--------------------------	--

824 Meath St. Suite 200
Ottawa, ON K1Z 6E8

613. 724. 7700
info@prty.ca

PROJECT

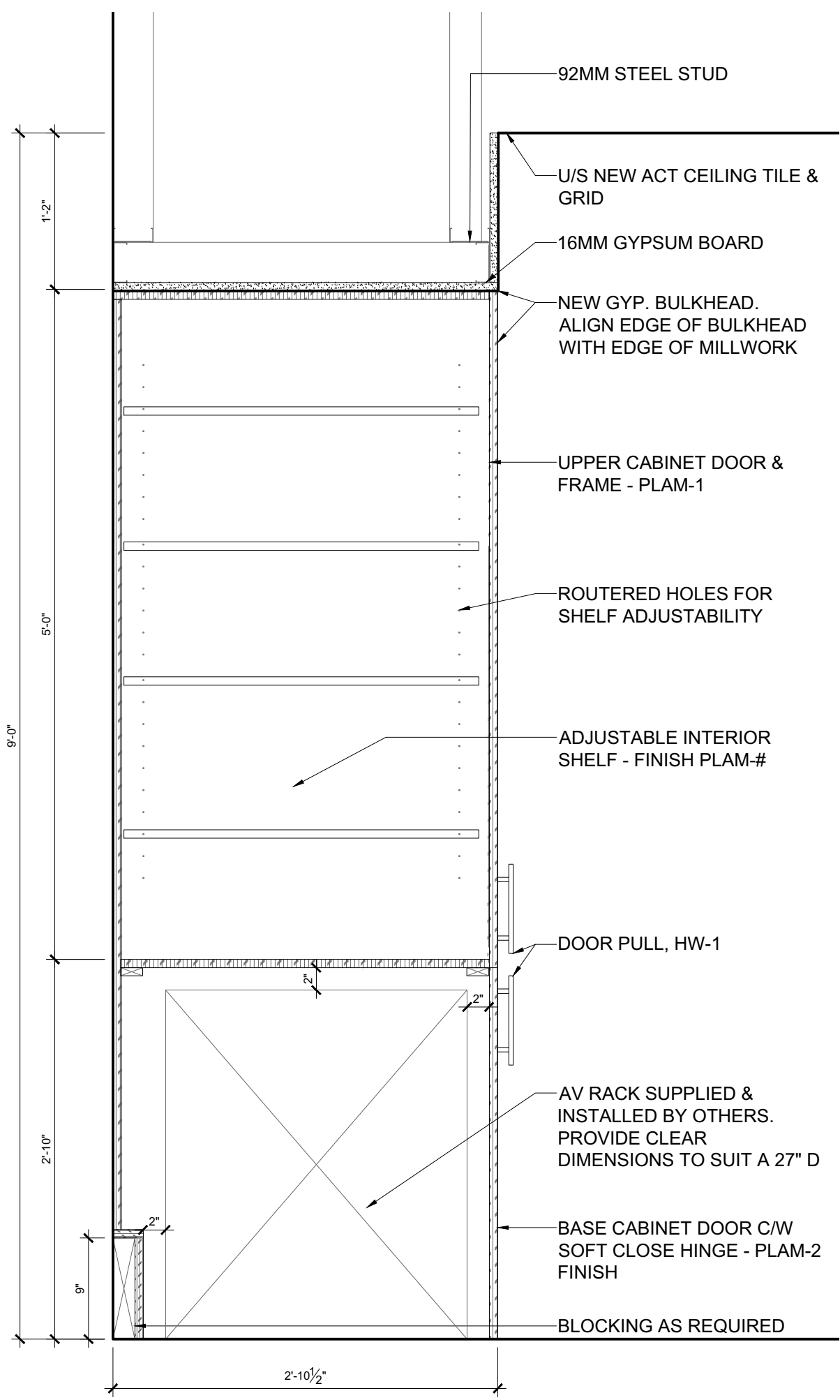
MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET
DRAWING

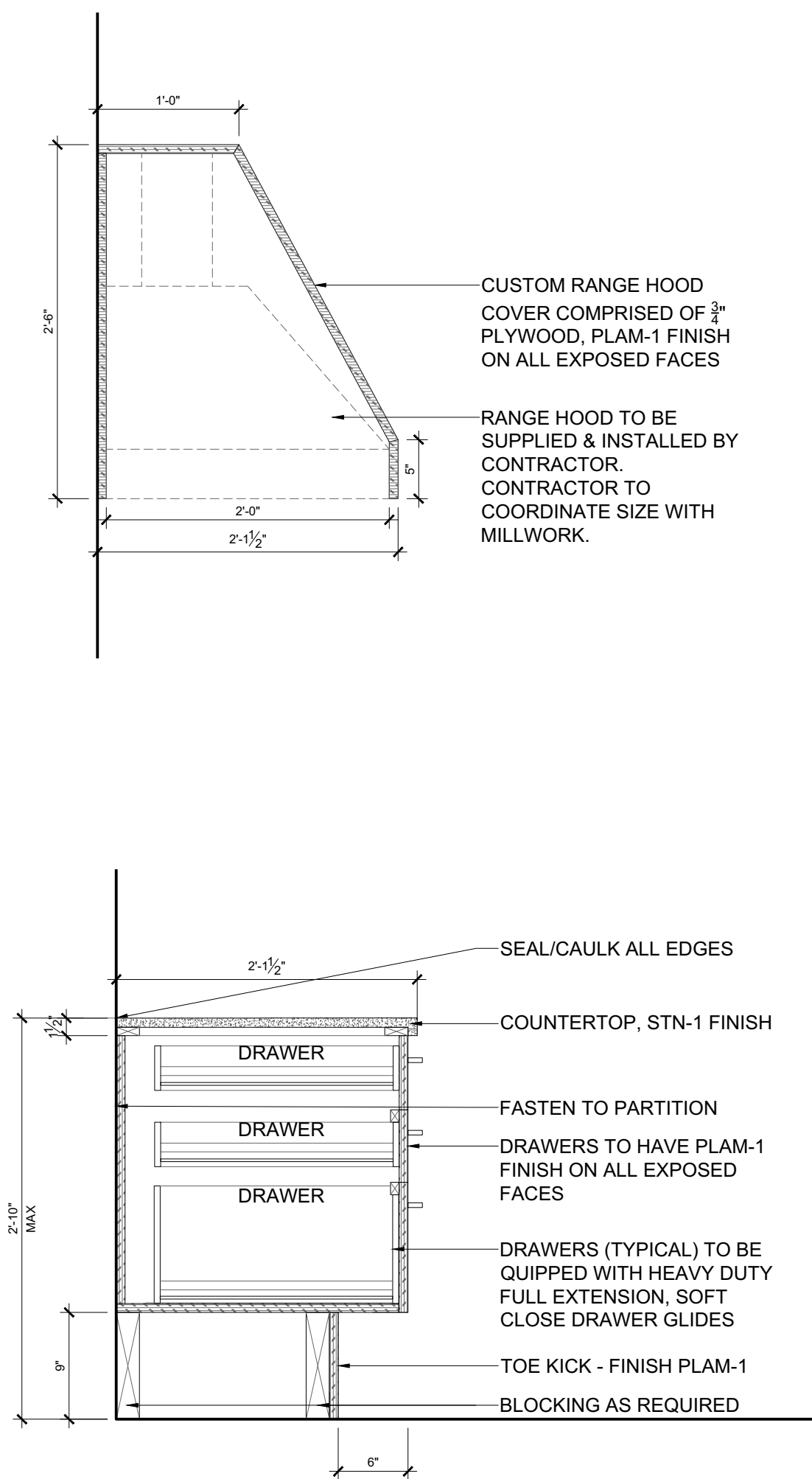
CASSELMAN, ON

MILLWORK SECTIONS

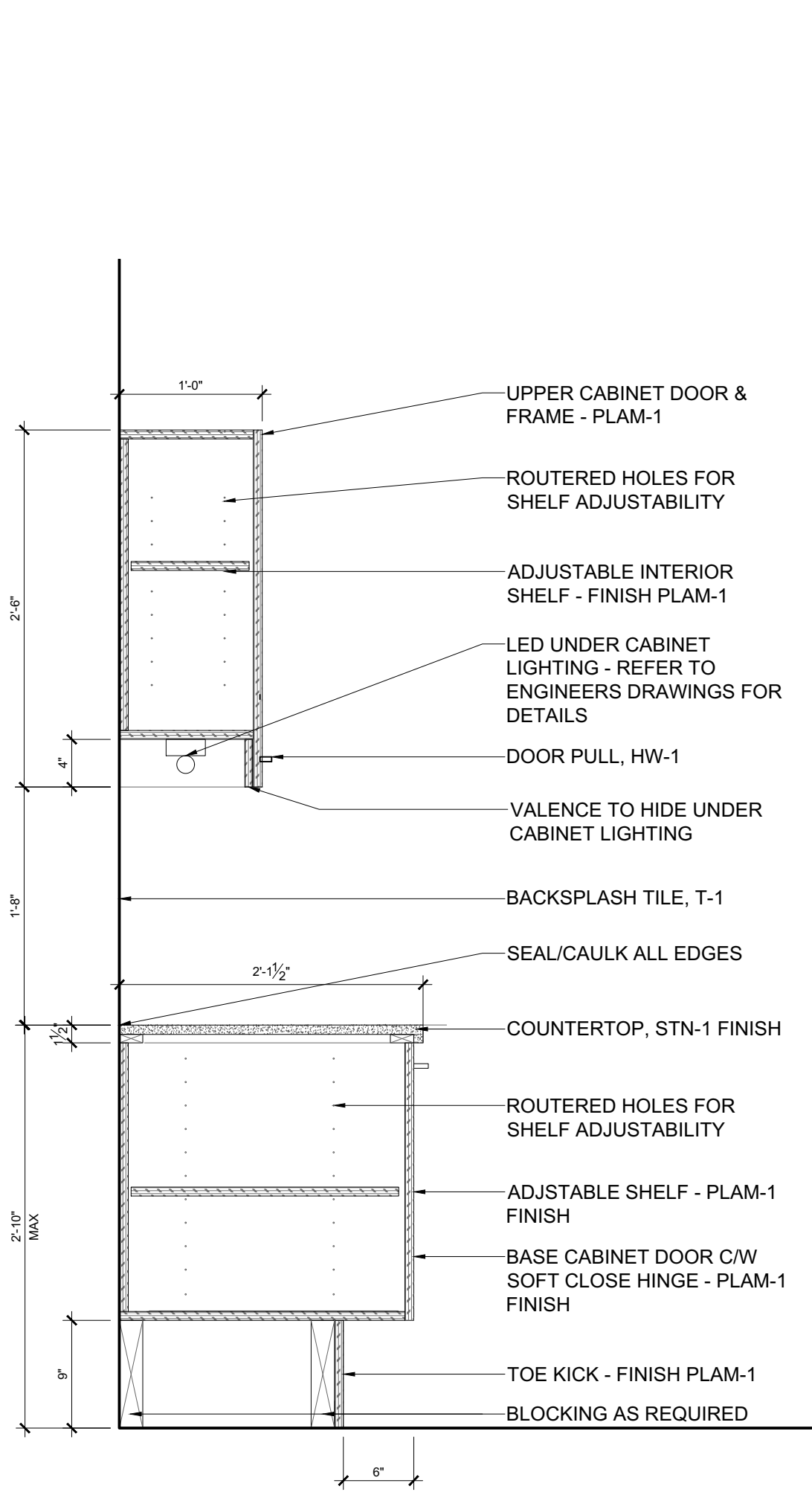
PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-400
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	
		PLOTTED BY:



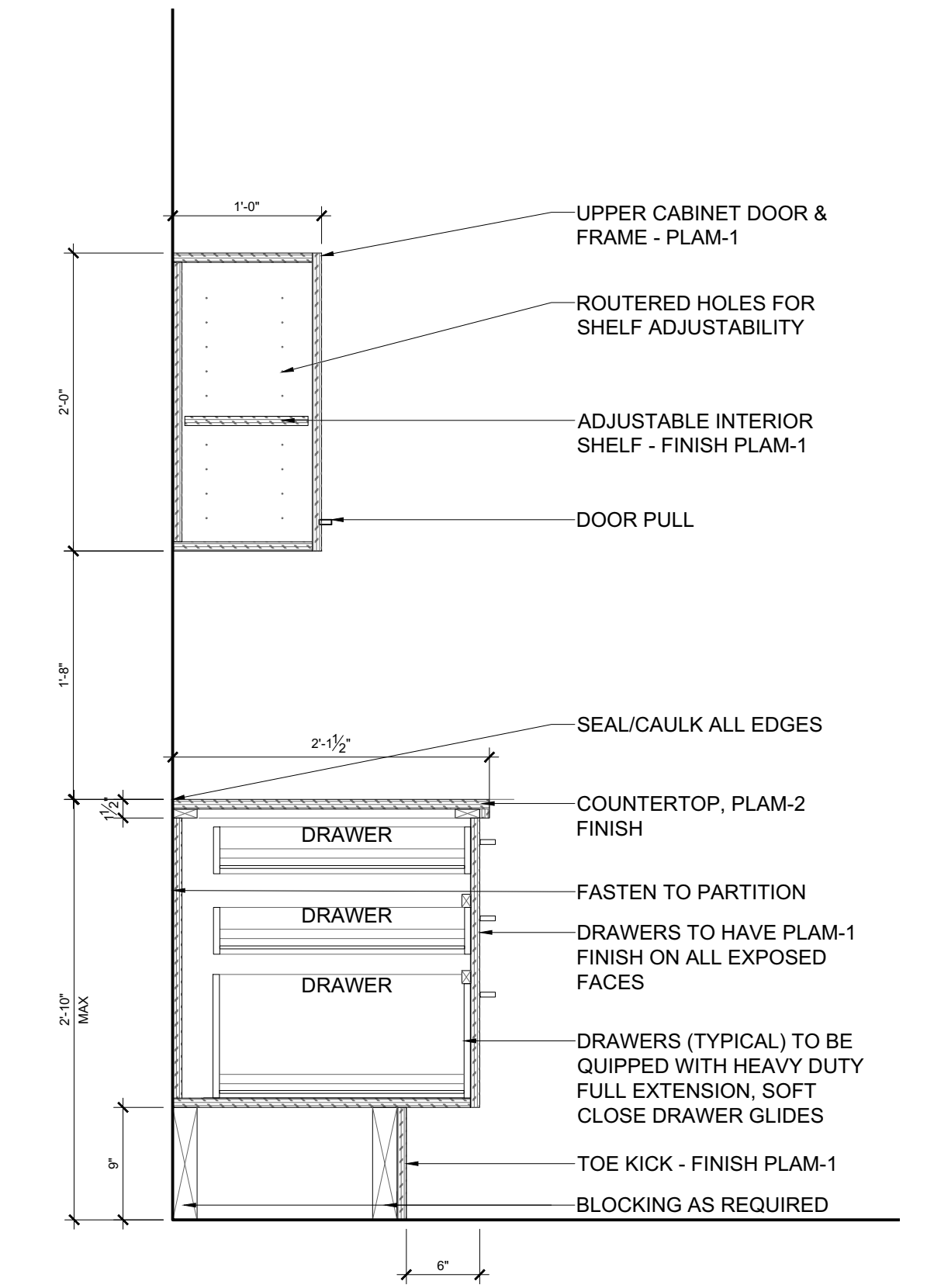
1
A-401
LARGE MEETING ROOM 224
MILLWORK SECTION @ AV CABINET
SCALE = 1" = 1'-0"



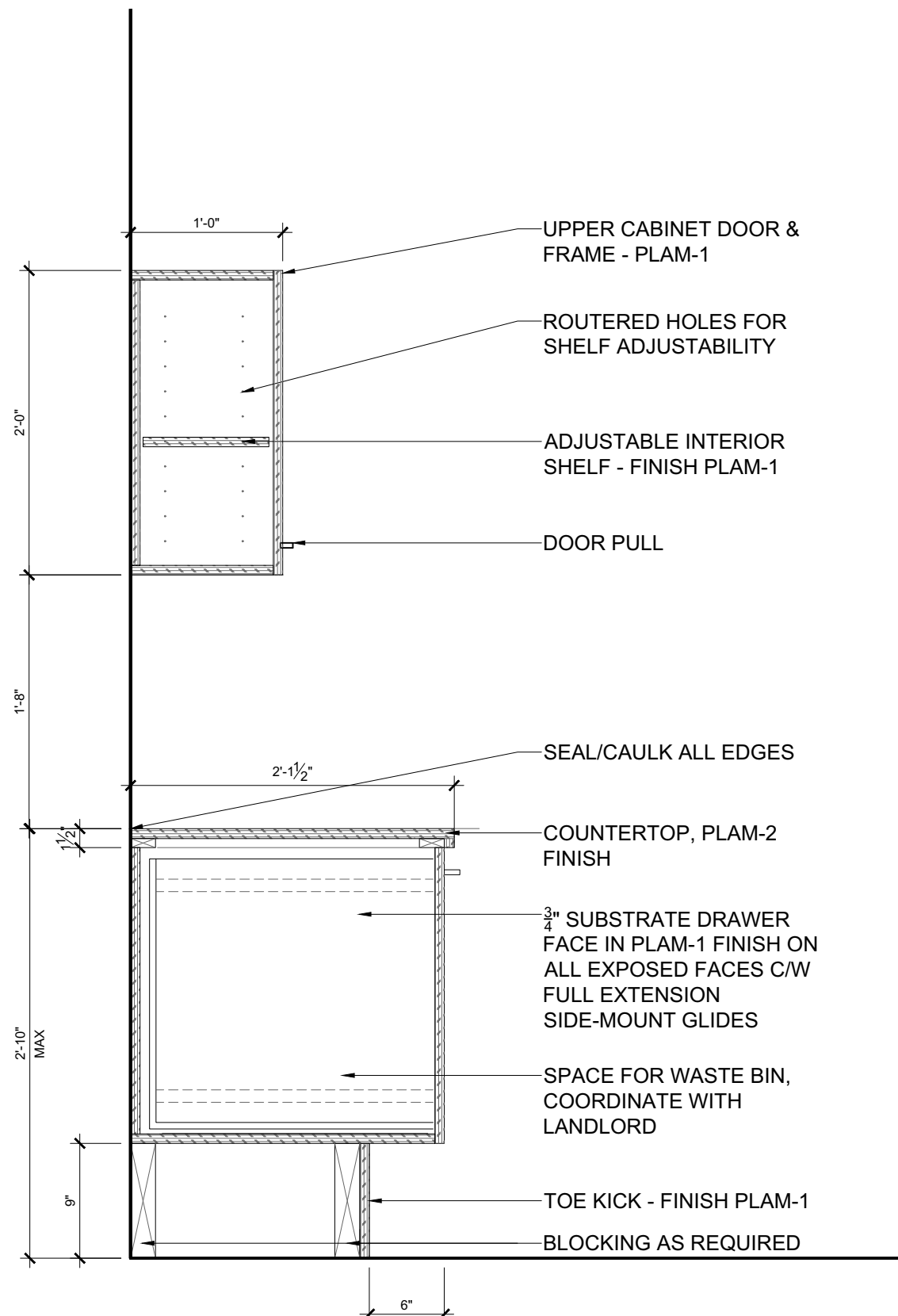
3
A-401
LARGE MEETING ROOM 224
MILLWORK SECTION @ DRAWERS
SCALE = 1" = 1'-0"



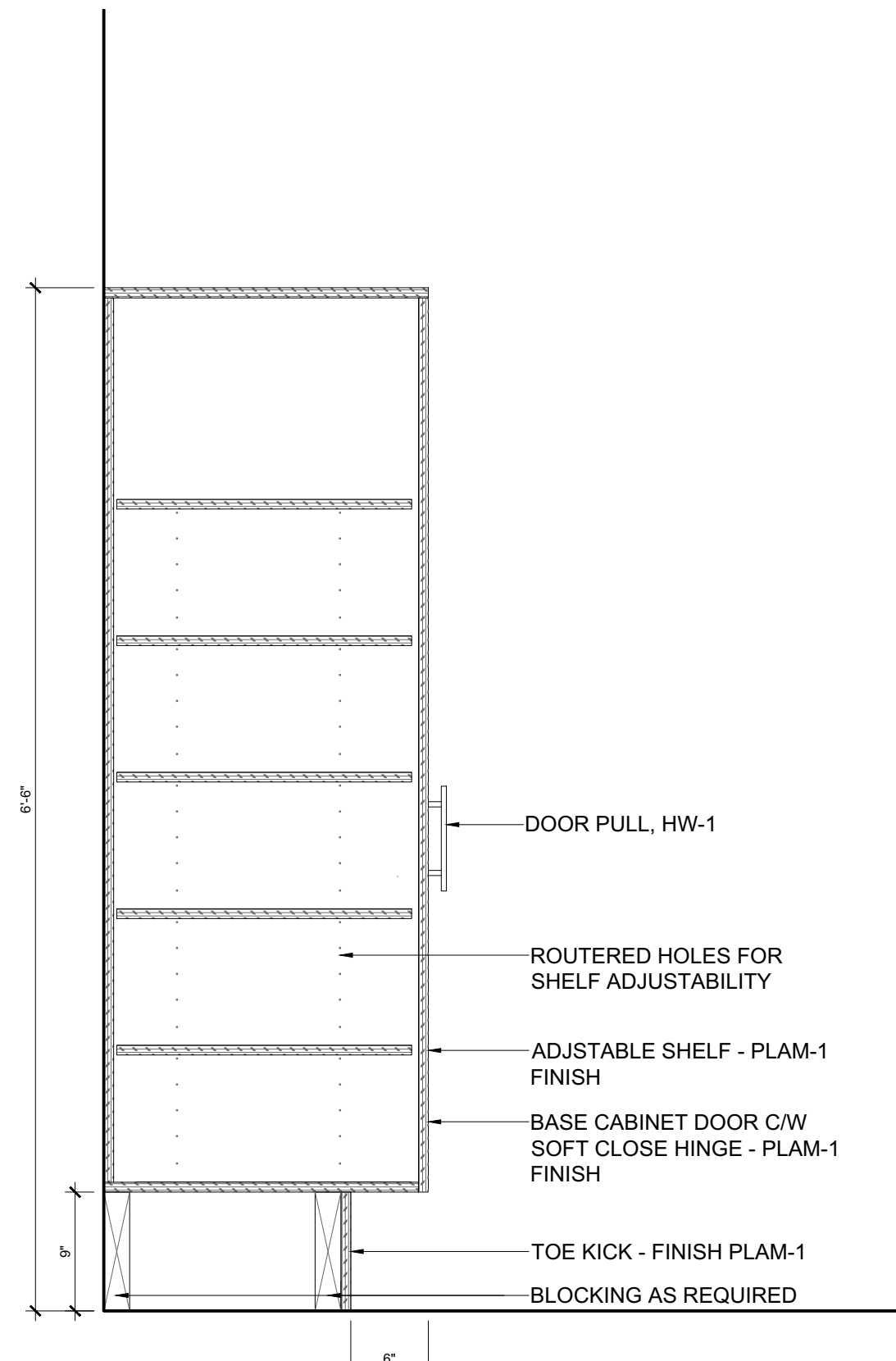
4
A-401
LARGE MEETING ROOM 224
MILLWORK SECTION @ CABINETS
SCALE = 1" = 1'-0"



5
A-401
PRINT ROOM 202
MILLWORK SECTION AT DRAWERS
SCALE = 1" = 1'-0"



6
A-401
PRINT ROOM 202
MILLWORK SECTION @ WASTE BIN
SCALE = 1" = 1'-0"



7
A-401
PRINT ROOM 202
MILLWORK SECTION @ PANTRY CABINET
SCALE = 1" = 1'-0"

MILLWORK GENERAL NOTES

1. THE CONTRACTOR IS TO REFER TO AND CROSS-REFERENCE NOTES, CONSTRUCTION PLANS AND DETAILS FOR MILLWORK LOCATIONS, INSTALLATION, CONSTRUCTION, AND FINISHING.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL MILLWORK.
3. ALL DIMENSIONS ARE TO BE SITE CONFIRMED AND VERIFIED AGAINST THE DRAWINGS.
4. THE CONTRACTOR IS TO CONFIRM THE ELEVATOR DOOR WIDTHS AND CAB DIMENSIONS, STAIRWELLS AND RELEVANT DOOR WIDTHS TO ENSURE THAT ALL MILLWORK COMPONENTS MAY BE DELIVERED AND INSTALLED.
5. WHERE UPPER UNITS ARE TO BE INSTALLED ENSURE THAT THE NEW OR EXISTING PARTITION CONSTRUCTION ARE ADEQUATELY REINFORCED

MILLWORK CONSTRUCTION QUALITY NOTES

1. IT IS INTENDED THAT ALL ARCHITECTURAL WOODWORK SPECIFIED IS TO MEET A.W.M.A.C. QUALITY STANDARDS AND SHALL CONFIRM TO THE GENERALLY ACCEPTED DEFINITIONS OF GOOD WORKMANSHIP, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
 - 1.1. THE WORK SHALL BE FABRICATED AND INSTALLED SQUARE, LEVEL, PLUMB AND STRAIGHT, AND TO THE REQUIRED LINES AND LEVEL.
 - 1.2. THE WORK SHALL BE NEATLY SCRIBED TO ADJOINING SURFACES, WITH MINIMUM CLEARANCES.
 - 1.3. EXPOSED JOINTS SHALL BE NEATLY EXECUTED, RIGID, TIGHT AND FLUSH WITH NO TOOL, MACHINE OR CROSS SANDING MARKS.
 - 1.4. PLASTIC LAMINATE SHALL BE APPLIED TO TOPS ENDS AND OTHER SURFACES SPECIFIED AND STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS. ALL JOINTS SHALL BE TIGHT AND FLUSH; INNER CORNERS LIGHTLY RADIUSSED; EDGES BEVELED AND SMOOTHLY FILED OR SANDED WITH NO CHIPPING OR WEARING THROUGH OF SURFACE FINISH.
 - 1.5. FASTENINGS SHALL BE CONCEALED WHEREVER POSSIBLE.
 - 1.6. LAMINATE OR MELAMINE SHELVES ARE TO BE OF SEAMLESS CONSTRUCTION WITH MITRED JOINTS. BALANCE SHEETS AS REQUIRED, AS REQUIRED.

MILLWORK CABINETRY NOTES

1. THE CONTRACTOR IS TO SUBMIT CUTS OF ALL HARDWARE SPECIFIED FOR APPROVAL:
2. ALL CABINETRY UNITS ARE TO TAKE QUALITY LEVELERS AND GLIDES TO SUIT.
 - 2.1. ALL CABINETS TO TAKE SOCKETS AND SUPPORTS AS SPECIFIED; INSTALL FOUR (4) PER SHELF SPACED AT 76.2 MM (3") BEGINNING 152.4 MM (6") FROM THE BASE.
 - 2.2. DOOR AND DRAWER HARDWARE HINGES AND CATCHES AS SPECIFIED. CABINET DOORS TO HAVE HEAVY DUTY, SELF CLOSING HINGES.
 - 2.3. ALL MILLWORK TO HAVE CONCEALED FASTENERS.
 - 2.4. PULLS TO BE EQUIVALENT TO:
3. SURFACES TO BE CONSTRUCTED AS NOTED:
 - 3.1. CABINETRY SHELVING TO BE FIXED OR ADJUSTABLE AS SHOWN ON THE DETAILS.
 - 3.2. PARTICLE BOARD CONSTRUCTION AND ALL SHELVING TO TAKE A 12.7 MM (1/2") HARDWOOD NOSING ON SUBSTRATE.
 - 3.3. TOE SPACE: 3/4" - PRE-FINISHED PARTICLE BOARD OR SIMILAR. FINISH AS NOTED. SURFACE MOUNTED BASEBOARD IS TO BE APPLIED TO ALL EXPOSED MILLWORK BASES, UNLESS INDICATED OTHERWISE ON THE DRAWINGS. INSTALL FINISHING BASEBOARD ONLY AFTER INSTALLATION AND LEVELING OF THE MILLWORK UNIT IS COMPLETED.
 - 3.4. DOOR AND DRAWER FRONTS ARE TO BE CONSTRUCTED OF 15.9 MM (5/8") KILN-DRIED FIR PLYWOOD TO TAKE 1-1/2" SELF- EDGED FRONT APRON (EDGE), PLASTIC LAMINATE FINISH AS SPECIFIED.
 - 3.5. DOOR AND DRAWER FRONTS ARE TO BE RECESSED A MINIMUM OF 1.6 MM (1/16").
 - 3.6. COUNTER TOPS, AND SPLASH BACKS AS APPLICABLE, ARE TO BE CONSTRUCTED OF 19.05 MM (3/4") PARTICLE BOARD OR SIMILAR (NO ADDED UREA FORMALDEHYDE), FINISH AS NOTED: 1-1/2" SELF- EDGED FRONT APRON (EDGE), PLASTIC LAMINATE FINISH AS SPECIFIED.
 - 3.7. ALL CABINET INTERIORS ARE TO BE OF GABLE CONSTRUCTION OF 19.05 MM (3/4") PARTICLE BOARD OR SIMILAR (NO ADDED UREA FORMALDEHYDE), PLASTIC LAMINATE FINISH AS SPECIFIED.
 - 3.8. CONTRACTOR TO S/I FULL GABLES AT END OF UNIT FOR STABILITY. GABLE FINISH TO MATCH CUPBOARD DOORS.
4. CONTRACTOR TO S/I BLOCKING AS REQUIRED.
5. REFER TO ENGINEER'S DRAWINGS FOR DETAILS ON PLUMBING FIXTURES & EQUIPMENT AND ELECTRICAL CONNECTIONS.



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
Not for construction unless SEALED AND SIGNED	

P R T Y	PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC.
824 Meath St. Suite 200 Ottawa, ON K1Z 6E8	613. 724. 7700 info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET
DRAWING

CASSELMAN, ON

MILLWORK SECTIONS

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-401
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	24/03/2025	
PLOTTED BY:		

NOTE: The application/location for the materials indicated is not limited to the list below and is to be used in conjunction with and may be supplemented by the Schedules, and Drawings.

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION	SAMPLE IMAGE
DIVISION 06 – WOOD, PLASTICS AND COMPOSITES				
HW-1	Millwork Hardware - Pulls	Manufacturer: Richelieu Product: Contemporary Steel Pull - 205 Model: 7996160195 Finish: Brushed Nickel Size: 160mm (ctr – ctr), 200mm Total length	Kitchenette & Reception Desk Millwork – Refer to Millwork Drawings	
HW-2	Millwork Hardware – Pull	Manufacturer: Richelieu Product: Contemporary Steel Pull - 205 Model: 7996160195 Finish: Brushed Nickel Size: 298mm (ctr – ctr), 338mm Total length	Ladder Millwork – Refer to Millwork Drawings	
DP-1	Door Pull	Manufacturer: Richelieu Product: Modern Stainless Steel Pull 2849 Model: 28592170 Finish: Brushed Nickel Size: 592mm (ctr – ctr), 656mm Total length	Barn Door D-200	
PLAM-1	Plastic Laminate	Manufacturer: Formica Colour: Pearl 934	Upper Cabinets – Large Meeting Room 224	
PLAM-2	Plastic Laminate	Manufacturer: Formica Colour: Swede Rift Oak 8676	Lower Cabinets – Large Meeting Room 224	

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION	SAMPLE IMAGE
T-3	Floor Tile	Manufacturer: Centura Product: Lakeland Colour: Haya Size: 6' x 36" Thickness: 9mm Grout Colour: 939 Mist Installation: Brick	Washrooms. Refer to Floor Finishes Plan and Page A-30 for Locations	
PT-1	Paint	Manufacturer: Sherwin Williams Colour: Pure White SW 7005 Finish: Eggshell	General Paint	
PT-2	Paint	Manufacturer: Sherwin Williams Colour: Bluebird Feather SW 9062 Finish: Eggshell	Accent Paint – Refer to Wall Finishes Plan for Locations	
PT-3	Paint	Manufacturer: Sherwin Williams Colour: In the Navy SW 9178 Finish: Eggshell	Accent Paint – Refer to Wall Finishes Plan for Locations	
PT-4	Door Frame Paint	Manufacturer: Sherwin-Williams Colour: Contractor to match Teklon Demountable Frame Finish Finish: Refer to shen chart in NMS for paint finish requirements	Door Frames supplied by Contractor & Door Frames that are existing to remain – Refer to Door Schedule	
B-1	Rubber Base	Manufacturer: Tarkett Product: Rubber Base Profile: Traditional Height: 4" Colour: 08 Icicle W	General	
B-2	Rubber Base	Manufacturer: Tarkett Product: Rubber Base Profile: Traditional Height: 4" Colour: To be selected from manufacturers full range of navy blue	Accent	

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION	SAMPLE IMAGE
STN-1	Quartz	Manufacturer: Hanstone Colour: Calacatta Venato Thickness: 2cm Finish: Polished	Quartz Countertop – Large Meeting Room 224	
STN-2	Solid Surface	Manufacturer: Corian Colour: Glacier White Thickness: .5"	Transaction Surfaces - Reception 200	
DIVISION 08 – OPENINGS				
FLM-1	Glazing Film	Supplier: Boss Image Manufacturer: Solyx Style: Symmetric Fine Dot Gradient Number: SJX-0580	Installed where indicated on Glazing Elevations – Refer to drawings for more details	
DIVISION 09 – FINISHES				
ACT-1	Acoustic Ceiling Tile	Supply & Install new T-Bar Grid: Manufacturer: Armstrong Style: Prelude XL Size 15/16" Exposed Tee Colour: White Size: 500x1500mm		
	Feltwork Blades	Supply & Install new T-Bar Grid: Manufacturer: Armstrong Style: 8' Ebbs & Flows Kit Size 12" x 96" Edge: Square Thickness: 3/8" Colour: Whisper	Reception Area 200 & Council Chamber 225	

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION	SAMPLE IMAGE
TR-1	Tile Trim	Manufacturer: Schluter or approved equivalent Type: Jolly AC Material: Colour Coated Aluminum Finish: To be selected from Manufacturer's full range during Shop Drawing Review. Size: Height to suit thickness of backplash tile.	To be installed on all exposed edges of backplash tile.	
TR-2	Transition Strip between flooring types	Manufacturer: Schluter or approved equivalent Type: Schiene AE Finish: Satin Anodized Aluminum Size: Height to suit thickness of flooring materials Note: For installation as transition between flooring types – secure transition strip to concrete using contact tape c/w 2mm feather finish as required to secure in place. Feather finish to be gradual build-up starting 24" out from line of transition. Feather up floor on as required to meet height of transition strip. Contractor to provide shop drawing for transition strip installation and to also secure a pre-installation meeting with designer.		
WC-1	Wall Vinyl Covering	Manufacturer: Versa Wallcovering Colour: Pretoria A200-183 Style: Senza Installation: Straight Hang / Align at Arrows Pattern Repeat: V: 24"	Vinyl Wall Covering – Refer to Wall Finishes Plan for Locations	
WC-2	Wall Vinyl Covering	Manufacturer: Versa Wallcovering Colour: Nettuno A-200-327 Style: Senza Installation: Straight Hang / Align at Arrows Pattern Repeat: V: 24"	Vinyl Wall Covering – Refer to Wall Finishes Plan for Locations	

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION	SAMPLE IMAGE
LVT-1	Heterogeneous Tile	Supplier: Polyflor Collection: Expona Flow PUR Colour: Light Grey Concrete Roll Size: 2m x 20m Thickness: 2.0mm Installation: Brick	Refer to floor finish drawings for locations	
LVT-2	Carpet Tile	Supplier: Ployflor Collection: Expona Commercial Wood PUR Colour: Wilder Oak Plank Size: 184.2mm x 1219.2mm Thickness: 2.5mm Installation: Brick	Refer to floor finish drawings for locations	
SDT-1	Electrotile Static Dissipative	Manufacturer: American Blitrite or approved equivalent Collection: Electrotile Static Dissipative Colour: White/Grey SDT-130 Size: 77mm x 77mm (3' x 3')	Refer to floor finish drawings for locations.	
T-1	Porcelain Tile	Manufacturer: Olympia Tile + Stone Product: Cristallo Tile Colour: Teal Blue Size: 2'x12" Finish: Glossy Grout Colour: To be selected from Manufacturer's full range during Shop Drawing Review. Installation: Install with long length of tile horizontal. Refer to Elevations on Page A-305.	Backsplash Tile. Refer to Wall Finishes Plan and Page A-305 for Locations	
T-2	Wall Tile	Manufacturer: Centura Product: Neeko Colour: White Size: 24" x 48" Thickness: 9mm Grout Colour: To be selected from Manufacturer's full range during Shop Drawing Review. Installation: Install with long length of tile horizontal. Refer to Elevations on Page A-302.	Washrooms. Refer to Wall Finishes Plan and Page A-302 for Locations	

CODE	ITEM	DESCRIPTION	APPLICATION / LOCATION	SAMPLE IMAGE
WW-1	Door Wood Veneer	Manufacturer: TBD Colour: Contractor to match door finish selected for Demountable Partition Doors, and provide sample during shop drawing review for approval. Note: If solid door laminate colour is selected, then the contractor is to paint the doors supplied by the contractor to match the demountable partition door finish colour.	Doors supplied by the Contractor – Refer to Door Schedule	
WWC-1	Wall Vinyl Covering	Manufacturer: Koroseal Product: Reestec Architectural Film Style: Ash Straight / Flat Grain 3 Code: BC-5493	Vinyl Wall Covering – Refer to Wall Finishes Plan for Locations	
DIVISION 10 – SPECIALTIES				
P3	Glazed Demountable Partition System	Manufacturer: Teknion or approved equivalent Product: Altos Demountable System Glazing Type: 6mm Double Glass (laminated-tempered) Trim & Frame Finish: Black, to be selected from Manufacturer's full range of finishes Door Finish: To be selected from Manufacturer's full range of solid and woodprint finishes STC :45	Refer to Construction Plan for Locations	<div>Frame Finish</div> <div>Door Finish</div>



04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/ OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL	PROJECT NORTH
Not for construction unless SEALED and SIGNED	

P

R

T

Y

PYE & RICHARDS -

TEMPRANO & YOUNG

ARCHITECTS INC.

824 Meath St. Suite 200

Ottawa, ON K1Z 6E8

613. 724. 7700

info@prty.ca

PROJECT	
MUNICIPALITY OF CASSELMAN OFFICE FIT-UP	
1 INDUSTRIEL STREET	CASSELMAN, ON
DRAWING	
FINISHES SCHEDULE	
PROJECT NO. 22045	DRAWING NO.
SCALE - 1/8" = 1'-0"	A-500
DRAWN - MH	
CHECKED - KB	
PLOT DATE - 24/03/2025	
PLOTTED BY:	

PLUMBING PIPING LEGEND					
	DOMESTIC COLD WATER		INDUSTRIAL WASTE ABOVE FLOOR OR GROUND		
	COMPRESSED AIR		INDUSTRIAL WASTE BELOW FLOOR OR GROUND		
	CLEAR WATER INTAKE		KITCHEN WASTE ABOVE FLOOR/GROUND OR GROUND		
	CLEAR WATER WASTE ABOVE FLOOR OR GROUND		KITCHEN WASTE BELOW FLOOR/GROUND OR GROUND		
	CLEAR WATER WASTE VENT		LIQUID PETROLEUM GAS		
	DEIONIZED WATER SUPPLY		NATURAL GAS		
	DEIONIZED WATER RETURN		NATURAL GAS - HIGH PRESSURE		
	GRAY WATER ABOVE FLOOR OR GROUND		NATURAL GAS - MEDIUM PRESSURE		
	GRAY WATER BELOW FLOOR OR GROUND		PUMP DISCHARGE		
	DOMESTIC HOT WATER		RECLAIMED WATER		
	HOT WATER (140°F)		REVERSE OSMOSIS WATER		
	HOT WATER RETURN (140°F)		REVERSE OSMOSIS WATER RETURN		
	HOT WATER (160°F)		SANITARY SEWER ABOVE FLOOR/GROUND		
	HOT WATER RETURN (160°F)		SANITARY SEWER BELOW FLOOR/GROUND		
	DOMESTIC HOT WATER RETURN		SANITARY SEWER VENT		
	SOFT COLD WATER		STORM DRAIN ABOVE FLOOR/GROUND		
	SOFT HOT WATER		STORM DRAIN BELOW FLOOR/GROUND		
	SOFT HOT WATER RETURN		SECONDARY STORM DRAIN ABOVE FLOOR OR GROUND		
	FUEL OIL RETURN		SECONDARY STORM DRAIN BELOW FLOOR OR GROUND		
	FUEL OIL SUPPLY		SUBSURFACE STORM DRAIN		
	INDUSTRIAL NONPOTABLE COLD WATER		TRAP PRIMER		
	INDUSTRIAL NONPOTABLE HOT WATER		TEMPERED WATER		
	INDUSTRIAL NONPOTABLE HOT WATER RETURN		TEMPERED WATER RETURN		
	INDUSTRIAL NONPOTABLE SOFT COLD WATER		VACUUM		
	INDUSTRIAL NONPOTABLE SOFT HOT WATER		VACUUM EXHAUST		
	INDUSTRIAL NONPOTABLE SOFT HOT WATER RETURN		WASTE OIL		
	INDUSTRIAL VENT		WASTE OIL VENT		
			DEMOLITION PIPING		
			DEMOLITION EQUIPMENT		

GENERAL ABBREVIATIONS			
°F	DEGREES FAHRENHEIT	MFR	MANUFACTURER
°C	DEGREES CELSIUS	MIN	MINIMUM
Ø	DIAMETER	MTD	MOUNTED
AD	ACCESS DOOR	N/A	NOT APPLICABLE
ADJ	ADJUSTABLE	NC	NORMALLY CLOSED OR NOISE CRITERIA
AFT	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AFG	ABOVE FINISHED GRADE	NO	NORMALLY OPEN OR NUMBER
BFF	BELOW FINISHED FLOOR	NOM	NOMINAL
BHP	BRAKE HORSEPOWER	NTS	NOT TO SCALE
BOD	BOTTOM OF DUCT	OB	OCTAVE BAND
BMS	BUILDING MANAGEMENT CONTROL SYSTEM	OC	ON CENTER
BOP	BOTTOM OF PIPE	OD	OUTSIDE DIAMETER
BTU	BRITISH THERMAL UNIT	OV	OUTLET VELOCITY
BTUH	BRITISH THERMAL UNIT PER HOUR	PD	PRESSURE DROP
CLG	CEILING	PH	PHASE
COL	COLUMN	POC	POINT OF CONNECTION
CUF	CUBIC FEET	POD	POINT OF DEMARCATION
DB	DRY BULB TEMPERATURE	POS	POSITION OR POSITIVE
DN	DOWN	PSG	POUNDS PER SQUARE INCH GAUGE
DP	DIFFERENTIAL PRESSURE	QTY	QUANTITY
DWG	DRAWING	RC	ROOM CRITERIA (NOISE)
EA	EACH	RET	RETURN
EFF	EFFICIENCY	REQD	REQUIRED
ELEV	ELEVATION	RH	RELATIVE HUMIDITY
ENT	ENTERING	RM	ROOM
EQUIP	EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST	SGH	SCHEDULE
EXP	EXPANSION	SHT	SHEET
(E)	EXISTING	SPEC	SPECIFICATION
EXTRM	EXISTING TO BE REMOVED	SQ	SQUARE
ETR	EXISTING TO REMAIN	SOFT	SQUARE FEET
FA	FIRE ALARM	STD	STANDARD
FD	FLOOR DRAIN	SUP	SUPPLY
FLR	FLOOR	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	TO	TRANSFER OPENING
FT	FEET	TOD	TOP OF DUCT
FT/SEC	FEET PER SECOND	TON	TONS OF REFRIGERATION
GA	GAUGE	TOP	TOP OF PIPE
GAL	GALLONS	TYP	TYPICAL
GPH	GALLONS PER HOUR	UND	UNLESS NOTED OTHERWISE
GPM	GALLONS PER MINUTE	UTR	UP THROUGH ROOF
HP	HORSEPOWER	V	VENT
HR	HOUR	VAV	VARIABLE AIR VOLUME
HZ	HERTZ	VEL	VELOCITY
ID	INSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
IN	INCHES	VOL	VOLUME
KW	KILOWATT	VTR	VENT THROUGH ROOF
LB	POUND	W	WIDTH
LF	LINEAR FEET	W/	WITH
LVG	LEAVING	W/O	WITHOUT
MAX	MAXIMUM	WB	WET BULB TEMPERATURE
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR	WF	WIDE FLANGE
MEZZ	MEZZANINE	WG	WATER GAUGE
		WT	WEIGHT

AIR SYSTEM LEGEND					
	RECTANGULAR SUPPLY/ OUTSIDE AIR DUCT UP		SPACE PRESSURIZATION ARROW		
	RECTANGULAR SUPPLY/ OUTSIDE AIR DUCT DOWN		DOOR LOUVER / UNDERCUT DOOR		
	RECTANGULAR RETURN/ RELIEF AIR DUCT UP		SUPPLY AIRFLOW ARROW		
	RECTANGULAR RETURN/ RELIEF AIR DUCT DOWN		RETURN OR EXHAUST AIRFLOW ARROW		
	RECTANGULAR EXHAUST AIR DUCT UP		AIR VOLUME TRAVERSE STATION		
	RECTANGULAR EXHAUST AIR DUCT DOWN		CEILING DIFFUSER (SUPPLY)		
	ROUND SUPPLY/ OUTSIDE AIR DUCT UP		RETURN AIR GRILLE OR REGISTER		
	ROUND SUPPLY/ OUTSIDE AIR DUCT DOWN		EXHAUST AIR GRILLE OR REGISTER		
	ROUND RETURN/ RELIEF AIR DUCT UP		LIGHT TROFFER DIFFUSER		
	ROUND RETURN/ RELIEF AIR DUCT DOWN		DIFFUSER WITH FLOW DIRECTION, NO FLOW ARROWS INDICATES STANDARD 4-WAY PATTERN		
	ROUND EXHAUST AIR DUCT UP		CIRCULAR CEILING DIFFUSER (SUPPLY)		
	ROUND EXHAUST AIR DUCT DOWN		SIDE WALL GRILLE		
	DUCT WITH LINING OR SOUND INSULATION		HUMIDITY SENSOR / HUMIDISTAT & NUMBER		
	STAINLESS STEEL DUCT		SENSOR AND NUMBER		
	PVC COATED DUCT		SWITCH AND NUMBER		
	DOUBLE WALL DUCT		TEMPERATURE SENSOR / THERMOSTAT & ZONE NUMBER		
	AUTOMATIC CONTROL DAMPER FOR ROUND AND RECTANGULAR DUCT		TEMPERATURE SENSOR / THERMOSTAT W/ VANDAL GUARD & ZONE NUMBER		
	BACKDRAFT DAMPER FOR ROUND AND RECTANGULAR DUCT		REMOTE DAMPER OPERATOR		
	FIRE DAMPER FOR ROUND AND RECTANGULAR DUCT		DIFFERENTIAL PRESSURE SENSOR		
	SMOKE DAMPER FOR ROUND AND RECTANGULAR DUCT		DUCT SMOKE DETECTOR		
	COMBINATION SMOKE/FIRE DAMPER FOR ROUND AND RECTANGULAR DUCT		STATIC PRESSURE SENSOR		
	SLIDE GATE DAMPER FOR ROUND AND RECTANGULAR DUCT		CARBON MONOXIDE SENSOR		
	MANUAL VOLUME DAMPER FOR ROUND AND RECTANGULAR DUCT		CARBON DIOXIDE SENSOR		
	FLEXIBLE CONNECTION		DIFFUSER TYPE - DIFFUSER SIZE		
	OR		DIFFUSER CFM		
	OR		CONNECT TO EXISTING		

PLUMBING SYMBOL LEGEND					
	PIPING TURN DOWN OR DROP		WALL HYDRANT		
	PIPING TURN UP OR RISE		UNION		
	PIPING TEE DOWN OR DROP		FLOW SWITCH		
	PIPING TEE UP OR RISE		PRESSURE SWITCH		
	P-TRAP		EXPANSION JOINT		
	GATE VALVE		AUTOMATIC AIR VENT		
	CHECK VALVE		PRESSURE GAUGE WITH GAUGE COCK		
	BALL VALVE		VALVE ON PIPING RISE OR DROP		
	MIXING VALVE		TRAP PRIMER		
	BUTTERFLY VALVE		THERMOMETER		
	GLOBE VALVE		WATER HAMMER ARRESTOR		
	PRESSURE REDUCING VALVE		DIRECTION OF FLOW		
	BACKFLOW PREVENTER		SLOPE & DIRECTION OF FALL		
	BALANCING VALVE		REDUCER OR INCREASER		
	AUTOMATIC FLOW CONTROL VALVE		POINT OF CONNECTION		
	TEMP. & PRESSURE RELIEF VALVE		POINT OF DEMARCATION		
	PRESSURE RELIEF VALVE		DIAMETER		
	MOTORIZED SHUT-OFF VALVE		SQUARE FEET		
	SOLENOID VALVE		DRAIN RECEPTOR		
	STRAINER		FLOOR DRAIN		
	FLOOR CLEAN OUT		AREA DRAIN		
	WALL CLEAN OUT		ROOF DRAIN		
	EXTERIOR CLEAN OUT		SECONDARY ROOF DRAIN		
	CAPPED PIPE / CLEAN OUT		EXISTING		
	FLEXIBLE CONNECTION (PIPE)		BY-PASS TERMINAL UNIT		
	HOSE BIBB				

TAGS & CALLOUTS					
	EQUIPMENT REQUIRING ELECTRICAL SERVICE, REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.		REVISION CALLOUT		
	EQUIPMENT NOT REQUIRING ELECTRICAL SERVICE, REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.		KEYNOTE CALLOUT		
	SECTION CALLOUT		POINT OF CONNECTION		
	DETAIL CALLOUT		POINT OF DEMARCATION		
	DETAIL DESIGNATION		FURNISHED & INSTALLED BY ELECTRICAL		
			FURNISHED & INSTALLED BY MECHANICAL		
			FURNISHED AND INSTALLED BY PLUMBING		
			HEAT TRACE CIRCUIT START AND END		
			HEAT TRACE CIRCUIT NUMBER		

FIRE PROTECTION LEGEND	
	PORTABLE FIRE EXTINGUISHER

GENERAL NOTES	
1.	ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATIONS ONLY AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECT'S, INTERIOR DESIGNER, AND MECHANICAL DRAWINGS FOR LOCATION OF ALL LUMINAIRES, SWITCHES, DEVICES, OUTLETS, FURNITURE FEEDING POINTS, DIMENSIONS, MOUNTING HEIGHTS, AND CONSTRUCTION DETAILS.
2.	IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR ON DRAWING THAT EQUIPMENT AND MATERIALS BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED, EITHER IN WHOLE OR IN PART IN NEW LOCATIONS, ALL SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION. TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
3.	ALL SLAB OPENINGS SHALL BE X-RAYED AND REVIEWED WITH LANDLORD AND BASE BUILDING STRUCTURAL CONSULTANT. CONTRACTOR SHALL X-RAY THE FLOOR AND SUBMIT TO BASE BUILDING STRUCTURAL ENGINEER FOR WRITTEN APPROVAL AT LEAST 72 HOURS PRIOR TO ANY CORE DRILLING ON THE BUILDING. THE CONTRACTOR SHALL INCLUDE THE COST OF STRUCTURAL ENGINEER, COORDINATE ALL CORE DRILLING WITH LANDLORD'S SITE REPRESENTATIVE AND TENANT. ALL NOISY WORK SHALL BE PERFORMED AFTER HOURS.
4.	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LANDLORD'S GUIDELINES AND SHALL ADHERE TO THE REQUIREMENTS STATED IN THE BASE BUILDING CONSTRUCTION MANUAL.
5.	CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK WITH ALL OTHER TRADES, CONSULTANTS, TENANT & LANDLORD. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT IN SUCH A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
6.	ALL OPENINGS IN BUILDING RISER, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. ANY FIRE STOPPING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIRE STOPPING MATERIAL AND SHALL BE INSTALLED AS PER BUILDING AND FIRE CODE.
7.	ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS & FLOORS SHALL BE SEALED WITH FIRE STOP MATERIAL. FIRE STOP MATERIAL SHALL BE THAT WHICH IS APPROVED BY THE LANDLORD FOR USE IN THE BUILDING. REFER TO BASE BUILDING CONSTRUCTION MANUAL FOR FIRE STOPPING REQUIREMENTS.
8.	SEAL AIR-TIGHT AROUND ALL DUCT, PIPE, CONDUIT & WIRE PENETRATIONS THROUGH PARTITIONS, Baffles ABOVE CEILING & THROUGH FLOORS THAT ARE NOT FIRE RATED.
9.	COORDINATE WITH TENANT & LANDLORD TO CONFIRM EQUIPMENT, SYSTEMS & DEVICES TO REMAIN.
10.	PROVIDE TEMPORARY FILTERS ON ALL BASE BUILDING RETURN AIR OPENINGS, AND TRANSFER DUCTS CONNECTING TO THE ADJACENT TENANT SPACE THAT REMAIN OPERATIONAL DURING CONSTRUCTION. FILTERS SHALL HAVE A MERV RATING OF 13. FILTERS SHALL BE REPLACED WEEKLY & SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
11.	ALL FILTERS IN BASE BUILDING AIR HANDLING EQUIPMENT SERVING THE CONSTRUCTION AREA SHALL BE REPLACED UPON COMPLETION OF CONSTRUCTION.
12.	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT.
13.	ALL INSTALLATIONS WITHIN EXISTING AREAS SHALL BE COORDINATED WITH LANDLORD AND BASE BUILDING MANAGEMENT. INSTALLATION MUST BE PERFORMED IN A MANNER TO ELIMINATE ANY INTERFERENCES TO STAFF AND NORMAL OPERATION OF THE FACILITY.
14.	THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND DISTRIBUTION OF TEMPORARY POWER WITHIN THE PREMISES DURING THE CONSTRUCTION PERIOD. EXPOSED ELECTRICAL CORDS OUTSIDE THE LEASED PREMISES SHALL NOT BE PERMITTED.
15.	DIMENSIONS ON DRAWINGS ARE EXPRESSED IN METRIC UNITS AND FLOWS ON DRAWINGS ARE EXPRESSED IN IMPERIAL UNITS.
16.	ALL HVAC CONTROLS WORK SHALL BE PREFORMED BY THE BASE BUILDING HVAC CONTROLS CONTRACTOR, CONVERGENT TECHNOLOGIES. CONTRACTOR SHALL CARRY BASE BUILDING HVAC CONTROLS CONTRACTOR FOR ALL HVAC CONTROLS WORK. CONTACT OMAR YAKOB: OMAR.YAKOB@CONVERGENT.COM OR (905) 602-8622.
17.	ALL SPRINKLER AND FIRE PROTECTION WORK SHALL BE PERFORMED BY THE A SPRINKLER CONTRACTOR APPROVED TO DO WORK IN THE BUILDING. REFER TO TENANT DESIGN AND CONSTRUCTION MANUAL.
18.	ALL TESTING, ADJUSTING, AND BALANCING (TAB) WORK SHALL BE PERFORMED BY AN INDEPENDENT AIR AND WATER BALANCING CONTRACTOR APPROVED TO DO WORK IN THE BUILDING. REFER TO TENANT DESIGN AND CONSTRUCTION MANUAL.
19.	ANY SHUTDOWN, DRAINAGE, AND/OR FILLING OF BASE BUILDING SYSTEMS AND/OR SERVICES SHALL BE DONE BY THE LANDLORD'S BUILDING MANAGEMENT STAFF. SCHEDULE & COORDINATE ANY SHUTDOWNS WITH THE LANDLORD AT LEAST 72 HOURS IN ADVANCE. CONTRACTOR SHALL FOLLOW ALL LANDLORD'S INSTRUCTIONS, & SHALL CARRY ALL COSTS ASSOCIATED WITH THIS WORK IN THE TENDER PRICE.
20.	ALL NOISY WORK (CORE DRILLING, ETC.) SHALL BE PERFORMED AFTER HOURS AND SHALL BE COORDINATED WITH THE LANDLORD & THE FACILITY AT LEAST 72 HOURS IN ADVANCE OF THE WORK TAKING PLACE.
21.	ALL CORE DRILLING SHALL BE COORDINATED WITH THE CLIENT AND THE LANDLORD AT LEAST 72 HOURS IN ADVANCE OF ANY WORK TAKING PLACE. LOCATIONS OF ALL CORE SHALL BE COORDINATED WITH, AND APPROVED BY THE LANDLORD'S STRUCTURAL ENGINEER.
22.	LOCATIONS OF CORES SHALL BE X-RAYED PRIOR TO START OF CORING WORK. COORDINATE X-RAY WORK WITH CLIENT AND LANDLORD AT LEAST 72 HOURS IN ADVANCE.
23.	SUBMIT TO TENANT & LANDLORD OPERATIONS & MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT PROVIDED UNDER THIS CONTRACT. OPERATION & MAINTENANCE MANUALS SHALL INCLUDE DATA SHEETS, BROCHURES, MAINTENANCE INFORMATION, RECOMMENDED SPARE PARTS LISTS, LUBRICATION INSTRUCTIONS, & START-UP CERTIFICATES.
24.	SUBMIT TO TENANT & LANDLORD A REVIEWED SET OF ALL SHOP DRAWINGS CLEARLY MARKED WITH "REVIEWED" BY THE INSTALLING CONTRACTOR & THE TENANT ENGINEER.
25.	SUBMIT TO TENANT & LANDLORD A COMPLETE SET OF AS-BUILT RECORD DRAWINGS. AS-BUILT DRAWINGS SHALL BE PREPARED USING CAD SOFTWARE (I.E. AUTOCAD) & SUBMITTED IN DIGITAL PDF & DWG FORMATS, AND AS A HARD COPY TO EACH THE TENANT & THE LANDLORD. SCANNED REDLINE MARKED-UP DRAWINGS ARE NOT ACCEPTABLE.

