A D D E N D U M # 4

Project	TA Blakelock High School Renovations	**Project No.**	2215-C
Location	1160 Rebecca Street, Oakville, ON	**Date of Issue**	2025 05 02
Owner	Halton District School Board	**File**	2215/7.1.3

This Addendum forms part of the Contract Documents and amends the original Drawings and Specifications, dated 2025 04 17, and all preceding Addenda, as noted below.

Ensure all parties submitting bids are aware of all items included in this Addendum. Read, interpret and coordinate the items contained herein with the Contract Documents and include all related costs as part of the Bid Price. Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the bidder to disqualification.

This Addendum consists of 4 pages plus noted attachments, including 22 full size drawings.

A4-1 00 01 03 PROJECT DIRECTORY

.1 Add Item 1.3.2.7 : Designated Substance Abatement Consultant (DS)

Pinchin Ltd

2360 Meadowpine Blvd, Unit # 2

Mississauga, ON L5N 6S2

Telephone:

A4-2 00 01 10 TABLE OF CONTENTS

.1 Add Item 02 82 13 : Asbestos Abatement

.2 Add Item 06 41 00 : Architectural Wood Casework

A4-3 02 82 13 ASBESTOS ABATEMENT

.1 New Spec section added

A4-4 05 50 00 METAL FABRICATIONS

.1 Add Item 1.3.3 in SHOP DRAWINGS: Shop Drawings, guards, railings and handrails must be stamped, signed and dated by fabricator's design engineer.

.2 Add Item 2.1.3 in DESIGN CRITERIA: Design metal guards, including balustrades, railings and handrails to CSA A500, resisting a uniform load of 0.75 kN/m and a lateral force of 1.0 kN at any point without damages or permanent set.

.3 Add 2.7 MANUFACTURED UNITS with Item .1 : Wall-Mounted Handrail Bar Brackets: Stainless steel; 75mm OD mounting plate with 3 countersunk holes for 6mm exposed fasteners; 62MM long radiused plate welded to bent metal bar for mounting bar handrail and complete with 2 pre-drilled holes; 81mm offset from wall

to center line of handrail bar; satin finish; eg. Model RB15030.4 by Wagner

.4 Add Item 2.5.11 : Fabricate metal guards, including balustrades, railings and handrails, to CSA A500

A4-5 06 41 00 ARCHITECTURAL WOOD CASEWORK

.1 New Spec section added

A4-6 09 30 00 TILING

.1 Add Item

A4-7 DRAWING A001 Site Plan, Key Plans, Fire Separations, OBC Matrix, Schedules

.1 Re-issued drawing with new Hollow Metal Door Type 'D' for '107 Drama Classroom'

.2 Added new '200mm SS Kick Plate' note for all Door Types

.3 Revised 107 Door Type to 'D' in Door Schedule

A4-8 DRAWING A100-D Key Plan, Floor Plans, Elevators – Demo

.1 Re-issued drawing for additional demo scope;

A4-9 DRAWING A100 Key Plan, Floor Plans, Elevators - New

.1 Re-issued drawing with revised wall layout and new millwork in Drama Rm. W107;

.2 Revised number of steps at new stair near Elevator 01;

.3 Revised wall layout at corner of Classroom W202;

.4 Relocated existing louver;

.5 Revised guardrail at Elevator 01;

.6 Roofing Types R1a and R2 added in Legend;

.7 Partition Type PW5 modified;

.8 Fire-rated Horizontal Shaft Assembly reference added to Fire Protection Schedule.

A4-10 DRAWING A100A Roof Plans

.1 Re-issued drawing with revised R1, R2 roof notes

.2 New R1a roof assembly noted

.3 Revised location of CU1

.4 Added CU2 and revised R2 reroofing outline to suit

A4-11 DRAWING A101 Library Washrooms

.1 Re-issued drawing with additional notes

A4-12 DRAWING A102-D RCP ELEVATORS – DEMO

.1 Re-issued drawing to identify existing light fixtures to be removed and stored.

A4-13 DRAWING A102 RCP ELEVATORS – NEW

.1 Re-issued drawing to identify existing light fixtures to be reinstated.