DRAWING LIST	
M-1	MECHANICAL NOTES AND LEGENDS
M-2	MECHANICAL SPECIFICATIONS
M-3	MECHANICAL SPECIFICATIONS
M-4	MECHANICAL SPECIFICATIONS
M-5	MECHANICAL SCHEDULES AND DETAILS
M-6	MECHANICAL - SECOND FLOOR - PLUMBING & FIRE PROTECTION PLAN
M-7	MECHANICAL - SECOND FLOOR - HVAC PLAN
M-8	MECHANICAL - ROOF PLAN

CLIENT		
MUNICIPALITY OF CASSELMAN		
PROJECT NORTH		
4	ISSUED FOR TENDER	2025-03-24
3	ISSUED FOR PERMIT	2025-03-18
2	ISSUED FOR 99% COORDINATION	2025-02-24
1	ISSUED FOR 66% COORDINATION	2023-06-12
ISSUE	DESCRIPTION	DATE
IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES. ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS. DO NOT SCALE DRAWINGS.		
PROFESSIONAL STAMP		
<div>EXP Services Inc. T: 613.688.1899 100 - 2650 Queensview Drive Ottawa, ON K2B 8H6 Canada www.exp.com</div> <div>• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •</div>		
PROJECT		
1 INDUSTRIEL STREET OFFICE FIT-UP		
DRAWING		
MECHANICAL NOTES AND LEGENDS		
PROJECT No: MRK-23002008-A0		REVISION:
DRAWN: M. OMAR	DATE: JUNE 2023	
APPROVED: B. BROWN	SCALE: AS SHOWN	
DRAWING No:		M-1

GENERAL

1. GENERAL REQUIREMENTS
- 1.1. THE WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE, THE MINISTRY OF LABOUR, THE CITY AND ALL CODES HAVING JURISDICTION, WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THESE SPECIFICATIONS.

1.2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION & PROVIDE REPAIR OF ADJACENT EXISTING SURFACES, EQUIPMENT, AREAS & PROPERTY THAT MAY BE DAMAGED AS A RESULT OF ANY DEMOLITION AND / OR NEW WORK.

1.3. PAY FOR AND OBTAIN ALL REQUIRED PERMITS, FEES, LICENSES, CERTIFICATES OF INSPECTION, ETC. PROVIDE AND SUBMIT REQUIRED DRAWINGS TO THE AUTHORITIES HAVING JURISDICTION.

1.4. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION & SERVICES NECESSARY FOR COMPLETION OF THE WORK. ALL MATERIALS & WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES & GOVERNING REGULATIONS & SHALL MEET WITH THE APPROVAL OF THE CITY & PROVINCIAL FIRE MARSHAL .

1.5. ALL DRAWINGS ARE CONSIDERED TO BE PART OF THE CONTRACT DOCUMENTS . THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW & COORDINATION OF ALL DRAWINGS PRIOR TO ANY CONSTRUCTION, INCLUDING ARCHITECTURAL, STRUCTURAL, AIR CONDITIONING, PLUMBING & ELECTRICAL. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF ENGINEER PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION MAY BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENT SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, & AT NO EXPENSE TO THE OWNER .

1.6. DO NOT SCALE DRAWINGS – ALL DIMENSIONS & JOB SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO BID SUBMITTAL. START OF CONSTRUCTION AND / OR FABRICATION OF MATERIALS, IF DISCREPANCIES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.

1.7. CONTRACTOR TO PROVIDE ANY TEMPORARY HEATING AND OR COOLING MEASURES FOR SPACES THAT REQUIRE THE SHUTDOWN OF AN EQUIPMENT SERVING MULTIPLE AREAS.

1.8. CONTRACTOR TO KEEP A RECORD SET OF DRAWINGS ON SITE AT ALL TIMES. ANY CHANGES SHALL BE RECORDED ON THIS SET FOR AS-BUILT DRAWINGS.

1.9. PROVIDE SEISMIC BRACING FOR MECHANICAL EQUIPMENT BASED ON APPROPRIATE SEISMIC ZONE REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES STRUCTURAL ENGINEER'S CERTIFICATION ON DETAILS SUBMITTED FOR PERMITTING.
2. INTERRUPTION OF SERVICES
- 2.1. ALL INTERRUPTIONS OF EXISTING MECHANICAL SYSTEMS MUST BE APPROVED BY AND CO-ORDINATED WITH THE OWNER.

2.2. DISRUPTION OF NORMAL OPERATIONS WILL NOT BE ALLOWED. ALL INTERRUPTIONS SHALL OCCUR AFTER THE CLOSE OF NORMAL HOURS. PREMIUM TIME TO BE INCLUDED IN THE TENDER PRICE.

2.3. CONTRACTOR TO ARRANGE WITH THE OWNER FOR NECESSARY SHUTDOWNS FOR ALL SYSTEMS THAT REQUIRE TIE-INS AND WORK WITHIN OTHER TENANT SPACES. SCHEDULING OF THIS WORK TO BE COORDINATED WITH THE OWNER AND OTHER TENANTS.
3. SHOP DRAWINGS
- 3.1. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING MAJOR EQUIPMENT:

3.1.1. HVAC UNIT

3.1.2. DOMESTIC HOT WATER HEATER

3.1.3. SUPPLY AIR DIFFUSERS, GRILLES & REGISTERS

3.1.4. EXHAUST FANS

3.1.5. FLOOR DRAINS

3.1.6. HUB DRAINS

3.1.7. PLUMBING FIXTURES
- 3.2. ALTERNATE EQUIPMENT MAY BE SPECIFIED, PROVIDED THAT THE SPACE REQUIREMENTS, QUALITY AND PERFORMANCE CHARACTERISTICS, AIR AND FLUID FLOW REQUIREMENTS, WEIGHTS AND POWER REQUIREMENTS ARE EQUAL TO THE SPECIFIED EQUIPMENT. ACCEPTANCE OF ANY ALTERNATE EQUIPMENT SHALL BE BY THE CONSULTANT.
4. COORDINATION
- 4.1. COORDINATE AND VERIFY EXACT LOCATIONS, SIZES, POINTS OF CONNECTION AND INVERT ELEVATIONS OF NEW AND EXISTING BUILDING PLUMBING SERVICE LATERALS ON SITE PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES. MAKE FINAL CONNECTIONS TO LATERALS.

4.2. COORDINATE ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR INCLUDING POWER LOADS OF NEW EQUIPMENT, FIXTURES AND APPLIANCES.

4.3. COORDINATE ACCESS PANEL REQUIREMENTS WITH THE ARCHITECT. PROVIDE PANEL SIZES, FINISH, ELEVATIONS AND LOCATIONS.

4.4. COORDINATE LOCATIONS, SIZES AND ELEVATIONS OF SLEEVES AND PENETRATIONS THRU WALLS, FLOORS, BEAMS (INCLUDING GRADE BEAMS/FOOTINGS) AND SLABS WITH THE ARCHITECT AND STRUCTURAL ENGINEER.

4.5. COORDINATE AND PROVIDE PIPING ROUGH-INS AND CONNECTIONS TO EQUIPMENT, FIXTURES AND APPLIANCES THRU PRE MANUFACTURED CABINET FRAMING SYSTEMS (CHASES).

4.6. THE LOCATION, QUANTITIES AND SIZES OF EXISTING PIPING, FIXTURES, EQUIPMENT, SHUT-OFF VALVES, ETC. INDICATED ON THE PLANS HAS BEEN DERIVED FROM AVAILABLE RECORD DRAWINGS AND FIELD INVESTIGATIONS AND ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL VERIFY ALL SUCH ITEMS PRIOR TO INSTALLATION OF NEW WORK.

4.7. WHERE EXISTING/UNDOCUMENTED PIPING SYSTEMS ARE INSTALLED IN WALLS THAT ARE TO BE REMOVED OR REMODELED, THE CONTRACTOR SHALL IMMEDIATELY IDENTIFY SUCH SYSTEMS TO THE ARCHITECT FOR REVIEW PRIOR TO DEMOLITION OR REROUTE. IF REROUTE IS DEEMED NECESSARY TO MAINTAIN OTHER BUILDING SYSTEM OPERATIONS, THE CONTRACTOR SHALL PROVIDE A SOLUTION TO THE REROUTE FOR REVIEW BY THE ARCHITECT.

4.8. CONTRACTOR SHALL COORDINATE ALL DUCT, PIPE AND EQUIPMENT LOCATIONS WITH ELECTRICAL, STRUCTURAL, PLUMBING AND ALL OTHER TRADES.

4.9. ALL OUTLETS FOR FUTURE CONNECTIONS SHALL BE INSTALLED SO AS TO PERMIT EASY CONNECTION. COORDINATE DUCTWORK, STRUCTURAL CONDITIONS AND ARCHITECTURAL LAYOUT.
5. SLEEVES, CUTTING AND PATCHING
- 5.1. INSTALL SLEEVES AND FRAMES FOR PIPING AND SIMILAR EQUIPMENT TO BE BUILT INTO THE BUILDING AS THE CONSTRUCTION PROGRESSES. IF THESE ARE NOT INSTALLED AT THE TIME OF CONSTRUCTION, THE COST OF CUTTING AND PATCHING AT A LATER DATE, WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

5.2. THE PRIME MECHANICAL CONTRACTOR IS RESPONSIBLE FOR THE CUTTING AND PATCHING OF ALL HOLES AND OPENINGS UP TO AND INCLUDING 200 mm (8") DIAMETER.

5.3. THE PRIME MECHANICAL CONTRACTOR IS TO LOCATE THE EXACT POSITIONS AND DIMENSIONS OF LARGER OPENINGS FOR CUTTING BY THE GENERAL DIVISION.

5.4. SEAL AROUND SERVICES PASSING THROUGH OUT OPENINGS WITH MATERIALS EQUIVALENT TO THE FIRE RATING OF THE WALL FLOOR OR ROOF. ENSURE SEALING IS WEATHERPROOF FOR OPENINGS THROUGH EXTERIOR WALLS AND ROOFS. PROVIDE ANY PATCHING ON REPAIRED SURFACES IF REQUIRED BEFORE SEALING.

5.5. PROVIDE SLEEVES FOR ALL NEW PIPING PASSING THROUGH FLOOR AND ROOF SLABS, BEAMS, CONCRETE WALLS AND SLAB TO SLAB PARTITIONS, ETC.

5.6. SEAL TO BE AIR-TIGHT AROUND ALL DUCTWORK AND PIPING PENETRATIONS THROUGH PARTITIONS, BAFFLES ABOVE CEILINGS, AND THROUGH FLOORS THAT ARE NOT FIRE RATED.

5.7. PROVIDE ALL SLEEVES REQUIRED FOR DUCTWORK, PIPING AND ACCESS OPENINGS.

5.8. FOR INTERIOR WALLS, EXTERIOR WALLS ABOVE GRADE, NON WATERPROOF FLOORS, PROVIDE SCHEDULE 40 STEEL PIPE, MEDIUM CAST IRON OR 18 GAUGE GALVANIZED STEEL.
6. COMMISSIONING AND CLOSEOUT
- 6.1. CONTRACTOR SHALL PROVIDE COMMISSIONING AND REPORT FOR ALL THE NEW EQUIPMENT AND ANY ON-SITE TRAINING REQUIRED FOR OPERATION.

6.2. CLEAN ALL EQUIPMENT AND THE OVERALL INSTALLATION. FOLLOW INITIAL MAINTENANCE INSTRUCTIONS FROM THE MANUFACTURER.

6.3. GUARANTEE IN WRITING FOR THE MATERIAL AND WORKMANSHIP INCLUDING THE MANUFACTURER'S GUARANTEE FOR THE PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE.

6.4. PROVIDE ALL DOCUMENTATION REQUIRED CLOSEOUT DOCUMENTATION (AIR/WATER BALANCE REPORT, NFPA 13 COMPLIANCE LETTER, TEST CERTIFICATES, ETC.) PRIOR TO PROJECT CLOSEOUT & CLOSE OF BUILDING PERMIT.

6.5. CERTIFY IN WRITING FOR ALL WORK HAS BEEN COMPLETED IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.

6.6. SUBMIT TO TENANT & LANDLORD OPERATIONS & MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT PROVIDED UNDER THIS CONTRACT. OPERATION & MAINTENANCE MANUALS SHALL INCLUDE DATA SHEETS, BROCHURES, MAINTENANCE INFORMATION, RECOMMENDED SPARE PARTS LISTS, LUBRICATION INSTRUCTIONS, & START-UP CERTIFICATES.

6.7. SUBMIT TO TENANT & LANDLORD A REVIEWED SET OF ALL SHOP DRAWINGS CLEARLY MARKED WITH "REVIEWED" BY THE INSTALLING CONTRACTOR & THE TENANT ENGINEER.

6.8. SUBMIT TO TENANT & LANDLORD A COMPLETE SET OF AS-BUILT RECORD DRAWINGS. AS-BUILT DRAWINGS SHALL BE PREPARED USING CAD SOFTWARE (I.E. AUTOCAD) & SUBMITTED IN DIGITAL PDF & DWG FORMATS, AND AS A HARD COPY TO EACH THE TENANT & THE LANDLORD. SCANNED REDLINE MARKED-UP DRAWINGS ARE NOT ACCEPTABLE

FIRE EXTINGUISHERS

7. CODES AND STANDARDS: FIRE EXTINGUISHERS ARE TO BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:
- 7.1. NATIONAL FIRE CODE OF CANADA;

7.2. NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS;

7.3. CAN/ULC-S508-02 (INCLUDING AMENDMENTS 1 AND 2), STANDARD FOR THE RATING AND FIRE TESTING OF FIRE EXTINGUISHERS.
8. GENERAL
- 8.1. ALL FIRE EXTINGUISHERS ARE TO BE PRESSURIZED (STORED PRESSURE) RECHARGEABLE TYPE, IN ACCORDANCE WITH NFPA 10, AND UL AND/OR ULC LISTED AND LABELLED FOR THE CLASS OF FIRES AND HAZARD LOCATIONS FOR WHICH THEY ARE SPECIFIED.

8.2. EACH EXTINGUISHER IS TO BE COMPLETE WITH:

8.2.1. A MANUFACTURER'S IDENTIFICATION LABEL INDICATING THE EXTINGUISHER MODEL NUMBER, RATING, AND OPERATING INSTRUCTIONS;

8.2.2. AN ANODIZED ALUMINUM OR CHROME PLATED FORGED BRASS VALVE WITH POSITIVE SQUEEZE GRIP ON-OFF OPERATION AND A PULL-PIN SAFETY LOCK;

8.2.3. DISCHARGE HOSE WITH NOZZLE OR HORN AND HOSE SECURING CLIP;

- 8.2.4. FOR WALL MOUNTED EXTINGUISHERS, A WALL MOUNTING BRACKET.

9. INSTALLATION OF FIRE EXTINGUISHERS

- 9.1. PROVIDE FIRE EXTINGUISHERS OF TYPE(S) IN ACCORDANCE WITH REQUIREMENTS OF NFPA 10.
- 9.2. UNLESS OTHERWISE SHOWN OR SPECIFIED, WALL MOUNT EXTINGUISHERS SUPPLIED WITH EXTINGUISHERS.
- 9.3. DO NOT INSTALL EXTINGUISHERS UNTIL AFTER WALL FINISHING WORK IS COMPLETE.
- 9.4. BE RESPONSIBLE FOR MAINTAINING FIRE EXTINGUISHERS UNTIL SUBSTANTIAL COMPLETION OF THE WORK.
- 9.5. IF EXTINGUISHERS ARE INDICATED ADJACENT TO A DOOR, LOCATE EXTINGUISHERS AT THE STRIKE SIDE OF THE DOOR.

DOMESTIC WATER PIPING AND VALVES

10. DOMESTIC WATER PIPING AND VALVES ARE TO COMPLY WITH FOLLOWING CODES, REGULATIONS AND STANDARDS (AS APPLICABLE):
- 10.1. APPLICABLE LOCAL CODES AND REGULATIONS;

10.2. CAN/CSA B125.1, PLUMBING SUPPLY FITTINGS;

10.3. CAN/CSA B125.3, PLUMBING FITTINGS;

10.4. CAN/CSA B137 SERIES, THERMOPLASTIC PRESSURE PIPING COMPENDIUM;

10.5. NSF/ANSI 14, PLASTICS PIPING SYSTEM COMPONENTS AND RELATED MATERIALS;

10.6. NSF/ANSI 61, DRINKING WATER SYSTEM COMPONENTS – HEALTH EFFECTS;

10.7. NSF/ANSI 372, DRINKING WATER SYSTEM COMPONENTS – LEAD CONTENT.
11. PIPE, FITTINGS AND JOINTS
- 11.1. SOFT COPPER: TYPE "K" SOFT COPPER TO ASTM B88, SUPPLIED IN A CONTINUOUS COIL WITH NO JOINTS IF POSSIBLE, AND COMPLETE WITH, IF JOINTS ARE REQUIRED, COMPRESSION TYPE FLARED JOINT COUPLINGS.

11.2. COPPER PRESSURE COUPLED JOINT: TYPE "L" HARD DRAWN SEAMLESS COPPER TO ASTM B88 WITH "PROGRESS WITH SMART CONNECT FEATURE" COPPER FITTINGS WITH EPDM SEALS, AND PRESSURE TYPE CRIMPED JOINTS MADE BY USE OF A RIGID TOOL CO. MODEL RP 330 OR MODEL RP 210 ELECTRO-HYDRAULIC CRIMPING TOOL.

11.3. SEMI-RIGID POLYETHYLENE TUBING: VERSA FITTINGS AND MFG. INC. ½" DIA., HIGH DENSITY, SEMI-RIGID POLYETHYLENE TUBING, 200 PSI RATED.

11.4. CROSS-LINKED POLYETHYLENE (PEX) TUBING: NON-BARRIER TYPE PEX PIPING IN ACCORDANCE WITH CAN/CSA B137.5, ASTM F876 AND TESTED FOR COMPLIANCE BY AN INDEPENDENT THIRD-PARTY AGENCY, 25/50 FLAME SPREAD/SMOKE DEVELOPED RATED WHEN TESTED TO CAN/ULC S102.2 AND COMPLETE WITH BRASS INSERTS AND CRIMP-RING OR COLD-EXPANSION JOINT FITTINGS AND COUPLINGS.
12. SHUT-OFF VALVES:
- 12.1. BALL VALVES: CLASS 600, 600 PSI WOG RATED FULL PORT BALL TYPE VALVES, EACH COMPLETE WITH A FORGED BRASS BODY WITH SOLDER ENDS, FORGED BRASS CAP, AND BLOW-OUT-PROOF STEM. SOLID FORGED BRASS CHROME PLATED BALL, "TIE-LOUT" OR "TIE-IT" SEAT, AND A REMOVABLE LEVER HANDLE. VALVES IN INSULATED PIPING ARE TO BE COMPLETE WITH STEM EXTENSION. ACCEPTABLE PRODUCTS ARE:

12.1.1. TOYO VALVE CO. FIG. 5049A;

12.1.2. MILWAUKEE VALVE CO. #B#A-155;

12.1.3. KITZ CORPORATION CODE 58;

12.1.4. APOLLO VALVES # 77-200;

12.1.5. WATTS INDUSTRIES (CANADA) INC. #FBVS-3.
13. CHECK VALVES
- 13.1. HORIZONTAL: CLASS 125, BRONZE 200 PSI WOG RATED HORIZONTAL SWING TYPE CHECK VALVES WITH SOLDER ENDS. ACCEPTABLE PRODUCTS ARE:

13.1.1. TOYO VALVE CO. FIG. 237;

13.1.2. MILWAUKEE VALVE CO. #J510;

13.1.3. KITZ CORPORATION CODE 23;

13.1.4. APOLLO VALVES # 61-600.
- 13.2. VERTICAL: EQUAL TO KITZ CORP. CODE 26, BRONZE, 250 PSI WOG RATED VERTICAL LIFT CHECK VALVE WITH SOLDERING ENDS.
14. DRAIN VALVES
- 14.1. MINIMUM 300 PSI WATER RATED, 3/4" DIA., STRAIGHT PATTERN FULL PORT BRONZE BALL VALVES, EACH COMPLETE WITH A THREADED OUTLET SUITABLE FOR COUPLING CONNECTION OF 3/4" DIA. GARDEN HOSE, AND A CAP AND CHAIN. ACCEPTABLE PRODUCTS ARE:

14.1.1. TOYO VALVE CO. FIG. 5046;

14.1.2. DAHL BROTHERS CANADA LTD. FIG. NO. 50. 430;

14.1.3. KITZ CORPORATION CODE 580C;

14.1.4. APOLLO VALVES # 78-104-01;

14.1.5. WATTS INDUSTRIES (CANADA) INC. #B6000-CC.
15. PIPING INSTALLATION REQUIREMENTS
- 15.1. PROVIDE ALL REQUIRED DOMESTIC WATER PIPING.

15.2. PIPING, UNLESS OTHERWISE SPECIFIED, IS TO BE AS FOLLOWS:

15.2.1. FOR UNDERGROUND PIPING LESS THAN 100 MM (4") DIA. INSIDE BUILDING – TYPE "K" SOFT COPPER;

15.2.2. FOR 12 MM (½") DIA. TRAP SEAL PRIMER TUBING LOCATED UNDERGROUND OR IN CONCRETE OR MASONRY CONSTRUCTION – SEMI-RIGID POLYETHYLENE;

15.2.3. FOR PIPE INSIDE BUILDING AND ABOVEGROUND IN SIZES TO 100 MM (4") DIA., EXCEPT IN VERTICAL SHAFTS AND THROUGH FIRE BARRIERS – RIGID CPVC;

15.2.4. FOR BRANCH HOT AND COLD PIPING ABOVEGROUND FROM MAINS AND RISERS TO FIXTURES, FITTINGS, AND EQUIPMENT WHERE FIRE RATED CONSTRUCTION IS NOT PENETRATED – AT YOUR OPTION, PEX TUBING INSTALLED AND JOINED IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS;

15.2.5. FOR UNDERGROUND PIPING OUTSIDE BUILDING TO FIXTURES/OUTLETS AT GRADE LEVEL – FLEXIBLE POLYETHYLENE, SNAKED IN THE TRENCH AND IN A CONTINUOUS LENGTH WHEREVER POSSIBLE;

15.2.6. FOR PIPE INSIDE BUILDING AND ABOVEGROUND IN SIZES TO 100 MM (4") DIA. – TYPE "L" HARD COPPER WITH SOLDER JOINTS OR TYPE "L" HARD COPPER WITH PRESSURE COUPLED MECHANICAL JOINTS.
16. INSTALLATION OF DOMESTIC HOT WATER THERMOSTATIC MIXING VALVES
- 16.1. PROVIDE A DOMESTIC HOT WATER THERMOSTATIC MIXING VALVE ASSEMBLY AND WALL MOUNT.

16.2. ADJUST EACH VALVE TO DESIGN REQUIREMENTS AND CHECK AND TEST OPERATION. SET MAXIMUM TEMPERATURE LIMIT STOPS.

16.3. IDENTIFY EACH VALVE AND ITS WATER TEMPERATURE DELIVERY SETTINGS WITH AN ENGRAVED NAMEPLATE.
17. FLUSHING AND DISINFECTING PIPING
- 17.1. FLUSH AND DISINFECT ALL NEW AND/OR REWORKED DOMESTIC WATER PIPING AFTER LEAKAGE TESTING IS COMPLETE.

DRAINAGE, WASTE & VENT PIPING & VALVES

18. DRAIN AND VENT PIPING INSTALLATION REQUIREMENTS
- 18.1. PROVIDE ALL REQUIRED DRAINAGE AND VENT PIPING, PIPE, UNLESS OTHERWISE SPECIFIED, IS TO BE AS FOLLOWS:
- 18.1.1. FOR UNDERGROUND PIPE INSIDE BUILDING LINES – RIGID PVC SEWER PIPE, MINIMUM 75 MM (3") DIA.;

18.1.2. FOR PIPE INSIDE BUILDING AND ABOVEGROUND IN SIZES LESS THAN OR EQUAL TO 65 MM (2-½") DIA. – TYPE DWV COPPER;

18.1.3. FOR PIPE INSIDE BUILDING AND ABOVEGROUND IN SIZES GREATER THAN OR EQUAL TO 75 MM (3") DIA. – CLASS 4000 CAST IRON;

18.1.4. FOR PIPE INSIDE BUILDING AND ABOVEGROUND IN LIEU OF TYPE DWV COPPER AND CAST IRON, AT YOUR OPTION AND WHERE PERMITTED BY GOVERNING CODES AND REGULATIONS – RIGID PVC DWV;

18.1.5. FOR DRAINAGE PUMP DISCHARGE PIPE CONNECTIONS FROM PUMP TO AND INCLUDING SHUT-OFF AND CHECK VALVE CONNECTIONS – TYPE "DWV" COPPER WITH VITACULIC "COPPER CONNECTION" FITTINGS AND COUPLINGS, OR SCHEDULE 40 GALVANIZED STEEL WITH VITACULIC FITTINGS AND COUPLINGS.
- 18.2. UNLESS OTHERWISE SPECIFIED, SLOPE HORIZONTAL DRAINAGE PIPING ABOVEGROUND IN SIZES TO AND INCLUDING 75 MM (3") DIA. 25 MM (1") IN 1.2 M (4'), AND PIPE 100 MM (4") DIA. AND LARGER 25 MM (1") IN 2.4 M (8').
- 18.3. INSTALL AND SLOPE UNDERGROUND DRAINAGE PIPING TO INVERTS OR SLOPES INDICATED ON DRAWINGS TO FACILITATE STRAIGHT AND TRUE GRADIENTS BETWEEN POINTS SHOWN. VERIFY AVAILABLE SLOPES BEFORE INSTALLING PIPES.
- 18.4. UNLESS OTHERWISE SPECIFIED, SLOPE HORIZONTAL BRANCHES OF VENT PIPING DOWN TO FIXTURE OR PIPE TO WHICH THEY CONNECT WITH A MINIMUM PITCH OF 25 MM (1") IN 1.2 M (4').
- 18.5. EXTEND VENT STACKS UP THROUGH ROOF GENERALLY WHERE SHOWN BUT WITH EXACT LOCATIONS TO SUIT SITE CONDITIONS AND IN ANY CASE A MINIMUM OF 3 M (10') FROM FRESH AIR INTAKES. TERMINATE VENT STACKS A MINIMUM OF 330 MM (13") ABOVE ROOF PARAPETS (INCLUDING ROOF PARAPETS) IN VENT STACK COVERS, WHERE NOT SHOWN ON DRAWINGS, ROUTE VENT PIPING FROM SOURCE TO BUILDING EXTERIOR AS REQUIRED IN ORDER TO SATISFY LOCAL GOVERNING CODES AND AUTHORITY. COORDINATE VENT ROUTING WITH OTHER BUILDING SERVICES AND ENSURE THERE IS NO ARCHITECTURAL IMPACT.
- 18.6. PROVIDE CAST BRASS DIELECTRIC UNIONS AT CONNECTIONS BETWEEN COPPER PIPE AND FERROUS PIPE OR EQUIPMENT.

ELECTRIC DOMESTIC WATER HEATERS

19. POINT-OF-USE ELECTRIC HOT WATER STORAGE TANK AND HEATER
- 19.1. ULC LISTED AND CSA CERTIFIED ELECTRIC HOT WATER HEATER WITH MODEL NUMBER AND PERFORMANCE AS SPECIFIED ON DRAWINGS, AND COMPLETE WITH:
- 19.1.1. 1035 KPA (150 PSI) RATED (WORKING PRESSURE) STEEL TANK, GLASS LINED, POLYURETHANE FOAM INSULATED, COVERED WITH AN ENAMELLED STEEL JACKET WITH ACCESS PANEL, AND EQUIPPED WITH A BOTTOM HOSE END DRAIN COCK;

19.1.2. IMMERSION HEATING ELEMENT IMBEDDED IN MAGNESIUM OXIDE AND SEALED IN A SEAMLESS COPPER TUBE;

19.1.3. SAFETY/SHOCK ANODE ROD;

19.1.4. SURFACE MOUNTED ADJUSTABLE THERMOSTAT AND A HIGH TEMPERATURE SAFETY CUT-OUT;

19.1.5. ASME RATED TEMPERATURE AND PRESSURE RELIEF VALVE;

19.1.6. ROUND GALVANIZED STEEL AUXILIARY CATCH PAN WITH DRAIN HOLE AND CONNECTION SPIGOT.
- 19.2. ACCEPTABLE MANUFACTURERS ARE:
- 19.2.1. RHEEM CANADA LTD.;

19.2.2. JOHN WOOD (OSW WATER HEATING CO.);

19.2.3. SMITH WATER PRODUCTS CO.;

19.2.4. BRADFORD WHITE CANADA INC.;

19.2.5. PVI;

- 19.2.6. RBI WATER HEATERS.

19.3. INSTALLATION OF POINT-OF-USE ELECTRIC HOT WATER STORAGE TANK AND HEATER

- 19.3.1. PROVIDE A POINT-OF-USE DOMESTIC HOT WATER HEATER.
- 19.3.2. PROVIDE A WALL BRACKET (SUPPLIED BY THE HEATER MANUFACTURER) FOR HEATER MOUNTING AND RIGIDLY SECURE IN PLACE.
- 19.3.3. MOUNT HEATER IN A CATCH PAN AND:
- 19.3.4. PIPE TEMPERATURE/PRESSURE RELIEF VALVE OUTLET TO DRAIN;

19.3.5. PIPE AUXILIARY CATCH PAN TO DRAIN.
- 19.3.6. COORDINATE INSTALLATION WITH ELECTRICAL TRADE WHO WILL CONNECT HEATER WITH POWER WIRING;
- 19.3.7. CHECK AND TEST HEATER OPERATION AND, UNLESS OTHERWISE SPECIFIED OR INSTRUCTED, SET THERMOSTAT TO PRODUCE 48.8°C (120°F) HOT WATER.

DRAINAGE, WASTE PIPING SPECIALTIES

20. SUBMITTALS
- 20.1. SHOP DRAWINGS/PRODUCT DATA: SUBMIT SHOP DRAWINGS/PRODUCT DATA SHEETS FOR ALL PRODUCTS SPECIFIED IN THIS SECTION.
21. CLEANOUTS
- 21.1. HORIZONTAL PIPING: TY PIPE FITTING WITH AN EXTRA HEAVY BRASS PLUG SCREWED INTO THE FITTING.

21.2. VERTICAL PIPING: BRONZE OR COPPER CLEANOUT TEES IN COPPER PIPING, EACH COMPLETE WITH A BRONZE FERRULE, AND, FOR CAST IRON PIPING, "BARRETT" TYPE CAST IRON CLEANOUT TEES, EACH GAS AND WATER-TIGHT AND COMPLETE WITH A BOLTED COVER.
22. FLOOR CLEANOUT TERMINATIONS
- 22.1. FACTORY FINISHED CAST IRON TERMINATIONS, EACH ADJUSTABLE AND COMPLETE WITH A CAST IRON BODY WITH NEOPRENE SLEEVE, SOLID, GASKETED, POLISHED NICKEL-BRONZE SCORATED TOP ACCESS COVER TO SUIT THE FLOOR FINISH, A SEAL PLUG, AND CAPTIVE, VANDAL-PROOF, STAINLESS STEEL SECURING HARDWARE. ACCEPTABLE PRODUCTS ARE:

22.1.1. WATTS INDUSTRIES (CANADA) LTD.;

22.1.2. JAY R. SMITH MANUFACTURING CO.;

22.1.3. ZURN INDUSTRIES LTD.;

22.1.4. MFAB INC.
- 22.2. ALL CLEANOUT TERMINATIONS IN AREAS WITH A TILE OR SHEET VINYL FLOOR FINISH ARE TO BE AS ABOVE BUT WITH A SQUARE TOP IN LIEU OF A ROUND TOP.
23. FLOOR DRAINS, FUNNEL FLOOR DRAINS AND HUB DRAINS
- 23.1. UNLESS OTHERWISE SPECIFIED OR SCHEDULED, FLOOR DRAINS AND FUNNEL FLOOR DRAINS ARE TO BE VANDAL-PROOF DRAINS IN ACCORDANCE WITH THE DRAWING SCHEDULE, EACH COMPLETE WITH A CAST IRON BODY AND A TRAP SEAL PRIMER CONNECTION. ALL CAST IRON COMPONENTS ARE TO BE FACTORY FINISHED WITH LATEX BASED PAINT COATING.

23.2. ALL FLOOR DRAINS IN AREAS WITH A TILE OR SHEET VINYL FLOOR FINISH ARE TO BE AS ABOVE BUT WITH A SQUARE GRATE IN LIEU OF A ROUND GRATE.

23.3. ACCEPTABLE MANUFACTURERS ARE:

23.3.1. WATTS INDUSTRIES (CANADA) LTD.;

23.3.2. JAY R. SMITH MANUFACTURING CO.;

23.3.3. ZURN INDUSTRIES LTD.;

23.3.4. MFAB INC.
24. INSTALLATION OF CLEANOUTS
- 24.1. PROVIDE CLEANOUTS IN DRAINAGE PIPING IN LOCATIONS AS FOLLOWS:

24.1.1. IN THE BUILDING DRAIN OR DRAINS AS CLOSE AS POSSIBLE TO THE INNER FACE OF THE OUTSIDE WALL, AND, IF A BUILDING TRAP IS INSTALLED, LOCATE THE CLEANOUT ON THE DOWNSTREAM SIDE OF THE BUILDING TRAP;

24.1.2. AT OR AS CLOSE AS PRACTICABLE TO THE FOOT OF EACH DRAINAGE STACK;

24.1.3. AT MAXIMUM 50' INTERVALS IN HORIZONTAL PIPE 4" DIA. AND SMALLER;

24.1.4. AT MAXIMUM 100' INTERVALS IN HORIZONTAL PIPE LARGER THAN 4" DIA.;

24.1.5. WHEREVER ELSE SHOWN ON DRAWINGS.
- 24.2. CLEANOUTS ARE TO BE SAME DIAMETER AS PIPE IN PIPING TO 100 MM (4") DIA., AND NOT LESS THAN 100 MM (4") DIA. IN PIPING LARGER THAN 100 MM (4") DIA.
- 24.3. WHERE CLEANOUTS IN VERTICAL PIPING ARE CONCEALED BEHIND WALLS OR PARTITIONS, INSTALL CLEANOUTS NEAR FLOOR AND SO COVER IS WITHIN 25 MM (1") OF THE FINISHED FACE OF THE WALL OR PARTITION.
25. INSTALLATION OF FLOOR CLEANOUT TERMINATIONS
- 25.1. WHERE CLEANOUTS OCCUR IN HORIZONTAL INACCESSIBLE UNDERGROUND PIPING, EXTEND THE CLEANOUT TY FITTING UP TO THE FLOOR, AND PROVIDE A CLEANOUT TERMINATION SET FLUSH WITH THE FINISHED FLOOR.

25.2. IN WATERPROOF FLOORS, ENSURE THAT EACH CLEANOUT TERMINATION IS EQUIPPED WITH A FLASHING CLAMP DEVICE. CLEANOUT TERMINATIONS ARE TO SUIT THE FLOOR FINISH.

25.3. WHERE CLEANOUT TERMINATIONS OCCUR IN FINISHED AREAS, CONFIRM LOCATIONS PRIOR TO ROUGH-IN AND ARRANGE PIPING TO SUIT.

25.4. ENSURE THAT CLEANOUT TERMINATION COVERS IN TILED FLOOR ARE SQUARE IN LIEU OF ROUND.
26. INSTALLATION OF FLOOR DRAINS, FUNNEL FLOOR DRAINS AND HUB DRAINS
- 26.1. PROVIDE FLOOR DRAINS, FUNNEL FLOOR DRAINS AND HUB DRAINS.

26.2. COORDINATE LOCATION OF FLOOR DRAINS, FUNNEL FLOOR DRAINS AND HUB DRAINS WITH EQUIPMENT PROVIDED BY MECHANICAL DIVISION AND OWNER'S SUPPLIED EQUIPMENT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

26.3. EQUIP EACH DRAIN WITH A TRAP.

26.4. IN EQUIPMENT ROOMS AND SIMILAR AREAS, EXACTLY LOCATE FLOOR DRAINS TO SUIT THE LOCATION OF MECHANICAL EQUIPMENT AND EQUIPMENT INDIRECT DRAINAGE PIPING. IN WASHROOMS, EXACTLY LOCATE FLOOR DRAINS TO AVOID INTERFERENCE WITH TOILET PARTITIONS.

26.5. CONFIRM THE EXACT LOCATION OF DRAINS PRIOR TO ROUGHING IN. WHERE FLOOR DRAINS OCCUR IN WASHROOMS COORDINATE LOCATIONS WITH TOILET PARTITION INSTALLATIONS.

26.6. TEMPORARILY PLUG AND COVER FLOOR DRAINS DURING CONSTRUCTION PROCEDURES. REMOVE PLUGS AND COVERS DURING FINAL CLEANUP WORK AND WHEN REQUESTED, DEMONSTRATE FREE AND CLEAR OPERATION OF EACH DRAIN. REPLACE ANY DAMAGED GRATES, AND REFINISH ANY AREAS OF THE DRAIN WHERE THE CAST IRON FINISH HAS BEEN DAMAGED OR REMOVED, INCLUDING RUSTED AREAS.

PLUMBING FIXTURES AND FITTINGS

27. GENERAL RE: PLUMBING FIXTURES AND FITTINGS
- 27.1. FIXTURES AND FITTINGS, WHERE APPLICABLE, ARE TO BE IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA B45 SERIES, GENERAL REQUIREMENTS FOR PLUMBING FIXTURES, INCLUDING SUPPLEMENTS, ASME A112.1.18.1/CSA B125.1, PLUMBING SUPPLY FITTINGS, AND CSA B125.3, PLUMBING FITTINGS.

27.2. BARRIER-FREE FIXTURES AND FITTINGS ARE TO BE IN ACCORDANCE WITH GOVERNING CODE REQUIREMENTS.

27.3. UNLESS OTHERWISE SPECIFIED, VITREOUS CHINA, PORCELAIN ENAMELLED, AND ACRYLIC FINISHED FIXTURES ARE TO BE WHITE.

27.4. UNLESS OTHERWISE SPECIFIED, FITTINGS AND PIPING EXPOSED TO VIEW ARE TO BE CHROME PLATED AND POLISHED.

27.5. FITTINGS LOCATED IN AREAS OTHER THAN PRIVATE WASHROOMS ARE TO BE VANDAL-PROOF.

27.6. FIXTURE CARRIERS ARE TO BE SUITABLE IN ALL RESPECTS FOR THE FIXTURE THEY SUPPORT AND CONSTRUCTION IN WHICH THEY ARE LOCATED.

27.7. FLOOR FLANGES FOR FLOOR MOUNTED WATER CLOSETS ARE TO BE CAST IRON OR BRASS, SECURED TO FLOOR TO PREVENT MOVEMENT AND COMPLETE WITH A WAX SEAL AND BRASS OR STAINLESS STEEL BOLTS, NUTS, AND WASHERS. PLASTIC FLOOR FLANGES WILL NOT BE ACCEPTABLE.

27.8. PROPER SEAL TO MATE WITH FIXTURE CARRIER BRASS AND PRODUCE A WATER-TIGHT INSTALLATION.

27.9. EXPOSED TRAPS FOR FIXTURES NOT EQUIPPED WITH INTEGRAL TRAPS, SUCH AS LAVATORIES, ARE TO BE ADJUSTABLE CHROME PLATED CAST BRASS "P" TRAPS WITH CLEANOUTS, MINIMUM #17 GAUGE CHROME PLATED TUBULAR EXTENSIONS, AND CHROME PLATED ESOUTHCONEs, ALL TO SUIT FIXTURE TYPE AND DRAIN CONNECTION.

27.10. CONCEALED TRAPS FOR FIXTURES NOT EQUIPPED WITH INTEGRAL TRAPS, SUCH AS COUNTER SINKS, ARE TO BE ADJUSTABLE CAST BRASS WITH CLEANOUT PLUGS, ALL TO SUIT FIXTURE TYPE AND DRAIN CONNECTION.

27.11. EXPOSED SUPPLIES FOR FIXTURES WHICH DO NOT HAVE SUPPLY TRIM/FITTINGS WITH INTEGRAL STOPS, I.E. LAVATORIES, ARE TO BE SOLID CHROME PLATED BRASS ANGLE VALES WITH SCREWDRIVER STOPS FOR PUBLIC AREAS, WHEEL HANDLE STOPS FOR PRIVATE AREAS, FLEXIBLE STAINLESS STEEL RISERS, AND STAINLESS STEEL OR CHROME PLATED STEEL ESOUTHCONEs, ALL ARRANGED AND SIZED TO SUIT FIXTURE.

27.12. WATER PIPING AS SPECIFIED, COMPLETE WITH BALL TYPE SHUT-OFF VALVES AS SPECIFIED WITH WATER PIPING, OR DAHL BROS. CANADA LTD. ¼ TURN MIN BALL VALVES.

BASEBOARD HEATERS

28. DIMPLEX, "BN-ELITE PRO" SERIES, CSA APPROVED, STANDARD WATT DENSITY ELECTRIC BASEBOARD HEATERS AS SIZED ON DRAWINGS, EACH COMPLETE WITH FOLLOWING FEATURES:
- 28.1. CONSTRUCTION – CONTOURED FRONT AND TOP CONSTRUCTED OF EXTRUDED ALUMINUM WITH FRONT AIR INTAKE AND EXHAUST VENTS; LARGE REAR ENTRY JUNCTION BOXES ON BOTH SIDES; KNOCKOUTS FOR POWER CONNECTION;

28.2. ELEMENTS – STAINLESS STEEL SHEATH ENCLOSING A NICKEL CHROMIUM FINNED TUBULAR ELEMENT; ALUMINUM FINS;

28.3. FINISH – HYBRID POLYESTER EPOXY POWDER COAT, TO CONSULTANT'S DIRECTION;

28.4. THERMOSTAT – ADJUSTABLE, INTEGRAL, TAMPERPROOF, 7°C – 30°C (45°F – 85°F) RANGE;

28.5. FULL LENGTH AUTOMATIC OVERHEAT PROTECTION;

NATURAL GAS PIPING SYSTEM

29. SUBMITTALS
- 29.1. SUBMIT SHOP DRAWINGS/PRODUCT DATA FOR ALL PRODUCTS SPECIFIED IN PART 2 OF THIS SECTION EXCEPT FOR PIPE, FITTINGS, AND UNIONS. INDICATE PERFORMANCE CRITERIA, CONFORMANCE TO APPROPRIATE REFERENCE STANDARDS, AND LIMITATIONS.
30. QUALITY ASSURANCE
- 30.1. ALL GAS SYSTEM WORK IS TO BE IN ACCORDANCE WITH REQUIREMENTS OF CAN/CSA-B149.1, NATURAL GAS AND PROPANE INSTALLATION CODE, AS AMENDED BY LOCAL GAS CODES.

30.2. ALL GAS SYSTEM WORK IS TO BE PERFORMED ONLY BY LICENSED GAS PIPE FITTERS (HOLDING GAS TECHNICIAN 1 CERTIFICATE) AUTHORIZED UNDER THE

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

4	ISSUED FOR TENDER	2025-03-24
3	ISSUED FOR PERMIT	2025-03-18
2	ISSUED FOR 99% COORDINATION	2025-02-24
1	ISSUED FOR 86% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.ccm



- BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
- INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

MECHANICAL
SPECIFICATIONS

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	M. OMAR	DATE:	JUNE 2023
APPROVED:	B. BROWN	SCALE:	AS SHOWN

DRAWING No:

		CLIENT
<div> <div>31.3. SITE INSPECTION AND START-UP REPORT: SUBMIT A SITE INSPECTION AND START-UP REPORT FROM THE MANUFACTURER'S REPRESENTATIVE AS SPECIFIED IN PART 3 OF THIS SECTION.</div> <div>31.4. SPARE AIR FILTERS: SUBMIT SPARE AIR FILTERS AS SPECIFIED IN PART 2 OF THIS SECTION.</div> <div>31.5. WALL OPENING COORDINATION: SUPPLY REVIEWED COPIES OF CURB ASSEMBLY SHOP DRAWINGS OR PRODUCT DATA SHEETS TO THE TRADE WHO WILL CUT THE WALL OPENINGS FOR DUCTWORK, AND ENSURE THAT THE OPENINGS ARE PROPERLY SIZED AND LOCATED.</div> <div>31.6. EXTENDED WARRANTIES: SUBMIT SIGNED COPIES OF THE MANUFACTURER'S EXTENDED WARRANTIES AS FOLLOWS: <div> <div>31.6.1. STAINLESS STEEL GAS FIRED UNIT HEAT EXCHANGER: TEN YEARS;</div> <div>31.6.2. REFRIGERANT COMPRESSOR(S): FIVE YEARS;</div> <div>31.6.3. INTEGRATED MODULAR CONTROL: THREE YEARS.</div> </div> </div> <div>32. QUALITY ASSURANCE <div> <div>32.1. HEATING AND AIR CONDITIONING EQUIPMENT IS TO BE RATED (CAPACITY, PERFORMANCE, EFFICIENCY AND SOUND) AND CERTIFIED IN ACCORDANCE WITH REQUIREMENTS OF THE FOLLOWING AIR-CONDITIONING AND REFRIGERATION INSTITUTE STANDARDS: <div> <div>32.1.1. ARI 210/240, PERFORMANCE RATING OF UNITARY AIR-CONDITIONING AND AIR-SOURCE HEAT PUMP EQUIPMENT;</div> <div>32.1.2. ARI 270, SOUND RATING OF OUTDOOR UNIT EQUIPMENT;</div> <div>32.1.3. ARI 340/360, COMMERCIAL AND INDUSTRIAL UNITARY AIR-CONDITIONING AND HEAT PUMP EQUIPMENT.</div> </div> </div> <div>32.2. HEATING AND AIR CONDITIONING EQUIPMENT IS ALSO TO BE IN ACCORDANCE WITH REQUIREMENT OF THE FOLLOWING CODES, STANDARDS, AND REGULATIONS: <div> <div>32.2.1. CSA B52, MECHANICAL REFRIGERATION CODE;</div> <div>32.2.2. CAN/CSA-C22.2 NO. 236/UL 1995, HEATING AND COOLING UNITS;</div> <div>32.2.3. ANSI/ASHRAE 90.1, ENERGY STANDARD FOR BUILDINGS EXCEPT LOW RISE RESIDENTIAL BUILDINGS;</div> <div>32.2.4. CSA OR ETL CERTIFICATION AND LABELLING FOR ALL ELECTRICAL COMPONENTS;</div> <div>32.2.5. CAN/CSA B149, NATURAL GAS AND PROPANE CODE;</div> <div>32.2.6. GOVERNING LOCAL CODES AND REGULATIONS.</div> </div> </div> <div>32.3. GAS FIRED HEATING AND AIR CONDITIONING UNITS ARE TO BE INSTALLED BY LICENSED JOURNEYMAN GAS FITTERS.</div> <div>32.4. ACCEPTABLE MANUFACTURERS ARE: <div> <div>32.4.1. LENOX INDUSTRIES INC.;</div> <div>32.4.2. CARRIER ENTERPRISE CANADA;</div> <div>32.4.3. TRANE CANADA INC.;</div> <div>32.4.4. JOHNSON CONTROLS YORK;</div> <div>32.4.5. DAKIN INDUSTRIES LTD.;</div> <div>32.4.6. AARON;</div> <div>32.4.7. GREENHECK FAN CORP.;</div> <div>32.4.8. PRICE INDUSTRIES LTD.;</div> </div> </div> <div>33. AIR HANDLING UNITS – PACKAGED OUTDOOR <div> <div>33.1. PACKAGE TYPE, FACTORY TESTED, OUTDOOR, WEATHERPROOF HEATING AND AIR CONDITIONING UNITS AS PER THE DRAWING SCHEDULE.</div> <div>33.2. CABINET: CONSTRUCTED OF MINIMUM #18 GAUGE GALVANIZED STEEL PANELS ERECTED ON FULL PERIMETER MINIMUM #14 GAUGE GALVANIZED STEEL BASE RAILS WITH LIFTING LUGS, FINISHED WITH TWO COATS OF BAKED EXTERIOR ENAMEL PAINT ON PRIMER, ARRANGED AND CONSTRUCTED FOR AIRFLOW CONFIGURATIONS AS SHOWN, AND COMPLETE WITH COLLARS FOR ELECTRICAL POWER AND DUCT CONNECTION OPENINGS, AND THE FOLLOWING: <div> <div>33.2.1. A FULLY INSULATED BASE, AND INSULATION FOR ALL PANELS ADJACENT TO CONDITIONED AIR, WITH 50 MM (2") THICK NEOPRENE FACED, 32 KG/M³ (2 LB/FT³) DENSITY INSULATION MEETING FLAME SPREAD AND SMOKE DEVELOPED RATING REQUIREMENTS OF CAN/ULC S102 AND SECURED IN PLACE SUCH THAT INSULATION WILL NOT SAG AND FIBRES WILL NOT ERODE OR ENTER THE AIRSTREAM;</div> <div>33.2.2. HINGED ACCESS PANELS, EACH AIR AND WATER SEALED AND EQUIPPED WITH ¼ TURN LATCHING HANDLES, AND PROVIDED FOR COMPRESSOR/CONTROLS/HEATING AREAS, BLOWER ACCESS, AND AIR FILTER AND ECONOMIZER ACCESS.</div> </div> </div> <div>33.3. COMPRESSOR/CONDENSER & REFRIGERATION: VIBRATION ISOLATED SCROLL TYPE HERMETICALLY SEALED COMPRESSOR(S) WITH DIRECT DRIVE VERTICAL DISCHARGE PROPELLER TYPE CONDENSER FAN(S) AND COPPER TUBE/ALUMINIUM FIN FACTORY LEAK AND PRESSURE TESTED CONDENSER COIL(S), AND EQUIPPED WITH THE FOLLOWING: <div> <div>33.3.1. PVC COATED CONDENSER FAN GUARD AND CONDENSER COIL GUARD;</div> <div>33.3.2. PERMANENTLY LUBRICATED TOTALLY ENCLOSED, RESILIENTLY MOUNTED, OVERLOAD PROTECTED CONDENSER FAN MOTOR(S) CONFORMING TO REQUIREMENTS OF THE MECHANICAL WORK SECTION ENTITLED BASIC MECHANICAL MATERIALS AND METHODS, TOTALLY ENCLOSED FROM THE WEATHER.</div> <div>33.3.3. A REFRIGERATION SYSTEM CAPABLE OF OPERATING DOWN TO -17°C(0°F) WITHOUT INSTALLATION OF ADDITIONAL CONTROLS, COMPLETE WITH SELF-SEALING DISCHARGE, SUCTION AND LIQUID LINE SERVICE GAUGE PORTS, FREEZE-STATS, EXPANSION VALVES, COPPER REFRIGERANT TUBING AND INSULATION WHERE REQUIRED, LIQUID LINE FILTER DRIER, A FULL CHARGE OF R410A REFRIGERANT, AUTOMATIC RESET HIGH AND LOW PRESSURE COMPRESSOR CIRCUIT CONTROLS, AND FAN CONTROL FOR -34°C (-30°F) LOW AMBIENT OPERATION;</div> </div> </div> <div>33.3.4. COPPER TUBE/ALUMINIUM FIN FACTORY TESTED EVAPORATOR COIL WITH THERMAL EXPANSION VALVE WITH ADJUSTABLE SUPERHEAT AND EXTERNAL EQUALIZER, AND NON-CORROSIVE CONDENSATE DRAIN PAN REMOVABLE FOR CLEANING, DESIGNED TO PREVENT STANDING WATER AND EQUIPPED WITH A DRAIN CONNECTION WITH DEEP SEAL TRAP.</div> <div>33.4. COOLING CONTROLS: COOLING CONTROLS ARE TO INCLUDE THE FOLLOWING: <div> <div>33.4.1. SMOKE DETECTORS IN BOTH SUPPLY AND RETURN AIR STREAMS;</div> <div>33.4.2. MOTORIZED NORMALLY CLOSED FRESH AIR AND EXHAUST AIR DAMPERS AND NORMALLY OPEN RETURN AIR DAMPER (EQUAL TO T. A. MORRISON TAMCO SERIES 1000 FOR RETURN AIR AND SERIES 9000 FOR FRESH AIR AND EXHAUST AIR), WITH 24 VOLT SPRING RETURN BELMO OR EQUAL OPERATORS AND A CONTROL PACKAGE TO AUTOMATICALLY VARY THE OUTSIDE AIR QUANTITY;</div> <div>33.4.3. ADJUSTABLE MIXED AIR CONTROLS TO MAINTAIN 13°C (55°F OR AS INDICATED) MIXED AIR TEMPERATURE;</div> <div>33.4.4. UP TO FOUR STAGES OF COOLING CONTROL;</div> <div>33.4.5. CONTROLS FOR BLOWER ON DELAY OF UP TO SIXTY SECONDS AFTER A COOLING DEMAND HAS BEEN RECEIVED, WITH A DEFAULT VALUE OF ZERO, AND CONTROLS TO ALLOW BLOWER OFF DELAY OF UP TO TWO HUNDRED AND FORTY SECONDS AFTER COOLING DEMAND HAS ENDED, WITH A DEFAULT VALUE OF ZERO;</div> <div>33.4.6. MINIMUM COMPRESSOR ON AND OFF TIME OF THREE HUNDRED SECONDS, BOTH ADJUSTABLE BETWEEN SIXTY AND FIVE HUNDRED AND TEN SECONDS;</div> <div>33.4.7. DEFAULT MAXIMUM HIGH PRESSURE SWITCH TRIP OCCURRENCE DURING COOLING OR DEHUMIDIFICATION CYCLE OF THREE (ADJUSTABLE BETWEEN ONE AND EIGHT OCCURRENCES), WITH COMPRESSOR LOCK-OUT IF MAXIMUM OCCURRENCE LIMIT IS REACHED, AND DIGITAL OUTPUT FOR SERVICE ACTIVATED;</div> <div>33.4.8. LOW PRESSURE TRIP READ DELAY OF FIVE MINUTES (ADJUSTABLE BETWEEN ZERO AND THIRTY-FOUR MINUTES) IF COMPRESSOR OFF TIME HAS BEEN LESS THAN FOUR HOURS (ADJUSTABLE BETWEEN ONE AND SIX HOURS) AND THE OUTDOOR TEMPERATURE IS LESS THAN 21°C (70°F), ADJUSTABLE BETWEEN -12°C AND 38°C;</div> <div>33.4.9. LOW PRESSURE TRIP READ DELAY OF FIFTEEN MINUTES (ADJUSTABLE BETWEEN ZERO AND THIRTY-FOUR MINUTES) IF COMPRESSOR OFF TIME HAS BEEN LESS THAN FOUR HOURS (ADJUSTABLE BETWEEN ONE AND SIX HOURS) AND THE OUTDOOR TEMPERATURE IS LESS THAN 21°C (70°F), ADJUSTABLE BETWEEN -12°C AND 38°C;</div> <div>33.4.10. LOW PRESSURE TRIP READ DELAY OF TWO MINUTES (ADJUSTABLE BETWEEN ZERO AND THIRTY-FOUR MINUTES) IF THE COMPRESSOR OFF TIME HAS BEEN LESS THAN FOUR HOURS AND THE OUTDOOR AIR TEMPERATURE IS 21°C (70°F) OR GREATER;</div> <div>33.4.11. LOW PRESSURE TRIP READ DELAY OF EIGHT MINUTES (ADJUSTABLE BETWEEN ZERO AND THIRTY-FOUR MINUTES) IF THE COMPRESSOR OFF TIME HAS BEEN FOUR HOURS AND THE OUTDOOR AIR TEMPERATURE IS 21°C (70°F) OR GREATER;</div> <div>33.4.12. EACH PRESSURE SWITCH TRIP OCCURRENCE (EITHER HIGH OR LOW) TO RECORD AN ERROR IN NON-VOLATILE MEMORY AND IDENTIFY THE COMPRESSOR CIRCUIT;</div> <div>33.4.13. LOW OUTDOOR AIR TEMPERATURE COMPRESSOR LOCKOUT SET-POINT OF -18°C (0°F) FOR EACH COMPRESSOR CIRCUIT, INDIVIDUALLY ADJUSTABLE FROM 27°C (80°F) TO -34°C (-30°F);</div> <div>33.4.14. MAXIMUM ALLOWABLE EVAPORATOR FREEZE-STAT TRIP OCCURRENCE OF THREE (ADJUSTABLE BETWEEN ONE AND FOUR OCCURRENCES) DURING COOLING DEMAND, WITH CIRCUITRY TO SHUT-OFF THE COMPRESSOR EACH TIME A FREEZE-STAT TRIP OCCURS AND RECORD AN ERROR IN NON-VOLATILE MEMORY, AND IF THE MAXIMUM LIMIT IS REACHED, THE COMPRESSOR IS TO BE LOCKED-OUT AND A DIGITAL OUTPUT FOR SERVICE IS TO BE DISPLAYED;</div> </div> </div> <div>33.4.15. CONDENSER FAN CONTROL INCLUDING: <div> <div>33.4.15.1. SIX SECOND (ADJUSTABLE BETWEEN ZERO AND SIXTEEN SECONDS) BETWEEN CONDENSER FAN SHUT-OFF AND RESTART TO PREVENT REVERSE ROTATION OF THE FAN(S);</div> <div>33.4.15.2. COOLING STAGE LOW OUTDOOR TEMPERATURE SET-POINT CONTROL (4 TO 13°C (40 TO 55°F) DEPENDING ON NUMBER OF FANS AND ADJUSTABLE BETWEEN 16°C AND -12°C (60°F AND 10°F) TO REDUCE AIRFLOW THROUGH THE CONDENSER BY TURNING OFF SOME OR ALL FANS, DEPENDING ON THE NUMBER OF CONDENSER FANS.</div> </div> </div> <div>33.5. FILTERS: ROLL TYPE GLASS FIBRE MESH CONSTRUCTION FILTER MEDIA FACTORY INSTALLED WHEN THE UNIT IS SHIPPED, AND DISPOSABLE, 50 MM (2") THICK, MLEATED, UL CLASS 1, MERV 7 RATED, METAL FRAMED FILTERS WITH AN INITIAL LOADING OF FILTERS, AND A SPARE SET OF FILTERS FOR EACH UNIT, SUPPLIED LOOSE IN SEALED CONTAINERS.</div> <div>33.6. SUPPLY AIR BLOWER: CENTRIFUGAL, STATICALLY AND DYNAMICALLY BALANCED, REMOVABLE (SLIDE-OUT) BLOWER ASSEMBLY COMPLETE WITH: <div> <div>33.6.1. MOTOR, DRIVE ASSEMBLY AND GUARD CONFORMING TO REQUIREMENTS SPECIFIED IN THE MECHANICAL WORK SECTION ENTITLED BASIC MECHANICAL MATERIALS AND METHODS;</div> </div> </div> <div>33.7. MODULAR CONTROLLER: INTEGRAL SOLID-STATE CONTROL BOARD TO OPERATE THE UNIT, COMPATIBLE IN ALL RESPECTS WITH THE BUILDING AUTOMATION SYSTEM, AND WITH BUILT-IN FUNCTIONS AS FOLLOWS: <div> <div>33.7.1. BLOWER ON/OFF DELAY;</div> <div>33.7.2. CONTROL PARAMETER DEFAULTS;</div> </div> </div> </div></div></div></div></div>		<div> <div> <div>33.7.3. SERVICE RELAY OUTPUT;</div> <div>33.7.4. DIRTY FILTER SWITCH INPUT;</div> <div>33.7.5. DEHUMIDISTAT INPUT;</div> <div>33.7.6. ECONOMIZER CONTROL;</div> <div>33.7.7. GAS VALVE DELAY BETWEEN STAGES;</div> <div>33.7.8. UNIT DIAGNOSTICS;</div> <div>33.7.9. DIAGNOSTICS CODE STORAGE;</div> <div>33.7.10. INDOOR AIR QUALITY INPUT;</div> <div>33.7.11. LOW AMBIENT CONTROLS;</div> <div>33.7.12. MINIMUM RUN TIME;</div> <div>33.7.13. NIGHT SETBACK MODE;</div> <div>33.7.14. SMOKE ALARM MODE;</div> <div>33.7.15. LOW PRESSURE CONTROL;</div> <div>33.7.16. THERMOSTAT BOUNCE RELAY;</div> <div>33.7.17. 3-DIGIT DISPLAY AND DEGREES F OR C DISPLAY;</div> <div>33.7.18. HEAT/COOL THERMOSTAT COMPATIBLE WITH WARM-UP MODE.</div> </div> <div>33.8. ROOM THERMOSTAT: SURFACE WALL MOUNTING (ON A RECESSED BOX) ADJUSTABLE 24 VOLT THERMOSTAT SUPPLIED LOOSE WITH THE UNIT AND EQUIPPED WITH A FAN AUTO-ON SWITCH, OFF-HEAT-COOL-AUTO SWITCH, NIGHT SET-BACK CONTROLS, AND DIGITAL THERMOMETER AND SET-POINT DISPLAY.</div> <div>33.9. ROOF MOUNTING CURB: MINIMUM 450 MM (18") HIGH PREFABRICATED AND INSULATED CURB CONFORMING TO REQUIREMENTS OF THE NATIONAL ROOFING CONTRACTORS ASSOCIATION.</div> <div>33.10. SEISMIC RESTRAINT HARDWARE: FACTORY SECURED SEISMIC RESTRAINT CONNECTION HARDWARE.</div> <div>33.11. INSTALLATION OF AIR HANDLING UNITS – PACKAGED OUTDOOR <div> <div>33.11.1. PROVIDE OUTDOOR HEATING AND AIR CONDITIONING UNITS WHERE SHOWN.</div> <div>33.11.2. PROVIDE ALL REQUIRED RIGGING AND HOISTING/MOVING EQUIPMENT REQUIRED TO MOVE EACH UNIT TO THE REQUIRED LOCATIONS. DO ALL RIGGING/HOISTING/MOVING IN</div></div></div></div>

ROOFTOP UNIT SCHEDULE																	
TAG	LOCATION	WEIGHT (LBS)	COOLING			HEATING			SUPPLY AIR FAN				ELECTRICAL			BASIS OF DESIGN	REMARKS
			TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	POWER INPUT W/O BLOWER (kW)	FUEL SOURCE	INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	SUPPLY AIR (CFM)	ESP (IN WG)	POWER INPUT (kW)	MOTOR HP	POWER SUPPLY (V/PH/Hz)	MCA	MOCP		
RTU-1	ROOFTOP AT NORTH SIDE OF BUILDING	1245	95.4	65.4	5.58	NATURAL GAS	180	146	3,300	0.75	2.01	3	575/3/60	18.8	20	YORK SINGLE PACKAGE R-454B AIR CONDITIONER MODEL # KJ090N18R5BBAAE2A1	C/W 2-STAGE NATURAL GAS HEAT, ECONOMIZER W/BAROMETRIC RELIEF AND HOODS, DUAL ENTHALPY KIT (FIELD INSTALLED)
RTU-2	ROOFTOP AT SOUTH SIDE OF BUILDING	1245	101.1	68.5	6.28	NATURAL GAS	180	146	3,300	0.75	1.83	3	575/3/60	17.3	25	YORK SINGLE PACKAGE R-454B AIR CONDITIONER MODEL # KJ102S18R5BBAAE2A1	C/W 2-STAGE NATURAL GAS HEAT, ECONOMIZER W/BAROMETRIC RELIEF AND HOODS, DUAL ENTHALPY KIT (FIELD INSTALLED)

ELECTRIC DOMESTIC HOT WATER HEATER SCHEDULE								
TAG	LOCATION	STORAGE CAPACITY (GAL.)	RECOVERY RATE @ 100F (GAL/H)	SHIPPING WEIGHT (LBS.)	INPUT (kW)	ELECTRICAL (V/Ph/Hz)	BASIS OF DESIGN	REMARKS
DHWT-1	JANITOR ROOM	20	21	–	5	208/3/60	A.O. SMITH DEL-20S-5	

ELECTRIC BASEBOARD HEATER SCHEDULE					
TAG	KW / BTU	VOLTS/PH/Hz	LENGTH (IN)	BASIS OF DESIGN	REMARKS
B-1	0.5 / 1706	120/1/60	22	STELPRO – CODE#SPR0501W	C/W INTEGRAL THERMOSTAT
B-2	0.75 / 2560	208/1/60	36	STELPRO – CODE#SPR1002W	C/W INTEGRAL THERMOSTAT
B-3	1 / 2560	208/1/60	36	STELPRO – CODE#SPR1002W	C/W INTEGRAL THERMOSTAT
B-4	1.5 / 2560	208/1/60	50	STELPRO – CODE#SPR1508W	C/W INTEGRAL THERMOSTAT

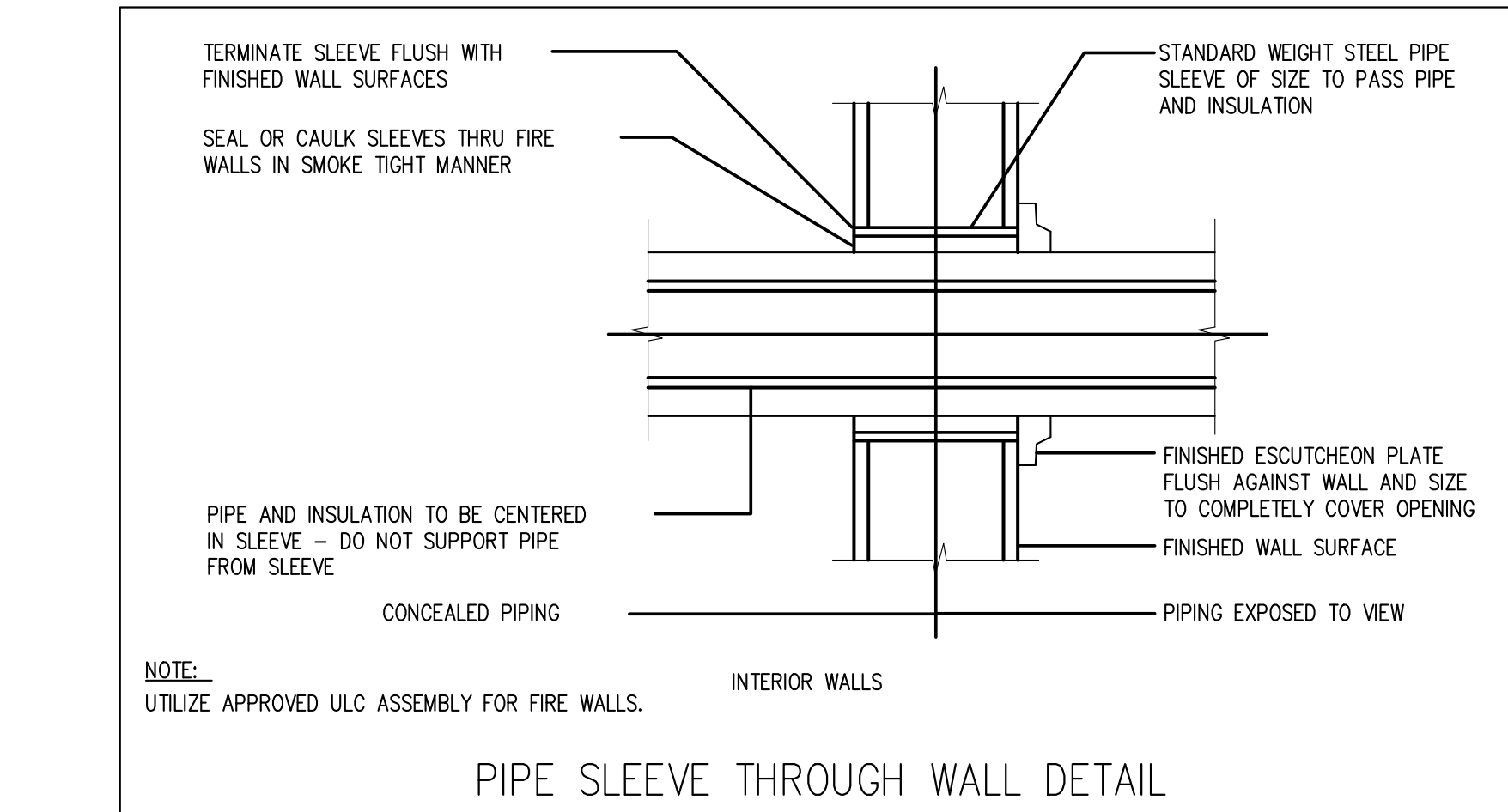
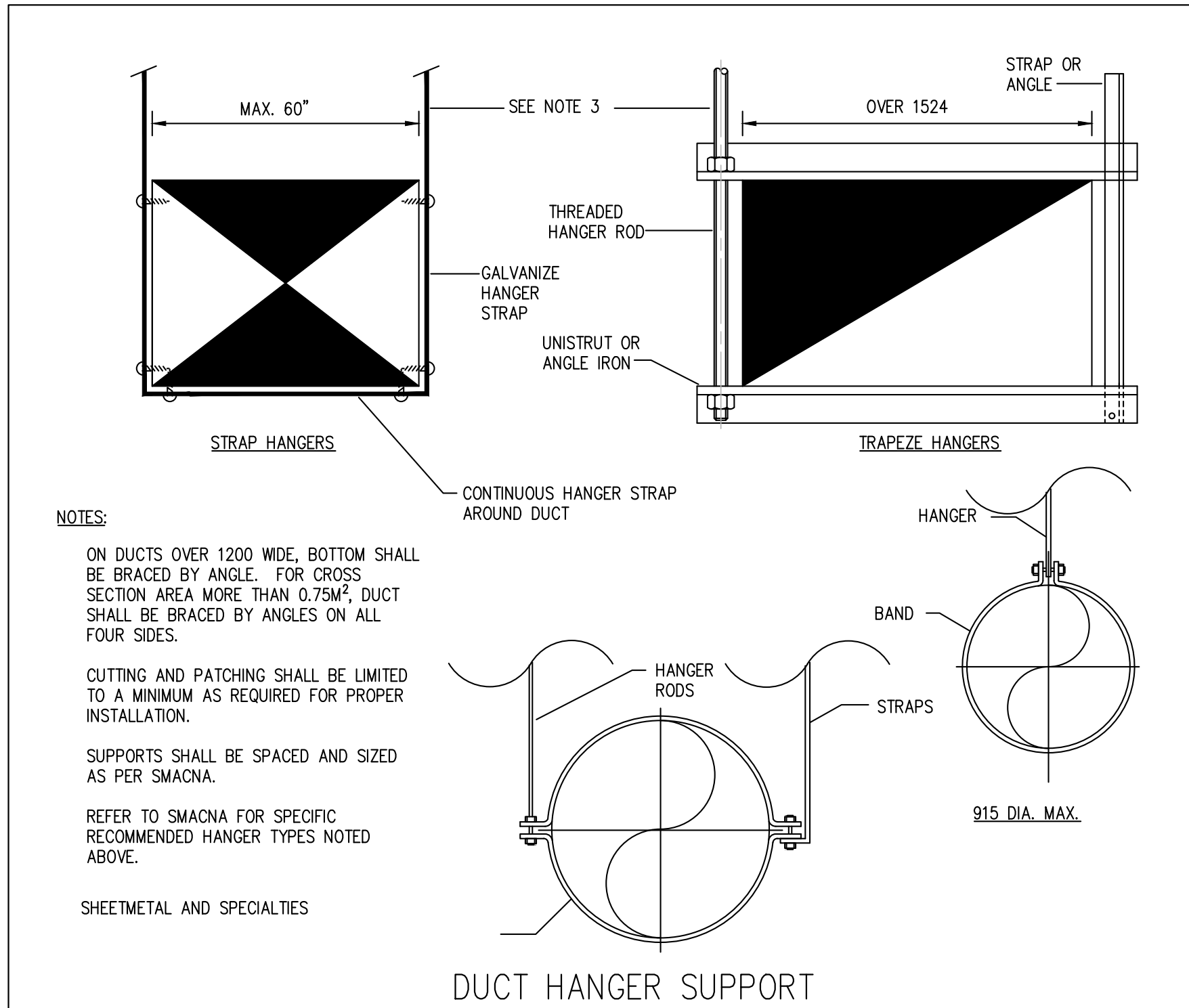
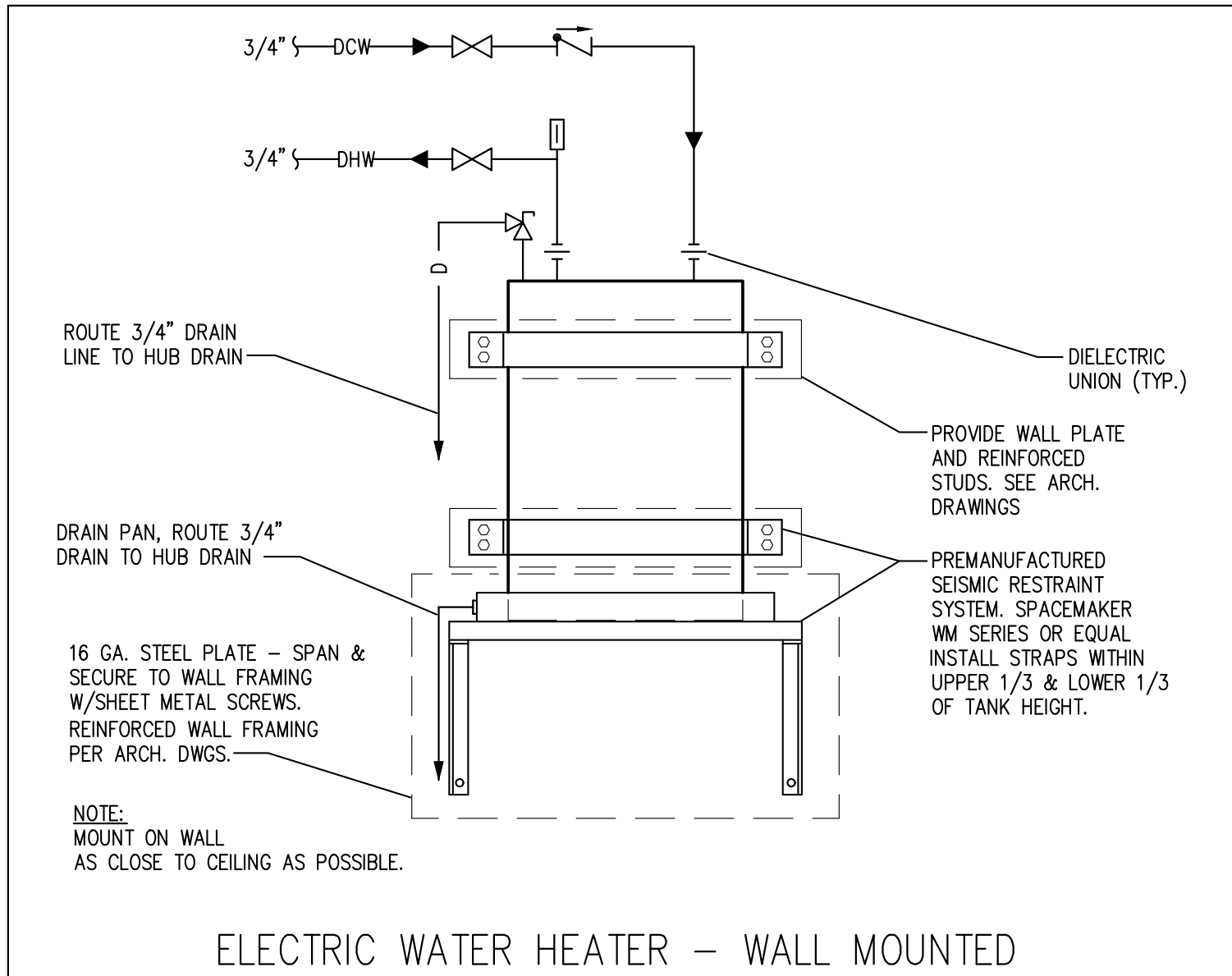
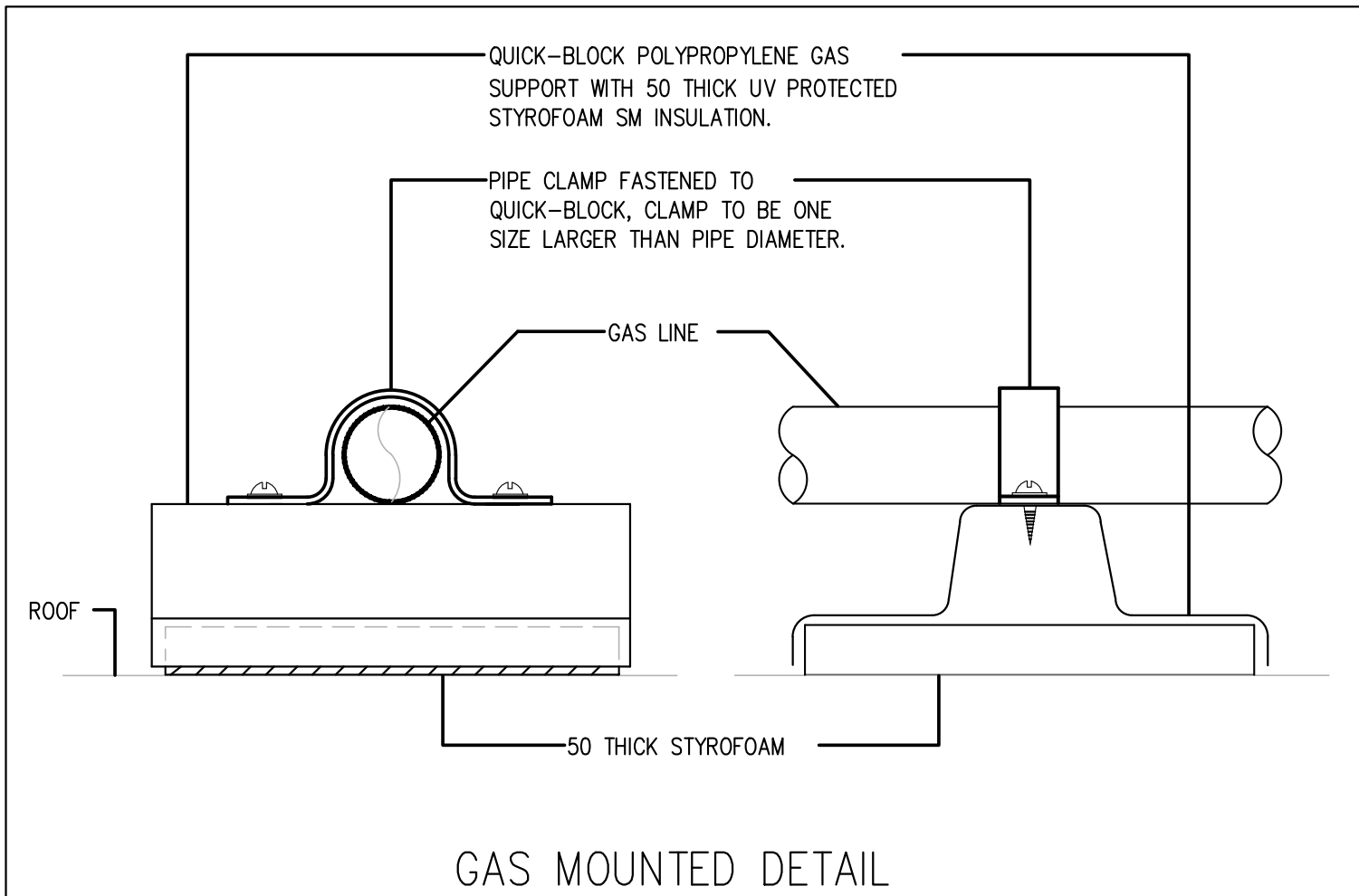
GRILLE AND DIFFUSER SCHEDULE					
TAG	TYPE	FACE SIZE (IN X IN)	NECK SIZE (IN)	BASIS OF DESIGN	REMARKS
D-1	SUPPLY DIFFUSER	24" X 24"	SHOWN IN PLANS	EH PRICE SCD	
D-2	SUPPLY DIFFUSER	12" X 12"	6"	EH PRICE SCD	
D-3	SUPPLY DIFFUSER	–	SHOWN IN PLANS	EH PRICE RCD	
G-1	EGG CRATE RETURN GRILLE	24" X 4"	–	EH PRICE 80	
G-2	EGG CRATE RETURN GRILLE	24" X 24"	–	EH PRICE 80	

ALL GRILLES AND REGISTERS TO BE COLOUR B12 (WHITE)

FAN SCHEDULE						
TAG	LOCATION	TYPE	AIR FLOW (CFM)	SP (IN WG)	BASIS OF DESIGN	REMARKS
EF-1	BF WASHROOM 216	INLINE EXHAUST FAN	70	0.25	GREENHECK SP-A70	INTERLOCK WITH WASHROOM LIGHT. COORDINATE WITH ELECTRICAL
EF-2	JANITOR 217	INLINE EXHAUST FAN	70	0.25	GREENHECK SP-A70	INTERLOCK WITH LIGHT. COORDINATE WITH ELECTRICAL
EF-3	WASHROOM 218	INLINE EXHAUST FAN	70	0.25	GREENHECK SP-A70	INTERLOCK WITH WASHROOM LIGHT. COORDINATE WITH ELECTRICAL
EF-4	WASHROOM 219	INLINE EXHAUST FAN	70	0.25	GREENHECK SP-A70	INTERLOCK WITH WASHROOM LIGHT. COORDINATE WITH ELECTRICAL
EF-5	WASHROOM 220	INLINE EXHAUST FAN	70	0.25	GREENHECK SP-A70	INTERLOCK WITH WASHROOM LIGHT. COORDINATE WITH ELECTRICAL
EF-6	WASHROOM 221	INLINE EXHAUST FAN	70	0.25	GREENHECK SP-A70	INTERLOCK WITH WASHROOM LIGHT. COORDINATE WITH ELECTRICAL
TF-1	IT ROOM 213	INLINE CABINET FAN	200	0.5	GREENHECK CSP-A250-QD	INTERLOCK WITH THERMOSTAT
TF-2	ELECTRICAL ROOM 201	INLINE CABINET FAN	200	0.5	GREENHECK CSP-A250-QD	INTERLOCK WITH THERMOSTAT

ROOFTOP UNIT SCHEDULE

PLUMBING FIXTURE SCHEDULE



MUNICIPALITY OF CASSELMAN

PROJECT NORTH		
4	ISSUED FOR TENDER	2025-03-24
3	ISSUED FOR PERMIT	2025-03-18
2	ISSUED FOR 99% COORDINATION	2025-02-24
1	ISSUED FOR 86% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

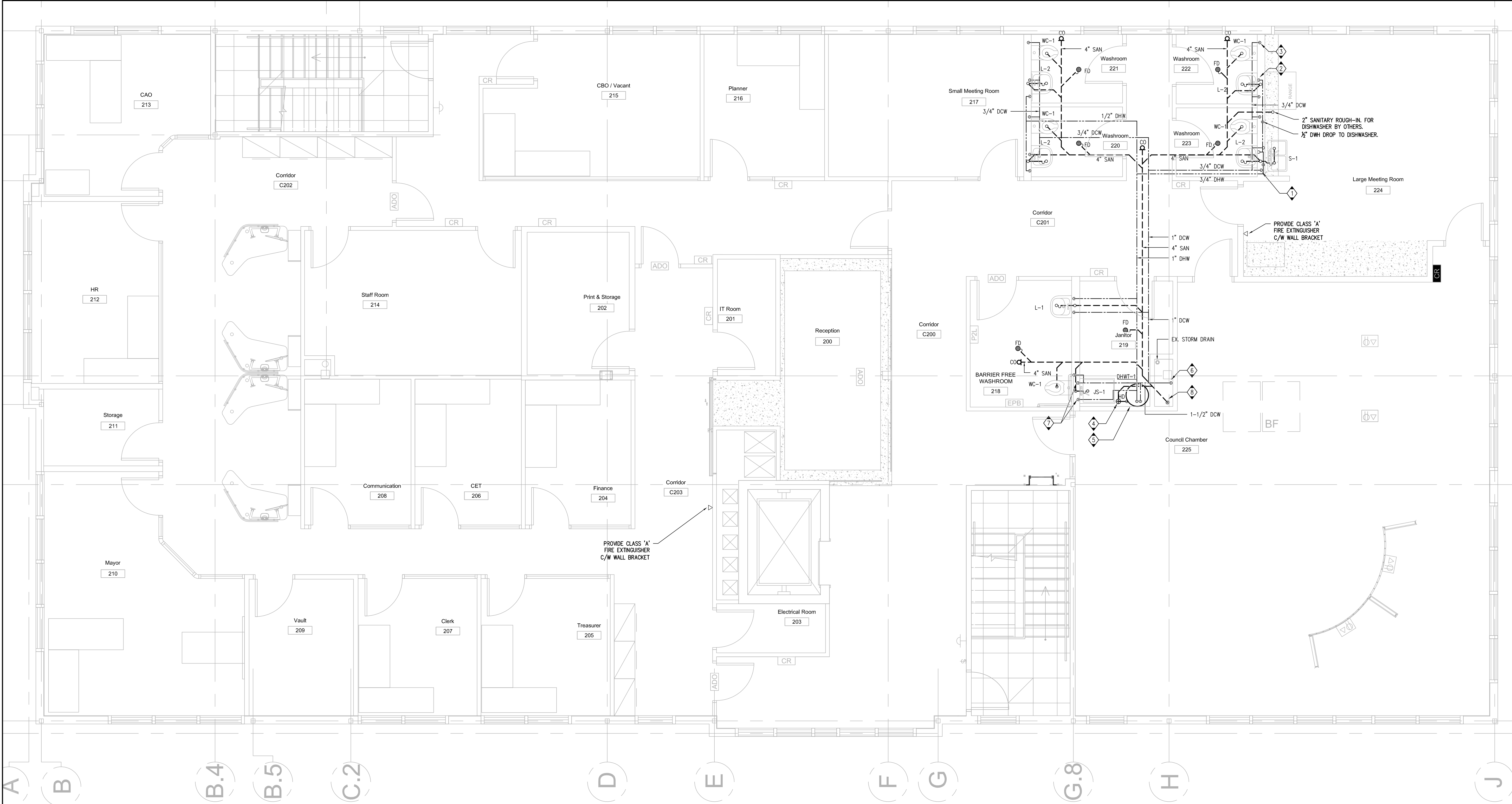
PROFESSIONAL STAMP

EXP Services Inc.
T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada
www.exp.com



- BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
- INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT	
1 INDUSTRIEL STREET OFFICE FIT-UP	
DRAWING	
MECHANICAL SCHEDULES AND DETAILS	
PROJECT No:	MRK-23002008-A0
REVISION:	
DRAWN:	M. OMAR
DATE:	JUNE 2023
APPROVED:	B. BROWN
SCALE:	AS SHOWN
DRAWING No:	M-5



MECHANICAL – SECOND FLOOR – PLUMBING & FIRE PROTECTION PLAN
SCALE: 1/4"=1'-0"

- GENERAL NOTES**
1. ALL CUTTING AND PATCHING OF FLOORS AND WALLS BY THIS CONTRACTOR.
 2. SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH EXISTING WALLS OR FLOORS.
 3. COORDINATE PIPE RUNS WITH SHEETMETAL AND ELECTRICAL DIVISIONS.
 4. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED.
 5. ENSURE MATERIALS AND INSTALLATION ARE COMPLIANT WITH ONTARIO BUILDING CODE REQUIREMENTS.
 6. REFER TO DETAILS AND SPECIFICATIONS FOR EQUIPMENT & DUCTWORK INSTALLATION REQUIREMENTS.

- KEYNOTES**
1. 1/2" DCW & DHW DOWN WITHIN WALL TO SERVE TYPE "L-1" SINKS AND KITCHEN SINKS WHERE APPLICABLE. PROVIDE 12" DCW & DHW CONNECTION PER FAUCET AS PER PLUMBING FIXTURE SCHEDULE.
 2. 1/2" DCW & DHW DOWN WITHIN WALL TO SERVE LAVATORIES "L-1" & "L-2". TYP. FOR 5.
 3. 3/4" DCW DOWN WITHIN WALL TO SERVE WATER CLOSET "WC-1". TYP. FOR 5.
 4. RUN DRAINAGE AND RELIEF PIPING DOWN TO HUB DRAIN
 5. 3/4" DCW & DHW DOWN TO SERVE NEW DOMESTIC HOT WATER TANK "DHW-1". REFER TO DETAIL ON M-05
 6. PROVIDE 2" DCW UP FROM GROUND FLOOR TO SECOND FLOOR. CONNECT ON THE BUILDING SIDE OF THE WATER METER AND BACKFLOW PREVENTER IN THE GROUND FLOOR MECHANICAL ROOM
 7. 1" DCW & DHW DOWN WITHIN WALL TO SERVE TYPE "JS-1" SINK.
 8. EX. 4" SANITARY DOWN.

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

4	ISSUED FOR TENDER	2025-03-24
3	ISSUED FOR PERMIT	2025-03-18
2	ISSUED FOR 99% COORDINATION	2025-02-24
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE


IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.
T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada
www.exp.com



- BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
- INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

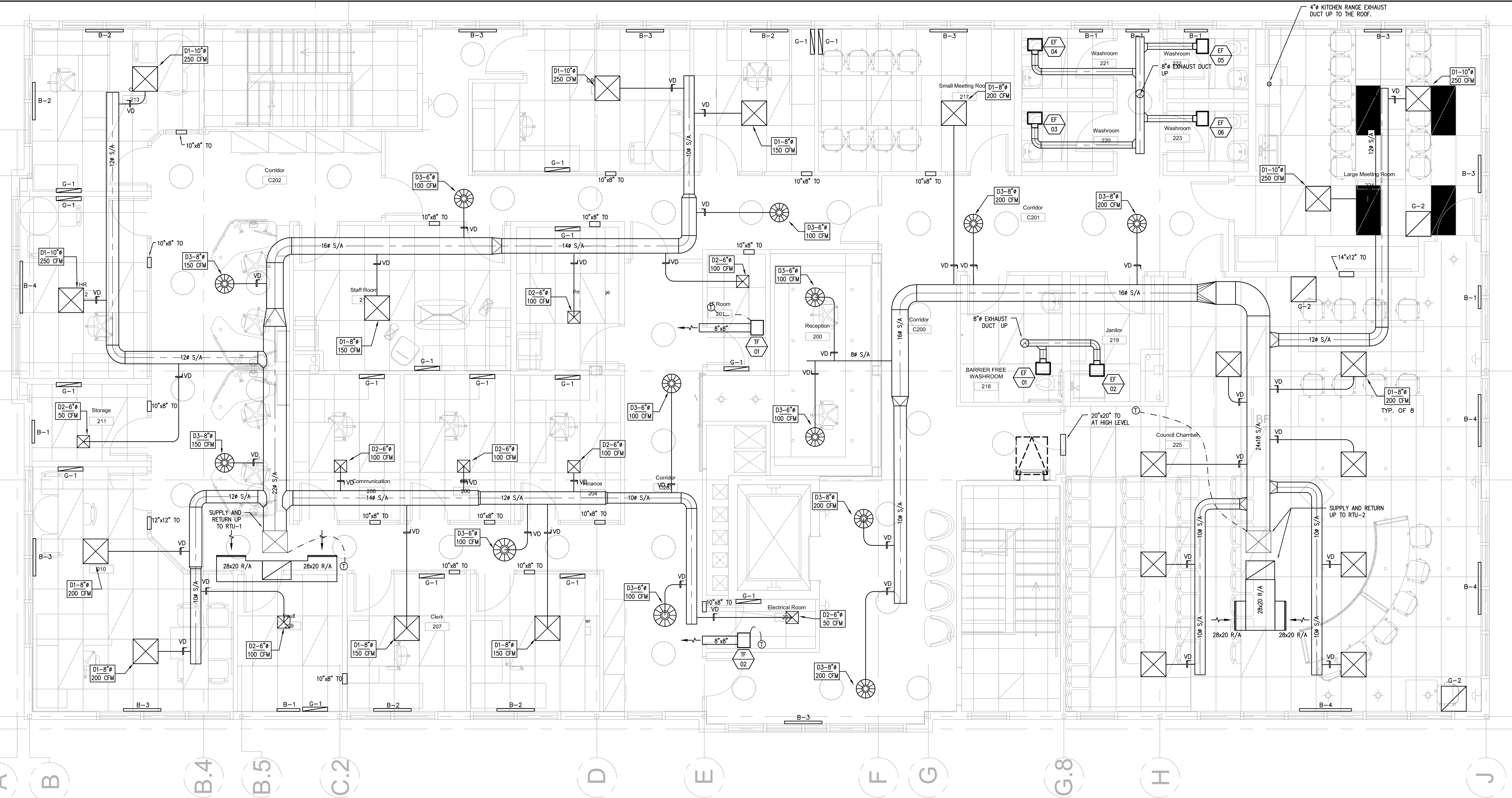
PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

MECHANICAL
SECOND FLOOR
PLUMBING AND FIRE
PROTECTION PLAN

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	M. OMAR	DATE:	JUNE 2023
APPROVED:	B. BROWN	SCALE:	AS SHOWN
DRAWING No:	M-6		



MECHANICAL — SECOND FLOOR — HVAC PLAN
SCALE: 1/4" : 1'-0"

GENERAL NOTES

- DUCTWORK LOCATIONS TO BE FULLY CO-ORDINATED WITH GENERAL, PLUMBING, SPRINKLER AND ELECTRICAL CONTRACTORS PRIOR TO FABRICATION OR INSTALLATION.
- ALL CUTTING AND PATCHING OF FLOORS AND WALLS BY GENERAL CONTRACTOR.
- DUCT RUN OUTS TO MATCH GRILLE/DIFFUSER NECK SIZE.
- CO-ORDINATE DUCT RUNS WITH ELECTRICAL CABLE TRAY AND STRUCTURE.
- PROVIDE BALANCING DAMPERS FOR ALL GRILLE/DIFFUSER DUCT RUNS.
- DUCT ELBOWS TO BE FULL RADIUS OR WITH TURNING VANES. REFER TO SPECIFICATIONS.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED.
- ENSURE MATERIALS AND INSTALLATION ARE COMPLIANT WITH ONTARIO BUILDING CODE REQUIREMENTS.
- REFER TO DETAILS AND SPECIFICATIONS FOR EQUIPMENT & DUCTWORK INSTALLATION REQUIREMENTS.

DRAWING NOTES

- ALL TRANSFER OPENINGS (TO) TO BE AT HIGH LEVEL.
- SUPPLY AND RETURN DUCTWORK TO BE ACOUSTICALLY LINED WITHIN 10 FEET OF ROOFTOP UNIT.
- SUPPLY DUCTWORK MAINS TO BE THERMALLY INSULATED.