A4-14 DRAWING A103 Floor Finish Plans and Room Finish Notes

.1 Re-issued drawing with revised floor finish outlines in Level 2 as highlighted

A4-15 DRAWING A104 Sections – New Wall Sections

.1 Re-issued drawing with new section no. 5 and 6 for Elevator 1 with relevant section detail tags.

A4-16 DRAWING A107 Section Details

.1 Re-issued drawing with revised section detail no. 8 and 9 with new wall type

.2 New section detail no. 18 added.

A4-17 DRAWING A108 Interior Elevations & Millwork Details

.1 New drawing added.

A4-18 STRUCTURAL

.1 See attached Structural Addendum No. 1, dated April 28, 2025, prepared by Kalos Engineering.

.2 See attached Structural Addendum No. 2, dated May 02, 2025, prepared by Kalos Engineering.

A4-19 MECHANICAL

.1 See attached Mechanical Addendum No. 2 prepared by EXP Services Inc.

A4-20 AVAILABLE PROJECT INFORMATION

.1 Added: Abatement Report titled ‘Hazardous Building Material Assessment (Pre-construction)’ dated April 25, 2025, as prepared by Pinchin Ltd.

.2 Added: Abatement Specifications – T.A. Blakelock High School Renovation dated April 25, 2025, Pinchin File No. 352316.006.

A4-21 BIDDERS QUESTIONS

.1 Q. Please clarify if Agreement to Bond is required for mechanical trade.

A. Agreement to Bond is not required by mechanical or any sub-trades.

END OF ADDENDUM #4

PART 1 GENERAL

1.1 General and Related Work

.1 Read this Section in conjunction with all drawings and all other Sections so as to comply with the requirements of the General Conditions of the Contract.

.2 Related work specified elsewhere:

.1	Section 02 82 00.01	Asbestos Abatement – Type 1 Procedures
.2	Section 02 82 00.02	Asbestos Abatement – Type 2 Procedures
.3	Section 02 82 00.04	Asbestos Abatement – Type 2 Glove Bag Method
.4	Section 02 83 10	Lead Abatement – Class 1 Procedures
.5	Section 02 83 11	Lead Abatement – Class 2 Procedures
.6	Section 02 84 00	Non-Liquid Polychlorinated Biphenyl Abatement

.3 Site Conditions identifies all known hazardous building materials within the Project Area. The information provided is for general reference only. Each Contractor must confirm existing conditions on site prior to tender close.

.1 The specification fulfils the requirements of Section 30 of the Ontario Occupational Health and Safety Act.

.2 The specification fulfils the requirements of the Section 10 of Ontario Regulation 278/05.

.4 The Outline of Work identifies the location, condition and quantities of hazardous building materials to be removed as part of this project.

.1 It is the intent that work prescribed this Section will result in the removal of all hazardous materials as outlined and the decontamination of all surfaces or materials which may have been or become contaminated by hazardous materials either during or prior to work of this Contract.

1.2 Site Conditions

.1 Refer to the report entitled “Hazardous Building Materials Assessment (Pre-construction), 1160 Rebecca Street, Oakville, Ontario”, dated April 25, 2025, prepared by Pinchin Ltd., file number 352316.004.

1.3 Outline of Work

.1 Coordinate the following items with the Owner's Project Manager and the Construction Manager, which are to be included in the Abatement Contractor's scope of work, including but not limited to: electrical isolations, GFI connection, water connections, HVAC and exhaust ventilation system isolation, bin placement, schedule, disconnects, etc.

.2 Refer to the Contract Drawings for the extent of construction work, Work Areas, phasing and schedule.

.3 Install Hoarding Walls between Abatement Work Areas and Occupied Areas as required.

.4 Using Type 1 procedures prescribed in the Section identified in Related Work, perform the following work:

.1 Remove and dispose of elevator breaks where scheduled for demolition.

.2 Remove and dispose of all non-asbestos and asbestos-containing caulking at flashing on the Roofs where scheduled to be removed and or where it may be disturbed by demolition and or new elevator installations.

.3 Remove and dispose of non-asbestos ceiling tiles with presumed asbestos-containing mastic where walls are scheduled from demolition on Level 2.

.4 Remove and dispose of chalkboards/tackboards and associated presumed asbestos-containing mastic where scheduled to be removed.