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

ISSUE	DESCRIPTION	DATE
4	ISSUED FOR TENDER	2025-03-24
3	ISSUED FOR PERMIT	2025-03-18
2	ISSUED FOR 99% COORDINATION	2025-02-24
1	ISSUED FOR 66% COORDINATION	2023-05-12

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.
T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada



www.exp.com

- BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
- INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

MECHANICAL
SECOND FLOOR
HVAC PLAN

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	M. OMAR	DATE:	JUNE 2023
APPROVED:	B. BROWN	SCALE:	AS SHOWN

DRAWING No:

M-7



DRAWING No: M-8

POWER SINGLE LINE DIAGRAM SYMBOLS

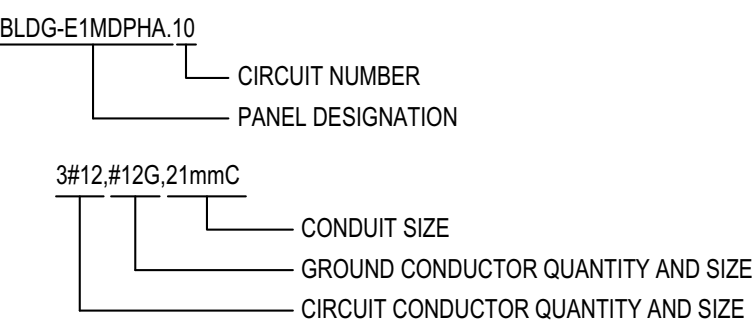
	CKT BREAKER, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES
	FUSED SWITCH, '###' INDICATES TRIP SETTING, '#' INDICATES NUMBER OF POLES
	ENCLOSED CIRCUIT BREAKER
	ENCLOSED NON-FUSED SWITCH
	ENCLOSED FUSED SWITCH
	KIRK KEY INTERLOCK
	SOLID STATE, ELECTRONIC ADJUSTABLE TRIP
	GROUND FAULT PROTECTION
	SURGE PROTECTIVE DEVICE
	DIGITAL MULTIMETER
	UTILITY METER
	TRANSFORMER
	PANELBOARD
	GROUND
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER

POWER DISTRIBUTION AND SMALL POWER

	DUPLEX RECEPTACLE, WALL MOUNTED		DOUBLE DUPLEX RECEPTACLE, WALL MOUNTED
	DUPLEX RECEPTACLE, ABOVE BACKSPASH OF CABINET, COUNTERTOP OR SINK		DOUBLE DUPLEX RECEPTACLE, ABOVE BACKSPASH OF CABINET, COUNTERTOP OR SINK
	DUPLEX RECEPTACLE, FLUSH MTD IN CEILING		DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
	HALF SWITCHED DUPLEX RECEPTACLE, WALL MOUNTED		SIMPLEX RECEPTACLE, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED, NEMA CONFIGURATION AS NOTED ON PLANS		SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED NEMA CONFIGURATION AS NOTED ON PLANS
	SHADING REPRESENTS RECEPTACLE ON LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE ON UPS BRANCH
	SHADING REPRESENTS RECEPTACLE ON NON-LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE WITH ISOLATED GROUND
	DISCONNECT SWITCH, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, U ON		MOTOR, SUBSCRIPT 'X' DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE
	DIRECT CONNECTION, WALL MOUNTED, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		DIRECT CONNECTION, CEILING MOUNTED, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.
	GROUND BUS BAR		COMBINATION MOTOR STARTER DISCONNECT
	FURNITURE OUTLET, WALL MOUNTED		MOTOR STARTER
	PANELBOARD		VARIABLE FREQUENCY DRIVE
	TRANSFORMER		
	FLOOR BOX, DUPLEX RECEPTACLE		POWER, EXTRA LOW VOLTAGE FLOOR POKE-THROUGH [2x120V, 20A DUPLEX RECEPTACLES] [1-DATA OUTLET FOR COMMUNICATION] [1-OPENING FOR AV SYSTEM]
	FLOOR BOX, DOUBLE DUPLEX RECPT		

RECEPTACLE TYPE
x 12
NUMBER INDICATES BRANCH CIRCUIT NUMBER

CIRCUITING



TAGS AND CALL OUT SYMBOLS

	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER		REVISION CALLOUT
			KEYNOTE CALLOUT

LIGHTING, LIGHITNG SWITCHING & CONTROLS

	AF10 7ab	UPPER CASE LETTERS INDICATE LIGHTING FIXTURE TYPE NUMBER INDICATES CIRCUIT NUMBER, LOWER CASE LETTER INDICATES SWITCHLEG
		LIGHTING FIXTURE ON NORMAL BRANCH POWER - CEILING MOUNTED
		LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED
		STRIP LIGHTING FIXTURE ON NORMAL BRANCH POWER
		STRIP LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
		PENDANT LINEAR FIXTURE ON NORMAL BRANCH POWER
		PENDANT LINEAR FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
		DOWNLIGHT LIGHTING FIXTURE ON NORMAL BRANCH POWER - RECESSED MOUNTED
		DOWNLIGHT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - RECESSED MOUNTED
		WALL WASH LIGHTING FIXTURE ON NORMAL BRANCH POWER - ARROW INDICATES DIRECTION OF BEAM
		WALL WASH LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - ARROW INDICATES DIRECTION OF BEAM
		WALL SCONCE LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED
		WALL SCONCE LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
		BOLLARD LIGHT FIXTURE ON NORMAL BRANCH POWER
		BOLLARD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
		EXIT SIGN - SINGLE FACE - CEILING MOUNTED
		EXIT SIGN - SINGLE FACE - WALL MOUNTED
		LOW LEVEL EXIT SIGN - SINGLE FACE - WALL OR DOOR MOUNTED
		DUAL REMOTE EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK - WALL MOUNTED
		SINGLE REMOTE EMERGENCY LIGHT - WALL MOUNTED
		DUAL REMOTE EMERGENCY LIGHT - WALL MOUNTED
	\$ x ab	SPST SWITCH, WALL MOUNTED.
	OS	OCCUPANCY SENSOR, CEILING MOUNTED
	H-OS	OCCUPANCY SENSOR, WALL MOUNTED
	VS	VACANCY SENSOR, CEILING MOUNTED
	H-VS	VACANCY SENSOR, WALL MOUNTED
	DIM x	DIMMING CONTROL STATION, SUBSCRIPT 'X' INDICATES TYPE OR UNIQUE IDENTIFIER
	LCP	LIGHTING CONTROL PANEL
		SHUNT TRIP PUSH BUTTON
	TC x	TIME CLOCK, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER
	DS x	DAYLIGHT SENSOR, CEILING MOUNTED
	PC x	PHOTOCELL
		'ab' INDICATES INDIVIDUAL GANGED SWITCHES AND ASSOCIATED SWITCH LEGS CONTROLLED, SUBSCRIPT 'X' INDICATES: 2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY D - WALL BOX DIMMER K - KEY OPERATED LV - LOW VOLTAGE P - PILOT LIGHT T - WALL BOX TIMER WP - WEATHER PROOF

AUDIOVISUAL SYSTEM DEVICES

	DEVICE TAG	LAAXM Y	MOUNTING TAG SECONDARY ATTRIBUTE
ALL AV SYSTEM DEVICES ARE WALL MOUNTED UNLESS OTHERWISE INDICATED BY MOUNTING TAG			
	AVx	AV CONNECTIVITY PLATE	'x' DENOTES TYPE. REFER TO AV SYSTEMS DETAILS
	FBx	FLOOR BOX	'x' DENOTES TYPE. REFER TO AV SYSTEMS DETAILS
	PTx	POKE THROUGH	'x' DENOTES TYPE. REFER TO AV SYSTEMS DETAILS
	TBx	TABLE BOX	'x' DENOTES TYPE. REFER TO AV SYSTEMS DETAILS
	D	DISPLAY	
	TV	TELEVISION OUTLET	
	PRS	PROJECTOR SCREEN	
	PRJ	PROJECTOR	
	CAM	AV SYSTEM CAMERA	
	IRR	INFRARED RADIATOR	
	ANT	ANTENNA	
	ROS	AV SYSTEM ROOM OCCUPANCY SENSOR	
	PS	AV SYSTEM PARTITION SENSOR	
	LS	PHOTOMETRIC SENSOR	
	BN	BACnet INTERFACE TO AV SYSTEM	
	RSP	ROOM SCHEDULING PANEL	
	RSS	ROOM SCHEDULING SIGN	
	BP	BUTTON PANEL	
	S	AV SYSTEM SPEAKER	
	SUB	SUBWOOFER SPEAKER	
	LCR	LOCAL CRENDENZA RACK	
	AVR	AV RACK	
	SI	SHADE/DRAPE INTERFACE TO AV SYSTEM	
	MIC	MICROPHONE	
	TS	TOUCH SCREEN	
	LI	LIGHTING INTERFACE TO AV SYSTEM	

TELECOMMUNICATIONS SYSTEM

	WALL MOUNT VOICE OUTLET		FLOOR MOUNT VOICE OUTLET
	WALL MOUNT DATA OUTLET		FLOOR MOUNT DATA OUTLET
	WALL MOUNT DATA/VOICE OUTLET		FLOOR MOUNT DATA/VOICE OUTLET
	CEILING MOUNT DATA FOR WIRELESS ACCESS POINT		CEILING MOUNTED DATA FOR AV
DEVICE LEGEND			
	x		x/y
	y		
NO SUBSCRIPT = (1) DATA/VOICE			
MOUNTING: OUTLET MOUNTING HEIGHTS TO BE COORDINATED WITH INTERIOR DESIGNER DURING DD PHASE			

SECURITY SYSTEM

	DEVICE TAG	LAAXM Y	MOUNTING TAG SECONDARY ATTRIBUTE
ALL SECURITY SYSTEM DEVICES ARE WALL MOUNTED UNLESS OTHERWISE INDICATED BY MOUNTING TAG			
	ACP	ACCESS CONTROL PANEL	
	ALM	ALARM DEVICE	
	DC	DOOR CONTACT	
	DU	DURESS STATION	
	EP	ELECTRIFIED PANIC HARDWARE	
	IC	INTERCOM	
	KP	KEYPAD	
	ML	MAGNETIC LOCK	
	PB	PUSH BUTTON	
	PO	PUSH TO OPEN PLATE	
	LFE	LOW FREQUENCY EXCITER	
	IR	INFRARED READER	
	ROU	REMOTE DISPLAY UNIT	
	LAR	LOCAL AREA RECEIVER	
	DP	DIRECTIONAL PASSIVE TAG DETECTOR	
	IRC	INFRARED CURTAIN	
	RFR	RF READER	
	RFM	RF READER MASTER	
	RFLR	RF LONG RANGE READER	
	ARL	ASSISTANCE REQUEST LED ANNUNCIATOR WITH SOUNDER	
	ADO	AUTO DOOR OPERATOR	
	CR	CARD READER	
	DCR	DOOR CONTROLLER	
	EL	ELECTRIFIED LOCKSET	
	ES	ELECTRIC STRIKE	
	GB	GLASS BREAK DETECTOR	
	ID	INTRUSION DETECTION DEVICE	
	KEY	KEY SWITCH	
	MS	MOTION SENSOR	
	PNL	PANEL / CONTROLLER	
	PX	POWER TRANSFER	
	REX	REQUEST TO EXIT DEVICE	
	SEN	ALARM SENSOR	
	SPS	SECURITY SYSTEM POWER SUPPLY	
	WKS	SECURITY WORKSTATION	
	CCV	CCTV CAMERA, WALL-MOUNTED	
	CCV	CCTV CAMERA, CEILING-MOUNTED	
	RFER	RF ETHERNET READER	
	DL	LED DOME LIGHT WITH SOUNDER	
	PL	PUSH TO LOCK	

MISCELLANEOUS DEVICES

	JB	JUNCTION BOX, WALL MOUNTED	
	JB	JUNCTION BOX, CEILING MOUNTED	
	C x	CONTACTOR, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER	
	R	CONTROL RELAY & REQUIRED INPUT/OUTPUT MODULE	

DEMOLITION

< R >	EXISTING TO BE REMOVED		DEMOLITION CONDUIT
< RL >	EXISTING TO BE RELOCATED		DEMOLITION EQUIPMENT
< EX >	EXISTING TO REMAIN		EXISTING TO REMAIN CONDUIT
< NL >	EXISTING - NEW LOCATION		EXISTING TO REMAIN EQUIPMENT

ABBREVIATIONS

A	ANALOG	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT
CK	CLOCK HANGER	NC	NORMALLY CLOSED
CL	CEILING MOUNTED	NO	NORMALLY OPEN
EMT	ELECTRICAL METALLIC TUBING	OC	OVER THE COUNTER
EP	EXPLOSION PROOF	PTZ	PAN, TILT, ZOOM
F	FURNITURE OR MILLWORK MOUNTED	ST	SHUNT TRIP
FL	FLOOR MOUNTED	TP	TAMPER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TV	OUTLET AT TV HEIGHT. COORDINATE ON SITE.
GFI	GROUND FAULT INTERRUPTER	WP	WEATHER PROOF
USB	USB TYPE OF RECEPTACLE		

DRAWING LIST

E-01	ELECTRICAL LEGEND, GENERAL NOTES, AND DRAWING LIST
E-02	SECOND FLOOR ELECTRICAL DEMOLITION PLAN
E-03	GROUND FLOOR ELECTRICAL PLAN - NEW WORK
E-04	SECOND FLOOR POWER & SYSTEM LAYOUT - NEW WORK
E-05	ELECTRICAL ROOF LAYOUT- NEW WORK
E-06	LIGHTNG SECOND FLOOR LAYOUT- NEW WORK
E-07	ELECTRICAL SCHEDULE AND DIAGRAM
E-08	ELECTRICAL DETAILS
E-09	ELECTRICAL SPECIFICATIONS 1 OF 4
E-10	ELECTRICAL SPECIFICATIONS 2 OF 4
E-11	ELECTRICAL SPECIFICATIONS 3 OF 4
E-12	ELECTRICAL SPECIFICATIONS 4 OF 4

GENERAL NOTES

- ALL DRAWINGS ARE DIAGRAMMATIC ONLY. THE ARRANGEMENTS OF EQUIPMENT SHOWN ARE APPROXIMATIONS ONLY AND MAY BE ALTERED BY THE ENGINEERS TO MEET THE REQUIREMENTS OF THE PROJECT. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE CONSULTANTS, AND MECHANICAL DRAWINGS FOR LOCATION OF ALL DEVICES. ALL EXISTING ELECTRICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO EQUIPMENT DEVICES AND CONNECTIONS, SHALL REMAIN UNLESS SPECIFICALLY NOTED TO BE REMOVED. DURING CONSTRUCTION IF REQUIRED/IMPACTED BY OTHER WORKS, CONTRACTOR TO TEMPORARILY REMOVE/RELOCATE ELECTRICAL SYSTEMS AND/OR PROVIDE TEMPORARY CONNECTIONS ON SITE TO ALLOW CONSTRUCTION OF OTHERS WORKS. EXISTING ELECTRICAL SYSTEM ARE TO REMAIN FUNCTIONAL DURING THE CONSTRUCTION.
- MAINTAIN EXISTING FIRE ALARM, EXIT SIGNS AND EMERGENCY LIGHTS IN FULL OPERATION DURING THE ENTIRE CONSTRUCTION STAGE. WHERE DISRUPTION TO LIFE SAFETY SYSTEM ARE REQUIRED, PROVIDE CONTINUOUS MONITORING DURING SHUT DOWN PERIOD AND ENSURE THAT ALL SYSTEMS ARE REACTIVATED PRIOR TO LEAVING THE SITE AT THE END OF EACH WORKING DAY.
- ALL OPENINGS, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO APPLICABLE BUILDING AND FIRE CODES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT. SHOULD ANY EXISTING SYSTEM BE DAMAGED, MAKE FULL REPAIR/REPLACES WITHOUT EXTRA COST, AND TO THE SATISFACTION OF CONSULTANT.
- CONTRACTOR TO PROVIDE WRITTEN NOTICE TO OWNER FOR ANY SHUTDOWN REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR STORAGE AND PROTECTION OF ALL EXISTING ITEMS WHICH WILL BE RELOCATED/REUSED IN THIS PROJECT.
- EXPOSED ELECTRICAL CORDS OUTSIDE THE LEASED PREMISES SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, CONSULTANTS, AND THE OWNER. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
- CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULLBOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER THE SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE OF NON-ERASEABLE LAMACOID TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANT.
- CONTRACTOR TO PAY FOR AND OBTAIN ALL REQUIRED PERMITS, FEES, LICENSES, CERTIFICATES OF INSPECTION ETC IF REQUIRED.
- CONTRACTOR TO REPORT BACK TO THE ENGINEER AND OWNER ON ANY ELECTRICAL SYSTEM FAILURES THAT OCCUR DURING THE CONSTRUCTION PHASE.
- PHASING AND SCHEDULING OF THE WORK IS REQUIRED IN ORDER TO MAINTAIN EXISTING BUILDING OPERATIONS. INCLUDE COSTS FOR "OFF-HOURS" WORK.
- FOR ALL LUMINAIRES THAT EXCEED 150V SHOWN, SUPPLY AND INSTALL NEW LUMINAIRES DISCONNECT THAT COMPLY WITH RECOMMENDATION SPECIFIED IN CANADIAN ELECTRICAL CODE, RULE 30-308(4). ALL NEW RELOCATED FIXTURES (THAT EXCEED 150V) SHALL BE MARKED IN A CONSPICUOUS LEGIBLE AND PERMANENT MANNER ADJACENT TO THE CONNECTING MEANS, IDENTIFYING THE SPECIFIC PURPOSES.
- NEW AND EXISTING ELECTRICAL WIRING AND CABLES EXPOSED WITHIN THE CEILING SPACES SHALL CONFORM TO THE PLENUM REQUIREMENTS OF ONTARIO BUILDING CODE SENTENCE 3.6.4.3. (1).

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899
100 - 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com

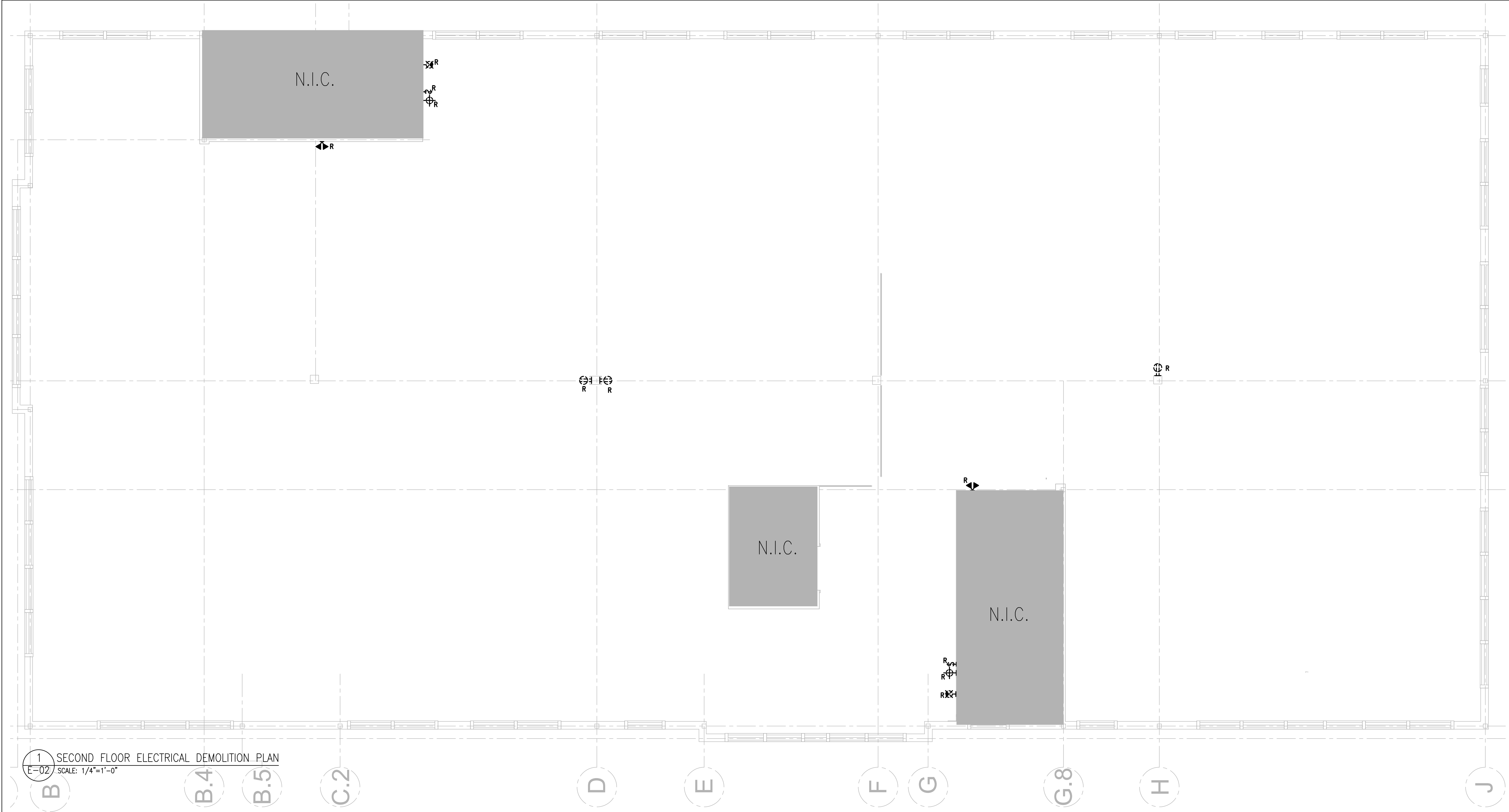
• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

ELECTRICAL LEGEND, GENERAL NOTES, AND DRAWING LIST

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:			



DEMO POWER:

1. THIS DEMOLITION DRAWING IS DIAGRAMMATIC AND MAY NOT REPRESENT ALL OF THE DEVICES TO BE REMOVED. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ENSURE THE COMPLETE REMOVAL/RELOCATION OF POWER AND SYSTEMS IS COMPLETE IN THE AREAS OF SCOPE OF WORK. ALL ELECTRICAL ITEMS IN THIS AREA/ROOM NOT SHOWN WITHIN SCOPE OF WORK AREA ARE TO REMAIN.
2. DEMOLISH EXISTING LIGHT FIXTURES NOTED ON THE DRAWING IN THE DEMOLITION AREA C/W CONTROLS CONDUIT, WIRING, JUNCTION BOXES, ETC. BACK TO SOURCE. WHERE CIRCUIT AND/OR CONTROLS ARE BEING UTILIZED BY OTHER ELEMENTS, THE CIRCUIT IS TO BE REMOVED BACK TO NEAREST JUNCTION BOX.
3. DURING CONSTRUCTION ENSURE ALL LUMINAIRES IN AND/OR OUT OF SCOPE OF WORK ARE FREE OF DUST AND DEBRIS. CONTRACTOR TO CLEAN LENSES AFFECTED BY CONSTRUCTION DUST AND/OR DEBRIS.
4. ALL EXISTING FIXTURES TO BE REMOVED ARE TO BE DISPOSED OF AND IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
5. ALL EXISTING POWER SUCH THAT SURROUNDING AREAS REMAIN OPERATIONAL AND ARE NOT AFFECTED AS A RESULT OF BUILDING DEMOLITION.
6. ALL EXISTING DEVICES TO REMAIN ARE TO BE PROTECTED FROM DUST DEBRIS DURING CONSTRUCTION.
7. WHERE EXISTING CIRCUITS ON PANELS ARE NOT AFFECTED, THOSE CIRCUITS WILL BE INCLUDED IN THE NEW PANEL DIRECTORIES WHERE PANELS HAVE BEEN AFFECTED BY THIS PROJECT.
8. EXISTING BASE BUILDING ACCESS CONTROL SYSTEM TO REMAIN OPERATIONAL DURING THE WORK. COORDINATE ALL SHUTDOWNS AS REQUIRED WITH OWNER.
9. ANY EXISTING CONDUITS NOT BEING REUSED DURING THE NEW CONSTRUCTION TO BE REMOVED.

CLIENT		
MUNICIPALITY OF CASSELMAN		
PROJECT NORTH		
5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

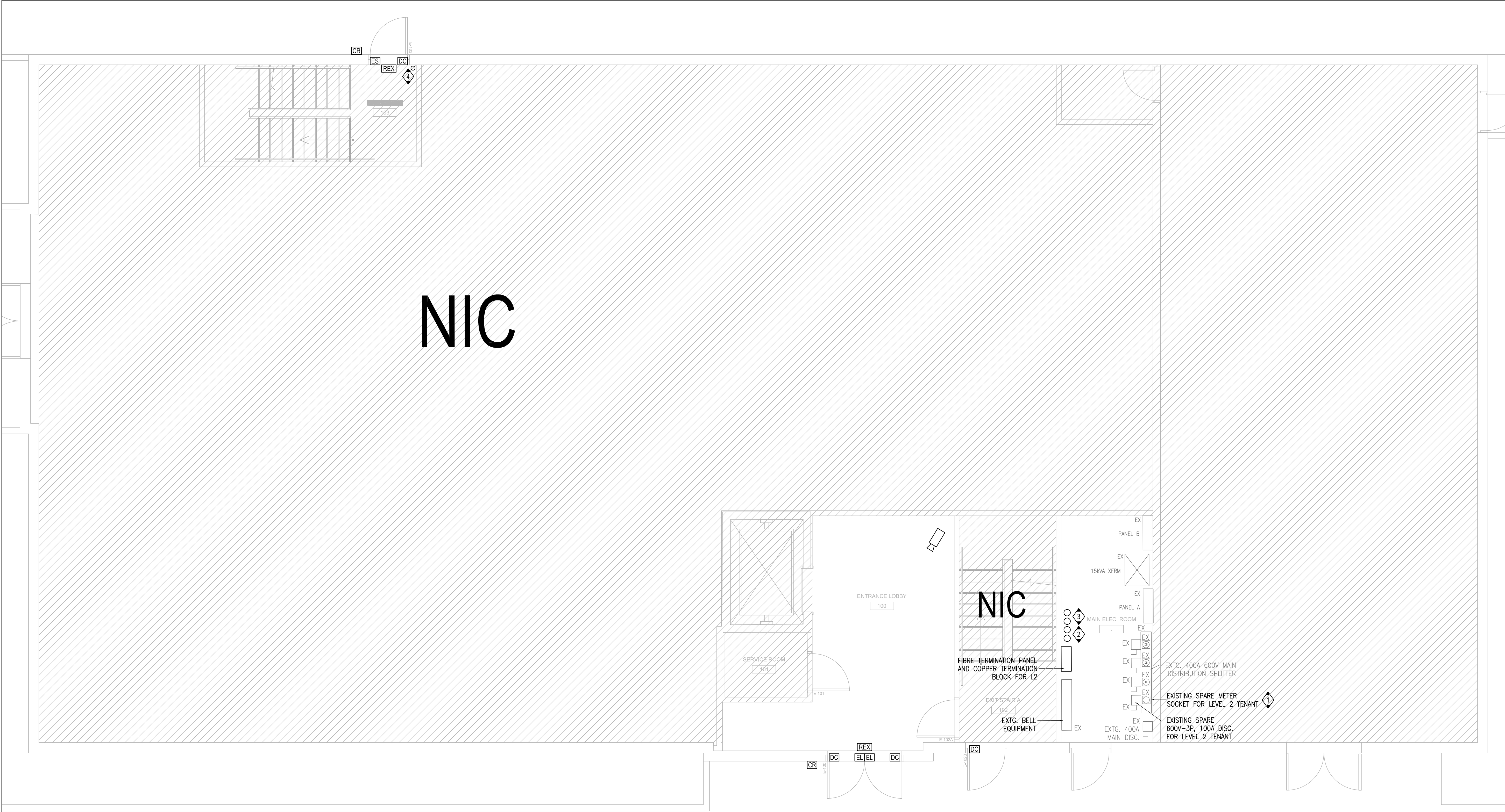
EXP Services Inc.

T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada
www.exp.com



• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT	
1 INDUSTRIEL STREET OFFICE FIT-UP	
DRAWING	
SECOND FLOOR ELECTRICAL DEMOLITION PLAN	
PROJECT No: MRK-23002008-A0	REVISION:
DRAWN: KL	DATE: MAY 2023
APPROVED: DL	SCALE: AS SHOWN
DRAWING No:	E-02



- 1

E-03
- POWER & SYSTEMS FIRST FLOOR LAYOUT– NEW WORK
- SCALE: 3/16"=1'-0"

KEY NOTES:

1

EXISTING SPARE METER SOCKET FOR SECOND FLOOR.

2

VERTICAL TWO (2) 1-1/2" CONDUIT FOR INCOMING SERVICES TO L2 IT ROOM.

3

VERTICAL TWO (2) 1-1/2" CONDUIT FOR SECURITY DEVICES AT L1 EXTERIOR DOORS.
ONE (1) FOR DATA CABLE FOR SECURITY CAMERA
ONE (1) FOR ACCESS CONTROL

4

VERTICAL ONE (1) 1-1/2" CONDUIT FOR SECURITY DEVICES AT L1 EXTERIOR BACK DOOR.

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899

100 – 2650 Queensview Drive

Ottawa, ON K2B 8H6

Canada

www.exp.com

BUILDINGS • EARTH & ENVIRONMENT • ENERGY •

INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

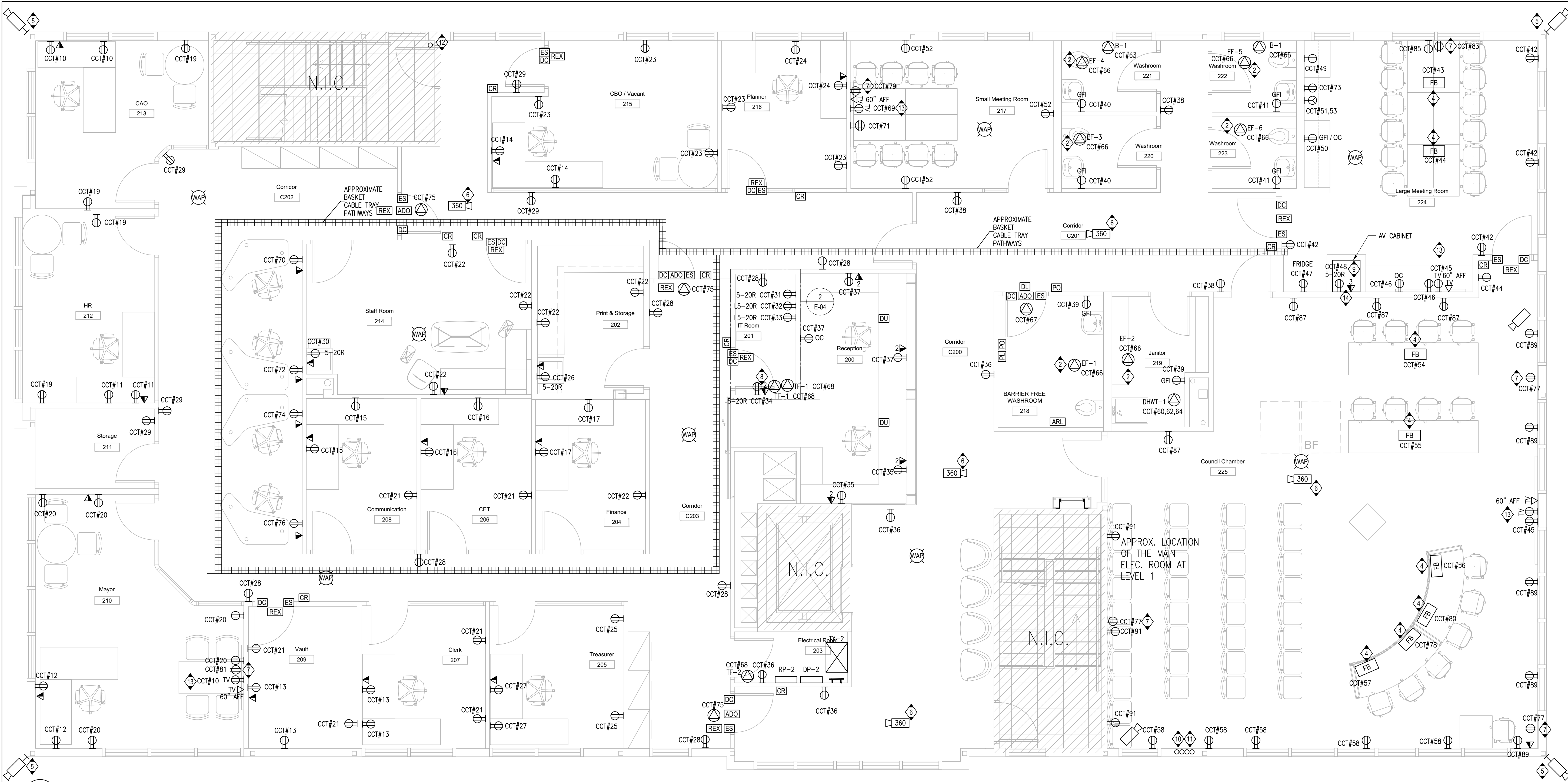
PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

GROUND FLOOR
ELECTRICAL LAYOUT
- NEW WORK

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:	E-03		



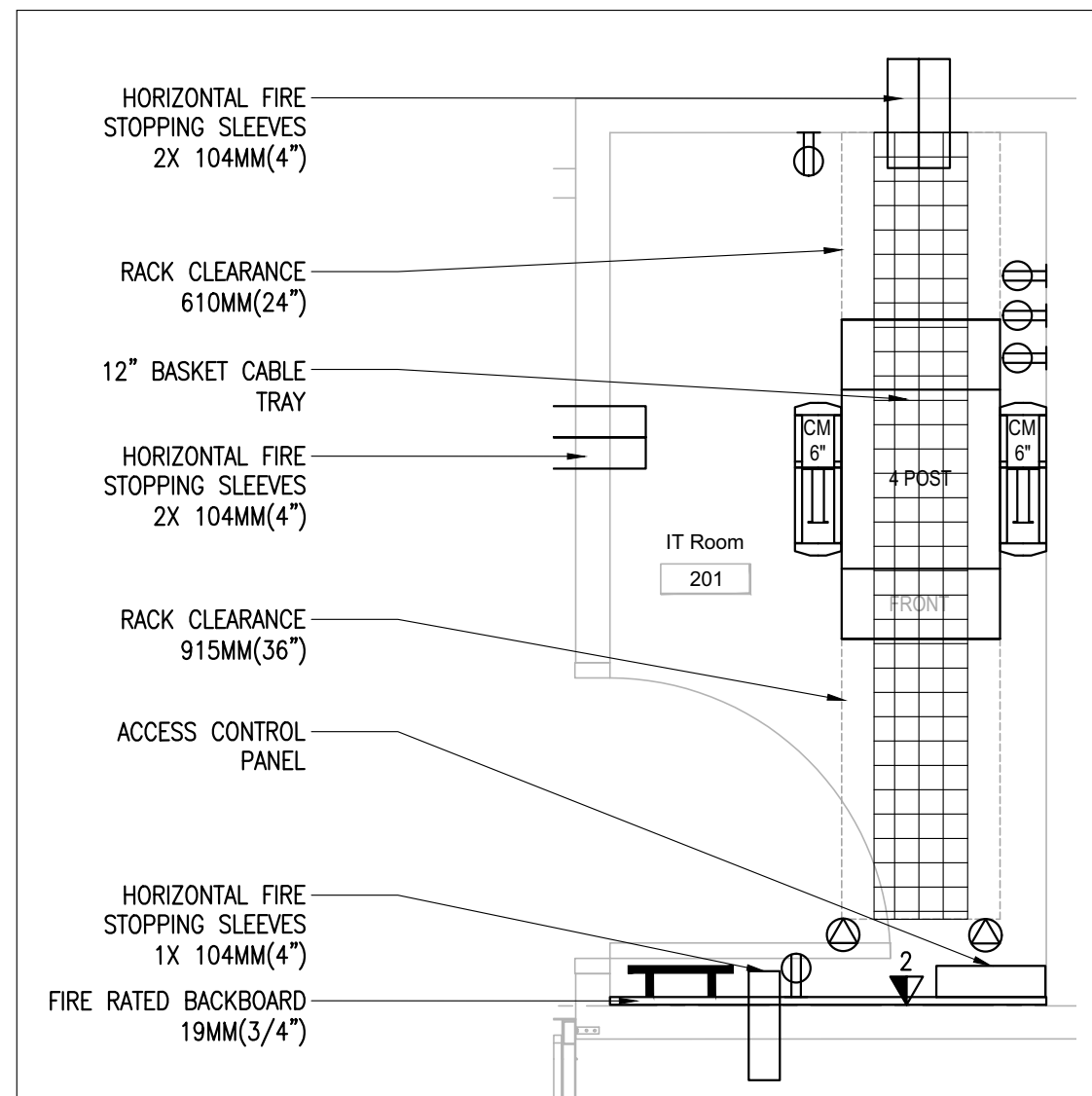
1 POWER & SYSTEMS SECOND FLOOR LAYOUT- NEW WORK
E-04 SCALE: 1/4"=1'-0"

GENERAL NOTES:

- ELECTRICAL WORK OF THE MAIN FEEDER INSTALLATION AND WORK IN COMMON/PUBLIC AREA WHICH REQUIRE ANY DISCONNECTION, ETC. MAY HAVE TO BE DONE AFTER HOURS ON WEEKEND AND/OR AT OTHER TIMES SUITABLE FOR BUILDING OWNER AND TENANTS WITHIN THE BUILDING. INCLUDE IN PRICE SUBMITTAL PREMIUM TIME AND ALL ASSOCIATED COSTS TO PERFORM THE WORK.
- PLACEMENT OF ALL DEVICES SHALL BE ALIGNED AND STRATEGICALLY PLACED. VERIFY WITH ARCHITECT FOR EXACT MOUNTING LOCATIONS OF ALL ELECTRICAL DEVICES.
- PROVIDE A SEPARATE NEUTRAL INSULATED CONDUCTOR FOR EACH NEW CIRCUIT.
- 120V 20A DUPLEX RECEPTACLE (NEMA 5-20R ALTERNATE - 'T-SLOT') RECEPTACLE SHALL BE FED FROM A 20A-1P BREAKER. #10 AWG. WIRE SHALL BE USED.
- ALL EXTRA LOW VOLTAGE WALL OUTLETS LOCATED WITHIN DRYWALL CEILING AREAS SHALL BE INSTALLED C/W CONDUIT ROUTED BACK TO ACCESSIBLE CEILING SPACE AREA. CEILING MOUNTED EXTRA LOW VOLTAGE OUTLETS DESIGNATED FOR SECURITY CAMERAS AND WIRELESS ACCESS POINTS LOCATED WITHIN DRYWALL CEILING AREAS, ARE TO BE INSTALLED C/W CONDUIT ROUTED BACK TO ACCESSIBLE CEILING SPACE AREA.
- COORDINATE EXACT COMMUNICATION J-HOOK PATHWAY ON SITE TO AVOID INTERFERENCES WITH LIGHTING FIXTURE, MECHANICAL DUCTING, AND STRUCTURAL BEAMS.
- IN EXPOSED CEILING AREAS, ALL CONDUITS SHALL RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES; ALL COMMUNICATION CABLEING TO BE CONCEALED IN METAL CONDUIT READY TO ACCEPT PAINT FINISH.
- INDICATED CIRCUITS ON THIS SHEET TO BE CIRCUITED BACK TO PANEL 'RP-2' UNLESS NOTED OTHERWISE.
- WAP LOCATED ARE APPROXIMATE, FINAL COUNT AND LOCATIONS TO BE DETERMINED BY Wi-Fi PREDICTIVE HEAT MAP.

KEY NOTES:

- EXISTING SPARE METER SOCKET FOR SECOND FLOOR.
- WASHROOM AND JANITOR ROOM EXHAUST FAN SHALL BE TIED INTO THE LIGHTING SWITCH WITHIN THE ROOM.
- RECEPTACLE FOR KITCHEN HOOD AT HIGH LEVEL. COORDINATION HEIGHT AND CONNECTION ON SITE.
- INCLUDE FOR CORE DRILLS AND X-RAY, ALL ASSOCIATED JUNCTION BOX(ES) AND CONDUITS FROM FLOOR MONUMENT/FEED LOCATION IN CEILING SPACE OF FLOOR BELOW BACK TO RESPECTIVE ELECTRICAL ROOM (FOR POWER) AND IT ROOM (FOR COMMUNICATIONS CABLES). COORDINATE WITH OWNER'S AV VENDOR FOR ADDITIONAL CONDUIT REQUIREMENTS FOR A/V SYSTEM AS IDENTIFIED AT FLOOR MONUMENT LOCATION. INCLUDE FOR PREMIUM TIME IN TENDER SUBMITTAL TO CARRY-OUT THIS SCOPE OF WORK. WORK SHALL BE DONE AFTER HOURS, ON WEEKENDS AND/OR AT OTHER TIME THAT IS SUITABLE TO THE TENANT ON FLOOR BELOW. COORDINATE AND SCHEDULE WITH BUILDING OWNER AND OBTAIN APPROVAL PRIOR TO PROCEEDING WITH THIS SCOPE OF WORK. BUILDING OWNER SHALL BE GIVEN AT LEAST 72 HOURS NOTICE PRIOR TO X-RAYING. COORDINATE EXACT FLOOR MONUMENT LOCATION/DIMENSIONS WITH FURNITURE SUPPLIER PRIOR TO DRILLING. COORDINATE THE EXACT LOCATIONS OF THE FLOOR MONUMENT WITH THE OWNER ON SITE.
- EXTERIOR CORNER MOUNTED 4-SENSOR CCTV CAMERA, MOUNTED AT 15'-20' AFF ROOM EXTERIOR GROUND LEVEL; CAT6A CABLE FED FROM LEVEL 2 IT ROOM.
- 360 DEGREE FISH-EYE CCTV CAMERAS MOUNTED BELOW DROP CEILING.
- CEILING MOUNTED DUPLEX RECEPTACLE FOR AV SPEAKERS.
- DATA TO BE TERMINATED INSIDE SECURITY ACCESS CONTROL PANEL.
- DATA TO BE TERMINATED INSIDE AV CABINET LOCATION.
- TWO (2) 1-1/2" VERTICAL CONDUIT FOR INCOMING SERVICES TO L2 IT ROOM.
- TWO (2) 1-1/2" VERTICAL CONDUIT FOR SECURITY DEVICES AT L1 EXTERIOR DOORS. ONE (1) FOR DATA CABLE FOR SECURITY CAMERA ONE (1) FOR ACCESS CONTROL.
- ONE (1) 1-1/2" VERTICAL CONDUIT FOR SECURITY DEVICES AT L1 EXTERIOR BACK DOOR.
- WALL MOUNTED RECEPTACLE BEHIND THE TV. COORDINATE THE EXACT LOCATION ON SITE.
- 10" X 10" BACKBOX AND THREE (3) 1-1/2" CONDUITS C/W PULL STRING LOCATED BEHIND AV CABINET TO CEILING SPACE.



2 ENLARGED MAIN IT ROOM LAYOUT
E-04 N.T.S.

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

ISSUE	DESCRIPTION	DATE
5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.
T: 613.688.1899
100 - 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

SECOND FLOOR POWER
& SYSTEMS LAYOUT
- NEW WORK

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:	E-04		



1 ELECTRICAL ROOF LAYOUT– NEW WORK
E-04 SCALE: 1/4"=1'-0"

GENERAL NOTES:

- ELECTRICAL WORK OF THE MAIN FEEDER INSTALLATION AND WORK IN COMMON/PUBLIC AREA WHICH REQUIRE ANY DISCONNECTION, ETC. MAY HAVE TO BE DONE AFTER HOURS ON WEEKEND AND/OR AT OTHER TIMES SUITABLE FOR BUILDING OWNER AND TENANTS WITHIN THE BUILDING. INCLUDE IN PRICE SUBMITTAL PREMIUM TIME AND ALL ASSOCIATED COSTS TO PERFORM THE WORK.
- PROVIDE A SEPARATE NEUTRAL INSULATED CONDUCTOR FOR EACH NEW CIRCUIT.

CLIENT		
MUNICIPALITY OF CASSELMAN		
PROJECT NORTH		
5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

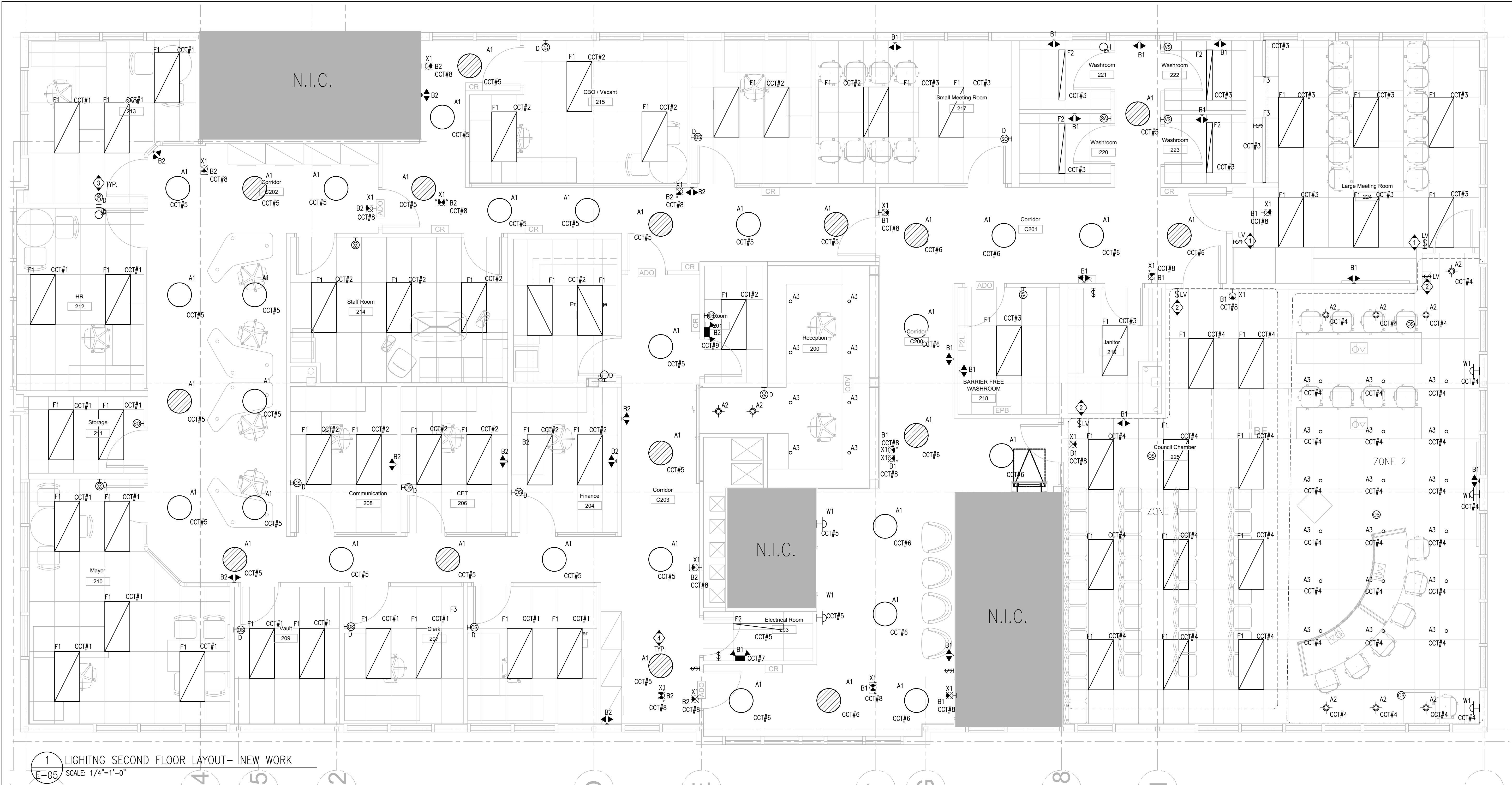
PROFESSIONAL STAMP	
--------------------	--

EXP Services Inc.
T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada
www.exp.com



• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT	
1 INDUSTRIEL STREET OFFICE FIT-UP	
DRAWING	
ELECTRICAL ROOF LAYOUT - NEW WORK	
PROJECT No: MRK-23002008-A0	REVISION:
DRAWN: KL	DATE: MAY 2023
APPROVED: DL	SCALE: AS SHOWN
DRAWING No:	E-05



1 LIGHTING SECOND FLOOR LAYOUT- NEW WORK
E-05 SCALE: 1/4"=1'-0"

- GENERAL NOTES:
- ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATIONS OF LIGHT FIXTURE WITH ARCHITECT AND CLIENT PRIOR TO INSTALLATION.
 - RUN 2#10-1/2" C. FROM REMOTE EMERGENCY HEAD(S) OR DC BACK-UP FROM NEW EXIT SIGN TO EMERGENCY BATTERY UNIT. TOTAL LOAD SHOULD NOT EXCEED 36W ON EACH RUN. IF RUN EXCEED 94' #8 WIRE SHALL BE USED.
 - NEW EXIT SIGNS TO BE CONNECTED TO NEW EMERGENCY DC BATTERY BACK-UP UNIT AND DEDICATED 120V NON-RELAY/NON-SWITCHING CIRCUIT.
 - PLACEMENT OF ALL FIXTURES SHALL BE ALIGNED AND STRATEGICALLY PLACED. VERIFY WITH ARCHITECT FOR EXACT MOUNTING LOCATIONS.
 - PROVIDE A SEPARATE NEUTRAL INSULATED CONDUCTOR FOR EACH NEW CIRCUIT.
 - CIRCUIT NUMBERS SHOWN ARE DIAGRAMMATIC ONLY. CONNECT TO CIRCUITS MADE AVAILABLE BY THESE RENOVATIONS.
 - IN EXPOSED CEILING AREAS, ALL CONDUITS SHALL RUN PARALLEL AND PERPENDICULAR TO BUILDING LINES; ALL COMMUNICATION CABLING TO BE CONCEALED IN METAL CONDUIT READY TO ACCEPT PAINT FINISH.
 - INDICATED CIRCUITS ON THIS SHEET TO BE CIRCUITED BACK TO PANEL 'RP-2' UNLESS NOTED OTHERWISE.

- GENERAL NOTES:
- CURRENT LIGHTING NXSW SERIES OR EQUIVALENT WALL MOUNTED EXTRA LOW VOLTAGE DIMMER SWITCH. ELECTRICAL CONTRACTOR SHALL PROVIDE THE ASSOCIATED CONTROL MODULE, ACCESSORIES AND COORDINATE WITH THE MANUFACTURER TO ENSURE THE SWITCH IS COMPATIBLE WITH THE LIGHT FIXTURES.
 - CURRENT LIGHTING NXSW SERIES OR EQUIVALENT WALL MOUNTED EXTRA LOW VOLTAGE DIMMER SWITCH COMPLETE WITH SCENE SELECTION. ELECTRICAL CONTRACTOR SHALL PROVIDE THE ASSOCIATED CONTROL MODULE, ACCESSORIES AND COORDINATE WITH THE MANUFACTURER TO ENSURE THE SWITCH IS COMPATIBLE WITH THE LIGHT FIXTURES.
 - LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY DIMMING SENSOR SWITCH.
 - NIGHT LIGHT SHALL NOT BE CONTROLLER BY CORRIDOR SWITCH AND TO BE REMAIN ON ALL THE TIME.

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •

• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

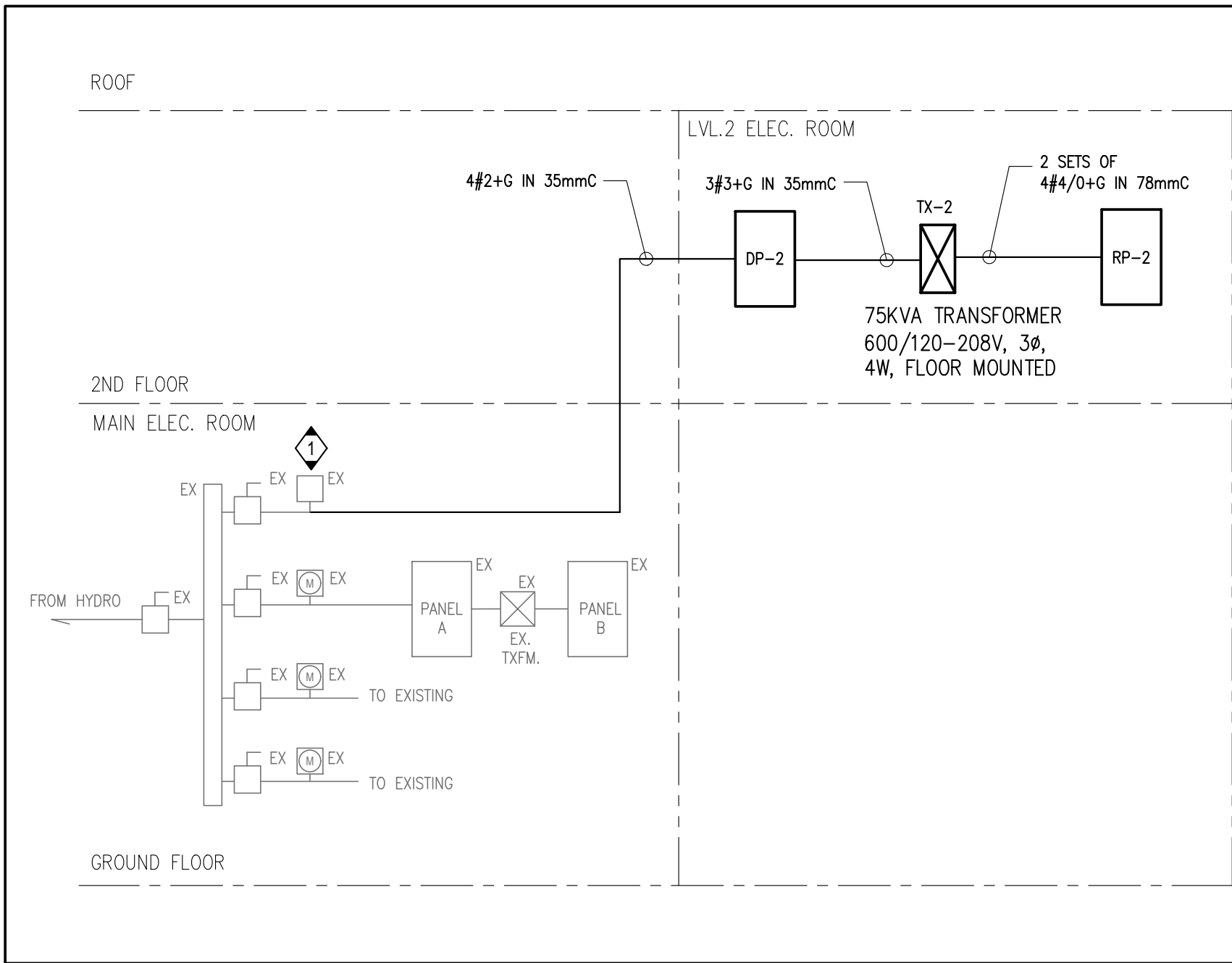
PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

LIGHTING
SECOND FLOOR LAYOUT
- NEW WORK

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:	E-06		



GENERAL NOTES:

- PROVIDE LAMICOID NAMEPLATE FOR NEW PANELS AND TRANSFORMER. PROVIDE CLEAR AND LEGIBLE WRITTEN DIRECTORY FOR EACH PANEL
- ELECTRICAL WORK OF THE MAIN FEEDER INSTALLATION AND WORK IN COMMON/PUBLIC AREA WHICH REQUIRE ANY DISCONNECTION, ETC. MAY HAVE TO BE DONE AFTER HOURS ON WEEKEND AND/OR AT OTHER TIMES SUITABLE FOR BUILDING OWNER AND TENANTS WITHIN THE BUILDING. INCLUDE IN PRICE SUBMITTAL PREMIUM TIME AND ALL ASSOCIATED COSTS TO PERFORM THE WORK.

KEY NOTES:

- 1 EXISTING SPARE METER SOCKET FOR SECOND FLOOR. METER SHALL BE COORDINATED AND PROVIDED BY HYDRO OTTAWA.

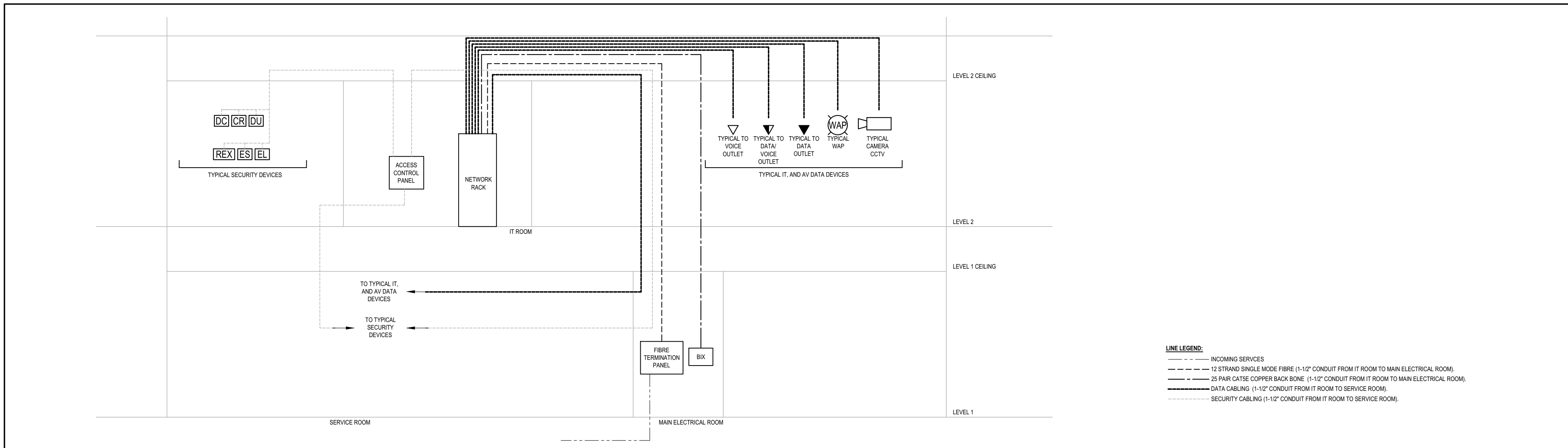
PANEL DESIGNATION: DP-2				PROJECT NAME: MUNICIPALITY OF CASSELMAN OFFICE FIT-UP			
MAIN BUS: 100A	MAIN BREAKER: 100A	VOLTAGE: 347/600V, 3ø, 4W, 25kA		SURFACE MOUNTED, NEW PANEL			
LOAD DESCRIPTION	BRKR SIZE	CCT. No.	PHASE	CCT. No.	BRKR SIZE	LOAD DESCRIPTION	
TRANSFORMER TX-2	90A	1	A	2	20A	RTU-1	
		3	B	4			
		5	C	6	3P		
		7	A	8	25A	RTU-2	
		9	B	10			
		11	C	12	3P		
		13	A	14			
		15	B	16			
		17	C	18			
		19	A	20			
		21	B	22			
		23	C	24			
		25	A	26			
		27	B	28			
		29	C	30			
		31	A	32			
		33	B	34			
		35	C	36			
		37	A	38			
		39	B	40			
		41	C	42			

PANEL DESIGNATION: RP-2				PROJECT NAME: MUNICIPALITY OF CASSELMAN OFFICE FIT-UP			
MAIN BUS: 400A	MAIN BREAKER: 250A	VOLTAGE: 120/208V, 3ø, 4W, 10kA		SURFACE MOUNTED, NEW PANEL			
LOAD DESCRIPTION	BRKR SIZE	CCT. No.	PHASE	CCT. No.	BRKR SIZE	LOAD DESCRIPTION	
OFFICE LIGHTS	20A	1	A	2	20A	OFFICE LIGHTS	
OFFICE LIGHTS	20A	3	B	4	20A	OFFICE LIGHTS	
CORRIDOR LIGHTS	20A	5	C	6	20A	CORRIDOR LIGHTS	
BATTERY UNIT	20A	7	A	8	20A	EXIT SIGNS	
BATTERY UNIT	20A	9	B	10	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	11	C	12	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	13	A	14	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	15	B	16	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	17	C	18	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	19	A	20	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	21	B	22	15A	OFFICE RECEPTACLE	
OFFICE RECEPTACLE	15A	23	C	24	15A	PRINTER ROOM REC.	
TREASURE ROOM REC.	15A	25	A	26	20A	PRINTER REC.	
TREASURE ROOM REC.	15A	27	B	28	15A	CORRIDOR REC.	
CORRIDOR REC.	15A	29	C	30	20A	PRINTER REC.	
IT ROOM REC.	20A	31	A	32	20A	IT ROOM REC.	
IT ROOM REC.	20A	33	B	34	20A	IT ROOM REC.	
RECEPTION REC.	15A	35	C	36	15A	CORRIDOR REC.	
RECEPTION REC.	15A	37	A	38	15A	CORRIDOR REC.	
WASHROOM REC.	15A	39	B	40	15A	WASHROOM REC.	
WASHROOM REC.	15A	41	C	42	15A	LARGE MEETING ROOM REC.	
LARGE MEETING ROOM REC.	20A	43	A	44	20A	LARGE MEETING ROOM REC.	
LARGE MEETING ROOM TV REC.	15A	45	B	46	15A	LARGE MEETING ROOM REC.	
LARGE MEETING ROOM FRIDGE REC.	15A	47	C	48	20A	LARGE MEETING ROOM AV CABINET.	
LARGE MEETING ROOM REC.	15A	49	A	50	15A	LARGE MEETING ROOM COUNTER REC.	
LARGE MEETING RANGE REC.	40A	51	B	52	15A	SMALL MEETING ROOM REC.	
	2P	53	C	54	15A	COUNCIL CHAMBER REC.	
COUNCIL CHAMBER REC.	20A	55	A	56	20A	COUNCIL CHAMBER REC.	
COUNCIL CHAMBER REC.	20A	57	B	58	15A	COUNCIL CHAMBER REC.	
ROOF REC.	20A	59	C	60	20A		
ROOF REC.	20A	61	A	62		DHW-1	
BASEBOARD HEATER	15A	63	B	64	3P		
BASEBOARD HEATER	15A	65	C	66	15A	EXHAUST FAN	
UNIV. WASHROOM DOOR CONTROLLER	15A	67	A	68	15A	TRANSFER FAN	
SMALL MEETING ROOM TV REC.	15A	69	B	70	15A	WORK STATION REC.	
SMALL MEETING ROOM REC.	20A	71	C	72	15A	WORK STATION REC.	
KITCHEN HOOD REC.	15A	73	A	74	15A	WORK STATION REC.	
ADO	15A	75	B	76	15A	WORK STATION REC.	
TV REC.	15A	77	C	78	20A	COUNCIL CHAMBER REC.	
SMALL MEETING ROOM REC.	15A	79	A	80	20A	COUNCIL CHAMBER REC.	
MAYOR 210 RECEPTACLE	15A	81	B	82	20A	SPARE	
LARGE MEETING ROOM REC.	15A	83	C	84	20A	SPARE	
LARGE MEETING ROOM REC.	15A	85	A	86	20A	SPARE	
COUNCIL CHAMBER REC.	15A	87	B	88	20A	SPARE	
COUNCIL CHAMBER REC.	15A	89	C	90	20A	SPARE	
COUNCIL CHAMBER REC.	15A	91	A	92	20A	SPARE	
SPACE	15A	93	B	94	20A	SPARE	
SPACE	15A	95	C	96	20A	SPARE	
SPACE	15A	97	A	99	20A	SPARE	
SPACE	15A	99	B	90	20A	SPARE	
SPACE	15A	101	C	102	20A	SPARE	
SPACE	15A	103	A	104	20A	SPARE	
SPACE	15A	105	B	106	20A	SPARE	
SPACE	15A	107	C	1010	20A	SPARE	

1 ELECTRICAL DISTRIBUTION RISER DIAGRAM E-07 N.T.S.

TYPE	DESCRIPTION	PART NO.	MANUFACTURER	NOTES
F1	2X4 LED TROFFER	OPX 2X4 4000LM 35K M2 MW	LITHONIA	
F2	4'X4' LED TROFFER	LSIX 4FT 3000LM 80CRI 35K FFR SWL MIN10 2T MVOLT MW	LITHONIA	
F3	LED TAPE	6020-FL-COB-3.1W24V-35K (LED tape) + 6100- AP-SM-1708 (aluminum extrusion + frosted lens) + 5030-PSU-60W24V-TRI-DIM-JB-CL2 (dimmable power supply)	PRISM	
A1	17" CEILING PENDANT	4275-17-LED.REG-35K-90-120V-DV-C60-RC1-BLKE-BLK-BLKE-WH	EUREKA	
A2	4" DOWNLIGHT	JPD24 DC AL010 SWW5MD 90CRI JPDZRMJBX MVOLT ZT10 WWH	JUNO	
A3	3' PENDANT	4048-10-LED-35-80-120V-DV-ME-FRO-C60-RC2-WHE-WHE-WHE	EUREKA	
L1	ACOUSTIC SUSPENDED LINEAR PENDANT	LX-BL-M-H1-S-LG-35-UNV-RD-LG	MVP	
L2	ACOUSTIC SUSPENDED LINEAR PENDANT	LX-BL-M-H2-S-LB-35-UNV-RD-LB	MVP	
L3	ACOUSTIC SUSPENDED LINEAR PENDANT	LX-BL-M-H0-S-LG-35-UNV-RD-LG	MVP	
W1	WALL SCONE	1125-BL-H6-40K	MVP	
X1	STEEL PICTOGRAM EXIT SIGN UNIVERSAL FACE	LS3WU STEEL PICTOGRAM EXIT SIGN UNIV	LUMACELL	
	12V STEEL EMERG. BATTERY UNIT C/W 4W MR16-LED	RG12S1442LD7	LUMACELL	
	PLASTIC EMERG. REMOTE HEAD DBL 12V4W-LED WS	MQM2LD7	LUMACELL	
NOTES: 1. ALL FINISHES, FLANGE AND PLASTER COLOURS TO BE CONFIRMED WITH ARCHITECT/INTERIOR DESIGNER PRIOR TO ORDERING LUMINAIRES. 2. CONTRACTOR TO PROVIDE SUITABLE MOUNTING ACCESSORIES AND HARDWARE ACCORDINGLY TO CEILING FINISHES. 3. PROVIDE SUITABLE STEP DOWN TRANSFORMER FOR ANY LOW VOLTAGE LIGHTING AS REQUIRED.				

LUMINAIRE SCHEDULE



2 IT AND SECURITY DISTRIBUTION RISER DIAGRAM E-07 N.T.S.

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 86% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.
T: 613.688.1899
100 - 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada



- BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
- INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

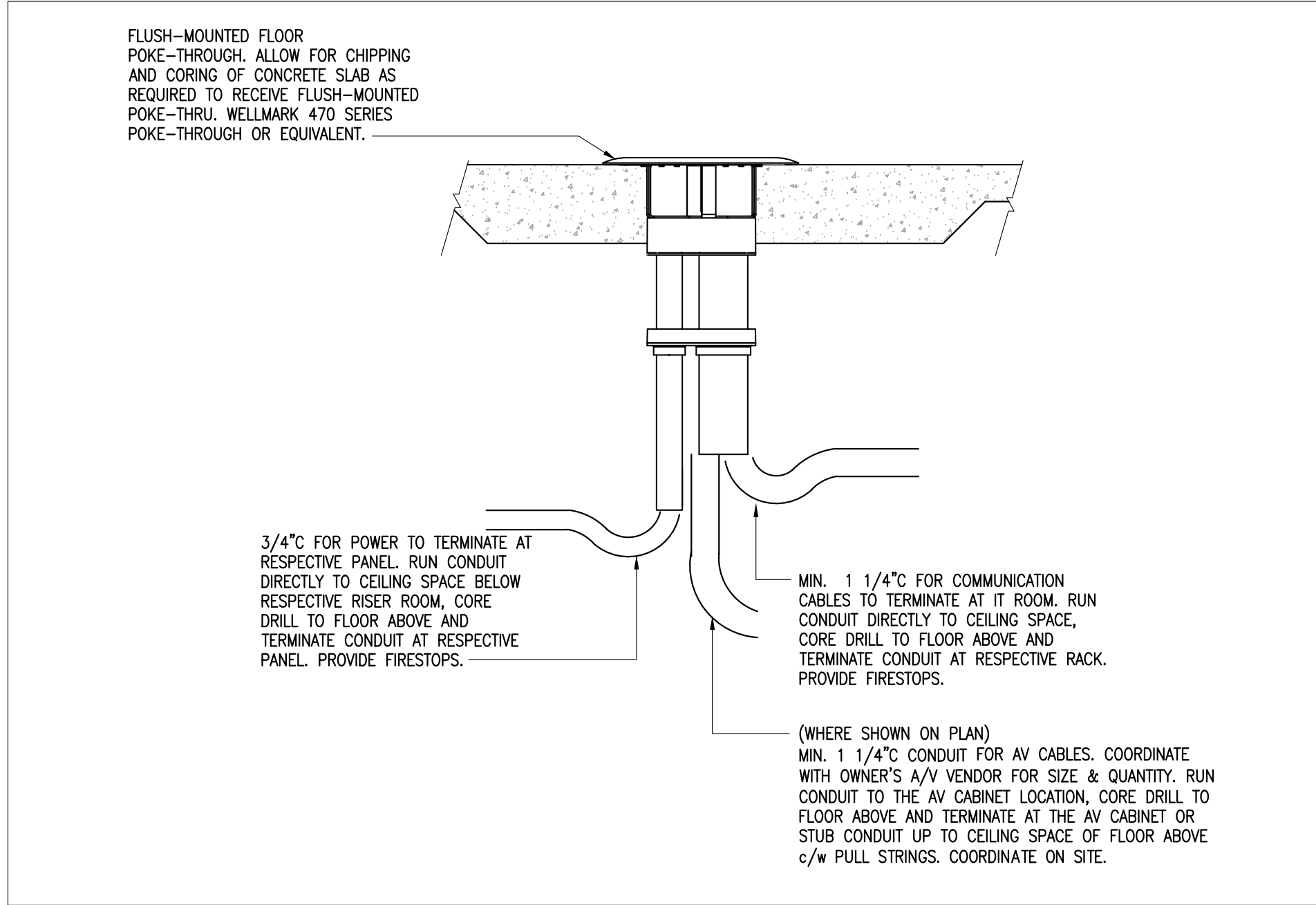
PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

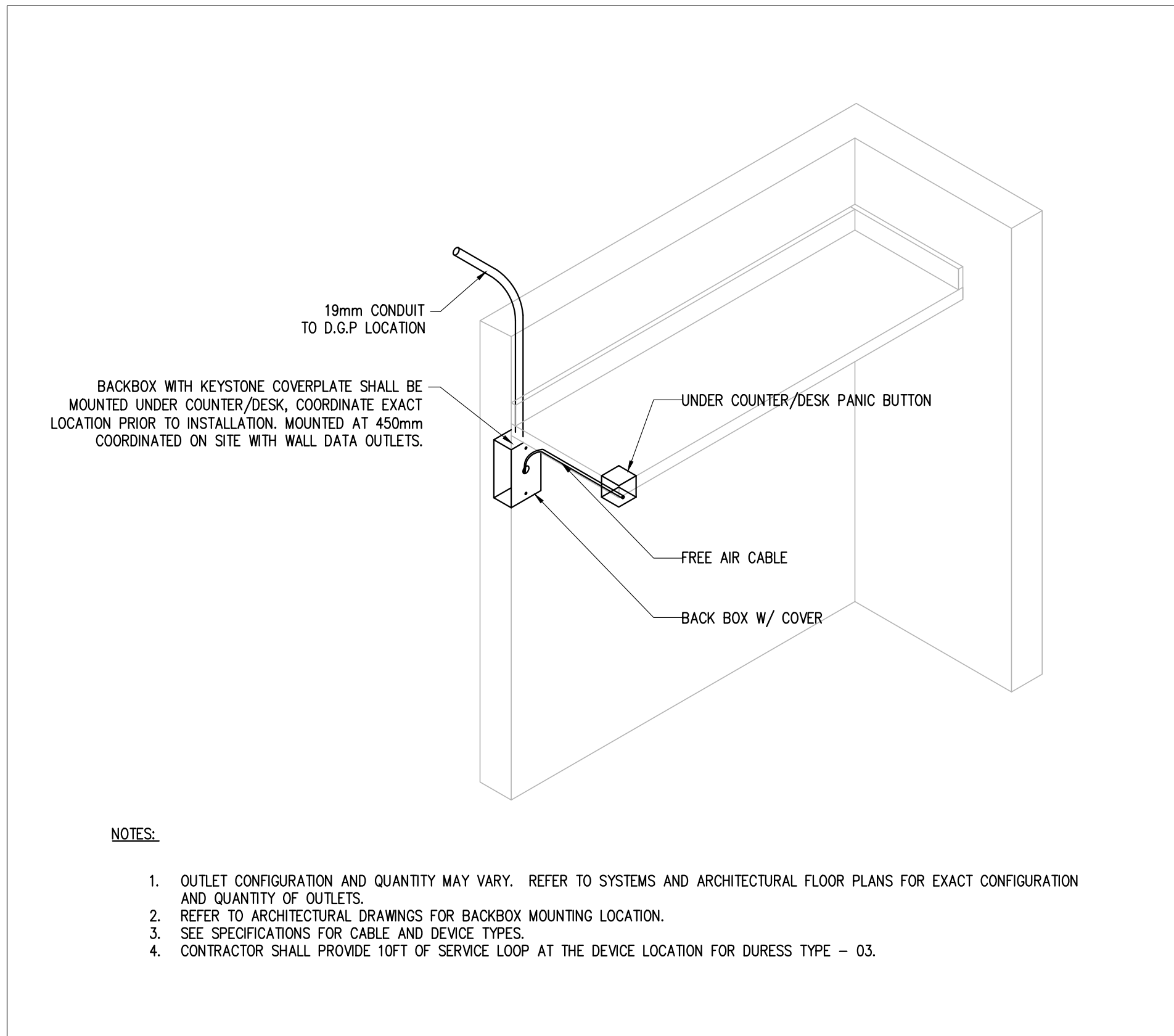
DRAWING

ELECTRICAL SCHEDULE
AND DIAGRAM

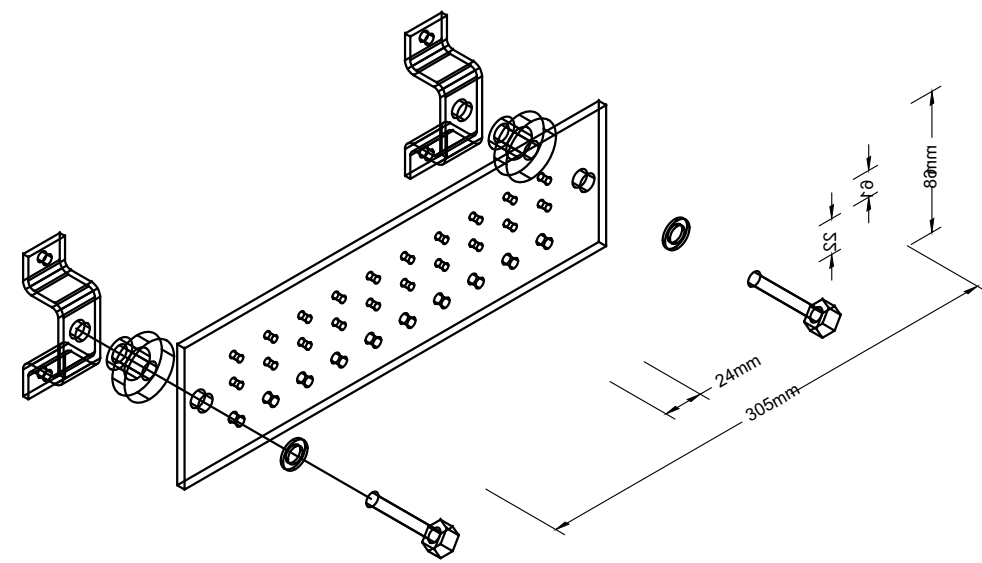
PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:	E-07		



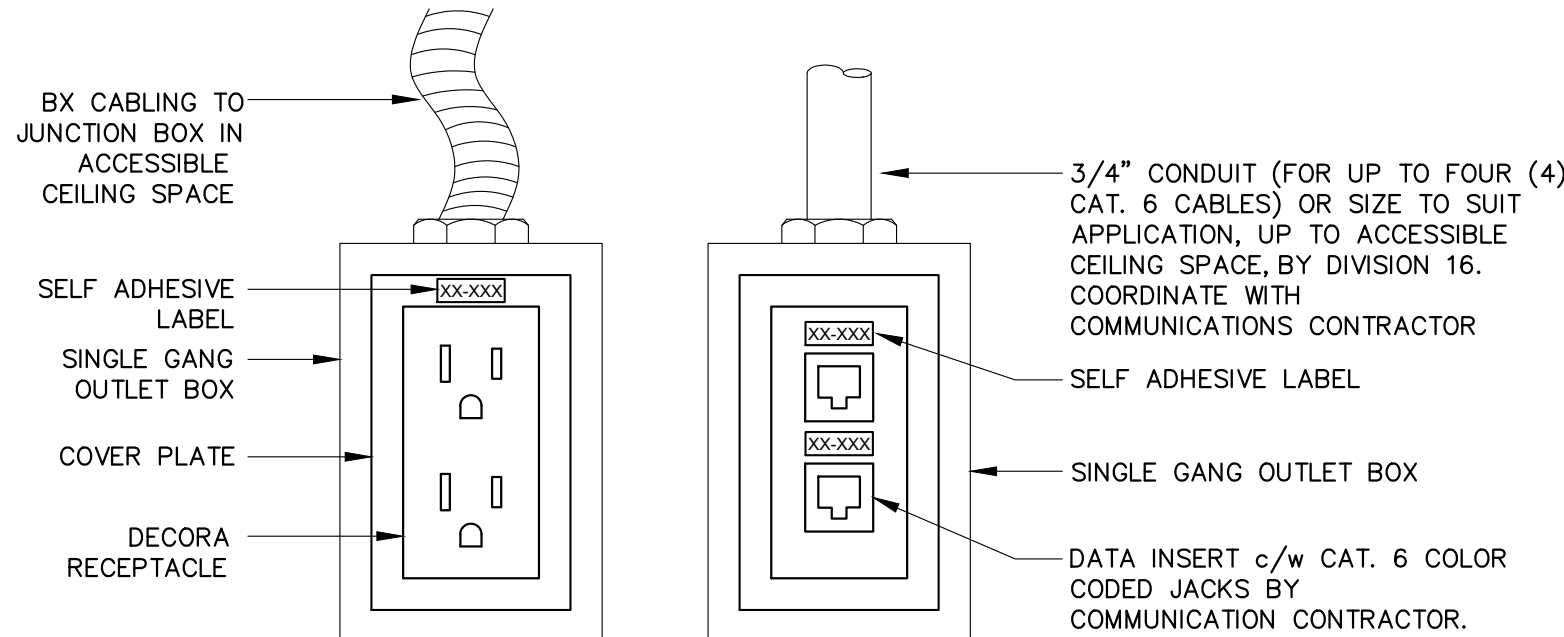
4
E-07
DETAIL OF FLOOR POKE-THROUGH
SYMBOL: [Symbol]



5
E-07
DURESS UNDER COUNTER/DESK PUSH STATION:
N.T.S.



1
E-07
DETAIL OF WALL MOUNTED GROUND BUS BAR:
N.T.S.



2
E-07
TYPICAL WALL MOUNTED POWER/DATA OUTLET DETAIL
N.T.S.

DESCRIPTION

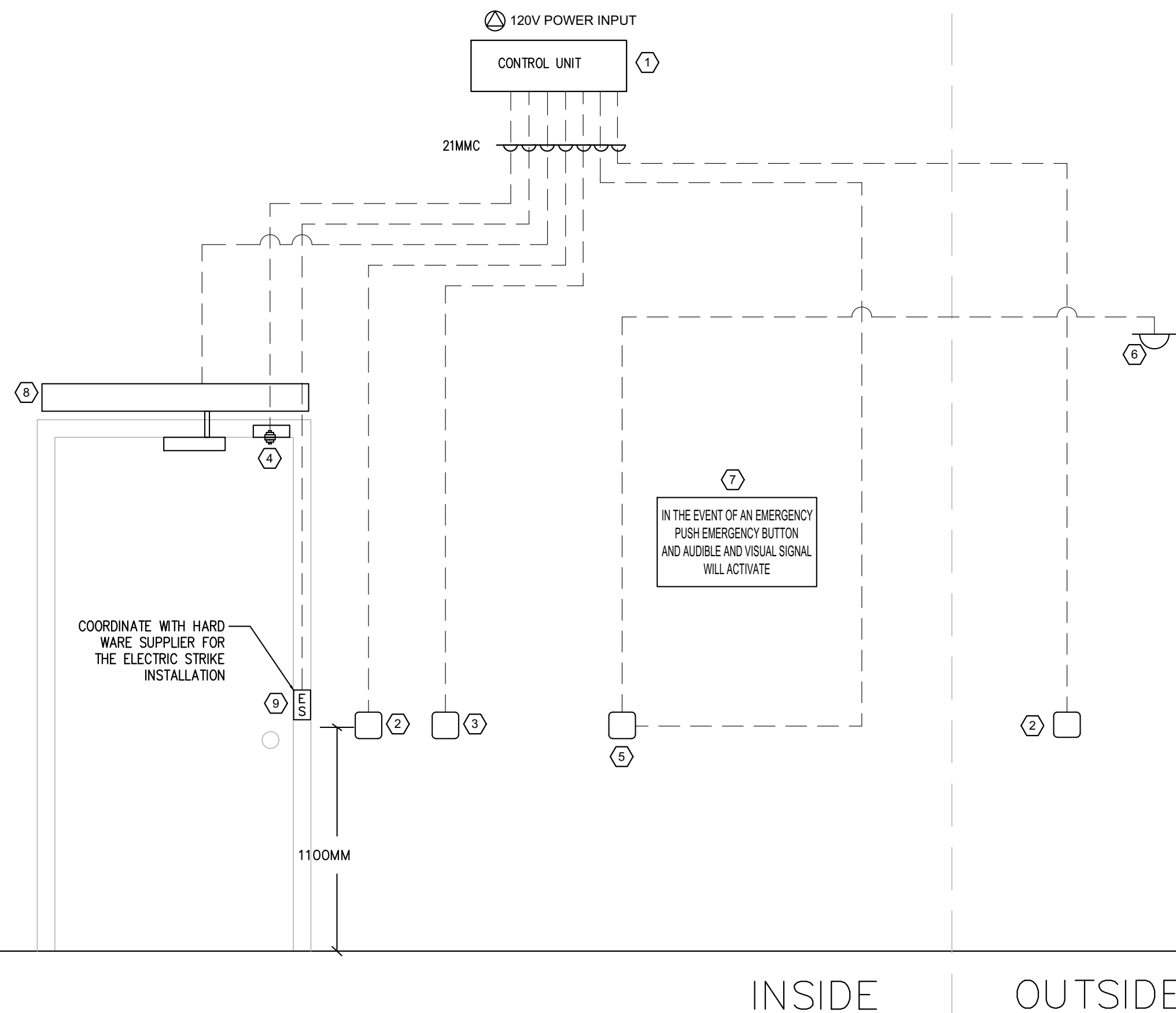
EQUIPMENT PACKAGE:

- 1 MULTI-FUNCTION RELAY
- 2 VERTICAL SURFACE MOUNTED PUSH TO OPEN
- 3 PUSH TO LOCK PLATE WITH ENCLOSURE AND SIGN
- 4 DOOR CONTACT
- 5 'PRESS FOR EMERGENCY ASSISTANCE' AND 'ASSISTANCE REQUESTED' LED ANNUNCIATOR WITH SOUNDER
- 6 'ASSISTANCE REQUIRED' DOME LIGHT WITH SOUNDER MOUNTED ABOVE THE DOOR OUTSIDE OF THE WASHROOM
- 7 EMERGENCY ASSISTANCE SIGN
- 8 DOOR OPERATOR
- 9 ELECTRIC STRIKE

NOTES:

1. DOOR HARDWARE AND DOOR MOTORS SHALL BE SUPPLIED AND INSTALLED BY DOOR HARDWARE, CONDUIT AND WIRING TO THE MOTORS SHALL BE BY THE ELECTRICAL CONTRACTOR.
2. ALL ROUGH-INS AND CONDUIT BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH THE ROUGH-IN LOCATION FOR THE DOOR PUSH BARS AND DOOR LOCK BUTTONS WITH INTERIOR DESIGNER/ARCHITECT.
3. ALL DOOR CONTROL DEVICES INCLUDING DOOR PUSH BARS, LOCK BUTTONS AND EMERGENCY CALL ASSISTANCE DEVICES SHALL BE SUPPLIED AND INSTALLED DOOR HARDWARE.
4. FINAL CONNECTIONS TO THE DOOR CONTROL DEVICES SHALL BE COMMISSIONED BY THE AUTHORIZED MANUFACTURER TECHNICIAN. ALL COSTS SHALL BE INCLUDED IN THIS CONTRACT.
5. LOW VOLTAGE CABLES C/W CONDUIT SHALL BE SUPPLIED AND INSTALLED BY DOOR HARDWARE. CONDUIT WITH PULL STRING SHALL BE BY THE ELECTRICAL CONTRACTOR.
6. COORDINATE WITH ARCHITECT AND DOOR HARDWARE CONTRACTOR FOR THE EXACT REQUIREMENTS.
7. ALL CONDUIT AND BACK BOXES WITH PULL CORDS AND WIRES ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ELECTRICIAN IS TO CONFIRM ALL WIRE LOCATIONS WITH THE AUTO DOOR OPERATOR SUPPLIER PRIOR TO PULLING WIRES.

3
E-07
BARRIER FREE WASHROOM EMERGENCY CALL ASSISTANCE AND DOOR CONTROL DETAIL
N.T.S.



CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899
100 - 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

ELECTRICAL DETAILS

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN
DRAWING No:			

E-08

[illegible]

DIV 27 COMMUNICATIONS SPECIFICATIONS

1. GENERAL REQUIREMENTS:

1.1. THIS DOCUMENT SPECIFIES THE USE OF AN END TO END STRUCTURED CABLING SOLUTION AS MANUFACTURED, WARRANTED, AND CERTIFIED BY A SINGLE MANUFACTURER. THE ACCEPTABLE MANUFACTURERS ARE AS FOLLOWS: BELDEN, COMSCOPE, PANDUIT, OR HUBBELL. NO SUBSTITUTION IS ALLOWED. WORK DONE UNDER THIS SECTION SHALL INCLUDE FURNISHING OF LABOUR, MATERIALS, AND EQUIPMENT REQUIRED FOR INSTALLATION, TESTING, AND PUTTING INTO PROPER OPERATION A COMPLETE COMMUNICATIONS SYSTEMS AS SHOWN, AS SPECIFIED AND AS OTHERWISE REQUIRED.

1.2. 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 NUMBER AND TO REPORT AND ERRORS AND/OR OMISSIONS IN THE DRAWINGS AND SPECIFICATIONS WITH THEIR BID SUBMISSIONS.

1.3. THE COMMUNICATIONS CONTRACTOR SHALL SUPPLY AND INSTALL A COMPLETE STRUCTURED CABLING SOLUTION BASED ON A PHYSICAL STAR WIRING TOPOLOGY THAT IS DESIGNED IN ACCORDANCE WITH, AND SUPPORTED BY A MANUFACTURER BACKED CERTIFICATION AND WARRANTY AS SPECIFIED HEREIN.

1.4. THE COMMUNICATIONS CONTRACTOR IS REQUIRED TO BE ON SITE DURING EACH PHASE/MOVE. THEY SHOULD PROVIDE FOR EIGHT (8) HOURS SUPPORT ON EACH OF THE PHASES/MOVES ON WEEKENDS. THE COMMUNICATIONS CONTRACTOR SHALL INCLUDE IN THEIR BID ALL NECESSARY ALLOWANCES FOR OVERTIME WORK AFTER REGULAR HOURS AND/OR WEEKENDS AS DICTATED BY THE PROJECT SCHEDULE.

1.5. THE COMMUNICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR THE ASSEMBLY OF THE COMMUNICATIONS SYSTEM AND PROTECTION OF THE MATERIAL AND EQUIPMENT AND RELATED ITEMS UNTIL PROJECT CUT OVER. ANY DAMAGE TO MATERIALS AND EQUIPMENT SHALL BE THE LIABILITY OF THE COMMUNICATIONS CONTRACTOR. ALL DAMAGE SHALL BE REPAIRED OR AT THE CLIENT'S REQUEST, THE EQUIPMENT SHALL BE REPLACED AT NO EXTRA CHARGE TO THE CLIENT.

1.6. PROVIDE EQUIPMENT, MATERIALS, AND LABOUR NOT SPECIFICALLY MENTIONED OR SHOWN WHICH MAY BE NECESSARY TO PERFECT ALL PARTS OF THIS INSTALLATION AND IN COMPLIANCE WITH REQUIREMENTS STATED OR REASONABLY INFERRED BY THE CONTRACT DOCUMENTS.

1.7. PRIOR TO SUBMITTING THEIR TENDER RESPONSE, THE COMMUNICATIONS CONTRACTOR SHALL PERFORM A SITE SURVEY TO FAMILIARIZE THEMSELVES WITH THE SITE AND ALL CONDITIONS OF THE SITE AFFECTED BY THE PROPOSED WORK. NO CLAIMS FOR EXTRA PAYMENT WILL BE CONSIDERED BECAUSE OF FAILURE TO DO SO.

2. SCOPE OF WORK

2.1. THIS PROJECT CONSISTS OF THE SUPPLY AND INSTALLATION OF AN END TO END STRUCTURED CABLING SOLUTION TO SUPPORT DATA AND VOICE APPLICATIONS, CATV CABLING SYSTEM APPLICATIONS, INTRA-BUILDING BACKBONE CABLING CONSISTING OF MULTIPAIR COPPER CABLING AND INTRA-BUILDING BACKBONE CABLING CONSISTING OF FIBER OPTIC CABLING. THIS SOLUTION SHALL BE INSTALLED, TESTED AND WARRANTED TO A UTP STANDARD CONSISTENT WITH THE GRADE OF CABLE BEING PROVIDED AS DETAILED IN ANSI/TIA-568-C.0, 568-C.1, 568-C.2, AND 568-C.3.

2.2. THE COMMUNICATIONS CONTRACTOR IS RESPONSIBLE TO KEEP THE WORKPLACE CLEAN, SAFE, AND FREE FROM ALL DEBRIS. ALL DEBRIS MUST BE REMOVED ON A DAILY BASIS.

2.3. THE COMMUNICATIONS CONTRACTOR IS RESPONSIBLE FOR THE STORAGE, HANDLING, DELIVERY AND INSTALLATION OF ALL MATERIALS USED IN THE PERFORMANCE OF THE WORK.

2.4. ALL CABLE PAIRS MUST BE TERMINATED AT EACH END USING EIA/TIA T568A, UNLESS OTHERWISE SPECIFIED.

2.5. THE CABLE LENGTH TO THE FARTHEST WORK AREA FROM THE I.T. CLOSET WILL BE LIMITED TO 90 METERS (295 FEET). COMMUNICATIONS CONTRACTOR TO PROVIDE A 10 FOOT SERVICE LOOP ON ALL CABLES AT EACH END UNLESS OTHERWISE NOTED. IT IS THE RESPONSIBILITY OF THE COMMUNICATIONS CONTRACTOR TO NOTIFY THE COMMUNICATION ENGINEER'S REPRESENTATIVE IMMEDIATELY UPON DISCOVERY OF ANY CABLE RUN EXCEEDING 90m (295 FEET).

3. BREAKOUT PRICING:

3.1. COMMUNICATIONS CONTRACTOR TO PROVIDE A UNIT PRICE TO SUPPLY AND INSTALL ONE (1) CABLE C/W PERIPHERALS FOR COMPLETE CONNECTIVITY, TERMINATED, TESTED AND LABELED. COMMUNICATIONS CONTRACTOR TO ASSUME THAT CABLE LENGTHS WILL BE APPROXIMATELY 250 FEET AND THAT WORK WILL BE DONE DURING REGULAR HOURS.

3.1.1. ADD _____ DELETE _____

3.2. COMMUNICATIONS CONTRACTOR TO PROVIDE A UNIT PRICE TO SUPPLY AND INSTALL ONE (1) RG-6 COAXIAL CMP CABLE C/W PERIPHERALS FOR COMPLETE CONNECTIVITY, TERMINATED, TESTED AND LABELED. COMMUNICATIONS CONTRACTOR TO ASSUME THAT CABLE LENGTHS WILL BE APPROXIMATELY 250 FEET AND THAT WORK WILL BE DONE DURING REGULAR HOURS.

3.2.1. ADD _____ DELETE _____

3.3. COMMUNICATIONS CONTRACTOR TO PROVIDE A UNIT PRICE TO SUPPLY AND INSTALL ONE (1) CABLE C/W PERIPHERALS FOR COMPLETE CONNECTIVITY, TERMINATED, TESTED AND LABELED. COMMUNICATIONS CONTRACTOR TO ASSUME THAT CABLE LENGTHS WILL BE APPROXIMATELY 250 FEET AND THAT WORK WILL BE DONE DURING AFTER HOURS.

3.3.1. ADD _____ DELETE _____

3.4. COMMUNICATIONS CONTRACTOR TO PROVIDE A UNIT PRICE TO SUPPLY AND INSTALL ONE (1) RG-6 COAXIAL CMP CABLE C/W PERIPHERALS FOR COMPLETE CONNECTIVITY, TERMINATED, TESTED AND LABELED. COMMUNICATIONS CONTRACTOR TO ASSUME THAT CABLE LENGTHS WILL BE APPROXIMATELY 250 FEET AND THAT WORK WILL BE DONE DURING AFTER HOURS.

3.4.1. ADD _____ DELETE _____

3.5. COMMUNICATIONS CONTRACTOR SHALL PROVIDE A SEPARATE PRICE TO SUPPLY AND INSTALL ONE HUNDRED (100) ADDITIONAL CABLES. COMMUNICATIONS CONTRACTOR TO ASSUME THAT CABLE LENGTHS WILL BE APPROXIMATELY 250 FEET. LOCATIONS TO BE DETERMINED ON SITE WITH CLIENT.

3.6. COMMUNICATIONS CONTRACTOR SHALL PROVIDE AN ALTERNATE PRICE TO SUPPLY AND INSTALL A CATEGORY 6 CABLING SOLUTION.

4. HORIZONTAL TRANSMISSION MEDIA:

4.1. THE COMMUNICATIONS CONTRACTOR SHALL SUPPLY HORIZONTAL CABLING AS REQUIRED BY THE CONTRACT DOCUMENTS. THE COMMUNICATIONS CONTRACTOR SHALL USE PATHWAYS (BY DIVISION 16) TO DISTRIBUTE THE CABLES THROUGHOUT THE FACILITY. WHERE THE CABLES LEAVE THE PATHWAYS AND EXTEND TO THE TERMINATION POINT THEY SHALL USE J-HOOKS AS SPECIFIED.

4.2. COMMUNICATIONS CONTRACTOR TO PROVIDE A 12 FOOT SERVICE LOOP AT EACH END ON ALL CABLES, UNLESS OTHERWISE NOTED.

4.3. ALL COMPONENTS OF THE HORIZONTAL CHANNEL SHALL MEET THE MINIMUM PERFORMANCE CHARACTERISTICS OF:

4.3.1. CATEGORY 6A+ – 750MHZ AND A DATA RATE OF 10GB/S

4.3.2. CATEGORY 6A+ – 625MHZ AND A DATA RATE OF 10GB/S

4.3.3. CATEGORY 6A – 500MHZ AND A DATA RATE OF 10GB/S

4.3.4. CATEGORY 6+ – 400MHZ AND A DATA RATE OF 2.4GB/S

4.3.5. CATEGORY 6 – 250MHZ AND A DATA RATE OF 2.4GB/S

4.4. DATA CABLES: UTP, 24 AWG SOLID CONDUCTOR, CMP CABLE. CABLE COLOUR TO BE WHITE.

4.5. WIRELESS ACCESS POINT (W.A.P.) DATA: UTP, 24 AWG SOLID CONDUCTOR, CMP CABLE. CABLE COLOUR TO BE BLUE. COMMUNICATIONS CONTRACTOR TO PROVIDE A MINIMUM OF 20 FEET SLACK AT THE OUTLET LOCATION FOR CLIENT TO HAVE THE FLEXIBILITY TO RELOCATE THE OUTLET.

4.6. VOICE CABLES: UTP, 24 AWG SOLID CONDUCTOR, CMP CABLE. CABLE COLOUR TO BE WHITE.

4.7. AUDIO VISUAL (AV) CABLES: UTP, 24 AWG SOLID CONDUCTOR, CMP CABLE. CABLE COLOUR TO BE WHITE.

4.8. SECURITY CABLES: UTP, 24 AWG SOLID CONDUCTOR, CMP CABLE. CABLE COLOUR TO BE WHITE.

4.9. INTER-CABINET CABLES: UTP, 24 AWG SOLID CONDUCTOR, CMP CABLE. CABLE COLOUR TO BE WHITE.

4.10. CATV CABLE: RG-6 COAXIAL CABLE, CMP CABLE.

5. VERTICAL/BACKBONE AND INTERCONNECTIVITY TRANSMISSION MEDIA:

5.1. THE COMMUNICATIONS CONTRACTOR SHALL SUPPLY BACKBONE CABLING AS REQUIRED BY THE CONTRACT DOCUMENTS. THE COMMUNICATIONS CONTRACTOR SHALL USE PATHWAYS (BY DIVISION 16) TO DISTRIBUTE THE CABLES THROUGHOUT THE FACILITY. WHERE THE CABLES LEAVE THE PATHWAYS AND EXTEND TO THE TERMINATION POINT THEY SHALL USE J-HOOKS AS SPECIFIED.

5.2. THE COMMUNICATIONS CONTRACTOR SHALL VERIFY ALL BACKBONE CABLE RUN LENGTHS ON SITE PRIOR TO ORDERING.

5.3. OPTICAL FIBRE BACKBONE CABLE:

5.3.1. ALL FIBRE OPTIC CABLES SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF EIA/TIA-568 C-3. THE CABLES SHALL HAVE SEQUENTIAL LENGTH MARKINGS PRINTED ON THE CABLE JACKET. THE CABLES SHALL HAVE A CRUSH RESISTANCE OF 2000 N/CM AS PER EIA-455-41. THE CABLES SHALL HAVE AN IMPACT RESISTANCE OF 1000 IMPACTS WITH 1.6 N-M AS PER EIA-455-25. THE CABLES SHALL HAVE A MINIMUM FLEXURE RATING OF 2000 CYCLES AS PER EIA-455-104.

5.3.2. ALL COMPONENTS OF THE MULTIMODE FIBER OPTIC BACKBONE CHANNEL SHALL MEET THE MINIMUM PERFORMANCE CHARACTERISTICS OF:

5.3.3.1. OM5 – 50/125UM LASER OPTIMIZED WITH MINIMUM BANDWIDTH OF 2000MHZ/KM AT 850NM & 500MHZ/KM AT 1300NM UP TO 550 METERS.

5.3.3.2. OM3 – 50/125UM LASER OPTIMIZED WITH MINIMUM BANDWIDTH OF 2000MHZ/KM AT 850NM & 500MHZ/KM AT 1300NM UP TO 300 METERS.

5.3.2. ALL COMPONENTS OF THE SINGLEMODE FIBER OPTIC BACKBONE CHANNEL SHALL MEET THE MINIMUM PERFORMANCE CHARACTERISTICS OF:

5.3.2.1. OS1 – 8/125UM TO 9/125UM WITH MINIMUM BANDWIDTH STIPULATED BY THE CABLE MANUFACTURER AT 1310NM & 1550NM. CABLE/PATCH CORD COMPONENT SHALL BE ZERO WATER PEAK DESIGN ALLOWING USE OF ENTIRE SPECTRUM FROM 1260NM TO 1620NM.

5.4. MULTIPAIR COPPER BACKBONE CABLE:

5.4.1. THE MULTIPAIR CABLE SHALL MEET THE ICEA 5-910-661-1997 AND BE COMPLIANT WITH BELLCORE AND REA SPECIFICATIONS. THE MULTIPAIR CABLE SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF EIA/TIA-568B. THE CABLE SHALL HAVE 24 AWG SOLID COPPER CONDUCTORS AND POLYOLEFIN INSULATION. THE CABLE CORE SHALL CONSIST OF 26 PAIR SUB-UNITS. THE CABLE SHALL HAVE SEQUENTIAL LENGTH MARKINGS PRINTED ON THE CABLE JACKET. THE CABLE SHALL HAVE ONE JACKET EQUIPPED WITH A JACKET SPLITTING CORD.

5.4.2. ALL COMPONENTS OF THE MULTIPAIR COPPER BACKBONE CHANNEL SHALL MEET THE MINIMUM PERFORMANCE CHARACTERISTICS OF:

5.4.2.1. CATEGORY 5E – 100MHZ AND A DATA RATE OF 1.0GB/S

5.4. CATV COAXIAL BACKBONE CABLE: COAXIAL BACKBONE CABLE FROM I.T. CLOSET TO SERVICE PROVIDER DEMARCATION TO BE ARRANGED BY THE OWNER'S I.T. REPRESENTATIVE WITH THE SERVICE PROVIDER.

6. MODULAR JACKS:

6.1. MODULAR JACKS MUST BE MATCHED APPROPRIATELY WITH THE CABLES TO ENSURE THAT END TO END VENDOR WARRANTIES WILL BE APPLICABLE.

6.2. MODULAR JACKS TO BE T568A 8P8C MDVO STYLE (OR EQUIVALENT) MODULAR JACK FOR WALL MOUNTED OUTLETS AND T568A 8P8C KEYSTONE (OR EQUIVALENT) STYLE FOR FLOOR AND MEETING ROOM TABLE OUTLETS. THE GRADE AND MANUFACTURER SHALL BE CONSISTENT WITH THE CABLE BEING WARRANTED.

6.3. ALL HORIZONTAL CABLING SHALL BE TERMINATED AT EACH END WITH THE MODULAR JACK COLOURS AS FOLLOWS:

	CABLE DESIGNATION	COLOUR
	DATA	WHITE
	WIRELESS ACCESS POINTS	WHITE
	VOICE	WHITE
	AUDIO/VISUAL	WHITE
	SECURITY	WHITE
	INTER-CABINET CONNECTIVITY	WHITE

6.4. BLANK INSERT TO BE PROVIDED WHERE PORTS DO NOT CONTAIN JACKS. COLOUR SHALL MATCH FACEPLATE.

7. COMMUNICATION OUTLETS AND ACCESSORIES:

7.1. WALL OUTLETS TO BE:

7.1.1. 3-PORT AND 1-PORT DECORA + MODULES. COLOUR TO MATCH DIVISION 16 (ELECTRICAL) UNLESS OTHERWISE NOTED. COLOUR TO BE VERIFIED BY INTERIOR DESIGNER PRIOR TO PURCHASE AND INSTALLATION.

7.1.2. SOME LOCATIONS ON THE FLOOR PLAN MAY INDICATE A WALL MOUNT TELEPHONE. PROVIDE A WALL MOUNT FACEPLATE SUITABLE FOR WALL MOUNTING A TELEPHONE SET IN THESE LOCATIONS.

7.2. FLOOR AND MEETING ROOM TABLE OUTLETS TO BE:

7.2.1. 3-PORT KEYSTONE DECORA + KEYSTONE MODULES. COLOUR TO MATCH DIVISION 16 (ELECTRICAL) UNLESS OTHERWISE NOTED. COLOUR TO BE VERIFIED BY INTERIOR DESIGNER PRIOR TO PURCHASE AND INSTALLATION.

7.3. SYSTEM FURNITURE OUTLETS TO BE:

7.3.1. 3-PORT MODULAR FURNITURE ADAPTER (IF SYSTEM FURNITURE HAS A STANDARD OPENING FOR COMMUNICATIONS CABLING) OR 1-PORT SIDE ENTRY BOX (IF SYSTEM FURNITURE HAS NO OPENING FOR COMMUNICATIONS CABLING) OR TEKION FURNITURE ADAPTER (IF THE SYSTEM

FURNITURE IS TEKION). COMMUNICATIONS CONTRACTOR TO CONFIRM SYSTEM FURNITURE TYPE ON SITE WITH THE OWNER BEFORE ORDERING FURNITURE ADAPTER.

7.4. CEILING MOUNTED OUTLETS TO BE:

7.4.1. 1-PORT OR 2-PORT SURFACE MOUNT BOXES, AS INDICATED ON DRAWINGS. COLOUR TO BE WHITE.

7.5. CATV OUTLET: F-CONNECTOR FOR COAXIAL CABLE.

8. TERMINATION HARDWARE:

8.1. HORIZONTAL CABLES: ALL HORIZONTAL CABLES SHALL BE TERMINATED ONTO RACK MOUNTABLE UNLOADED MODULAR PATCH PANELS IN THE NEAREST TELECOM ROOM.

8.2. OPTICAL FIBRE BACKBONE CABLE: FIBER BACKBONE CABLES SHALL BE TERMINATED ONTO THE OPTICAL FIBRE PATCH PANEL WHICH SHALL BE COMPATIBLE WITH STANDARD 19 RACKS, MUST BE SERVICEABLE FROM THE FRONT BY ALLOWING THE FIBRE PATCH PANEL TO SLIDE OR PIVOT AWAY FROM THE RACK AND SHALL BE MOUNTED AS INDICATED ON DETAIL DRAWINGS.

8.3. COPPER BACKBONE CABLES: COPPER BACKBONE CABLE SHALL BE TERMINATED ONTO AN IDC BLOCK ON PLYWOOD BACKBOARD IN THE LAN ROOM AND AT THE SERVICE PROVIDER DEMARCATION.