.5 Remove and dispose of presumed asbestos-containing roofing as required and or where it may be disturbed for openings including but not limited to new roof ducting/venting and elevators. Removal is to be done using non powered hand tools.

.1 Include removal and disposal of all tar from decking. Where removal of the tar is not feasible, remove and dispose of the decking as asbestos waste.

.2 Use Type 2 asbestos procedures, as outlined in Section 02 82 00.02, if removal is done using power tools equipped with HEPA filtered dust collection devices.

.5 Using Type 2 procedures (with full enclosure) prescribed in the Section identified in Related Work, remove and dispose of the following work:

.1 Asbestos-containing drywall where scheduled for removal.

.2 Remnants of asbestos-containing ceiling tile and associated mastic.

.6 Using Glove-Bag procedures prescribed in the Section identified in Related Work, remove and dispose of asbestos-contingent pipe insulation where scheduled to be removed, as required for mechanical tie-ins, and/or where discovered during demolition present above solid ceilings, in shafts and chases. Allow for removal and disposal of 100 fittings.

.1 If for reasons of pipe geometry or access, Glove Bag procedures cannot be used, remove and dispose of asbestos-containing insulations as per Section 02 82 11 for less than 1 square meter, or following Type 3 procedures in accordance with Ontario Regulation 278/05 for greater than 1 square meter.

.7 Remove and dispose of lighting with mercury lights and PCB ballasts where lights are scheduled for removal.

.8 Follow lead procedures prescribed in the Sections identified in Related Work, when removing and or disturbing materials with lead containing paint.

.9 Follow silica procedures prescribed in the MOL Silica on Construction Projects Guidelines when disturbing silica-containing materials.

.10 Refer to Specification Sections identified in the Related Work for specified personnel protective measures for the safe handling, removal, clean-up, enclosure, or repair of hazardous materials in each phase or work area.

.11 Visit the site prior to tender close to confirm the location and extent of any hazardous building materials or materials contaminated by hazardous materials.

.12 Protect surfaces, building fabrics and items remaining within the Abatement Work Area.

.13 Without disturbing hazardous materials, perform removals where required, prior to abatement work.

.1 Maximize waste diversion by use of resale of building materials, or recycling.

.14 Isolate the Abatement Work Area from adjoining Occupied and Non-Occupied Areas whether present at an interior or exterior location.

.15 Maintain emergency and fire exits from Abatement Work Area, or establish alternative exits satisfactory to Provincial Fire Marshall and local authorities having jurisdiction. Maintain extra routes from occupied areas. Place emergency exit signs at locations to clearly mark exit route. Seal emergency exit doors so as not to impede use of door during emergency evacuation.

.16 Remove, clean, store and replace at completion of work, non-operating mechanical and electrical equipment, ducts, building components, materials or items removed to accommodate asbestos removal.

.17 Perform selective demolition of mechanical and electrical equipment, building components, materials and items scheduled for demolition at locations required to facilitate asbestos removal. Refer to all Contract Documents for responsibility of demolition work and disposal.

.18 Remove and dispose of as appropriate waste, building components, materials and items contaminated by hazardous materials that cannot be effectively cleaned.

.19 Encapsulate remaining hazardous materials at locations where removal is deemed impractical by the Abatement Consultant.

.20 Encapsulation will not be permitted where removal of building materials or structures scheduled for demolition will facilitate access to the asbestos materials in question.

.21 Final clean work area to remove visible signs of asbestos and other hazardous materials, other debris or settled dust.

.22 Apply lock-down agent to exposed surfaces throughout the work area and to surfaces from which any hazardous materials have been removed.

.1 Do not apply lock-down to materials which would be damaged by its application.

.23 Unless otherwise specified, the handling, removal, clean-up or repair of hazardous materials or surfaces contaminated with hazardous materials is to be performed following wet removal techniques.

1.4 Schedule

.1 Provide necessary manpower, supervision, equipment and materials to maintain and complete the project on schedule.

.2 Work Hours:

.1 Coordinate all work, scheduling and phasing with the Owner.

.2 Duration for which HVAC systems may remain shutdown to accommodate quiet hours work will vary in accordance with outside weather conditions and internal demand. Duration of quiet hours work will have to be scheduled accordingly and in consultation with the Abatement Consultant and Owner.