8.4. COPPER TIE CABLES: COPPER TIE CABLES SHALL BE TERMINATED ONTO AN IDC BLOCK ON PLYWOOD BACKBOARD AND RACK MOUNTABLE UNLOADED MODULAR PATCH PANEL (1 PAIR PER PORT) ON NETWORK RACK IN THE LAN ROOM.

8.5. INTER-CABINET CONNECTIVITY CABLES: ALL INTER-CABINET DATA CABLES SHALL BE TERMINATED BETWEEN RACK MOUNTABLE UNLOADED MODULAR PATCH PANELS IN NETWORK CABINETS.

9. CONNECTIVITY ITEMS:

9.1. UTP COPPER PATCH CORDS: ALL PATCH CORDS SHALL BE CONNECTED IN THE TELECOM ROOM TO THE CLIENT SUPPLIED ACTIVE EQUIPMENT USING 8 POSITION 4-PAIR PATCH CORDS, WITH A SMALL OUTSIDE DIAMETER. THE PATCH CORDS SHALL BE OM RATED, FT4, AND STAMPED ACCORDINGLY, AND SHALL BE CONSISTENT WITH THE GRADE AND MANUFACTURER OF THE CABLE BEING WARRANTED. PATCH CORDS TO HAVE STRANDED COPPER CONDUCTORS (WHERE SYSTEM DICTATES) AND DESIGNED TO PROVIDE A MATED-CONNECTION PERFORMANCE THAT EXCEEDS THE REQUIREMENTS PER ANSI/TIA/EIA-568-B. PATCH CORDS TO BE FACTORY ASSEMBLED AND NOT SITE PREPARED, COMPLETE WITH SNAGLLESS BOOT. THE PATCH CORDS SHALL BE:

9.1.1. AT THE LAN ROOM – QUANTITIES AS PER TOTAL NO. OF CABLES INSTALLED. PATCH CORD LENGTHS ARE TO BE COORDINATED WITH THE IT REPRESENTATIVE. PATCH CORDS COLOUR TO BE:

COLOUR	CABLE DESIGNATION	TERMINATION
	LENGTH	
WHITE	DATA	RJ45/RJ45
	15 FEET	
WHITE	WIRELESS ACCESS POINTS	RJ45/RJ45
	10 FEET	
WHITE	VOICE	RJ45/RJ45
	10 FEET	
WHITE	AUDIO/VISUAL	RJ45/RJ45
	10 FEET	
WHITE	SECURITY	RJ45/RJ45
	10 FEET	
WHITE	INTER-CABINET CONNECTIVITY	RJ45/RJ45
	10 FEET	

9.1.2. AT THE WORKSTATION – QUANTITIES AS PER TOTAL NO. OF CABLES INSTALLED. PATCH CORD LENGTHS ARE DEPENDENT ON THE TYPICAL LOCATIONS OF THE FURNITURE ADAPTER ON SYSTEMS FURNITURE. COORDINATE PATCH CORD LENGTH WITH THE IT REPRESENTATIVE PRIOR TO ORDERING. PATCH CORD COLOUR TO BE:

COLOUR	CABLE DESIGNATION	TERMINATION
	LENGTH	
WHITE	DATA	RJ45/RJ45
	15 FEET	
WHITE	WIRELESS ACCESS POINTS	RJ45/RJ45
	15 FEET	
WHITE	VOICE	RJ45/RJ45
	15 FEET	
WHITE	AUDIO/VISUAL	RJ45/RJ45
	15 FEET	
WHITE	SECURITY	RJ45/RJ45
	15 FEET	
WHITE	INTER-CABINET CONNECTIVITY	RJ45/RJ45
	15 FEET	

9.2. OPTICAL FIBER PATCH CORDS: ALL OPTICAL FIBER BACKBONE CABLE STRANDS SHALL BE CONNECTED TO THE CLIENT SUPPLIED ACTIVE EQUIPMENT USING FIBER PATCH CORDS. THE FIBER PATCH CORDS SHALL BE OM RATED, FT4, AND STAMPED ACCORDINGLY. FIBER PATCH CORDS SHALL BE CONSISTENT WITH THE GRADE AND MANUFACTURER OF THE FIBER CABLES THAT IS BEING WARRANTED.

9.2.1. DUPLEX FIBRE PATCH CORDS QUANTITIES AND LENGTHS ARE AS FOLLOWS:

	TYPE	LENGTH	END 1
END 2	INSTALL AT:		
SC	TR #1	7 FEET	SC
	SM		
SC	TR #	7 FEET	SC
	MM 62.5/125 UM		
SC	TR #1	7 FEET	SC
	MM 50/125 UM 1GB		
SC	TR #1	7 FEET	SC
	MM 50/125 UM 10GB		

9.3. HORIZONTAL WIRE MANAGEMENT: EACH PATCH PANEL IS TO COME COMPLETE WITH ONE (1) 2U HORIZONTAL MANAGER WHEN NO RACK ELEVATION IS PROVIDED, OTHERWISE QUANTITIES ON RACK ELEVATION DRAWING SHALL SUPERCEDE THIS REQUIREMENT.

10. GROUNDING

10.1. A PROPERLY SIZED COPPER GROUNDING BUSBAR AND ASSOCIATED HARDWARE SHALL BE INSTALLED IN THE I.T. ROOM BY DIVISION 16 (ELECTRICAL). THE BUSBAR SHALL BE PERMANENTLY CONNECTED TO THE BUILDING GROUND SYSTEM BY DIVISION 16 (ELECTRICAL).

10.2. PROVIDE GROUNDING AND BONDING IN ACCORDANCE WITH GOOD INDUSTRY PRACTICES, LOCAL CODES AND STANDARDS.

10.3. ALL COMPONENTS OF THE GROUNDING AND BONDING INFRASTRUCTURE SHALL BE BY PANDUIT CANADA.

10.4. GROUNDING AND BONDING INFRASTRUCTURE INSTALLED BY THE COMMUNICATIONS CONTRACTOR SHALL NOT INTERFERE WITH THE EXISTING GROUNDING PRACTICES WITHIN THE CUSTOMER PREMISES.

10.5. A GREEN JACKETED #6 AWG STRANDED COPPER CONDUCTOR SHALL BE USED TO GROUND THE TELECOMMUNICATIONS GROUNDING SYSTEM TO ALL TELECOMMUNICATIONS RACKS, CABINETS, METALLIC PATHWAYS (INCLUDING CABLE TRAYS, CONDUITS, ETC.) AND METALLIC SHEATH OF ALL BACKBONE CABLES (USE APPROPRIATE MANUFACTURER'S BOND CLAMP).

10.6. THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE ONE (1) RACK GROUNDING STRIP C/W # 6 AWG GREEN GROUNDING WIRE CONNECTION BACK TO GROUNDING BUSBAR FOR EACH COMMUNICATIONS RACKS, CABINETS, AND CABLE TRAYS AS DEPICTED ON I.T. CLOSET DETAILED LAYOUT. DO NOT DAISY CHAIN.

10.7. THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE ONE (1) RACK JUMPER KIT FOR EACH PIECE OF NETWORK EQUIPMENT.

10.8. THE COMMUNICATIONS CONTRACTOR SHALL UTILIZE THREAD FORMING SCREWS, BONDING SCREWS, AND ANY OTHER HARDWARE NECESSARY TO COMPLETE THE GROUND SYSTEM.

11. FIRE STOPPING:

11.1. ALL OPENINGS ARE TO BE "FIRE STOPPED" AS REQUIRED PER THE BUILDING AND ELECTRICAL CODES. INSTALL NON-PERMANENT CSA APPROVED INTUMESCENT FIRE STOPPING TO CAP ALL EMPTY SLEEVES AND AROUND CABLES THAT ARE PASSING THROUGH SLEEVES/CORE HOLES LOCATED IN I.T. CLOSET AND TEL. RISER ROOM. ALL FIRE STOPPING MUST MEET OR EXCEED APPLICABLE FEDERAL, PROVINCIAL AND LOCAL BUILDING CODES.

11.2. THE COMMUNICATIONS CONTRACTOR SHALL MAKE GOOD ALL FIRE STOPPING AND WATER PROOFING WHERE FIRE STOPPING AND/OR WATER PROOFING HAS BEEN DISTURBED DURING CABLE REMOVAL, OR WHERE FIRE STOPPING AND/OR WATER PROOFING WAS NON-EXISTENT.

11.3. THE COMMUNICATIONS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, PRODUCT DATA AND DOCUMENTATION FOR FIRE STOPPING AND/OR WATER PROOFING DEVICES PROPOSED FOR USE. INCLUDE ANY FIRE RETARDANT PAINTS TO BE USED.

12. TELECOMMUNICATIONS RACKS, CABLE MANAGERS, POWER BARS AND PLYWOOD BACKBOARD:

12.1. COMMUNICATIONS CONTRACTOR TO SUPPLY AND INSTALL THE BELOW EQUIPMENT AS SPECIFIED IN THE COMMUNICATIONS DRAWINGS. COMMUNICATIONS CONTRACTOR TO REUSE EXISTING EQUIPMENT AS INDICATED ON THE COMMUNICATIONS DRAWINGS.

12.2. UTILIZE PROPER FASTENERS FOR THE VERTICAL CABLE MANAGERS, POWER BARS AND ALL ACCESSORIES AS PER THE MANUFACTURER'S RECOMMENDATIONS.

12.3. FLOOR MOUNT 2-POST RACK:

12.3.1. FLOOR MOUNTED, 482mm (19") TWO-POST FRAME WITH WELDED FRAME CONSTRUCTED OF MINIMUM 11 GA (.0120") STEEL.

12.3.2. FRAME SHALL HAVE A 45 STANDARD EIA VERTICAL RACK POSITIONS WITH PERMANENTLY MARKED U-SPACING IDENTIFICATION. MOUNTING HOLES AS PER EIA-310-C.

12.3.3. 2-POST RACK SHALL BE COMPLETE WITH A MINIMUM OF ONE (1) DUAL BOLT GROUND LUG MOUNTING POSITION. FRAME SHALL BE PROPERLY LEVELED ONCE IN FINAL POSITION ON TOP OF THE FINISHED FLOOR IN I.T. ROOM.

12.3.4. PROVIDE TWO (2) VERTICAL POWER DISTRIBUTION UNITS (PDU's) PER RACK. PDU's TO BE INSTALLED AT THE REAR OF THE RACK.

12.4. FLOOR MOUNT 4-POST RACK:

12.4.1. FLOOR MOUNTED, 482 MM (19") FOUR-POST FRAME WITH WELDED FRAME CONSTRUCTED OF MINIMUM 11 GA (.0120") STEEL.

12.4.2. FRAME SHALL HAVE A MINIMUM OF 45 STANDARD EIA VERTICAL RACK POSITIONS WITH PERMANENTLY MARKED U-SPACING IDENTIFICATION.

12.4.3. MOUNTING HOLES AS PER EIA-310-C, SIZE 10-32 TAPPED FRONT AND BACK RAILS.

12.4.4. FRAME SHALL BE COMPLETE WITH A MINIMUM OF ONE (1) DUAL BOLT GROUND LUG MOUNTING POSITION.

12.4.5. FRAME SHALL HAVE FOUR (4) LEVELING FEET & SHALL BE PROPERLY LEVELED ONCE IN FINAL POSITION ON TOP OF THE FINISHED FLOOR IN ALL TELECOMMUNICATIONS SPACES.

12.5. FLOOR MOUNT ENCLOSED CABINET:

12.5.1. FLOOR MOUNTED, 482 MM (19") FOUR-POST FRAME WITH WELDED FRAME CONSTRUCTED OF MINIMUM 11 GA (.0120") STEEL.

12.5.2. FRAME SHALL HAVE A MINIMUM OF 44 STANDARD EIA VERTICAL RACK POSITIONS WITH PERMANENTLY MARKED U-SPACING IDENTIFICATION.

12.5.3. MOUNTING HOLES AS PER EIA-310-C, SIZE 10-32 TAPPED FRONT AND BACK RAILS.

12.5.4. FRAME SHALL HAVE REMOVABLE POSITIONS FOR CABLE ENTRY & COOLING FANS AT TOP AS WELL AS ADEQUATE OPENINGS IN BASE OF FRAME FOR AIR DISTRIBUTION & CABLE ENTRY.

12.5.5. CABINETS SHALL BE COMPLETE WITH A MINIMUM OF ONE (1) DUAL BOLT GROUND LUG MOUNTING POSITION.

12.5.6. FRAME SHALL HAVE FOUR (4) LEVELING FEET & SHALL BE PROPERLY LEVELED ONCE IN FINAL POSITION ON TOP OF THE FINISHED FLOOR IN ALL TELECOMMUNICATIONS SPACES.

12.5.7. CABINETS SHALL BE GANGED TOGETHER WITH PROPER GANGING KIT WHEREVER TWO OR MORE CABINETS ARE POSITIONED IN A SIDE-BY-SIDE CONFIGURATION.

12.6. VERTICAL CABLE MANAGERS:

12.6.1. CONSTRUCTED OF MINIMUM 16 GA (0.060") STEEL WITH STIFFENERS RIVETED/WELDED INSIDE FOR ADDITIONAL STRENGTH.

12.6.2. PROVIDE SIZE OF 6" (152mm) / 10" (254mm) / 12" (305mm) WIDE VERTICAL CABLE MANAGER. REFER TO LAN ROOM LAYOUT QUANTITY.

12.6.3. MANAGEMENT PANELS SHALL HAVE A HINGED DOOR WITH NONMAGNETIC CLOSING MECHANISM. A FULLY SHIELDED MAGNETIC CLOSING MECHANISM SHALL ALSO BE ACCEPTED.

12.6.4. OPENINGS FOR CABLE ROUTING SHALL HAVE GROMMETS TO ENSURE SMOOTH TRANSITION OF THE CABLES.

12.6.5. MANAGEMENT PANELS SHALL HAVE LANCETS ALONG THE BACK OF THE CABLE MANAGER TO ALLOW FOR THE FASTENING OF THE CABLE(S) TO THE OUTSIDE OF THE MANAGER ITSELF.

12.7. HORIZONTAL CABLE MANAGERS:

12.7.1. WELDED CONSTRUCTION, FABRICATED OF A MINIMUM OF 16 GA (0.060") STEEL AND SHALL BE A MINIMUM OF 2U AND 76mm (3")D.

12.7.2. PANEL SHALL HAVE HINGED COVER WITH NONMAGNETIC CLOSING MECHANISM. A FULLY SHIELDED MAGNETIC CLOSING MECHANISM SHALL ALSO BE ACCEPTED.

12.7.3. OPENINGS FOR CABLE ROUTING SHALL HAVE GROMMETS TO ENSURE SMOOTH TRANSITION OF THE CABLES.

12.7.4. INSTALL ONE HORIZONTAL CABLE MANAGER PER ONE PATCH PANEL AND EVERY NETWORK SWITCH WHEN NO RACK ELEVATION IS PROVIDED, OTHERWISE QUANTITIES ON RACK ELEVATION DRAWING SHALL SUPERCEDE THIS REQUIREMENT.

12.8. VERTICAL POWER DISTRIBUTION UNIT (PDU):

12.8.1. FABRICATED FROM 18 GA (0.048") STEEL AND MOUNTABLE INTO 19" EIA CABINET FRAMES OR NETWORK RACKS.

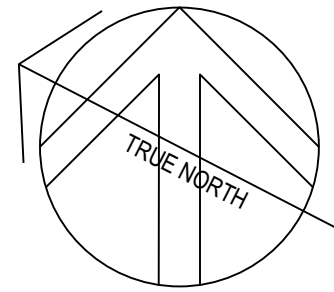
12.8.2. EACH POWER BAR SHALL HAVE 16 NEMA 5-20, 12 IEC C13, AND 2 IEC C19 OUTPUT RECEPTACLES AND COME WITH A MINIMUM OF 3 METERS (10 FEET) CORD AND NEMA L14-30P INPUT PLUG.

12.8.3. SHIELDED CORD FEATURES A 300V CAPACITY, 100% COVERAGE ALUMINUM FOIL-POLYESTER TAPE SHIELD, 7 X 28 AW

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH



ISSUE	DESCRIPTION	DATE
4	ISSUED FOR TENDER	2025-03-24
3	ISSUED FOR BUILDING PERMIT	2025-03-17
2	ISSUED FOR REVISED 99% COORDINATION	2025-02-25
1	ISSUED FOR 99% REVIEW	2023-06-13

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2025 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899
100 – 1650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com



- BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
- INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

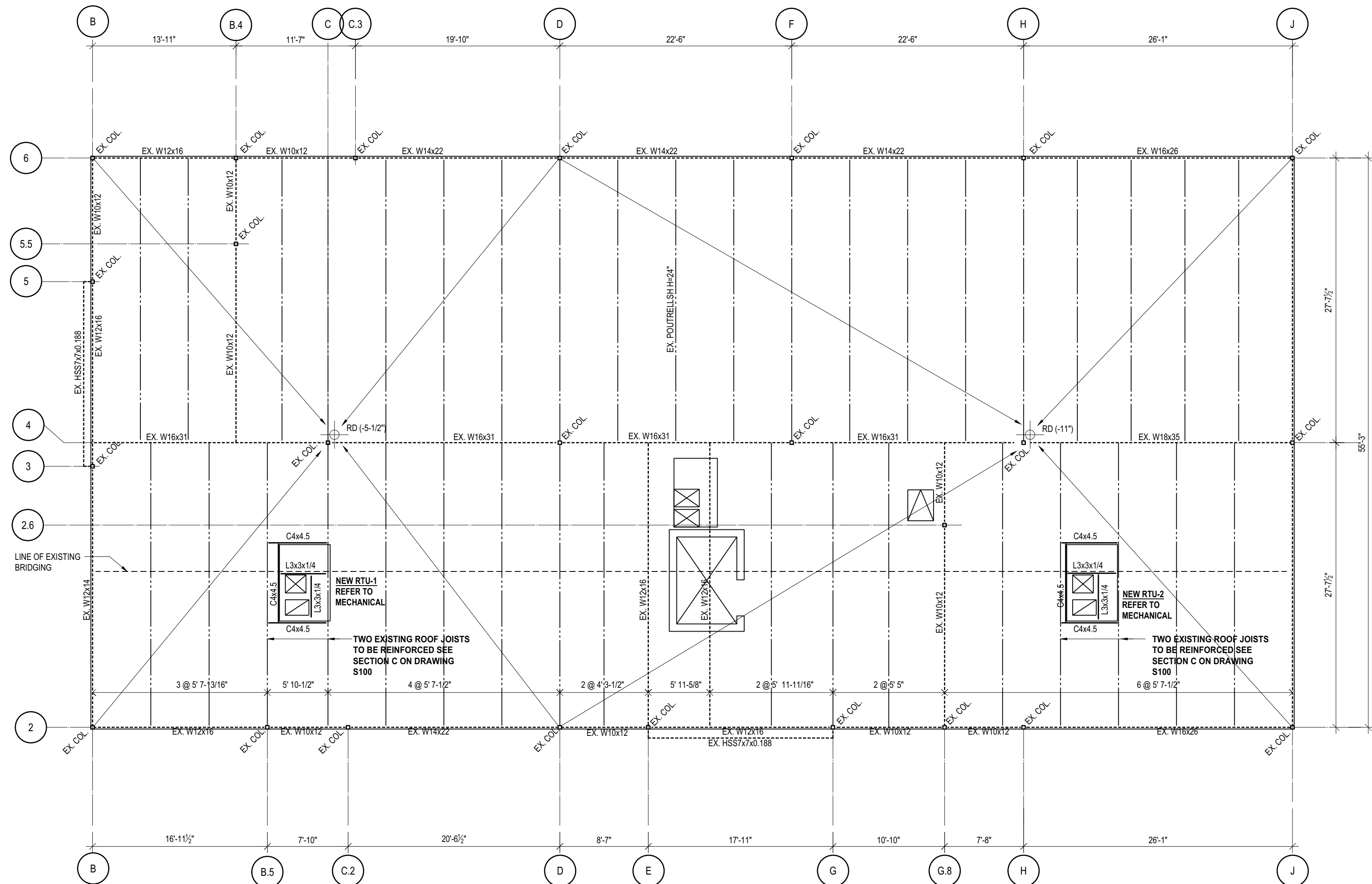
DRAWING

ROOF FRAMING PLAN
SECTION AND DETAILS

PROJECT No:	MRK-23002008-A0	REVISION:	4
DRAWN:	CJ	DATE:	MAY 2023
APPROVED:	KAB	SCALE:	AS SHOWN

DRAWING No:

S-1

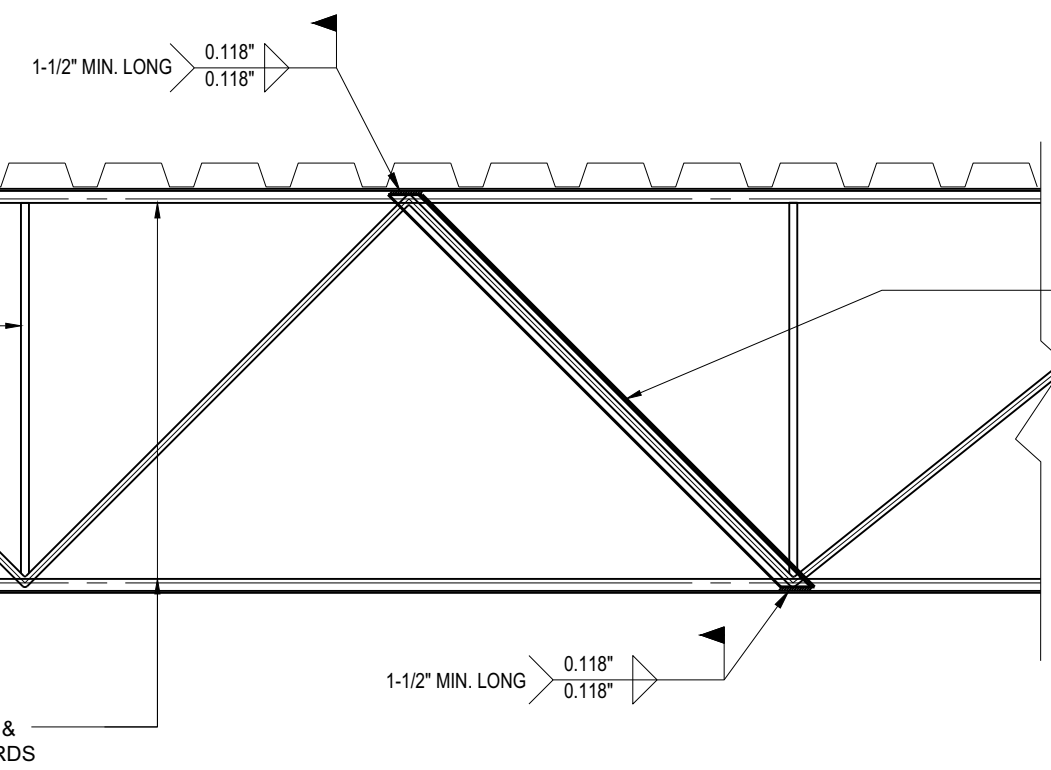


REINFORCEMENT OF JOISTS BASED ON
RTU WEIGHING 1381 LB AND 51" IN HEIGHT,
89" IN LENGTH AND 59" IN WIDTH

NEW ROOFTOP UNITS RTU-1 TO RTU-2 TO BE SUPPLIED C/W
MANUFACTURERS STANDARD 350 HIGH METAL CURB. REFER
TO MECHANICAL DRAWINGS. ROOFING CONTRACTOR TO
PROVIDE NEW ROOF OPENING AND BLOCKING FOR
LEVELING AND CURB SUPPORT. NEW FLASHING AND
SEALING TO CRCA AND MEMBRANE MANUFACTURER'S
STANDARDS, REFER TO ARCHITECTURAL DRAWING

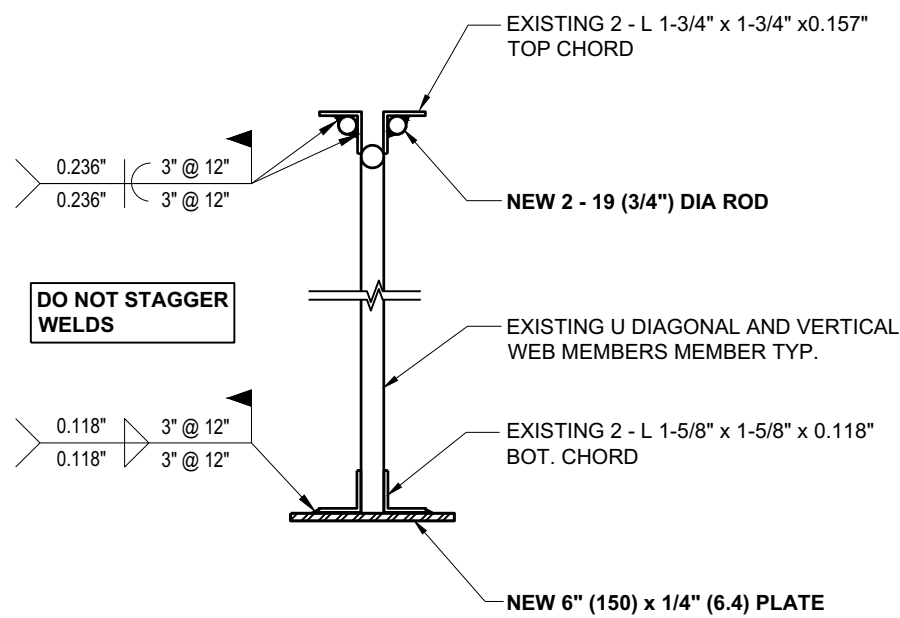
ROOF FRAMING PLAN FOR RTU INSTALLATION

SCALE: 1/4" = 1'-0"

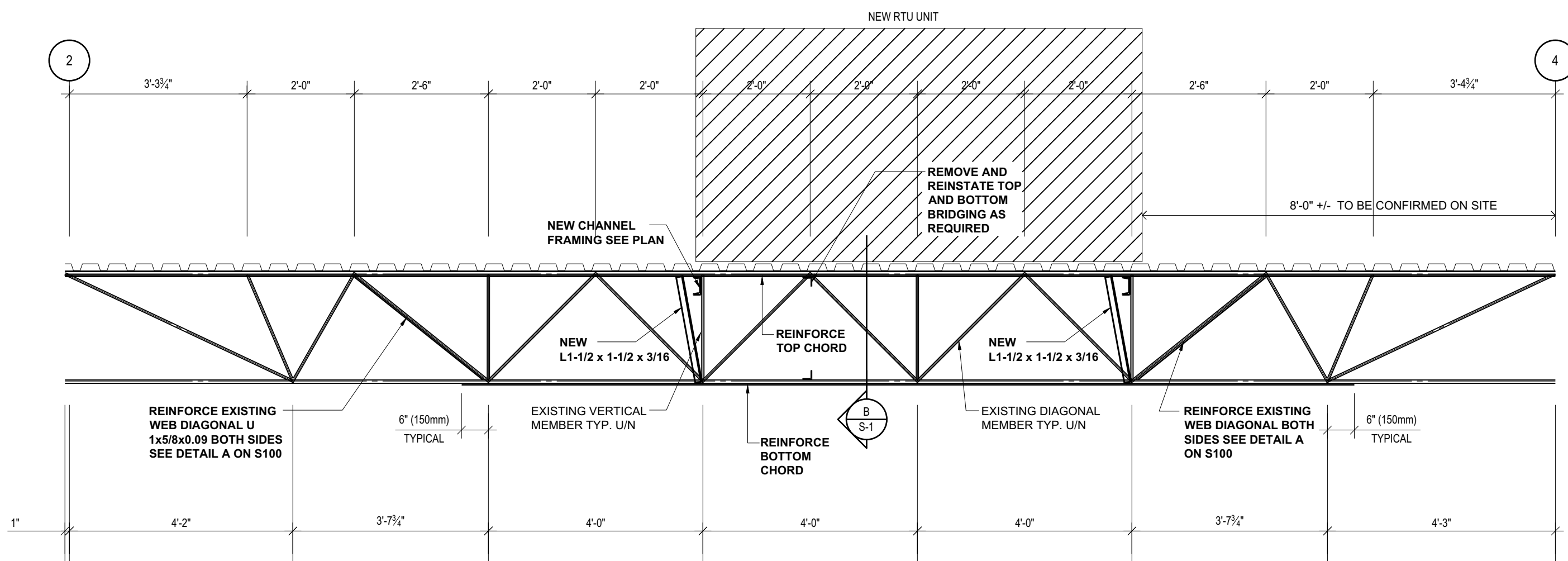


JOIST REINFORCEMENT DETAIL FOR WEB DIAGONAL

A
S-1
DETAIL
1" = 1'-0"



B
S-1
SECTION
1" = 1'-0"



CONTRACTOR TO VERIFY JOIST CONFIGURATION
PRIOR TO PROCEEDING WITH SHOP DRAWINGS.
SHORE JOIST TO BE REINFORCED TO RELIEVE
LOAD. ENSURE NO SNOW IS ON THE ROOF (ROOF
BAY) WHILE REINFORCING JOIST.

C
S-1
1/2\"/>

GENERAL NOTES

1. CHECK ALL DIMENSIONS ON STRUCTURAL DRAWINGS WITH OTHER DRAWINGS AND EXISTING SITE CONDITIONS. REPORT ANY INCONSISTENCIES BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THESE DRAWINGS.

2. ALL WORK SHALL COMPLY WITH CURRENT PROVISIONS OF THE ONTARIO BUILDING CODE, THE WORKPLACE SAFETY AND INSURANCE BOARD AND BEST TRADE PRACTICES. WORK SHALL COMPLY WITH ALL LOCAL AND PROVINCIAL REGULATIONS AND WITH APPLICABLE C.S.A. STANDARDS. IN ALL CASES, THE LATEST EDITIONS OF CODES AND STANDARDS SHALL APPLY.

3. STRUCTURAL DESIGN COMPLIES WITH THE MINIMUM STANDARDS OF PART 4 OF THE ONTARIO BUILDING CODE 2025.

4. BEFORE SUBMITTING TENDERS CONTRACTORS SHALL CAREFULLY EXAMINE EXISTING CONDITIONS TO ESTABLISH THE EXTENT OF THE WORK.

5. CONFIRM OWSJ MEMBER SIZES TO ENGINEER AT LOCATIONS TO BE REINFORCED PRIOR TO PROCEEDING WITH WORK.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, AND SHORING NECESSARY TO UNDERTAKE THE WORK.

7. WHERE MECHANICAL EQUIPMENT IS SUPPORTED ON CURBS DIRECTLY ON ROOF DECK PROVIDE WEDGES IN FLUTES OF DECK UNDER SLEEPER AT STRUCTURAL SUPPORT (BEAMS, JOISTS).

8. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING EXCESS MATERIALS AND CLEANING UP ON COMPLETION OF THE WORK.

MATERIALS SPECIFICATIONS

1. ROLLED STRUCTURAL STEEL SHAPES - GENERAL REQUIREMENTS TO CSA-S16:19, ROLLED SHAPES TO CSA- G40.21-13(R2023), 350W MINIMUM. ANGLES AND PLATES, 300W MINIMUM.

2. WELDING - TO CSA-W59-13, E49XXCH OR LH BASIC ELECTRODES CONFORMING TO CSA-W48:23.

3. PRIME PAINT TO STRUCTURAL STEEL - TO CAN/CGSB-1.40, ONE SHOP COAT, ONE TOUCH UP FIELD COAT.

SUBMITTALS

1. SUBMIT STRUCTURAL SHOP DRAWINGS TO CONSULTANT.

FIELD QUALITY CONTROL

1. INSPECTION AND TESTING COMPANY SHALL PERFORM INSPECTION OF WELDED JOINTS, GENERAL INSPECTION OF FIELD CUTTING AND ALTERATIONS AND GENERAL INSPECTION OF COATING TOUCH-UP.

DESIGN LOADS AS INDICATED ON STRUCTURAL DRAWING S4 REV. 1 PREPARED BY SOLIDER AND DATED 2012-04-27

ROOF

TOTAL DEAD LOAD23 psf (1.1 kN/m²)

LIVE (SNOW)
S = Ss (Cb Cw Cs Ca) + Sr = 48.5 psf (2.32 kN/m²)

NEW MECHANICAL RTUSSEE PLAN

JOIST REINFORCEMENT 4 - CHORD SPLICE

RN-024

EXISTING ROOF JOIST

MIN. 200 (8")

PROVIDE 450 (1'-6") LONG MIN. LAP BAR TO MATCH TOP REINF. CENTERED ON SPLICE WHERE REQUIRED, TYP.

150 (6") EACH SIDE OF EACH EDGE

75 (3") WELD EACH END OF LAP PLATE

TOP CHORD SPLICE DETAIL

EXISTING ROOF JOIST

MIN. 200 (8")

SPLICE TO BE LOCATED AT PANEL POINT OF JOIST

PROVIDE 450 (1'-6") LONG MIN. LAP PLATE TO MATCH TOP & BOT. REINF. CENTERED ON SPLICE WHERE REQUIRED, TYP.

150 (6") EACH SIDE OF EACH EDGE

75 (3") WELD EACH END OF LAP PLATE

PLATE LAP

BOTTOM CHORD SPLICE DETAIL

JOIST REINFORCEMENT 2

RN-022

WELD WEB REINFORCED DIRECTLY TO TOP CHORD AND BOTTOM CHORD

PROVIDE 6 (1/4") THICK BATTEN PLATE

EXISTING BRIDGING

A

A-A BATTEN PLATE DETAIL

BATTEN PLATE

WEB REINFORCEMENT SEE SCHEDULE ON RN-021

EXISTING JOIST WEB MEMBER U-BAR

NEW MECHANICAL UNIT CURB BY MECHANICAL CONTRACTOR.

PROVIDE WOOD BLOCKING IN DECK FLUTES (TYP.)

CURB BY MECH.

TOP AND BOTTOM CHORD JOIST REINFORCED SEE SEE DRAWING S-1

CHANNEL FRAMING TIGHT TO US OF DECK CONNECTED WITH CLIP ANGLE TO JOIST. EXACT LOCATION TO BE COORDINATED WITH MECHANICAL CONTRACTOR, SEE PLAN (TYPICAL)

PROVIDE SHIM AS REQUIRED. WELD NEW L1-1/2" x 1-1/2" x 3/16" TO TOP CHORD TO NEAREST BOTTOM PANEL POINT, TYPICAL

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

4	ISSUED FOR TENDER	2025-03-24
3	ISSUED FOR BUILDING PERMIT	2025-03-17
2	ISSUED FOR REVISED 99% COORDINATION	2025-02-25
1	ISSUED FOR 99% REVIEW	2023-06-13
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2025 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899
100 – 1650 Queensview Drive
Ottawa, ON K2B 8H6
Canada
www.exp.com

exp.

BUILDINGS

EARTH & ENVIRONMENT

ENERGY

INDUSTRIAL

INFRASTRUCTURE

SUSTAINABILITY

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

GENERAL NOTES
TYPICAL DETAILS

PROJECT No:	MRK-23002008-A0	REVISION:	4
DRAWN:	CJ	DATE:	MAY 2023
APPROVED:	KAB	SCALE:	AS SHOWN
DRAWING No:	S-2		



Addendum # 1

**Bid Opportunity: ADM-006-2025 - Municipality of
Casselman New Townhall Office Fit-Up
Closing Date: Friday, April 18, 2025 3:00 PM**

Question 1:

Is there a mandatory site visit for the townhall renovations. The OCA website says there is but I cant find details on the Bids and Tenders website

Answer 1:

There is a mandatory site visit for the townhall renovations that will occur **April 2nd, 2025 at 10:00 a.m..** The meeting will be at 1 Industrial, Casselman, ON. The main entrance for the office space is located beside the RAdio Station 92.1 at the corner of Racine St and Industrial Rd (Beside the Microtel).

Municipality of Casselman Office Fit-Up
1 Industriel Street, Casselman, ON

ADDENDUM No. 1 to Drawings and Specifications
Job No. 22045
14/04/2025

The following additions, deletions, and revisions form part of the Contract Documents.

GENERAL

Please note that a separate contract for building envelope repairs is currently underway, with a scheduled completion by the end of November 2025. The scope of this work includes:

- Mobilization, site access, and site protection (both exterior and interior).
- Exterior wall repairs, including removal and replacement of cladding to allow for the installation of new weather-resistant barriers.
- Interior wall repairs, including repair of gypsum and steel framing, and installation of a new vapor barrier.
- Window and door repairs, including installation of new sealants and waterproofing membranes.
- Demolition of the entrance canopies at the two main entrances (FCC and the future Townhall).

Due to the nature of the work, which must be performed by elevation, the contractor responsible for the building envelope repairs can't complete all second-floor work before commencing work on the main floor.

As this project was submitted for permit under the OBC 2012 (with 2020 updates), construction needs to commence by September 2025. Therefore, both contracts will need to be working on the site simultaneously, and a method of delineation of space will need to be coordinated.

Bidders are therefore asked to indicate in their submission:

- What portion of their scope of work could reasonably begin before the completion of the building envelope project, i.e.
 - Rooftop Unit Installation
 - Floor coring c/w hoarding of work area
 - Hoarding off 5' of exterior wall to allow work within the suite to occur
 - Etc,
-

-
- How coordination with the ongoing exterior repair work could be managed to avoid conflicts.

Bidders to provide recommended solution as a part of their bid.

ARCHITECTURAL

DRAWINGS

A-104 PARTITION ASSEMBLIES

All new partitions extending from the subfloor to the underside of structure shall meet the following construction requirements: The top track must not be fastened directly to the steel deck but instead must be secured to the structural joists. The gypsum board shall terminate flush against the steel deck. Contractor to use carrying channels, Unistrut, etc as required for installation.

Heavy-Duty Steel Studs for P1 and P5 are to be 18 gauge.

A-108 FLOOR FINISHES PLAN

Revise Keynote 2 to say "Install sv-1 (2.0mm) with a thin application of patching compound (material per manufacturer's recommendation) to build up the subfloor at the transition point to lvt-1 (2.5mm). Ensure the adhesive is applied evenly and carefully to avoid future movement or surface irregularities. The final result must provide a smooth, seamless transition with no visible height difference between flooring materials."

Delete Keynote 1 within the Council Chamber 225 and replace it with revised Keynote 2.

Delete wayfinding strip of SV-1 and all the Keynote 2's in the west side of the floorplate.

Revise Floor Finishes Plan Legend to indicate the following:

- Luxury Vinyl Tile (LVT-1) is revised to Sheet Vinyl (SV-1). See spec below:

- Luxury Vinyl Tile (LVT-2) is revised to Luxury Vinyl Tile (LVT-1). See spec below:

Refer to the attached sheet A-108.

A-304 CUSTOM MILLWORK PLANS, ELEVATIONS & DETAILS

Add sheet A-304. See attached.

ELECTRICAL

Refer to attached addendum from EXP for further details on the following:

DRAWING E-09 – ELECTRICAL SPECIFICATIONS 1 OF 4

Revise Article 26.1 for grounding and bonding requirement as shown.

DRAWING E-12 – ELECTRICAL SPECIFICATIONS 4 OF 4

Remove item #155 for access control integration requirement under security system.

MECHANICAL

Refer to attached addendum from EXP for further details on the following:

DRAWING M-1 – MECHANICAL NOTES AND LEGENDS

Drawings list has been updated.

DRAWING M-6 – MECHANICAL GROUND FLOOR PLUMBING PLAN

New sheet for ground floor plumbing plan has been added.

QUESTIONS AND ANSWERS

Q1: Bids and tenders require us to submit Appendix 1 and 2, which includes the bid form. Where is appendix 1 and 2?

- A: Appendices 1 and 2 have now been added to the bids & tenders' platform, as originally intended in the RFQ documents. We invite you to download the updated version of the documents to access the missing appendices.

Q2: I understand that the owner is adamant about not moving the closing date even though next to every contractor will be closed and simply suggesting that we submit our price a day early. Unfortunately, this is not how a construction tender process works, and this will result subcontractors not providing pricing due to risk of shopping their price with a day left before tender closing. If an extension is not an option please move this tender closing to 1 or 2pm on the Thursday before Good Friday.

- A: The closing date has been adjusted to Tuesday April 22nd, 2025, at 3:00pm.

Q3: Is the client open to alternatives for the demountable wall systems? Eg PC350?

- A: As outlined in the finishes schedule, the specified manufacturer for the Glazed Demountable Partition System is Teknion, or an approved equivalent. Equivalent products may be used, provided they meet all requirements detailed in the tender package and are deemed acceptable. If these conditions are satisfied, their use is permissible.

Q4: What is the anticipated schedule for the work to be completed?

- A: There is no specified end date, however, the client has expressed their desire in having the project completed as quickly and as efficiently as possible.

Q5: Can you please review the closing date of April 18, 2025? That is the Good Friday Holiday.

- A: The closing date has been adjusted to Tuesday April 22nd, 2025, at 3:00pm.

Q6: Are we able to use local TAB contractors on this project? All the named contractors are in the GTA.

- A: Yes. Kanata Air Balancing Ltd is an approved TAB firm which is 45 min away from the project location.

Q7: Can we receive CAD designs for A-109?

- A: A CAD layout can be provided to the winning proponent.

Q8: We've reviewed the tender for the Municipality of Casselman New Townhall Office project and would like to submit DIRT as an alternate for the interior office fronts scope.

Please find attached the DIRT specification sheets for the following systems for your review and consideration:

- DIRT Evil Twin Walls (Double Pane Acoustic Walls) -
<https://www.dirt.com/products/double-pane-glass-walls/>
- DIRT Solid Core Wood Doors -

These solutions meet the performance requirements outlined in the tender under 10 22 19.54 DEMOUNTABLE PARTITIONS - POST AND PANEL, including STC ratings and laminated tempered glass.

Please let me know if the Architect is willing to get alternate bids as per the attached documents.

- A: The DIRT™ Evil Twin Walls (Double Pange Acoustic Walls) is considered an equivalent product, so long as the system is procured as per the following to achieve an STC 46:
 - Insulated aluminum frames around the perimeter
 - Laminate Glass with a 0.30” acoustical PVB. 2 Options:
 - 6mm laminated one side and 10mm laminated on the other side
 - 10mm laminated on both sides
 - Bow tie connection between butt-jointed glass
 - Solid core wood swing doors with a drop seal
 - Doors to be standard height c/w glazed clerestory above

Q9: Please note where we are expected to submit our total price as Appendix 1 and 2 as well as the breakdown on Bids and Tenders does not have a place to put it.

- A: The Pricing Breakdown is to be submitted directly within the Bids & Tenders platform under the Schedule of Prices tab. To assist bidders in preparing their submission, a separate document containing the Schedule of Price tables has been created and is now attached to the tender documents for reference purposes only. This document is intended to support bidders in organizing their pricing prior to entering it into the platform.

Q10: On behalf of Advanced Business Interiors, we respectfully submit Haworth Enclose Frameless Glass® as an alternate to the specified Teknion Altos system under Section 10 22 00 – Demountable Partitions and Section 08 80 00 – Glazing. Enclose meets or exceeds all critical performance, construction, and compliance criteria outlined in the contract documents, including glazing standards, sound transmission, fire performance, and installation integrity.

All glazing supplied and installed by ABI is furnished by local suppliers in Montréal and includes 10mm & 12mm clear tempered glass units compliant with CAN/CGSB-12.1-M90, and is installed using neoprene gaskets, spacers, and compatible sealants, ensuring long-term clarity, structural integrity, and conformance with Section 08 80 00 – Glazing.

Product Comparison Summary

Specification Requirement Teknion Altos Haworth Enclose® (Proposed Alternate)
Non-progressive, relocatable, four-way post system Yes ✓ Yes
Accommodates floor-to-ceiling variations (≥25 mm) Yes ✓ Yes
STC 45 minimum (ASTM E90) STC ≥ 45 ✓ STC 45–52 tested to ASTM E90/E413
Fire Performance: Class A/C surfaces (ASTM E84) Yes ✓ Class A (Glass/Steel), Class C (Laminate)
Structural: ANSI/BIFMA X5.6 Yes ✓ Load rated, tested
Double-glazed, 6mm clear tempered glass units Yes ✓ Double-pane, 6mm tempered

as standard

Glass Standard: CAN/CGSB-12.1-M90 Type 2, Class B Required ✓ Matches –
tempered safety glass

Neoprene setting blocks, spacers, gaskets Required ✓ Included in Enclose glazing
system

Rattle-free, cushioned, sealed installation Required ✓ Pressure-fit neoprene gaskets
ensure rattle-free seal

Ten-year warranty on sealed glass units Required ✓ Available from approved glazing
fabricators

Flush or recessed 100 mm base trim Yes ✓ Standard trim available

Extruded aluminum frame, post, glazing beads Yes ✓ All profiles in extruded
aluminum

Edge-matched corners, battens, leveling hardware Yes ✓ Fully supported

Product equivalency to Teknion Altos Basis of design ✓ Yes

Supporting Documentation Attached:

- 2023 Enclose Designed to Code Compliance Statement – IBC, NFPA 101, NBCC
- 2024 ASTM E84 Fire Performance Statement – Class A/C Surfaces
- 2021 ANSI/BIFMA X5.6 Mechanical Strength Test – Structural Load
- 2024 Enclose and EFG STC – Sound Transmission Class Compliance Statement

Further product details, documentation, and photography can be found on Haworth's
website:

Enclose Architectural System | Office Walls | Haworth

Should additional documentation or information be required to assist with this review,
we are happy to coordinate as needed.

Thank you for your consideration.

*PDF documentation can be provided if required but can not be submitted through
bids & tenders.

- A: The Haworth Enclose Frameless System is considered an equivalent
product, so long as the system is procured as per the following to achieve an
STC 47:
 - Double glazed configuration comprised of 10mm tempered & 12mm
tempered glass panes
 - 4" Vertical Mullions
 - Solid core wood swing doors with a drop seal
 - Doors to be standard height c/w glazed clerestory above

Q11: P1 and P5 walls call for Heavy Duty Studs. What gauge is required? No specs on
drawings A001 for Section #5 steel studs?

- A: The Heavy-Duty Steel studs for P1 and P5 are to be 18 gauge.

Q12: P3 and P7 walls call for studs at 16" c/c/ but do not specify stud size.... 3 5/8" or 6" etc. Says to suit size of new Demountable Partitions (Teknion). What steel stud size is required and what insulation size is required too?

- A: The stud and insulation size must be coordinated with the size of the demountable partition system being supplied, to ensure that P3 and P7 are flush with the demountable system. Coordinate with the demountable partition supplier.

Q13: Assume structure height is in fact 12'-2"

- A: The structure height has been reverified and is as follows:
 - To U/S Joist: 11'-5" (3486mm)
 - To U/S Deck: 13'-6 1/2" (4130mm)
 - To U/S Beam: 11'-9 1/2" (3594mm)
 - To U/S Ductwork: 11'-0" (3350mm)

Q14: Are we to include carrying channel, for all walls over 12'? (P1, P2, P5, P7?)

- A: See Architectural changes above to sheet A-104.

Q15: Drawing note 6 on M-6 calls for a 2inch diameter water line connected downstream of the backflow preventer in the mechanical room on the ground floor. Would it be possible to obtain a ground floor drawing indicating the mechanical room location

- A: Refer to the attached mechanical addendum ADD#M1 for details.

Q16: What are the bid bond and insurance requirements for this project?

- A: Contractor is to submit as a Tender Security, a surety bond, certified, cheque, or bank draft written in favour of the Municipality of Casselman in the amount of which in not less than 10% of our tender to be held in escrow and dealt with as described in Article 1.7 of the instruction to Bidders.

Contractor is to submit a letter from a surety company, satisfactory to the owner, that the bidder will be covered by a 50% performance bond and a 50% labour and material bond as required under the General Conditions, if successful in being awarded this contract.

Q17: What are the start and completion dates for this project?

- A: Refer to General Information on page 1 with regards to the start date. There is no specified end date, however, the client has expressed their desire in having the project completed as quickly and as efficiently as possible.

Q18: Drawing A-103 shows a blow up to refer to A-304 for the Custom Council Table, this drawing does not exist, please advise.

- A: Refer to the attached page A-304 for details.

Q19: Are there bonding requirements:

- A: Yes, refer to the attached ADD#E1 and electrical specifications on E-09 and E-10 for grounding and bonding requirements.

Q20: Do we need to install/repair vapour barriers for the existing exterior perimeter walls?

- A: Only as required for items within this project scope that cause damage the exterior wall (i.e. exterior cameras).

Q21: For the electrical work of exterior cameras, do we have to cut the holes through the exterior walls?

- A: Yes, an exterior penetration on the exterior walls will be required to install the CAT6A communication cable for each Camera. Permanent link termination shall be made on the interior side of the walls, and a patch cord is then fed through to the exterior to connect the cameras. Cameras and associated corner mounting hardware shall be supported and reinforced on the wall as required as per manufacturer specifications and installation guidelines.

Q22: Can IMT walls be submitted as an alternative to Teknion?

- A: Specific Product and Technical information would need to be provided to approve the use of IMT walls as an alternative.

Q23: Could an ABB distribution be used on this quote?

- A: Yes, ABB is considered an equivalent approved manufacturer for the power distribution system.

Q24: LVT-1 – Product in rolls or in tiles. Item says tile, description says roll, pattern says brick?

- A: See changes to sheet A-108 as outlined above.

Q25: LVT-2 – Im assuming its LVT not carpet tiles – Item says carpet tile, description says Polyflor is luxury tiles?

- A: See changes to sheet A-108 as outlined above.

Q26: There are inserts near the walls; one product is 2mm and the other is 2.5mm

- A: See changes to sheet A-108 as outlined above.

Q27: It states in the drawings that the WAP locations are approximate, counts and locations to be determined by Wi-Fi predictive design. Who is responsible for the predictive design, who supplies and installed the WAPs?

- A: The active network equipment to be procured by the client as well as the Wi-Fi predictive design to verify and confirm locations. Installation typically is installed by the communication contractor and supplied and provided by the client.

Q28: What is the requirement for the TV locations (Coax, CAT6 or both?) Who is responsible?

- A: CAT6A Communication Cable would be allocated for each of the displays.

Q29: Who is responsible for the sleeves and the basket tray supply / installation?

- A: Communication Contractor would be responsible for all the communication cable tray and sleeves requirements. Conduit pathways are typically installed by the Electrical Contractor and coordinated with the Communication Contractor.

Q30: The plan detail of the TR on the second floor indicates 2 x 6" Dual Sided Vertical Cable Managers on what we assume is a 4-post racking solution

- A: Vertical Cable Managers specifications are included in specifications. There is no preference on dual sided or single sided vertical cable managers as long as we have them located on the front side of the rack for cable patching.

Q31: Under the breakout pricing request in the specification, it states that the cabling contractor is to provide an alternate price to supply and install a Category 6 solution, however the solution is Cat 6. Does the consultant require a price for CAT6a and Cat6? Is this what is meant here?

- A: Procure pricing for CAT6a solution for all comms cabling since this is a new cabling installation and we recommend following the industry standard to future proof the cabling solution.

Q32: States in the specification that the cabling contractor is responsible for the demolition of existing cabling, however, the demolition plans do not indicate any existing cabling to begin with.

- A: There shouldn't be any existing cabling on the L2 floor hence why there isn't any identified on the demo package however if any is found onsite, then we would acknowledge it and have the cabling contractor remove the cables. As part of the tender, there is currently no demo scope of work for cabling.

Q33: States in the specification that the cabling contractor is responsible for the demolition of existing cabling, however, the demolition plans do not indicate any existing cabling to begin with.

- A: See above.

Q34: The spec states that the access control system shall be an extension of and shall be integrated with the existing. What is the existing system? Several manufacturers have been named. To me this is an entirely new system installation.

- A: There is no existing access control system that needs to be integrated with on this project. Item will be removed from specs.

Q35: The cameras are stated to be Axis or approved equivalent. What is the process for product approval of equivalent equipment? Is Avigilon an accepted camera and network video recorder

- A: Yes, Avigilon would be an accepted camera and NVR manufacturer, as long as its equivalent performance specifications.

Q36: For access control, is there a server & workstation required?

- A: Yes, there will be a security server & workstation required for this project. The server will be located at the Main IT Rack and powered by the UPS and Generator and connected via the converged network. The security workstation will allow for system programming and monitoring. The final location of the workstation to be determined by the client.

Q37: As per the specs note 5 plan E-08, it mentioned door hardware contractor to supply low voltage cabling. Should this be the responsibility of the security contractor?

- A: Note 5 plan E-08 is for the barrier free washroom where it's a local locking sequence and local emergency call assistance and there is no provision for access control security equipment. This is a coordination effort between the Electrical contractor and door hardware contractor

Q38: Is Olympia Tile and Stone's Deluxe Series in the colour white an acceptable alternative for Wall Tile T-2? Is Olympia Tile and Stone's Would Series in Caramel (Beige) Matte an acceptable alternative for Floor Tile T-3?

- A: The proposed Olympia Tile for Wall and Floor are acceptable alternatives.

Q39: In lieu of the Ebbs and Flows kit I would recommend using the Billow Baffles by Akustus Designs as it is a Canadian Product. I have specified Ebbs and Flows in the past through Armstrong and had issues with long lead times.

- A: Yes the Billow Baffles by Akustus Designs is an approved equivalent, so long as a customized size of 96" x 96" is specified.

Q40: The specification asks for the GSH 209 floor stop. Please confirm that the standard Teknion floor stop (N15-1010) is acceptable.

- A: Yes. The standard Teknion floor stop is acceptable.

Q41: The specifications request the Pemko Sound Seals, Model No. S773 however, Teknion doors come with an integrated sound seal in the frame at the jamb and head and sides. Adding another sound seal would be redundant and not feasible. Please confirm acceptance of the Teknion standard sound seals.

- A: Yes, as indicated in Hardware Package HP1 the sound seal is to be supplied by the demountable partition supplier. As such, the Pemko Sound Seals Model would not be specified for doors located within a demountable partition.

Q42: The Dorma Door Closer used with Teknion Altos doors are typically installed within the frame, however, the specification asks for surface mounted door closer. Please confirm that the Teknion standard closer is acceptable.

- So long as the Teknion standard door closer meets the maximum force of 4.9 pounds / 22 newtons to meet OBC & CSA B651-12 requirements, it is acceptable.

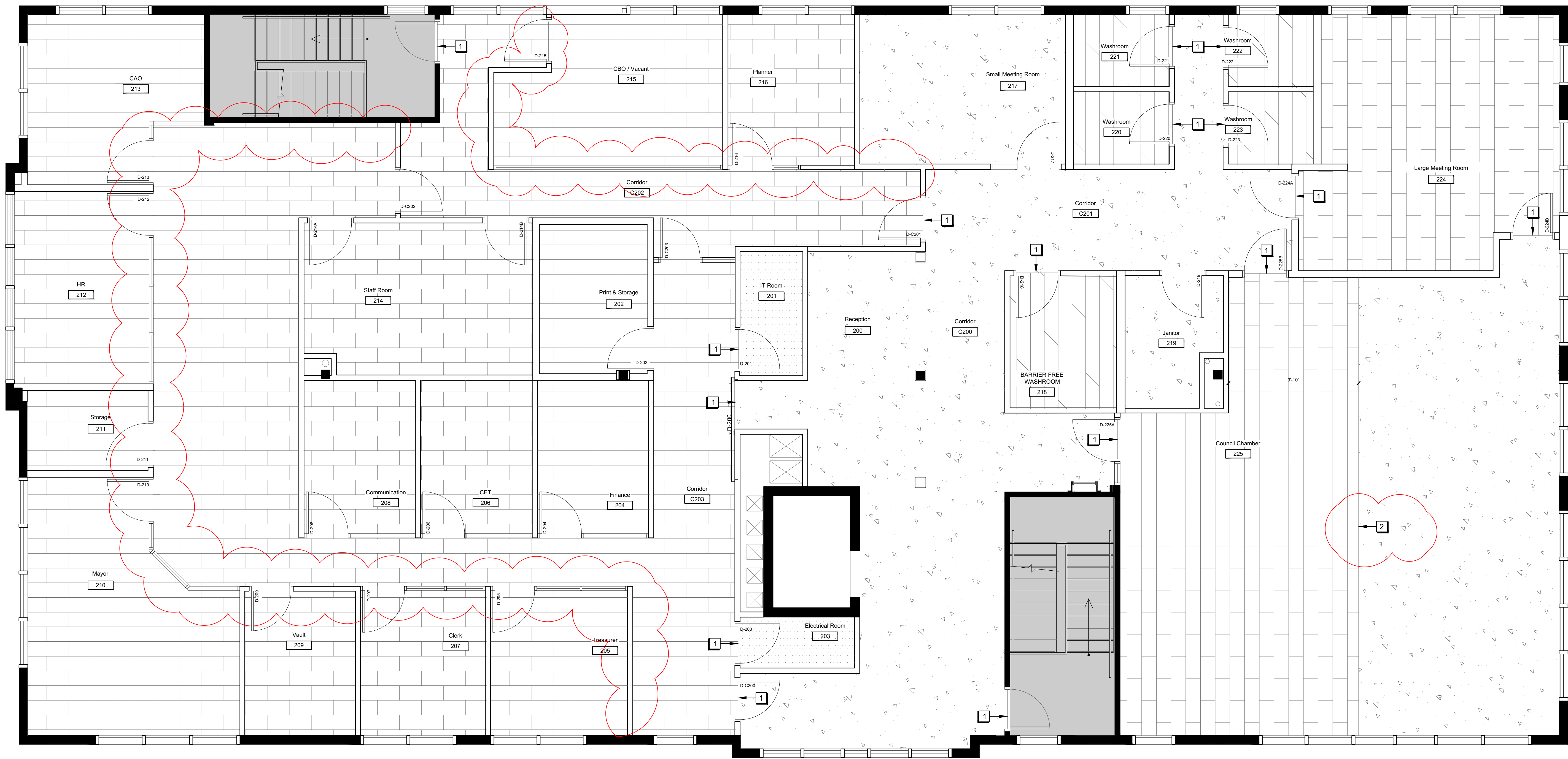
Q43: The specification calls for 4 pairs of hinges for full height doors. Please note that for Teknion Altos segmented solid hinged doors of up to 92", the doors come with 3 pairs of FBB179 hinges. Please confirm that this is acceptable.

- A: There are no full-height doors specified within the demountable partition system.

Q44: Please confirm final keying is by others

- A: Contractor is responsible for keying.

END OF ADDENDA No. 1



**LEVEL 2
FLOOR FINISHES PLAN**

A-108 SCALE = 1/4" = 1'-0"

FLOOR FINISHES PLAN LEGEND

- EXISTING FINISHES TO REMAIN UNLESS NOTED OTHERWISE
- SHEET VINYL (SV-1):**
PATTERN: CONCRETE
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- LUXURY VINYL TILE (LVT-1):**
PATTERN: WOOD
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- PORCELAIN TILE (T-3):**
PATTERN: WOOD
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS
- STATIC DISSIPATIVE TILE (SDT-1):**
PATTERN: WHITE/GREY
REFER TO FINISHES SCHEDULE FOR COLOUR AND SPECIFICATIONS

FLOOR FINISHES PLAN KEYNOTES

- 1 PROVIDE TRANSITION STRIP BETWEEN FLOORING CHANGES TO SUIT FLOORING TYPE
- 2 INSTALL SV-1 (2.0MM) WITH A THIN APPLICATION OF PATCHING COMPOUND (MATERIAL PER MANUFACTURER'S RECOMMENDATION) TO BUILD UP THE SUBFLOOR AT THE TRANSITION POINT TO LVT-1 (2.5MM). ENSURE THE ADHESIVE IS APPLIED EVENLY AND CAREFULLY TO AVOID FUTURE MOVEMENT OR SURFACE IRREGULARITIES. THE FINAL RESULT MUST PROVIDE A SMOOTH, SEAMLESS TRANSITION WITH NO VISIBLE HEIGHT DIFFERENCE BETWEEN FLOORING MATERIALS.

FINISHES GENERAL NOTES

1. ALL MATERIALS ARE TO BE ORDERED WHEN THE CONSTRUCTION CONTRACT IS AWARDED AND UPON APPROVAL OF SHOP DRAWINGS & SAMPLES. AT THIS TIME THE CONTRACTOR IS TO CONFIRM THAT ALL DELIVERIES WILL MEET CONSTRUCTION SCHEDULE. SUBSTITUTIONS WILL NOT BE ACCEPTED DUE TO LATE ORDERING. IN THE EVENT THAT MATERIALS ARE NOT AVAILABLE IN TIME TO MEET SCHEDULED COMPLETION DATES, THE CONTRACTOR SHALL PROVIDE PROOF OF DATE OF ORDER OF MATERIALS PRIOR TO REQUESTING SUBSTITUTIONS.
2. THE CONTRACTOR SHALL PROVIDE CONTROL SAMPLES FOR APPROVAL BY DESIGNERS OF ALL FINISHES SPECIFIED. SAMPLES TO BE TAGGED ACCORDING TO THE LEGEND ALL SAMPLES SHALL BE APPROVED BY THE CONSULTANT PRIOR TO ORDERING.
3. CEASE OPERATION AND NOTIFY THE PROJECT MANAGER IMMEDIATELY IF ANY ASBESTOS IS DISCOVERED OR SUSPECTED ON-SITE.
4. ALL FINISHES TO BE INSTALLED STRICTLY AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. CONTRACTOR TO SUBMIT MANUFACTURER'S MAINTENANCE INSTRUCTIONS FOR ALL FINISHES IN OPERATIONS AND MAINTENANCE MANUAL.
6. SHOULD ANY DISCREPANCY OR UNCERTAINTY ARISE, CONTACT DESIGNER BEFORE PROCEEDING WITH APPLICATION OF FINISH.

FLOOR FINISHES NOTES

1. CONTRACTOR TO PREPARE SLAB TO RECEIVE FLOORING IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.
2. NEW FLOORING & RUBBER BASE IS TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR.
3. CONTRACTOR TO CHALK ALL FLOORING INSERT/ACCENT LOCATIONS AND PATTERNS ON SUB-FLOOR AND OBTAIN APPROVAL FROM DESIGNER (PR-TY) BEFORE COMMENCING WORK.
4. CONTRACTOR TO PROVIDE WALK-OFF MATS. TAPE ALL PROTECTION PLASTIC INTO PLACE AND MAINTAIN IN GOOD CONDITION. POLYETHYLENE IS TO BE REMOVED AT COMPLETION OF WORK BY CONTRACTOR.
5. CONTRACTOR TO PROTECT FLOOR USING 6 mil POLY. POLY JOINTS ARE TO BE TAPED; ADHESIVE FROM TAPE IS NOT TO COME IN CONTACT WITH FLOORING. MAINTAIN PROTECTION FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
6. UPON CONSTRUCTION COMPLETION, FLOORING WITHIN CONTRACT AREA IS TO BE THOROUGHLY CLEANED OF CONSTRUCTION DEBRIS.
7. CONTRACTOR TO PATCH AND REPAIR FLOOR FINISHES AS REQUIRED DUE TO CONSTRUCTION ACTIVITIES.
8. COORDINATE INSTALLATION OF FLOORING ON MOBILE SHELVING PLATFORM.
9. CONTRACTOR SHALL PROVIDE SUITABLE TRANSITION STRIPS AT ALL FLOORING CHANGES. CONTRACTOR IS TO PROVIDE A SAMPLE FOR APPROVAL BY DESIGNER BEFORE PROCEEDING WITH INSTALLATION.
10. WHERE FLOORING CHANGES OCCUR AT DOORWAYS, THE INTERFACE OF THE FLOORING SHALL OCCUR SO THAT IT IS CONCEALED BENEATH THE DOOR WHEN IT IS IN A CLOSED POSITION.
11. VINYL COMPOSITION TILE FLOORING
 - 11.1. ALL FLOOR TILES TO BE FROM THE SAME BATCH NUMBER.
 - 11.2. FLOOR TILE, AND ALL NECESSARY COMPONENTS, ARE TO BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.
 - 11.3. CONTINUE FLOORING OVER AREAS WHICH WILL BE UNDER BUILT-IN FURNITURE AND/OR MILLWORKS.
 - 11.4. SCRIBE AND CUT BORDER TILES TO SUIT SITE CONDITIONS.
 - 11.5. COMPLETE INITIAL CLEANING AS PER MANUFACTURER'S INSTRUCTIONS.
- 11.6. INCLUDE MANUFACTURER'S CLEANING AND MAINTENANCE INSTRUCTIONS IN OPERATIONS AND MAINTENANCE MANUAL.
12. CONTRACTOR TO PROVIDE AN OVERAGE OF ALL FLOOR FINISHES IN THE AMOUNT OF 5% FOR MAINTENANCE PURPOSES. PROVIDE IN UNOPENED CARDBOARD BOXES.

AREA NOT IN CONTRACT

05	ISSUED FOR TENDER ADDENDA 1	14/APR/2025
04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023
REV.	DESCRIPTION	DATE

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

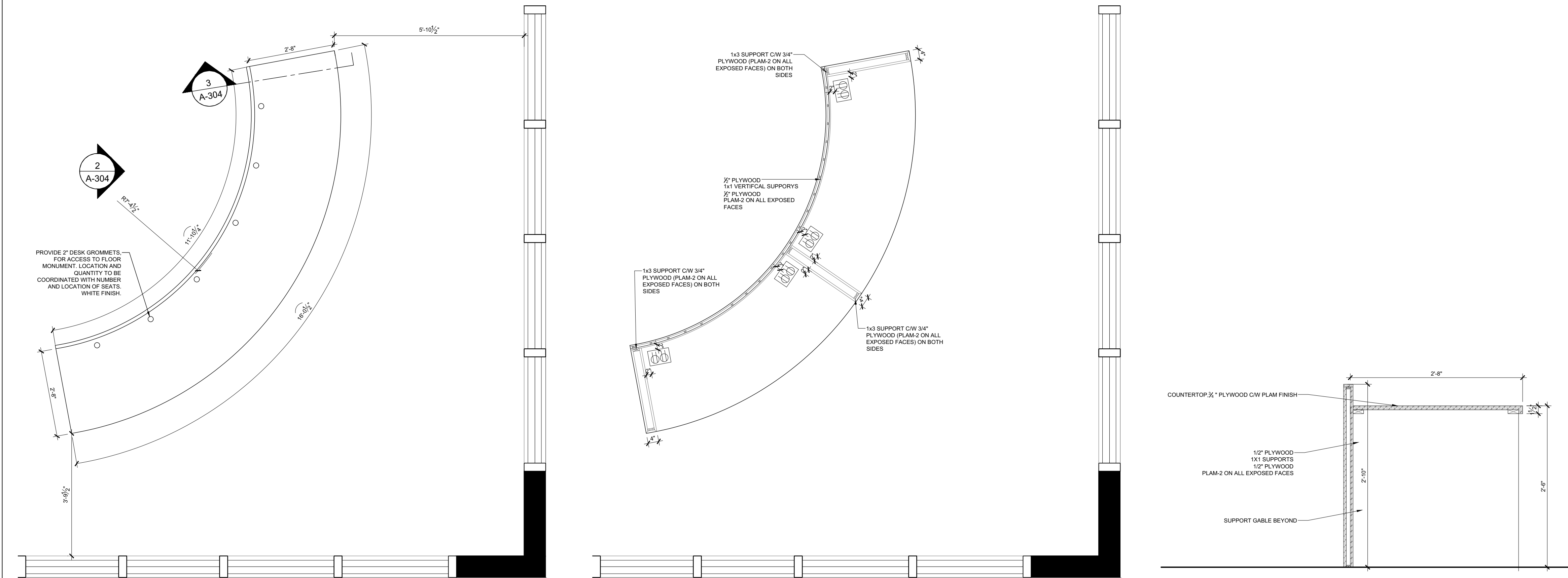
1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

LEVEL 2
FLOOR FINISHES PLAN

PROJECT NO.	22045	DRAWING NO.	
SCALE -	1/8" = 1'-0"		
DRAWN -	MH		
CHECKED -	KB		
PLOT DATE -	14/04/2025	PLOTTED BY:	MHENYEY

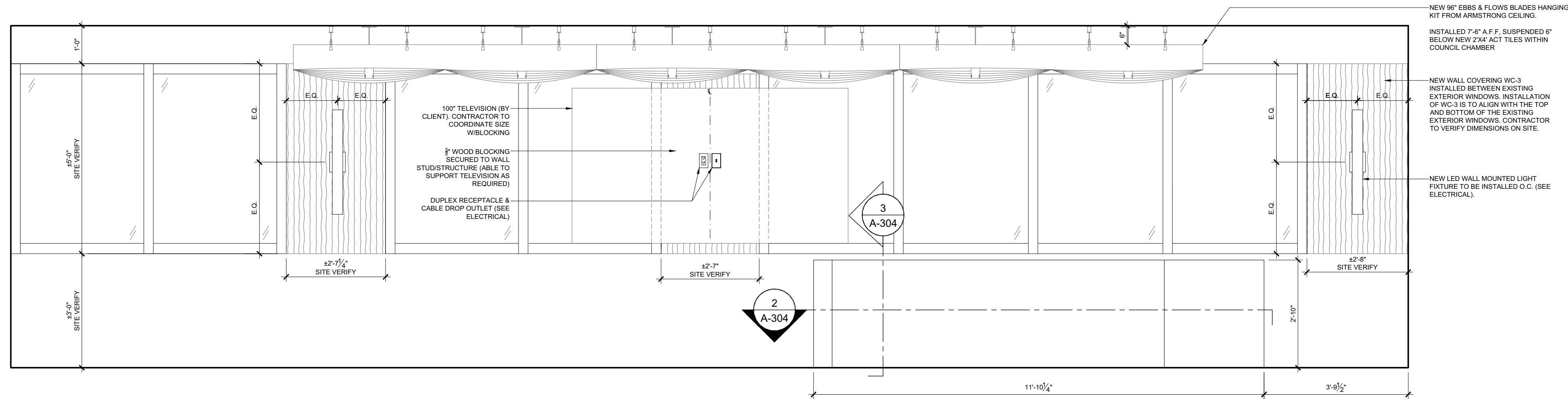
A-108



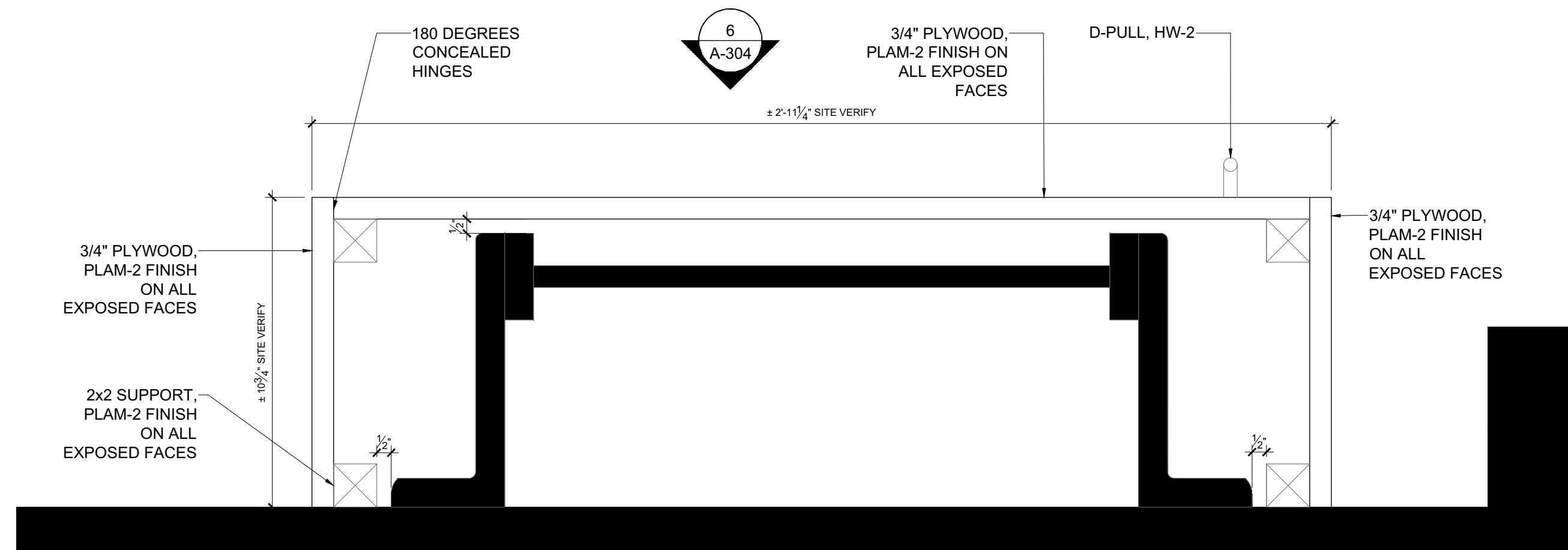
1
A-304
**COUNCIL CHAMBER 225
ENLARGED FLOOR PLAN**
SCALE = 1/2" = 1'-0"

2
A-304
**COUNCIL CHAMBER 225
COUNCIL DESK SECTION A**
SCALE = 1/2" = 1'-0"

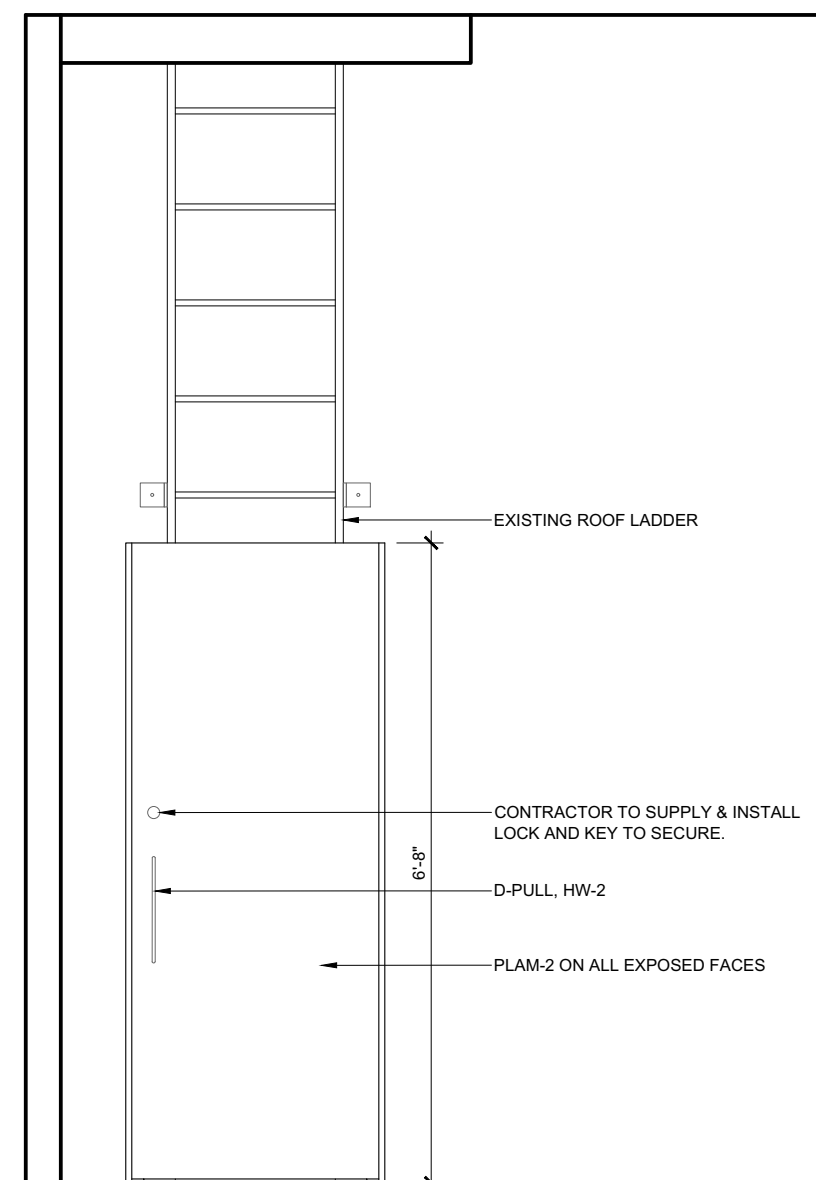
3
A-304
**COUNCIL CHAMBER 225
COUNCIL DESK SECTION B**
SCALE = 1" = 1'-0"



4
A-304
**COUNCIL CHAMBER 225
ELEVATION**
SCALE = 1/2" = 1'-0"



5
A-304
**ROOFTOP LADDER
ENLARGED PLAN**
SCALE = 3" = 1'-0"



6
A-304
**ROOFTOP LADDER
ELEVATION**
SCALE = 1/2" = 1'-0"



05	ISSUED FOR ADDENDUM 01	14/APR/2025
04	ISSUED FOR TENDER	24/MAR/2025
03	ISSUED FOR PERMIT	18/MAR/2025
02	ISSUED FOR 99% REVIEW	24/FEB/2025
01	ISSUED FOR 66% REVIEW	12/MAY/2023

REV.	DESCRIPTION	DATE
------	-------------	------

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF PYE & RICHARDS - TEMPRANO & YOUNG ARCHITECTS INC. COPYRIGHT RESERVED

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DIMENSIONAL ERRORS AND/OR POSSIBLE TRADE INTERFERENCE/CONFLICT FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. DO NOT SCALE DRAWINGS.

SEAL PROJECT NORTH

Not for construction unless SEALED and SIGNED

P R PYE & RICHARDS -
T Y TEMPRANO & YOUNG
ARCHITECTS INC.

824 Meath St. Suite 200 613. 724. 7700
Ottawa, ON K1Z 6E8 info@prty.ca

PROJECT

MUNICIPALITY OF CASSELMAN
OFFICE FIT-UP

1 INDUSTRIEL STREET CASSELMAN, ON

DRAWING

CUSTOM MILLWORK PLANS,
ELEVATIONS & DETAILS

PROJECT NO.	22045	DRAWING NO.
SCALE -	1/8" = 1'-0"	A-304
DRAWN -	MH	
CHECKED -	KB	
PLOT DATE -	14/04/2025	PLOTTED BY: MHENEY



EXP Services Inc.

100-2650 Queensview Drive,
Ottawa, ON
K2B 8H6

Telephone: (613) 688-1899

Facsimile: (613) 225-7337

E-mail: ottawa@exp.com,

Web Site: www.exp.com

Electrical Addendum No. E1

Reference: Tender Addendum E1

Issue Date: April 14, 2025

Project: 1 Industriel Street Office Fit-up, Casselman, ON.

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

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

Revisions / Clarifications

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

1. ELECTRICAL DRAWINGS

1.1. DRAWING E-09 – ELECTRICAL SPECIFICATIONS 1 OF 4

1.1.1. Revise Article 26.1 for grounding and bonding requirements as shown.

1.2. DRAWING E-12 – ELECTRICAL SPECIFICATIONS 4 OF 4

1.2.1. Remove item #155 for access control integration requirement under security system.

----- END OF ELECTRICAL ADDENDUM No. E1 -----

1.

SCOPE OF WORK

1.1

SUPPLY LABOUR, TOOLS, SERVICES AND EQUIPMENT, AND PROVIDE MATERIALS REQUIRED TO COMPLETE WORK IN ACCORDANCE WITH THIS SPECIFICATION AND DRAWINGS. COMPLY WITH LAWS, REGULATIONS AND CODES OF AUTHORITIES HAVING JURISDICTION. CONFORM TO REQUIREMENTS OF BIDDING DOCUMENTS AND DIVISION 1. PERFORM WORK IN ACCORDANCE WITH LOCAL APPLICABLE GOVERNING CODES AND AUTHORITIES INCLUDING THE ONTARIO BUILDING CODE AND ONTARIO ELECTRICAL SAFETY CODE (OESC).

2.

EXAMINATION OF SITE AND DOCUMENTS

2.1

PRIOR TO SUBMITTING BID, CAREFULLY EXAMINE CONDITIONS AT SITE WHICH WILL OR MAY AFFECT WORK, DRAWINGS, AND SPECIFICATIONS, AND BECOME FAMILIAR WITH BUILDING CONSTRUCTION, FINISHES AND OTHER WORK ASSOCIATED WITH WORK IN ORDER THAT BID INCLUDES FOR EVERYTHING NECESSARY FOR COMPLETION OF WORK.

3.

PAYMENTS, CERTIFICATES AND FEES

3.1

PAY FOR AND OBTAIN PERMITS TO COMPLETE WORK. WHEN WORK IS COMPLETE, SUPPLY AND TURN OVER INSPECTION CERTIFICATES FROM GOVERNING AUTHORITIES TO CONSULTANT. PAY FEES AND CHARGES LEVED BY MUNICIPALITY AND OTHER GOVERNING AUTHORITIES FOR PERMITS, INSPECTIONS AND CERTIFICATES. KEEP COPY OF SUCH PERMITS AND CERTIFICATES, ETC., ON JOB SITE.

4.

CO-ORDINATION AND CO-OPERATION

4.1

COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE A PROPER AND COMPLETE INSTALLATION. NOTIFY ALL TRADES CONCERNED OF REQUIREMENT FOR OPENINGS, SLEEVES, INSERTS AND OTHER HARDWARE NECESSARY IN THEIR WORK FOR INSTALLATION OF YOUR WORK, AND, WHERE YOUR WORK IS TO BE INTEGRATED WITH WORK OF OTHER TRADES OR IS TO BE INSTALLED IN CLOSE PROXIMITY WITH WORK OF OTHER TRADES, CAREFULLY COORDINATE WORK PRIOR TO AND DURING INSTALLATION.

4.2

EXACT LOCATIONS AND ROUTING OF SERVICES MUST BE PROPERLY PLANNED, COORDINATED AND ESTABLISHED WITH ALL AFFECTED TRADES PRIOR TO INSTALLATION SUCH THAT THEY WILL CLEAR EACH OTHER AS WELL AS ANY OBSTRUCTIONS. GENERALLY, PIPING REQUIRING UNIFORM PITCH SHALL BE GIVEN RIGHT OF WAY, WITH OTHER SERVICES LOCATED AND ARRANGED TO SUIT.

5.

NOISE CONTROL

5.1

WORK WHICH MAY CAUSE NOISE DISTURBANCES MUST BE SCHEDULED AT TIMES APPROVED BY CONSULTANT. COORDINATE WORK WITH TRADES TO MINIMIZE NOISE DISTURBANCES.

6.

CLEANING UP

6.1

DURING CONSTRUCTION, KEEP SITE REASONABLY CLEAR OF RUBBISH AND WASTE MATERIAL RESULTING FROM WORK ON DAILY BASIS. AFTER COMPLETION OF WORK, REMOVE RUBBISH AND DEBRIS, ARRANGE AND PAY FOR REPAIR OF DAMAGES CAUSED AND LEAVE PREMISES AND WORK IN GOOD ORDER.

7.

PROTECTION OF EQUIPMENT AND MATERIAL

7.1

PROPERLY PROTECT AND STORE ALL EQUIPMENT AND MATERIALS ON SITE FROM DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFE STORAGE OF ALL EQUIPMENT AND GOODS TO BE RELOCATED AND SHALL REPAIR OR REPLACE DAMAGED EQUIPMENT AND GOODS AT DISCRETION OF OWNER.

8.

INSPECTION OF WORK

8.1

CONSULTANT SHALL AT ALL TIMES HAVE ACCESS TO WORK AND SHALL BE NOTIFIED AT AGREED UPON TIMES OF STAGES OF WORK.

8.2

WHERE STANDARDS OF WORK ARE SPECIFIED OR IMPLIED AND WORK DOES NOT COMPLY WITH PERFORMANCE SPECIFIED OR IMPLIED, SUCH DEFICIENCY SHALL BE CORRECTED AS DIRECTED BY CONSULTANT. ANY SUBSEQUENT TESTING TO VERIFY PERFORMANCE SHALL BE DONE AT CONTRACTOR'S EXPENSE. ANY CHARGES FOR OWNER'S STAFF, CONSULTANT OR OTHER PERSONNEL RELATED TO SUCH RETESTING SHALL ALSO BE AT EXPENSE OF CONTRACTOR.

9.

PRODUCTS

9.1

PRODUCTS LISTED AND/OR SPECIFIED ON CONTRACT DOCUMENTS ARE SELECTED TO ESTABLISH DESIGN STANDARDS. IN MOST CASES, ACCEPTABLE MANUFACTURERS ARE LISTED. BASE YOUR BID PRICE ON BASE SPECIFIED PRODUCTS OR PRODUCTS SUPPLIED FROM ACCEPTABLE MANUFACTURERS. ENSURE PRODUCTS SUPPLIED FROM MANUFACTURERS OTHER THAN BASE SPECIFIED MANUFACTURERS ARE EQUIVALENT TO SPECIFIED PRODUCTS. CHANGES TO MANUFACTURERS OF PRODUCTS MAY BE PROPOSED TO CONSULTANT FOR ACCEPTANCE PRIOR TO CLOSING OF BIDS, LISTING IN EACH CASE CORRESPONDING CREDIT. CONSULTANT HAS SOLE DISCRETION IN ACCEPTING ANY PROPOSED SUBSTITUTION. INCLUDE IN BID PRICE ANY ADDITIONAL COSTS FOR CHANGES TO ASSOCIATED OR ADJACENT WORK RESULTING FROM PROVISION OF PRODUCTS SUPPLIED BY MANUFACTURER OTHER THAN BASE SPECIFIED MANUFACTURER. ANY PROPOSED CHANGES INITIATED BY CONTRACTOR AFTER AWARD OF CONTRACT MAY BE CONSIDERED BY THE CONSULTANT AT CONSULTANT'S DISCRETION, WITH COSTS FOR SUCH CHANGES IF APPROVED BY CONSULTANT, AND COSTS OF SUCH REVIEW BY THE CONSULTANT TO BE PAID FOR BY THE CONTRACTOR.

10.

WARRANTY

10.1

WARRANT WORK TO BE IN STRICT ACCORDANCE WITH CONTRACT DOCUMENTS AND FREE FROM DEFECTS FOR 1 YEAR PERIOD FROM DATE OF WRITTEN ACCEPTANCE BY CONSULTANT. REPAIR AND/OR REPLACE ANY SUCH DEFECTS WHICH APPEAR IN WORK WITHIN WARRANTY PERIOD, ORDINARY WEAR AND TEAR AND WILFUL DAMAGE BY, OR CARELESSNESS OF OWNER'S STAFF OR AGENTS EXCEPTED, WITHOUT ADDITIONAL EXPENSE TO OWNER. WHERE SUCH DEFECTS OCCUR, BE RESPONSIBLE FOR COSTS INCURRED IN MAKING DEFECTIVE WORK GOOD, INCLUDES REPAIR OR REPLACEMENT OF BUILDING FINISHES, OTHER MATERIALS, OR DAMAGE TO OTHER EQUIPMENT CAUSED BY SUCH DEFECTS, OR BY SUBSEQUENT REPLACEMENT OR REPAIRS.

11.

INTERRUPTIONS TO AND SHUT-DOWNS OF EXISTING SERVICES AND SYSTEMS

11.1

COORDINATE AND PERFORM SHUT-DOWNS AND INTERRUPTIONS TO EXISTING SYSTEMS AND SERVICES AT TIMES ACCEPTABLE TO OWNER. OBTAIN WRITTEN APPROVAL MINIMUM FIVE (5) DAYS IN ADVANCE OF SHUT-DOWN OR INTERRUPTION. INCLUDE FOR PERIODS OF PREMIUM TIME TO PERFORM WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE OF NORMAL WORKING HOURS, AS NECESSARY TO MAINTAIN SERVICES IN OPERATION OR WITH MINIMUM INTERRUPTIONS AND TO COMPLY WITH OWNER'S REQUIREMENTS. NOTE: WORK ASSOCIATED WITH SHUT-DOWNS AND INTERRUPTIONS WILL BE CARRIED OUT AS CONTINUOUS OPERATIONS TO MINIMIZE SHUT-DOWN TIME AND TO REINSTATE SYSTEMS AS SOON AS POSSIBLE, AND, PRIOR TO SHUT-DOWN, ENSURE MATERIALS AND LABOUR REQUIRED TO COMPLETE WORK FOR WHICH SHUT-DOWN IS REQUIRED ARE AVAILABLE AT SITE.

12.1

CUTTING, PATCHING AND CORE DRILLING

12.1

DO CUTTING, PATCHING AND CORE DRILLING OF EXISTING BUILDING REQUIRED FOR INSTALLATION OF WORK AFTER HOURS AND MUST BE CONFIRMED BY LANDLORD. PERFORM CUTTING IN NEAT AND TRUE FASHION, WITH PROPER TOOLS AND EQUIPMENT TO OWNER'S APPROVAL. PATCHING WILL EXACTLY MATCH EXISTING FINISHES AND BE PERFORMED BY TRADESMEN SKILLED IN PARTICULAR TRADE OR APPLICATION WORKED ON TO OWNER'S APPROVAL.

12.2

IN FIRE RATED CONSTRUCTION, PACK AND SEAL VOID BETWEEN OPENING AND CONDUIT FOR LENGTH OF OPENING WITH ASBESTOS-FREE ELASTOMERIC AND INTUMESCENT ULC LISTED AND LABELLED MATERIALS. INSTALL FIRESTOP AND SMOKE SEAL MATERIALS IN ACCORDANCE TO ULC CERTIFICATION AND MANUFACTURER'S REQUIREMENTS TO PROVIDE FIRESTOP RATINGS OF OPENINGS IN ACCORDANCE WITH GOVERNING BUILDING CODE REQUIREMENTS. SUBMIT WITH SHOP DRAWINGS, SPECIFIC ULC DESIGNATED NUMBER FOR EACH APPLICATION.

12.3

DO NOT CUT OR DRILL EXISTING WORK WITHOUT PRIOR OWNER'S APPROVAL. IN CONSULTATION WITH OWNER AND BY USE OF X-RAY (WITH OWNER'S APPROVAL), OR RADAR SCANNING, DETERMINE PRESENCE OF EXISTING SERVICES AND REINFORCING RODS CONCEALED BEHIND SURFACE TO BE CUT. ENSURE THAT AREAS OF BOTH SIDES OF THE SURFACE BEING CUT ARE PROTECTED FROM DEBRIS. NOTE: YOU WILL BE HELD RESPONSIBLE FOR DAMAGE DONE TO EXISTING BUILDING AND SERVICES CAUSED BY CUTTING OR DRILLING. IF X-RAYING IS NOT PERMITTED, USE NON-DESTRUCTIVE RADAR SCANNING OR CAREFULLY HAND CHISEL TO EXPOSE RE-BAR AND BURIED SERVICES AND CHISEL OUT REQUIRED OPENINGS.

12.4

X-RAY THE FLOOR SHALL ONLY BE PERMITTED AFTER HOURS (10:00PM), AND A MINIMUM 72 HOURS' WRITTEN NOTICE SHALL BE PROVIDED TO THE LANDLORD FOR APPROVAL.

13.

DISCONNECTION, REMOVAL AND RELOCATION WORK

13.1

WHERE INDICATED ON DRAWINGS, AND DETERMINED BY SITE VISIT, DISCONNECT AND REMOVE ITEMS OF EXISTING OBSOLETE ELECTRICAL WORK AND RELOCATE DEVICES. WHERE FIXTURES, SWITCHES, RECEPTACLES AND OTHER DEVICES AND/OR EQUIPMENT IS REMOVED, DISCONNECT AT POINT OF ELECTRICAL SUPPLY, REMOVE OBSOLETE WIRING, AND MAKE SYSTEM SAFE. WHERE EXISTING OBSOLETE CONDUIT AND SIMILAR RACEWAY MATERIAL CANNOT BE REMOVED, CUT BACK AND CAP OBSOLETE CONDUITS OR RACEWAYS. REVISE PANELBOARD DIRECTORYS ACCORDINGLY, IF AFFECTED BY WORK.

13.2

UNLESS OTHERWISE NOTED, OBSOLETE MATERIALS WHICH ARE DISCONNECTED AND ARE NOT TO BE RELOCATED OR REUSED WILL BECOME YOUR PROPERTY. REMOVE FROM SITE AND DISPOSE. OBTAIN FROM OWNER, LIST OF EXISTING ITEMS TO BE CAREFULLY REMOVED AND TURNED OVER TO OWNER. SAID ITEMS WILL REMAIN PROPERTY OF OWNER.

13.3

PROVIDE JUNCTION BOXES, OUTLET BOXES, WIRING, PLATES, ETC., AS NECESSARY FOR COMPLETE RELOCATION OF DEVICES. CLEAN AND RELAMP RELOCATED LUMINAIRES. REPLACE FAULTY BALLASTS. WHEN RELOCATION WORK IS COMPLETE, CONFIRM RELOCATED DEVICES ARE IN PROPER WORKING ORDER. ALL RELOCATED OR TEMPORARY REMOVED DEVICES SHALL BE CLEANED AND VERIFIED TO BE IN GOOD WORKING CONDITION PRIOR TO BEING REINSTALLED.

13.4

WHERE EXISTING SERVICES PASS THROUGH OR ARE IN AN AREA TO SERVE ITEMS WHICH ARE TO REMAIN, MAINTAIN SERVICES. INCLUDE FOR REROUTING EXISTING SERVICES CONCEALED BEHIND FINISHES AND WHICH BECOME EXPOSED DURING RENOVATION WORK, SO AS TO BE CONCEALED BEHIND FINISHES.

13.5

IN AREAS WHICH ARE NOT BEING ARCHITECTURALLY RENOVATED AND WHICH ELECTRICAL CONTRACTOR MUST RUN SERVICES THROUGH, BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ARCHITECTURAL CEILING TILES, MECHANICAL EQUIPMENT, SPRINKLERS, ETC., AS REQUIRED FOR INSTALLATION OF YOUR WORK. IF THE REQUIRED ELECTRICAL WORK IS REQUIRED TO ACCOMMODATE WORK OF OTHER TRADES, AND IF REMOVAL OF EXISTING CEILING TILES IS NOT THE RESPONSIBILITY OF OTHERS, BE RESPONSIBLE FOR ALL WORK TO GAIN ACCESS TO THOSE DEVICES THAT NEED TO BE WORKED ON. SECURELY SUPPORT ANY DEVICE/LUMINAIRE LEFT "DANGLING" DUE TO REMOVAL OF SUPPORTING MEANS. RE-INSTALL DEVICE AFTER DISSECTION OF WORK IS APPROVED BY CONSULTANT. PRIOR TO REMOVAL OF CEILING TILES OR OTHER DEVICES, INSPECT FOR DAMAGES/WORKING ORDER AND REPORT ANY DEFICIENCIES TO OWNER PRIOR TO START OF WORK. PATCH AND MAKE GOOD (INCLUDING PAINTING) SURFACES TO MATCH EXISTING.

13.6

ANY FIRE ALARM OR COMMUNICATION SYSTEM DEVICE THAT HAS BEEN WORKED ON OR RELOCATED, SHALL BE TESTED AND VERIFIED BY MANUFACTURER'S AUTHORIZED TECHNICIAN AFTER COMPLETION OF WORK. INCLUDE FOR ALL COSTS.

14.

HAZARDOUS MATERIALS

14.1

IF AT ANY TIME DURING COURSE OF WORK ASBESTOS MATERIALS ARE ENCOUNTERED OR SUSPECTED, CEASE WORK IN AREA IN QUESTION AND IMMEDIATELY REPORT, IN ACCORDANCE WITH ONTARIO REGULATION 169/97 (SECTION 41) TO CONSULTANT. DO NOT RESUME WORK IN AFFECTED AREA WITHOUT APPROVAL FROM CONSULTANT.

15.

RECORD DRAWINGS (AS-BUILTS)

15.1

DRAWINGS FOR THIS PROJECT HAVE BEEN PREPARED ON A CAD SYSTEM. THE SOFTWARE USED IS AUTOCAD RELEASE 2010. COPIES OF DRAWINGS ON DISKS FOR USE IN PREPARING AS-BUILTS, MAY BE PURCHASED FROM CONSULTANT AT A COST OF \$25 CDN. PLUS GST PER DRAWING.

15.2

WHEN WORK BEGINS AT SITE, CLEARLY AND ACCURATELY MARK ON A BOUND SET OF WHITE PRINTS OF CONTRACT DRAWINGS, ON A DAILY BASIS, ALL CHANGES AND DEVIATIONS FROM ROUTING OF AND LOCATIONS OF EQUIPMENT SHOWN ON CONTRACT DRAWINGS, CHANGES AND DEVIATIONS INCLUDING THOSE MADE BY ADDENDA, CHANGE ORDERS, AND SITE INSTRUCTIONS, AND CHANGES AND DEVIATIONS INDICATED ON SUPPLEMENTAL DRAWINGS ISSUED WITH ADDENDA, CHANGE ORDERS, AND SITE INSTRUCTIONS. MAINTAIN "AS-BUILT" WHITE PRINTS AT SITE FOR PERIODIC INSPECTION BY CONSULTANT THROUGHOUT DURATION OF WORK. PAY PARTICULAR ATTENTION TO ACCURATELY DIMENSIONING LOCATION OF ALL CONCEALED SERVICES TERMINATED FOR FUTURE EXTENSION, ALL BURIED WORK AND SERVICES, AND WORK CONCEALED WITHIN BUILDING IN INACCESSIBLE LOCATIONS.

15.3

WHEN WORK ENDS AT SITE, UPDATE A COMPUTER FILE COPY OF CONTRACT DOCUMENT DRAWING SET SO THAT IT REFLECTS ALL DEVIATIONS FROM ORIGINAL CONTRACT DOCUMENT DRAWINGS, THUS FORMING A TRUE "AS-BUILT" DRAWING DISK SET. PROVIDE A SET OF REPRODUCIBLE WHITE PRINTS OF CONTRACT DRAWINGS PRODUCED FROM TRUE "AS-BUILT" DRAWING SET. SUBMIT "AS-BUILT" DRAWINGS, COMPACT DISKS WITH WHITE PRINTS AND CAD PRODUCED "AS-BUILT" MYLAR PRINTS TO CONSULTANT. ALL SUBMITTED DRAWINGS SHALL BE OF THE SAME QUALITY AS ORIGINAL CONTRACT DOCUMENT DRAWINGS.

15.4

UPDATE OWNER'S DISTRIBUTION RISER DIAGRAMS POSTED IN ELECTRICAL ROOMS.

16.

SHOP DRAWINGS AND OPERATING/MAINTENANCE INSTRUCTION MANUALS

16.1

SUBMIT SHOP DRAWINGS AND OPERATING/MAINTENANCE INSTRUCTION MANUALS FOR FOLLOWING:

16.1.1

SPECIAL RECEPTACLES AND SWITCHES;

16.1.2

LUMINAIRES;

16.1.3

EXIT SIGN;

16.2

PROPERLY IDENTIFY SHOP DRAWINGS

4'

(1200 mm), PROVIDE RIGID GALVANIZED STEEL TO CSA C22.2 NO. 45 COMPLETE WITH FITTINGS, CONNECTORS AND RIGID COUPLINGS.

18.2

SUPPORT AND SECURE CONDUIT AT SPACING IN ACCORDANCE WITH CODE REQUIREMENTS BY MEANS OF GALVANIZED PIPE STRAPS, CONDUIT CLIPS, RING BOLT TYPE HANGERS, OR BY OTHER PROPER MANUFACTURED DEVICES. PROVIDE CONDUIT FITTINGS CONSTRUCTED OF SAME MATERIALS AS CONDUIT AND SUITABLE FOR APPLICATION. SQUARE AND PROPERLY REAM ENDS OF SITE CUT CONDUIT. GENERALLY, CONDUIT IS SIZED ON DRAWINGS. SIZE CONDUIT NOT SIZED ON DRAWINGS IN ACCORDANCE WITH CODE. BEND CONDUIT AT FULL CONDUIT DIAMETER WITH NO KINKING AND NO FLAKING OR CRACKING OF FINISHES.

19.

CONDUCTORS

19.1

BRANCH CIRCUITS. REFER TO DRAWINGS FOR SIZING OF CONDUCTORS. GENERALLY, BRANCH CIRCUIT CONDUCTOR SIZES ARE INDICATED ON CONSULTANT'S DRAWINGS. SUCH SIZES ARE MINIMUM REQUIREMENTS AND MUST BE INCREASED, TO SUIT LENGTH OF RUN AND VOLTAGE DROP IN ACCORDANCE WITH SCHEDULE OBTAINED FROM CONSULTANT. CONDUCTORS NOT SIZED ON DRAWINGS SHALL BE SIZED IN ACCORDANCE WITH CODE. PROVIDE CABLE SUPPORT SYSTEM ACCESSORIES WHICH ARE NOT SPECIFIED HEREIN OR SHOWN ON DRAWINGS BUT ARE REQUIRED FOR PROPER INSTALLATION.

19.2

INTERIOR CONDUCTORS TO BE "RW90" SINGLE CONDUIT WORK TO CSA C22.2 NO. 75, COLOUR CODED, 167 DEGREES F. (75 DEGREES C.) RATED, PVC INSULATED AND NYLON COVERED.

19.3

CONDUCTORS IN ACCESSIBLE SUSPENDED CEILING SPACES, IN STUD WALL CONSTRUCTION TO SUSPENDED CEILING SPACES (MAXIMUM 5' RUN PERMITTED) MAY BE "BX" TYPE, AC-90 FLEXIBLE ARMoured CABLE WITH "RW-90" CONDUCTORS AND BARE COPPER GROUND CONDUCTOR TO CSA C22.2 NO. 51 (BULLETIN NO. 994). PROVIDE PROPER SQUEEZE TYPE CONNECTORS AND PLASTIC ANTI-SHORT BUSHINGS AT TERMINATIONS. SUPPORT "BX" IN CEILING SPACES AND IN STUD WALL CONSTRUCTION WITH STEEL 2 HOLE CABLE STRAPS TO "CODE" REQUIREMENTS.

19.4

CONDUCTORS UP TO AND INCLUDING NO. 10 AWG SHALL BE SOLID. CONDUCTORS IN SIZES LARGER THAN NO. 10 AWG SHALL BE STRANDED. PROVIDE CONDUCTORS CONSTRUCTED OF 98% CONDUCTIVE COPPER AND APPROVED FOR 600V. DO NOT USE CONDUCTORS SMALLER THAN NO. 12 AWG UNLESS OTHERWISE NOTED.

19.5

19.5 PROVIDE IDI ELECTRIC "IDEAL" NO. 451, NO. 452 AND NO. 453 "WING-NUT" CSA CERTIFIED 600V RATED PRESSURE TYPE CONNECTORS.

19.6

19.6 COLOUR CODE CONDUCTORS IN ACCORDANCE WITH CODE, THROUGHOUT TO IDENTIFY PHASES, NEUTRALS AND GROUND BY MEANS OF SELF-LAMINATING COLOURED TAPE, COLOURED CONDUCTOR INSULATION, OR PROPERLY SECURED COLOURED PLASTIC DISCS.

19.7

WHEN PULLING WIRES INTO CONDUIT, USE IDI ELECTRIC "IDEAL YELLOW 77" LUBRICANT. ENSURE WIRES ARE KEPT STRAIGHT AND ARE NOT TWISTED OR ABRADED.

19.8

WIRING FOR EMERGENCY LIGHTING SHALL BE FIRE RATED.

20.

OUTLET BOXES, PULLBOXES AND JUNCTION BOXES

20.1

PROVIDE CSA APPROVED STAMPED GALVANIZED STEEL OUTLET BOX FOR EACH LUMINAIRE, FIRE ALARM DEVICE, ETC. REFER TO DRAWINGS FOR LOCATIONS OF OUTLETS. CONFIRM EXACT LOCATIONS PRIOR TO ROUGHING-IN. BOXES FOR RIGID STEEL CONDUITS SHALL BE CAST FS/FD TYPES.

20.2

PROVIDE PULLBOXES AND JUNCTION BOXES WHEREVER NECESSARY TO FACILITATE CONDUCTOR/CONDUIT INSTALLATIONS. GENERALLY, PROVIDE CONDUIT RUNS EXCEEDING 100' (30 m) IN LENGTH, OR WITH MORE THAN 3, 90 DEGREE BENDS WITH PULLBOX INSTALLED AT CONVENIENT AND SUITABLE INTERMEDIATE ACCESSIBLE LOCATION. PROVIDE JUNCTION BOXES AND PULLBOXES SIZED IN ACCORDANCE WITH CODE TO SUIT NUMBER AND SIZE OF CONDUITS AND CONDUCTORS. BOXES TO BE GALVANIZED OR PRIME COATED PLATE STEEL COMPLETE WITH SCREW-ON OR HINGED COVERS AND KNOCKOUTS. BOXES MUST BE ACCESSIBLE AFTER WORK IS COMPLETE.

20.3

SIZE, ARRANGEMENT AND TYPE OF BOXES MUST BE SUITABLE FOR APPLICATION. PROVIDE BLANK COVERPLATES ON EXISTING OBSOLETE BOXES WHICH ARE TO REMAIN. CLEARLY IDENTIFY MAIN PULL OR JUNCTION BOXES BY SPRAY PAINTING COVERS IN ACCORDANCE TO BASE BUILDING STANDARDS AND SHALL BE CONFIRMED ON SITE.

20.4

WHERE REQUIRED, SUPPLY ACCESS DOORS OF MINIMUM NO. 12 GAUGE, PRIME COATED STEEL COMPLETE WITH HINGES AND FRAMES TO GIVE ACCESS TO BOXES AND CONDUCTOR JOINTS AND OTHER SIMILAR ELECTRICAL WORK WHICH MAY NEED MAINTENANCE OR REPAIR, BUT WHICH IS CONCEALED IN INACCESSIBLE CONSTRUCTION. CONFIRM FINISHES WITH OWNER.

21.

RECEPTACLES, SWITCHES AND FACEPLATES

21.1

FOR GENERAL AREAS: PROVIDE HUBBELL CANADA HBL1221 CSA APPROVED, HEAVY DUTY, SPECIFICATION GRADE, AC QUIET ACTION TOGGLE TYPE, 20A, 120-277V SWITCHES AND HBL5262, HEAVY DUTY, SPECIFICATION GRADE PREMIUM QUALITY DUPLEX NYLON CONSTRUCTION U-GROUND, 15A-125V, 3W RECEPTACLES. DEVICES SHALL BE BACK AND SIDE WIRED. PROVIDE IMPACT RESISTANT THERMOPLASTIC FACEPLATES WITH MATCHING SCREWS. CONFIRM TYPE AND FINISH OF DEVICES WITH OWNER PRIOR TO ORDERING.

21.2

FOR PUBLIC SPACES OR OTHER AREAS WHERE DESIGNER DEVICES ARE REQUIRED: PROVIDE HUBBELL CANADA CSA APPROVED, "STYLE LINE" SPECIFICATION GRADE, ROCKER TYPE, 20A, 120-277V DECORATIVE TYPE SWITCHES AND "STYLE LINE" SPECIFICATION GRADE DUPLEX NYLON CONSTRUCTION U-GROUND, 15A-125V, 3W DECORATIVE RECEPTACLES. DEVICES SHALL BE BACK AND SIDE WIRED. PROVIDE IMPACT RESISTANT THERMOPLASTIC FACEPLATES WITH MATCHING SCREWS. CONFIRM TYPE AND FINISH OF DEVICES WITH OWNER PRIOR TO ORDERING. POLE, 3W, ORANGE COLOURED, SPECIFICATION GRADE ISOLATED GROUND DUPLEX.

21.3

WHERE SHOWN, PROVIDE HUBBELL NO. IG.5262, 15A-125V, ULC LISTED, 2 RECEPTACLE COMPLETE WITH STAINLESS STEEL FACEPLATE AND MATCHING SCREWS.

21.4

WHERE SHOWN, PROVIDE HUBBELL NO. G.5252, 15A-125V, ULC LISTED, CLASS A GROUP ONE, 2-POLE, 3W, IVORY COLOURED, SPECIFICATION GRADE, GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE, COMPLETE WITH STAINLESS STEEL FACEPLATES AND MATCHING SCREWS.

21.5

IDENTIFY CIRCUIT NUMBERS ON RECEPTACLE DESIGNATED LABELLING SPACES. PROVIDE PERMANENTLY LABELLED, SELF ADHESIVE, IDENTIFICATION TAPE ON OUTSIDE OF EACH DEVICE OUTLET, IDENTIFYING LOCATION FROM WHERE EACH DEVICE IS FED.

22.

FASTENING AND SECURING HARDWARE

22.1

PROVIDE PROPER FASTENERS AND SIMILAR HARDWARE REQUIRED FOR CONDUIT, CONDUCTORS, AND FOR EQUIPMENT HANGER AND/OR SUPPORT MATERIAL UNLESS OTHERWISE NOTED. EXPLOSIVE POWDER ACTUATED FASTENERS WILL NOT BE PERMITTED UNLESS SPECIFIC WRITTEN APPROVAL FOR THEIR USE AND TYPE HAS BEEN OBTAINED FROM CONSULTANT. UNDER NO CIRCUMSTANCES USE CEILING SUSPENSION HANGERS OR GRIDS FOR SUSPENSION OF CONDUIT AND CONDUCTORS.

23.

IDENTIFICATION NAMEPLATES

23.1

FOR EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT FROM ELECTRICALSOURCE OF SUPPLY UP TO AND INCLUDING PANELBOARDS, PROVIDE ENGRAVED LAMACOD IDENTIFICATION NAMEPLATES SECURED TO APPARATUS WITH STAINLESS STEEL SCREWS, WORKING TO INDICATE SOURCE OF ELECTRICAL SUPPLY AND SIZED TO SUIT EQUIPMENT FOR WHICH IT IS PROVIDED. CONFIRM EXACT NAMEPLATE WORDING, DESIGNS, AND SIZES WITH OWNER PRIOR TO MANUFACTURE. LEMACOD NAMEPLATES TO MATCH BASE BUILDING STANDARDS FOR SIZE.

24.

DISTRIBUTION TRANSFORMERS

24.1

HAMMOND POWER SOLUTIONS, DRY TYPE TRANSFORMERS AS PER DRAWING SCHEDULE, CSA APPROVED AND/OR ULC LISTED AND LABELLED, CONSTRUCTED AND FACTORY TESTED IN ACCORDANCE WITH LATEST REQUIREMENTS OF FOLLOWING:

24.1.1

CSA STANDARD C9;

24.1.2

CAN/CSA C22.2 NO. 47;

24.1.3

CAN/CSA-C802.2

24.1.4

UL 1561;

24.1.5

NEMA TP1;

24.1.6

LOCAL GOVERNING AUTHORITY CODES AND STANDARDS.

24.2

Dry type transformers to be complete with:

24.2.1

MINIMUM NEMA 3R ENCLOSURE WITH A RIGID END FRAME, REMOVABLE PLATES, A TERMINAL COMPARTMENT; VENTILATION LOUVRES DESIGNED TO PREVENT PENETRATION OF WATER SPRAY FROM ACTIVATED SPRINKLERS ONTO LIVE PARTS, AND GASKETTED DOORS AND COMPONENT OPENINGS;

24.2.2

CLASS "H", 220°C CLASS, SILICON TYPE COIL INSULATION, SUCH THAT WINDING TEMPERATURE RISE TO NOT EXCEED 150C(270F) AND ENCLOSURE TEMPERATURE RISE NOT EXCEED 65C(117F) UNDER FULL LOAD IN A 40°C (104F) AMBIENT TEMPERATURE;

24.2.3

TOP MOUNTED FACTORY PAINTED DRIP SHIELD;

24.2.4

COPPER WINDINGS;

24.2.5

CORE CONSTRUCTION CONSISTING OF STACKED LAMINATIONS OF HIGH PERMEABILITY SILICON STEEL;

24.2.6

VACUUM IMPREGNATED POLYESTER OR EPOXY RESIN;

24.2.7

LUGS OR PRESSURE TYPE TERMINALS TO SUIT PRIMARY AND SECONDARY CONDUCTORS;

24.2.8

FOUR (4) 2-1/2"ZK FULL CAPACITY TAPS; TWO (2) ABOVE NORMAL AND TWO (2) BELOW NORMAL; TAPS LOCATED ON PRIMARY WINDING;

24.2.9

AN INTEGRAL VIBRATION DAMPENING SYSTEM WITH ANTI-VIBRATION PADS USED BETWEEN CORE AND ENCLOSURE;

24.2.10

SEISMIC RESTRAINT REQUIREMENTS TO SUIT LOCAL GOVERNING AUTHORITY REQUIREMENTS AND CODES;

24.2.11

UNLESS OTHERWISE NOTED, SOUND LEVEL AND BASIC IMPULSE LEVEL TO MEET CSA C9 REQUIREMENTS; UNLESS OTHERWISE NOTED, TRANSFORMERS 300 KVA AND LARGER TO HAVE NOISE LEVEL 30B BELOW CSA C9 REQUIREMENTS;

24.2.12

EFFICIENCY MEETING OR EXCEEDING CSA C802.2;

24.2.13

FACTORY PAINTED WITH AN ANSI GREY ENAMEL FINISH;

24.2.14

ALUMINUM NAMEPLATE INDICATING IMPEDANCE RATING, WEIGHT, CONNECTION DIAGRAM, STYLE AND SERIAL NUMBER, RIVETED TO FRONT OF ENCLOSURE.

24.3

ACCEPTABLE MANUFACTURERS ARE:

24.3.1

HAMMOND POWER SOLUTIONS;

24.3.2

DELTA GROUP;

24.3.3

SCHNEIDER ELECTRIC;

24.3.4

REX POWER MAGNETICS;

24.3.5

BEMAG TRANSFORMER;

24.3.6

SIEMENS;

24.3.7

STI POWER.

25.

PANELBOARDS

25.1

PROVIDE FACTORY ASSEMBLED DEAD FRONT SURFACE MOUNTED PANELBOARDS AS PER SCHEDULES, MANUFACTURED TO CSA STANDARD C22.2 NO. 29 AND ONTARIO ELECTRICAL SAFETY CODE, AND DESIGNED FOR SEQUENCE PHASE CONNECTION OF BRANCH CIRCUIT BREAKERS.

25.2

AS SCHEDULED, PANELBOARDS ARE OF TYPES:

25.2.1

"POW-R-LINE 1", 120/208 V, 3-PHASE AND SINGLE PHASE WITH MINIMUM "BAB" FRAME, BOLT-ON MOULDED CASE CIRCUIT BREAKERS WITH A MINIMUM INTERRUPTING CAPACITY OF 100 KA SYMMETRICAL AT 108 V, UNLESS OTHERWISE SCHEDULED. WHERE PANELBOARDS ARE SCHEDULED TO INCLUDE SERIES RATED PROVISIONS, PROVIDE BREAKERS AS RECOMMENDED BY PANEL MANUFACTURER;

25.3

WHERE GROUND FAULT CIRCUIT INTERRUPTING (GFCI) TYPE BREAKERS ARE REQUIRED BY CODE AND/OR SCHEDULED, PROVIDE "QUICKLAG" GROUND FAULT, CSA CLASS "A", GROUP 1, COMBINATION THERMAL MAGNETIC BOLT-ON CIRCUIT BREAKERS WITH SOLID-STATE GROUND FAULT INTERRUPTERS.

25.4

PANELBOARDS TO BE EQUIPPED WITH ONE (1) CONTINUOUS BUS BAR PER PHASE. EACH BUS BAR TO HAVE SEQUENTIALLY PHASED BRANCH CIRCUIT CONNECTORS LIMITED TO BOLT-ON BRANCH CIRCUIT BREAKERS. BUSSING TO BE FULLY RATED AND OF PLATED COPPER CONSTRUCTION.

25.5

PANELBOARDS ARE TO BE COMPLETE WITH:

25.5.1

NEMA 1, BOX CONSTRUCTED OF CODE GAUGE GALVANIZED STEEL WITH REMOVABLE BOX ENDS, WIRING GUTTER SPACE ON SIDES, CONDUIT ENTRIES SEALED WATER-TIGHT;

25.5.2

DEAD-FRONT CONSTRUCTION TO SHIELD USER FROM ENERGIZED PARTS;

25.5.3

ENCLOSURE CONSTRUCTED OF CODE GAUGE, HOT ZINC DIPPED GALVANIZED STEEL CONSTRUCTED IN ACCORDANCE WITH UL 50 REQUIREMENTS; TRIM FOR FLUSH OR SURFACE WALL MOUNTING AS SHOWN; FRONT PANEL TO NOT BE REMOVABLE WITH THE DOOR LOCKED;

25.5.4

HINGED DOOR WITH CONCEALED FASTENERS, CONCEALED HINGE, CHROME PLATED DOOR LATCH AND KEYS AND ALIKE LOCK WITH KEY;

25.5.5

A STEEL FRAME HANGER AND CIRCUIT DIRECTORY CARD PROTECTED BY CLEAR ACETATE AND SECURED TO BACK OF DOOR, AND MYLAR CIRCUIT BREAKER IDENTIFICATION STRIPS;

25.5.6

DRIP SHIELD FOR SURFACE MOUNTED PANELBOARDS;

25.5.7

COPPER NEUTRAL BARS;

25.5.8

200% SIZED NEUTRALS FOR PANELS EQUIPPED WITH SPD UNITS AND FOR PANELS AS SCHEDULED;

25.5.9

SOLIDLY BONDED EQUIPMENT COPPER GROUND BAR;

25.5.10

HIGH STRENGTH, SET SCREW TYPE, ANTI-TURNING WIRE CONNECTORS;

25.5.11

CURRENT-CARRYING PARTS BE INSULATED FROM GROUND AND PHASE-TO-PHASE BY HIGH DIELECTRIC STRENGTH THERMOPLASTIC;

25.5.12

ISOLATED GROUND BUS FOR PANELBOARDS FEEDING ELECTRICALLY SENSITIVE EQUIPMENT;

25.5.13

FILLER PLATES COVERING UNUSED MOUNTING SPACE;

25.5.14

NON-AUTOMATIC AND AUTOMATIC MAIN BREAKER TO FUNCTION AS AN ISOLATING SWITCH, WHERE SHOWN AND AS REQUIRED;

25.5.15

GROUND FAULT CIRCUIT INTERRUPTING (GFCI) TYPE BREAKERS TO FEED DEVICES AS SCHEDULED AND FOR APPLICATIONS REQUIRED BY LOCAL GOVERNING CODES;

25.5.16

ARC FAULT CIRCUIT INTERRUPTER (AFCI) TYPE BREAKERS TO FEED DEVICES AS SCHEDULED AND FOR APPLICATIONS REQUIRED BY LOCAL GOVERNING CODES.

25.6

PANELS, DOORS AND TRIM ARE TO BE FACTORY PAINTED WITH ANSI GREY ENAMEL FINISH. RECESSED BACKBOXES (TUBS) NEED NOT BE FINISHED PAINTED.

25.7

EQUIP BREAKERS OF FRAME SIZE 225 AMPERES AND GREATER, WITH SOLID STATE ADJUSTABLE TRIP UNITS.

25.8

EQUIP CIRCUIT BREAKERS CONNECTED TO DEDICATED EQUIPMENT OR DEVICES WITH HANDLE LOCKS.

25.9

ACCEPTABLE MANUFACTURERS ARE:EATON (OUTLER-HAMMER), SCHNEIDER ELECTRIC (SQUARE D), SIEMENS ELECTRIC LTD OR APPROVED BY OWNER.

26.

GROUNDING

26.1

PROVIDE COMPLETE SYSTEM OF GROUNDING AND BONDING WHICH COMPLIES WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION FOR ELECTRICAL WORK, INCLUDE REQUIRED GROUNDING AND BONDING SECTIONS OF THE OESC. CONNECT GROUNDING CONDUCTORS TO EXISTING BUILDING GROUND SYSTEM. PROVIDE SEPARATE INSULATED GROUND WIRE FOR EACH ISOLATED GROUND CIRCUIT. BURIED OR IN SLAB GROUND CONNECTIONS SHALL BE MADE WITH ERICO CADWELD TYPE WELDED COPPER CONNECTIONS OR BURNDY HYGROUND COMPRESSION CONNECTORS.

26.2

PROVIDE BONDING TO THE FOLLOWING, BUT NOT LIMITED AS BELOW:

26.2.1

A. METALLIC STRUCTURES, SUCH AS COLUMNS, STAIRS AND RAILING, ETC.

26.2.2

B. MECHANICAL EQUIPMENT METAL ENCLOSURES, SUCH AS RTU, FAN, ETC.

26.2.3

C. ELECTRICAL ENCLOSURES

26.2.4

D. INTERNAL METALLIC BUILDING SYSTEMS SUCH AS CABLE TRAYS, MECHANICAL METALLIC PIPES, LIGHTING FIXTURES ETC. AS PER CODE REQUIREMENTS.

26.2.5

E. OTHER ITEMS AS PER CODE REQUIREMENTS.

26.3

GENERAL ELECTRICAL WORK TESTING

26.3.1

IN ADDITION TO TESTS REQUIRED BY GOVERNING AUTHORITIES AND REGULATIONS, TEST WORK TO ENSURE THERE ARE NO GROUNDS OR CROSSES. ENSURE DEVICES ARE COMMISSIONED AND OPERABLE. CONNECT CIRCUITS TO PANELBOARDS SO AS

TO BALANCE ACTUAL LOADS (WATTAGE) WITHIN 5%. IF REQUIRED, TRANSPOSE CIRCUITS WHEN WORK IS COMPLETE TO MEET THIS REQUIREMENT.

28.

PROVISIONS FOR MISCELLANEOUS SYSTEM ROUGH-INS

28.1

PROVIDE COMPLETE SYSTEM OF EMPTY CONDUITS, OUTLET BOXES, JUNCTION BOXES, FACEPLATES AND SLEEVES (IF REQUIRED) AND FIRE RETARDANT PLYWOOD BACKBOARD TO ACCOMMODATE FUTURE EXTENSION OF EXISTING SYSTEM BY SYSTEMS INSTALLERS WHO WILL PROVIDE EQUIPMENT AND WIRING. PROVIDE BLANK TYPE FACEPLATES.

28.2

PROVIDE CONDUIT WITH MINIMUM DIAMETER AS SHOWN. PROVIDE PULLBOXES IN CONDUIT RUNS LONGER THAN 100' (30 m) OR HAVING MORE THAN 2, 90 DEGREE BENDS. PULLBOX SIZES SHALL NOT BE LESS THAN 8 TIMES ENTERING CONDUIT IN LENGTH. LEAVE CONDUITS FREE AND CLEAR OF OBSTRUCTIONS AND TERMINATE AS SHOWN. EQUIP TERMINATIONS WITH BUSHINGS AND CLEARLY IDENTIFY EACH RUN. PROVIDE FISH WIRES IN EMPTY CONDUIT. FOR NETWORK CABLING SYSTEMS, BOXES, CONDUITS AND BENDING RADI SHALL CONFORM TO EIA/TIA 568B STANDARDS FOR INSTALLATION OF CAT. 6E/6 CABLING.

28.3

CONFIRM EXACT REQUIREMENTS AND LOCATIONS OF EQUIPMENT WITH OWNER AND SYSTEM INSTALLERS PRIOR TO ROUGHING-IN.

29.

LUMINAIRES

29.1

PROVIDE LUMINAIRES AS NOTED COMPLETE WITH ELECTRONIC BALLASTS. CONFIRM FINISHES WITH CONSULTANT PRIOR TO ORDERING. PROVIDE 18 LAMPS OF LOW LEAD AND LOW MERCURY CONTENT, WITH 2950 LUMENS INITIAL, 3500 K, COLOUR TEMPERATURE, AND MINIMUM CRI 85. INCLUDE LAMP LISTING IN LUMINAIRE MANUALS. FLUORESCENT BALLASTS SHALL BE ELECTRONIC ENERGY SAVING RAPID START BALLASTS AS FOLLOWS:

29.1.1

CSA APPROVED AND ULC LISTED AND LABELLED;

29.1.2

COMPLY WITH FCC RULES AND REGULATIONS, AND ANSI SPEC C62.41-1980/C62.45-1987;

29.1.3

IN ACCORDANCE WITH ANSI SPEC C82.11;

29.1.4

CLASS A SOUND RATING;

29.1.5

CAPABLE OF STARTING LAMPS DOWN TO 0 DEGREES C.;

29.1.6

TOTAL HARMONIC DISTORTION NOT EXCEEDING 10%;

29.1.7

MINIMUM POWER FACTOR OF 0.97 AND BALLAST FACTOR OF AT LEAST 0.88;

29.1.8

LAMP CURRENT CREST FACTOR NOT GREATER THAN 1.7;

29.1.9

FREQUENCY OF OPERATION BETWEEN 20 KHZ MINIMUM TO 60 KHZ MAXIMUM, BUT NOT BETWEEN 30 KHZ AND 42 KHZ; LAMPS SHALL OPERATE WITHOUT VISIBLE FLICKER;

29.1.10

EMI/RFI FILTERING;

29.1.11

NAMEPLATE IDENTIFYING ELECTRICAL DATA AND STANDARDS;

29.1.12

5-YEAR FULL REPLACEMENT PARTS AND LABOUR INCLUDING WARRANTY.

29.2

THOROUGHLY REVIEW CEILING TYPES, FINISHES AND CONSTRUCTION DETAILS WITH OWNER BEFORE PLACING LUMINAIRE ORDERS AND ENSURE REQUIRED MOUNTING ASSEMBLIES, RINGS AND SIMILAR FEATURES ARE INCLUDED. INCLUDE FOR ASSEMBLY, MOUNTING AND ADJUSTING OF LUMINAIRES, COMPLETE WITH WIRING, CONNECTIONS, HANGERS, ALIGNERS, BOX COVERS AND ACCESSORIES FOR COMPLETE, SAFE, FULLY OPERATIONAL ASSEMBLY. CAREFULLY COORDINATE LUMINAIRE INSTALLATION WITH WORK OF OTHER TRADES TO ENSURE NECESSARY RECESSING DEPTHS AND MOUNTING SPACES ARE PROVIDED. INSTALL LUMINAIRES IN ACCORDANCE WITH APPLICABLE ARCHITECTURAL REFLECTED CEILING PLANS AND/OR WALL ELEVATIONS. CONFIRM LUMINAIRE LOCATIONS PRIOR TO ROUGHING-IN. SUPPORT LUMINAIRES DIRECTLY TO CEILING SLAB STRUCTURE, NOT TO CEILING HANGERS, DUCTWORK, PIPING, CABLE

29.3

CONNECT LUMINAIRES TO CIRCUITS AND NEW AND/OR EXISTING LIGHTING CONTROL EQUIPMENT AS SHOWN. TRAYS, ETC.

29.4

ACCEPTABLE LAMP MANUFACTURERS ARE SYLVANIA, YORK, PEERLESS, PRESCOULTE, HALO, C&M, CAPRI, MIDDAY ETC.

30.

CLOSEOUT DOCUMENTS

30.1

FOLLOWING DOCUMENTS ARE TO BE PROVIDED:

30.1.1

AS-BUILT DRAWINGS COMPLETE WITH CAD FILE DRAWINGS; ENSURE MAIN BRANCH CONDUITS, JUNCTION BOXES, AND ASSOCIATED ARE SHOWN ON AS BUILT DRAWINGS.

30.1.2

APPROVED AND STAMPED SHOP DRAWINGS;

30.1.3

ESA INSPECTION CERTIFICATE;

30.1.4

MAINTENANCE MANUALS;

30.1.5

COPY OF PANEL BOARD SCHEDULES;

30.1.6

EMERGENCY LIGHTING TEST REPORT;

30.2

PROVIDE 3 SETS OF CLOSEOUT DOCUMENTS AFTER SUBSTANTIAL COMPLETION OF THE PROJECT.

PROJECT NORTH

DIV 28 SECURITY SPECIFICATIONS CONTINUATION

153. ACCESS CONTROL SYSTEM

154. THE ACCESS CONTROL SYSTEM SHALL BE AS DESCRIBED IN THIS SPECIFICATION AND ILLUSTRATED ON THE DRAWINGS.

155. N/A.

156. THE SYSTEM SHALL HAVE ONE OF THE FOLLOWING FUNCTIONS:

157. REGULATE AND MONITOR ACCESS AT SYSTEM CONTROLLED DOORS.

158. MONITOR CONNECTED DETECTORS (SUPERVISED AND AUXILIARY INPUTS) WITH THE ABILITY TO MANUALLY OR AUTOMATICALLY ARM AND DISARM THEM.

159. CONTROL EVENT INITIATED DEVICES CONNECTED TO SYSTEM OUTPUTS, SUCH AS ALARMS OR VIDEO RECORDERS, WITH THE ABILITY TO AUTOMATICALLY OR MANUALLY ARM OR DISARM THEM.

160. REPORT AN ALARM CONDITION.

161. ESTABLISH A HIERARCHY OF ALARM TYPES TO PRIORITIZE HANDLING ALARM CONDITIONS.

162. MAINTAIN A COMPREHENSIVE DATABASE RECORDING ALL SITE ACTIVITY.

163. PROVIDE ALL ACCESS CONTROL SYSTEM CONTROL PANELS AND ASSOCIATED EQUIPMENT, POWER SUPPLY, CABLING, CONNECTORS, ENCLOSURES, AND ALL OTHER HARDWARE AND SOFTWARE TO PROVIDE A FULLY OPERATIONAL SYSTEM.

164. THE ACCESS CONTROL SYSTEM SHALL BE COURE 9000 ENTERPRISE, HARTMANN CONTROL, KANTCH ENTRAPASS CORPORATE, KEYSKAN AURORA MODIFY AND OR LIST APPROVED ACCESS SYSTEM SOFTWARE

165. ALL COMPONENTS SHALL BE GOOD QUALITY COMMERCIAL GRADE.

166. CONTROLLER: LIST APPROVED DOOR AND INPUT/OUTPUT CONTROLLERS. COMPLETE WITH POWER SUPPLY.

167. CREDENTIAL READER: HID RP40, RP10 (FOR MULLION) AND RPK40.

168. CREDENTIALS: PROVIDE 100 HID ICCLASS® FOBS OR APPROVED EQUIVALENT FOR OWNERS USE.

169. MOTION REQUEST TO EXIT DEVICE: KANTECH T.REX–XL2–NL.

170. DOOR CONTACTS: FLUSH MOUNTED FOR STEEL AND WOOD DOORS SENTROL 1078.

171. PROVIDE CONTROLLER ENCLOSURES FOR ALL CONTROLLERS. ALL CONTROLLER ENCLOSURES SHALL BE A SINGLE KEY LOCKING METAL BOX. EQUIPPED WITH DOOR TAMPER SWITCH.

172. POWER SUPPLY: PROVIDE ALL POWER SUPPLIES AS REQUIRED TO FACILITATE COMPLETE TURNKEY SYSTEMS. POWER SUPPLIES SHALL INCLUDE UNINTERRUPTIBLE POWER SUPPLY BATTERY BACKUP TO SUSTAIN OPERATIONS OF ALL SYSTEMS AND RELATED DEVICES FOR MINIMUM 20 MINUTES AFTER POWER FAIL.

173. VIDEO SURVEILLANCE SYSTEM

174. THE NETWORK VIDEO MANAGEMENT SYSTEMS (NVMS) SYSTEM, CAMERAS AND ACCESSORIES SHALL PROVIDE REAL TIME SURVEILLANCE, RECORDING OF REAL TIME EVENTS AND HISTORICAL VIDEO DATA FOR VIDEO EVIDENCE OF A SECURITY EVENT; AND PROVIDE A DETERRENT THROUGHOUT THE FACILITY AND THE SITE AT DESIGNATED LOCATIONS AS REQUIRED IN THE CONTRACT DOCUMENT.

175. PROVIDE ALL SECURITY VIDEO CAMERAS, PAN/TILT/ZOOM (PTZ) CAMERAS, MOUNTS, HOUSINGS, POWER SUPPLY SYSTEMS, NETWORK CABLES, CONNECTORS, EQUIPMENT RACKS, MONITORS AND CONSOLES, COMPUTER CONTROLLED NETWORK SWITCHERS, WORKSTATIONS, NETWORK VIDEO RECORDERS, ENCODERS, DECODERS, DISPLAYS, AND ALL OTHER HARDWARE AND SOFTWARE TO PROVIDE A FULLY OPERATIONAL NVMS SYSTEM.

176. THE VIDEO SURVEILLANCE SYSTEM SERVER AND NETWORK VIDEO RECORDERS SHALL BE SIZED, EQUIPPED TO RECORD ALL VIDEO STREAMS FROM ALL VIDEO SURVEILLANCE CAMERAS AT MINIMUM 15 FRAMES PER SECOND AT 1080P RESOLUTION FOR 30 DAYS.

177. NETWORK VIDEO RECORDER: TRENDNET TV–NVR104 COMPLETE WITH 8 TERABYTE HARD DRIVE OR APPROVED EQUAL.

178. PROVIDE 1 VIDEO SURVEILLANCE SYSTEM CLIENT SOFTWARE AND LICENCE. COORDINATE WITH THE OWNER'S IT REPRESENTATIVE AND INSTALL THE CLIENT SOFTWARE AND LICENCE ON AN OWNER PROVIDED COMPUTER THAT IS CONNECTED TO THE CORPORATE DATA NETWORK. CONFIGURE THE CLIENT SOFTWARE TO VIEW VIDEO STREAMS FROM ALL VIDEO SURVEILLANCE SYSTEM CAMERAS AND VIEW RECORDED VIDEO STREAMS FROM THE NETWORK VIDEO RECORDER.

153. THAT IS CONNECTED TO THE CORPORATE DATA NETWORK. CONFIGURE THE CLIENT SOFTWARE TO VIEW VIDEO STREAMS FROM ALL VIDEO SURVEILLANCE SYSTEM CAMERAS AND VIEW RECORDED VIDEO STREAMS FROM THE NETWORK VIDEO RECORDER.

154. VSS CAMERA TYPE F1 – INDOOR FIXED CAMERA: AXIS 3MP DOME CAMERA OR APPROVED EQUAL.

155. 155. VSS CAMERA TYPE F2 – OUTDOOR FIXED CAMERA: AXIS 5MP DOME CAMERA OR APPROVED EQUAL.

5. SECURITY SYSTEMS INTEGRATION

a. THE ACCESS CONTROL AND INTERCOM SYSTEM SHALL BE INTEGRATED TO PROVIDE INTEGRATED FUNCTIONS AS DESCRIBED IN THIS SPECIFICATIONS DOCUMENT AND ON CONTRACT DRAWINGS.

b. ALL MASTER INTERCOM STATIONS SHALL BE INTEGRATED WITH ACCESS CONTROL SYSTEM TO FACILITATE ABILITY TO RELEASE MAIN DOOR VESTIBULE DOOR BY PRESSING INTEGRATED DOOR RELEASE BUTTON ON EACH MASTER INTERCOM.

c. ALL HARDWARE, CLIENT AND OR SEVER SOFTWARE; SOFTWARE LICENSES SHALL BE PROVIDED AND INSTALLED AND CONFIGURED ON ALL DEVICES TO PROVIDE INTEGRATED FUNCTIONS.

d. DATA SWITCH: 24–PORT, POE, 10/100/1000BASE–T GIGABIT, STACKABLE MANAGED SWITCH WITH 10GB SFP+ UPLINKS, POE POWER BUDGET TO POWER ALL CONNECTED DEVICES.

e. CENTRAL MONITORING STATION: DELL OPTIPLEX 5060 SFF PC – 8TH GEN INTEL CORE I7–8700 3.2GHZ, 8GB DDR4, 500GB HDD, UHD GRAPHICS 630, DVDRW, 1X USB–C, GIGE, WIN 10 PRO 64–BIT – MOD9T, COMPLETE WITH DUAL 21" LED MONITORS, KEYBOARD AND MOUSE.

f. KEYBOARD VIDEO MOUSE (KVM) SWITCH: TRIPLITE NETDIRECTOR 8–PORT 1U RACK–MOUNT CONSOLE HDMI KVM SWITCH WITH 17 IN. LCD AND IP REMOTE ACCESS, DUAL RAIL

6. EXECUTION:

1. ALL EQUIPMENT SHALL BE INSTALLED AND CONFIGURED IN ACCORDANCE WITH DEVICE AND SYSTEM MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS, AS PER THE OWNERS' REQUIREMENTS AND AS PER CONTRACT DRAWINGS AND SPECIFICATIONS.

2. COORDINATE THE EXACT MOUNT LOCATION OF ALL EQUIPMENT WITH THE ELECTRICAL CONTRACTOR TO ENSURE THAT ALL CONDUITS AND BACK BOXES ARE INSTALLED IN THE OPTIMAL LOCATIONS.

3. COORDINATE EXACT MOUNTING LOCATIONS OF ALL EQUIPMENT ON SITE WITH SECURITY ENGINEER'S REPRESENTATIVE AND OWNER.

4. SUPPLY AND INSTALL ALL EQUIPMENT WHERE INDICATED ON CONTRACT DRAWINGS AND DOCUMENTS AND AS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS.

5. ALL EQUIPMENT SHALL BE INTER–COMPATIBLE.

6. BUNDLE AND TIE WIRE AND CABLE WITH CABLE TIES.

7. SEPARATE HIGH VOLTAGE (120 VAC AND ABOVE) CABLES FROM LOW VOLTAGE CABLES WITHIN ENCLOSURES.

8. RUN WIRE AND CABLE CONTINUOUS FROM DEVICE LOCATION TO THE FINAL POINT OF TERMINATION. NO MID–RUN CABLE SPLICES WILL BE ALLOWED.

9. NEATLY ROUTE CABLES PARALLEL OR PERPENDICULAR TO BUILDING LINES.

10. PROVIDE J HOOKS AND OTHER CABLE SUPPORT SYSTEMS (SPACED AT REGULAR INTERVALS) WITHIN ACCESSIBLE CEILING SPACES. FASTEN CABLES TO THE CABLE SUPPORT SYSTEMS AND PROVIDE STRAIN RELIEF TO PROTECT CABLES AND ENSURE COMPLIANCE WITH REQUIRED CABLE BENDS.

11. SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT TO THE SECURITY ENGINEER'S REPRESENTATIVE FOR APPROVAL PRIOR TO PROCUREMENT AND INSTALLATION.

12. SUPPLY AND INSTALL POWER SUPPLIES AS REQUIRED FOR FULLY FUNCTIONAL SYSTEMS. POWER SUPPLIES SHALL INCLUDE BUT NOT LIMITED TO ALL CONTROLLER POWER SUPPLIES, ALL PERIPHERAL DEVICE POWER SUPPLIES. ALL POWER SUPPLIES SHALL BE INSTALLED TO MANUFACTURES RECOMMENDATIONS AND AS REQUIRED TO FURNISH FULLY FUNCTIONAL SYSTEMS.

13. THE SYSTEMS SHALL HAVE A MINIMUM OF CONTROL PRIMARY POWER AND BACKUP BATTERY. THE BATTERY SHALL BE ABLE TO SUPPORT THE SYSTEM AND DEVICES FOR 24 HOURS CONTINUOUS OPERATION. THE BATTERY INPUT, AUXILIARY, AND ALARM OUTPUTS SHALL BE PROTECTED USING PTC CIRCUIT BREAKERS. ALL OUTPUTS SHALL BE POWER LIMITED.

14. ALLOW FOR NEEDS ASSESSMENT SESSIONS WITH THE OWNER AND DETERMINE THE EXACT OWNER REQUIRED MODES OF OPERATION OF EACH DEVICE AND SYSTEM. CONFIGURE EACH CONFIGURE DEVICE AND SYSTEM TO SUIT THE OWNERS' REQUIREMENTS.

15. ALL EQUIPMENT SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE TO MEET ALL APPLICABLE CODES AND FACILITATE OBSERVATION AND TESTING. ALL EQUIPMENT SHALL BE SECURELY FASTENED WITH APPROPRIATE FITTINGS TO ENSURE POSITIVE GROUNDING AND BE FREE OF GROUND LOOPS.

16. PROVIDE AND INSTALL ALL SOFTWARE AND SOFTWARE LICENSES, HOUSINGS, MOUNTING BRACKETS AND ACCESSORIES FOR COMPLETE OPERATION OF ALL SYSTEMS.

17. COORDINATE THE EXACT MOUNT LOCATION OF DEVICES WITH THE ELECTRICAL CONTRACTOR TO ENSURE THAT ALL CONDUITS AND BACK BOXES ARE INSTALLED IN THE OPTIMAL LOCATIONS.

18. WARRANTY

a. PROVIDE WARRANTY FOR THE COMPLETED WORK TO BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF TWO YEARS FROM THE DATE OF SYSTEM ACCEPTANCE.

b. IF THE WORKMANSHIP OR MATERIALS IS FOUND TO BE DEFECTIVE OR NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS DURING THE WARRANTY PERIOD, THE CONTRACTOR SHALL CORRECT IT PROMPTLY WITH FACTORY CERTIFIED TECHNICIANS AT NO COST TO THE OWNER. ALL LABOUR AND MATERIALS SHALL BE PROVIDED BY THE CONTRACTOR.

CLIENT

MUNICIPALITY OF CASSELMAN

PROJECT NORTH

6	ISSUED FOR ADD-#E1	2025-04-14
5	ISSUED FOR TENDER	2025-03-24
4	ISSUED FOR PERMIT	2025-03-18
3	ISSUED FOR REVISED 99% REVIEW	2025-02-19
2	ISSUED FOR 99% COORDINATION	2023-06-13
1	ISSUED FOR 86% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.

ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.

DO NOT SCALE DRAWINGS.

PROFESSIONAL STAMP

EXP Services Inc.

T: 613.688.1899
100 – 2650 Queensview Drive
Ottawa, ON K2B 8H6
Canada

www.exp.com

• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •
• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

PROJECT

1 INDUSTRIEL STREET
OFFICE FIT-UP

DRAWING

ELECTRICAL
SPECIFICATIONS 4 OF 4

PROJECT No:	MRK-23002008-A0	REVISION:	
DRAWN:	KL	DATE:	MAY 2023
APPROVED:	DL	SCALE:	AS SHOWN

DRAWING No:

E-12



EXP Services Inc.

100-2650 Queensview Drive,
Ottawa, ON
K2B 8H6
Telephone: (613) 688-1899
Facsimile: (613) 225-7337
E-mail: ottawa@exp.com,
Web Site: www.exp.com

Mechanical Addendum No. M1

Reference: Tender Addendum M1

Issue Date: April 14, 2025

Project: 1 Industriel Street Office Fit-up, Casselman, ON.

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

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

Revisions / Clarifications

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

1. MECHANICAL DRAWINGS

1.1. DRAWING M-1 – MECHANICAL NOTES AND LEGENDS

1.1.1. Drawings list has been updated.

1.2. DRAWING M-6 – MECHANICAL GROUND FLOOR PLUMBING PLAN













1.2.1. New sheet for ground floor plumbing plan has been added.

----- END OF MECHANICAL ADDENDUM No. M1 -----

F	DEGREES FAHRENHEIT	MFR	MANUFACTURER
°C	DEGREES CELSIUS	MIN	MINIMUM
Ø	DIAMETER	MTD	MOUNTED
AD	ACCESS DOOR	N/A	NOT APPLICABLE
ADJ	ADJUSTABLE	NC	NORMALLY CLOSED OR NOISE CRITERIA
AF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AFG	ABOVE FINISHED GRADE	NO	NORMALLY OPEN OR NUMBER
BFF	BELOW FINISHED FLOOR	NOM	NOMINAL
BHP	BRAKE HORSEPOWER	NTS	NOT TO SCALE
BOD	BOTTOM OF DUCT	OB	OCTAVE BAND
BMS	BUILDING MANAGEMENT CONTROL SYSTEM	OC	ON CENTER
BOP	BOTTOM OF PIPE	OD	OUTSIDE DIAMETER
BTU	BRITISH THERMAL UNIT	OV	OUTLET VELOCITY
BTUH	BRITISH THERMAL UNIT PER HOUR	PD	PRESSURE DROP
CLG	CEILING	PH	PHASE
COL	COLUMN	POC	POINT OF CONNECTION
CUF	CUBIC FEET	POD	POINT OF DEMARCATION
DB	DRY BULB TEMPERATURE	POS	POSITION OR POSITIVE
DN	DOWN	PSG	POUNDS PER SQUARE INCH GAUGE
DP	DIFFERENTIAL PRESSURE	QTY	QUANTITY
DWG	DRAWING	RC	ROOM CRITERIA (NOISE)
EA	EACH	RET	RETURN
EFF	EFFICIENCY	REQD	REQUIRED
ELEV	ELEVATION	RH	RELATIVE HUMIDITY
ENT	ENTERING	RM	ROOM
EQUIP	EQUIPMENT	RPM	REVOLUTIONS PER MINUTE
EXH	EXHAUST	SCH	SCHEDULE
EXP	EXPANSION	SHT	SHEET
(E)	EXISTING	SPEC	SPECIFICATION
EXTRM	EXISTING TO BE REMOVED	SQ	SQUARE
ETR	EXISTING TO REMAIN	SQFT	SQUARE FEET
FA	FIRE ALARM	STD	STANDARD
FD	FLOOR DRAIN	SUP	SUPPLY
FLR	FLOOR	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	TO	TRANSFER OPENING
FT	FEET	TOD	TOP OF DUCT
FT/SEC	FEET PER SECOND	TON	TONS OF REFRIGERATION
GA	GAUGE	TOP	TOP OF PIPE
GAL	GALLONS	TPY	TYPICAL
GPH	GALLONS PER HOUR	UNO	UNLESS NOTED OTHERWISE
GPM	GALLONS PER MINUTE	UTR	UP THROUGH ROOF
HP	HORSEPOWER	V	VENT
HR	HOUR	VAV	VARIABLE AIR VOLUME
HZ	HERTZ	VEL	VELOCITY
ID	INSIDE DIAMETER	VFD	VARIABLE FREQUENCY DRIVE
IN	INCHES	VOL	VOLUME
KW	KILOWATT	VTR	VENT THROUGH ROOF
LB	POUND	W	WIDTH
LF	LINEAR FEET	W/	WITH
LVG	LEAVING	W/O	WITHOUT
MAX	MAXIMUM	WB	WET BULB TEMPERATURE
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR	WF	WIDE FLANGE
		WG	WATER GAUGE
MEZZ	MEZZANINE	WT	WEIGHT

PLUMBING SYMBOL LEGEND

	PIPING TURN DOWN OR DROP		WALL HYDRANT
	PIPING TURN UP OR RISE		UNION
	PIPING TEE DOWN OR DROP		FLOW SWITCH
	PIPING TEE UP OR RISE		PRESSURE SWITCH
	P-TRAP		EXPANSION JOINT
	GATE VALVE		AUTOMATIC AIR VENT
	CHECK VALVE		PRESSURE GAUGE WITH GAUGE COCK
	BALL VALVE		VALVE ON PIPING RISE OR DROP
	MIXING VALVE		TRAP PRIMER
	BUTTERFLY VALVE		THERMOMETER
	GLOBE VALVE		WATER HAMMER ARRESTOR
	PRESSURE REDUCING VALVE		DIRECTION OF FLOW
	BACKFLOW PREVENTER		SLOPE & DIRECTION OF FALL
	BALANCING VALVE		REDUCER OR INCREASER
	AUTOMATIC FLOW CONTROL VALVE		POINT OF CONNECTION
	TEMP. & PRESSURE RELIEF VALVE		POINT OF DEMARCATION
	PRESSURE RELIEF VALVE		DIAMETER
	MOTORIZED SHUT-OFF VALVE		SQUARE FEET
	SOLENOID VALVE		DRAIN RECEPTOR
	STRAINER		FLOOR DRAIN
	FLOOR CLEAN OUT		AREA DRAIN
	WALL CLEAN OUT		FLOOR SINK
	EXTERIOR CLEAN OUT		ROOF DRAIN
	CAPPED PIPE / CLEAN OUT		WATER METER
	FLEXIBLE CONNECTION (PIPE)		EXISTING
	HOSE BIBB		BY-PASS TERMINAL UNIT

TAGS & CALLOUTS		
	EQUIPMENT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	 REVISION CALLOUT
	EQUIPMENT NOT REQUIRING ELECTRICAL SERVICE. REFER TO SCHEDULES FOR PERFORMANCE REQUIREMENTS.	 KEYNOTE CALLOUT
	SECTION CALLOUT SECTION DESIGNATION SHEET NUMBER	 POINT OF CONNECTION
	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER	 POINT OF DEMARCATION
		 FURNISHED & INSTALLED BY ELECTRICAL
		 FURNISHED & INSTALLED BY MECHANICAL
		 FURNISHED AND INSTALLED BY PLUMBING
		 HEAT TRACE CIRCUIT START AND END HEAT TRACE CIRCUIT NUMBER

DRAWING LIST	
M-1	MECHANICAL NOTES AND LEGENDS
M-2	MECHANICAL SPECIFICATIONS
M-3	MECHANICAL SPECIFICATIONS
M-4	MECHANICAL SPECIFICATIONS
M-5	MECHANICAL SCHEDULES AND DETAILS
M-6	MECHANICAL – GROUND FLOOR – PLUMBING PLAN
M-7	MECHANICAL – SECOND FLOOR – PLUMBING & FIRE PROTECTION PLAN
M-8	MECHANICAL – SECOND FLOOR – HVAC PLAN
M-9	MECHANICAL – ROOF PLAN

CLIENT		
MUNICIPALITY OF CASSELMAN		
PROJECT NORTH		
5	ISSUED FOR ADD-M1	2025-04-14
4	ISSUED FOR TENDER	2025-03-24
3	ISSUED FOR PERMIT	2025-03-18
2	ISSUED FOR 99% COORDINATION	2025-02-24
1	ISSUED FOR 66% COORDINATION	2023-05-12
ISSUE	DESCRIPTION	DATE
<p>IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE AND PROMPTLY REPORT ALL ERRORS AND/OR OMISSIONS TO THE CONSULTANT BEFORE WORK COMMENCES.</p> <p>ALL WORK IS TO FOLLOW THE OBC 2012 AND ANY OTHER APPLICABLE CODES AND REGULATIONS.</p> <p>DO NOT SCALE DRAWINGS.</p>		
PROFESSIONAL STAMP		
<p>EXP Services Inc.</p> <p>T: 613.688.1899</p> <p>100 – 2650 Queensview Drive</p> <p>Ottawa, ON K2B 8H6</p> <p>Canada</p> <p>www.exp.com</p> <p>• BUILDINGS • EARTH & ENVIRONMENT • ENERGY •</p> <p>• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •</p>		
PROJECT		
1 INDUSTRIEL STREET OFFICE FIT-UP		
DRAWING		
MECHANICAL NOTES AND LEGENDS		
PROJECT No: MRK-23002008-A0		REVISION:
DRAWN: M. OMAR		DATE: JUNE 2023
APPROVED: B. BROWN		SCALE: AS SHOWN
DRAWING No:		
M-1		



1.	ALL CUTTING AND PATCHING OF FLOORS AND WALLS BY THIS CONTRACTOR.
2.	SUPPLY AND INSTALL PIPE SLEEVES FOR PIPES PASSING THROUGH EXISTING WALLS OR FLOORS.
3.	COORDINATE PIPE RUNS WITH SHEETMETAL AND ELECTRICAL DIVISIONS.
4.	ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED.
5.	ENSURE MATERIALS AND INSTALLATION ARE COMPLIANT WITH ONTARIO BUILDING CODE REQUIREMENTS.
6.	REFER TO DETAILS AND SPECIFICATIONS FOR EQUIPMENT & PIPING INSTALLATION REQUIREMENTS.

①	2" Ø CW DOWNSTREAM OF THE BUILDING MAIN WATER METER AND BACKFLOW PREVENTER. CONFIRM CONNECTION POINT ON SITE AND COORDINATE CONNECTION WITH EXISTING TENANTS.
②	PROVIDE FIRE STOPS AT THE WALL PENETRATIONS POINTS. REFER TO SPECIFICATIONS FOR DETAILS.

M-6

Municipality of Casselman Office Fit-Up
1 Industriel Street, Casselman, ON

ADDENDUM No. 2 to Drawings and Specifications
Job No. 22045
17/04/2025

The following additions, deletions, and revisions form part of the Contract Documents.

ARCHITECTURAL

- All Demountable Partition Systems must specify vertical mullions between glazing panels.

QUESTIONS AND ANSWERS

- Further clarification to question Q8: *We've reviewed the tender for the Municipality of Casselman New Townhall Office project and would like to submit DIRTТ as an alternate for the interior office fronts scope.*

Please find attached the DIRTТ specification sheets for the following systems for your review and consideration:

- *DIRTT Evil Twin Walls (Double Pane Acoustic Walls) -
<https://www.dirtt.com/products/double-pane-glass-walls/>*
- *DIRTT Solid Core Wood Doors -*

These solutions meet the performance requirements outlined in the tender under 10 22 19.54 DEMOUNTABLE PARTITIONS - POST AND PANEL, including STC ratings and laminated tempered glass.

Please let me know if the Architect is willing to get alternate bids as per the attached documents.

- A: The DIRTТ Evil Twin Walls (Double Pange Acoustic Walls) is considered an equivalent product, so long as the system is procured as per the following to achieve an STC 46:
 - Insulated aluminum frames around the perimeter
 - Laminate Glass with a 0.30" acoustical PVB. 2 Options:
 - 6mm laminated one side and 10mm laminated on the other side
 - 10mm laminated on both sides
 - **Vertical Mullions between glazing**
 - Solid core wood swing doors with a drop seal

-
- Doors to be standard height c/w glazed clerestory above

END OF ADDENDA No. 2

Municipality of Casselman Office Fit-Up
1 Industriel Street, Casselman, ON

ADDENDUM No. 3 to Drawings and Specifications
Job No. 22045
17/04/2025

The following additions, deletions, and revisions form part of the Contract Documents.

ELECTRICAL

DRAWING E-10 – ELECTRICAL SPECIFICATIONS 2 OF 4

- Remove Section 3.2 which states "Communications contractor to provide a unit price to supply & install one (1) RG-6 coaxial CMP cable c/w peripherals for complete connectivity, terminated, tested and labelled. Communications contractor to assume that cable lengths will be approximately 250 feet and that work will be done during regular hours.
- Remove Section 3.5 which states "Communications contractor shall provide a separate price to supply and install one hundred (100) additional cables. Communications contractor to assume that cable lengths will be approximately 250 feet. Locations to be determined on site with client".

QUESTIONS AND ANSWERS

- Further clarification to question Q29 in the Addendum #1: It is unclear if the cabling contractor or the electrical contractor are to carry cost for the cable tray, conduits and sleeves. As mentioned in the response, usually Division 26 (Electrical) carry the pricing for conduits and pathway. Can this be confirmed?
 - A: All rough-ins including cable tray, conduits, coring and sleeves for the IT/Security/AV systems are by Division 26 (Electrical contractor). The low voltage contractors shall coordinate with the Electrical contractor on the exact rough-in requirements on site. This updated answer suspends the previous response to Q29.
- Further clarification to question Q35 in the Addendum #1: After requesting Avigilon for a CCTV system substitute, we would like to request if a more affordable CCTV system could be considered? Is Uniview an accepted camera/NVR manufacturer?
 - A: No preference on manufacturer, and as long as VSS complies with commercial grade performance and quality standards. Other considerations are warranty and serviceability for further support. Final approval of products

will be based on the final shop drawing review. Any equal performance based specifications, warranty and certification products are acceptable as long as the performance, quality and warranty of manufacturers meet our specifications

END OF ADDENDA No. 3