.3 Provide 48 hours written notice to the Abatement Consultant of any request to work outside normal working hours. Obtain written approval before proceeding.

1.5 Definitions

.1 Abatement Consultant: Owner's Representative providing inspection and air monitoring.

.2 Abatement Contractor: Contractor or sub-contractor performing work of this section.

.3 Abatement Work Area: Area where work takes place which will, or may, disturb hazardous materials.

.4 Amended Water: Water with wetting agent added for the purpose of reducing surface tension to allow thorough wetting of materials.

.5 Asbestos: Any of the fibrous silicates defined in Regulation 278/05 including: actinolite, amosite, anthophyllite, chrysotile, crocidolite and tremolite.

.6 Asbestos-Containing Material (ACM): Material identified under Site Conditions including any debris, overspray, fallen material and settled dust.

.7 Authorized Visitors: Building Owner, Abatement Consultant, or designated representative, and persons representing regulatory agencies.

.8 Competent Worker: A worker who is qualified because of knowledge, training and experience to perform the work, is familiar with Regulation 278/05 and the Occupational Health and Safety Act, and has knowledge of the potential or actual danger to health and safety in the work.

.9 Contaminated Waste: Material identified under Site Conditions, including fallen material, settled dust, other debris and materials or equipment deemed to be contaminated by the Abatement Consultant.

.10 Curtained Doorway: Doorway consisting of two (2) overlapping flaps of rip-proof polyethylene arranged to permit ingress and egress from one room to another while permitting minimal air movement between rooms.

.11 DOP Test: A testing method used to determine the integrity of the Negative Pressure unit or vacuum using a Dispersed Oil Particulate (DOP) or Poly Alpha Olefin (PAO) HEPA filter leak test. This test is to be conducted on site where units are to be installed. Refer to the Environmental Abatement Council of Canada (EACC) DOP/PAO Testing Guideline 2013 or ANSI/ASME N510-2007.

.12 Fitting: Individual segments or pieces of a mechanical service line which may include but is not limited to the hangers, tees, elbows, joints, valves, unions, etc.

.13 Friable Material: Material that when dry can be crumbled, pulverized or powdered by hand pressure and includes such material that is crumbled, pulverized or powdered.

.14 HEPA: High Efficiency Particulate Aerosol filter that is at least 99.97 percent efficient in collecting a 0.3 micrometre aerosol.

.15 Lead-Containing: The Ontario Ministry of Labour (MOL) has not established a lower limit for concentrations of lead in paint, below which precautions do not need to be considered during construction projects. Pinchin follows the recommendations of the Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair. The Guideline suggests that 0.1% (1,000 ppm) lead in paint represents a de minimis concentration of lead in paint for construction hygiene purposes, that is a concentration below which the lead content is not the limiting hazard in any disturbance of leaded paint for non-aggressive disturbance of painted finishes, (hand powered demolition, chipping, scraping, light sanding, etc.).

.16 Lead Waste: Waste generated from removal of lead-containing materials, or the substrate and paint finish where left intact.

.17 Milestone Inspection: Inspection of the Abatement Work Area at a defined point in the abatement operation.

.18 Negative Pressure: A reduced pressure within the Abatement Work Area (> 0.02 inches of water column) established by extracting air directly from Abatement Work Area and discharging it to exterior of building.

.19 Non-Friable Material: Material that when dry cannot be crumbled, pulverized or powdered by hand pressure.

.20 Occupied Area: Any area of the building or adjoining space outside the Abatement Work Area.

.21 Personnel: All Contractor's employees, sub-contractors employees, supervisors.

.22 PCB Material: means solid material containing PCBs at a concentration of more than fifty milligrams per kilogram (mg/kg) or 50 parts per million (ppm), or liquid with greater than 2 mg/kg or ppm.

.23 PCB Waste: PCB Equipment, PCB Material, PCB Liquids and materials or items contaminated with PCBs.

.24 PCM: Phase Contrast Microscopy.

.25 Remove: Remove means remove and dispose of (as applicable type of waste) unless followed by other instruction (e.g. remove and turn over to Owner).

.26 TEM: Transmission Electron Microscopy.

1.6 Regulations and Guidelines

.1 Comply with Provincial, and local requirements, provided that in any case of conflict among those requirements or with these Specifications, the more stringent requirements shall apply. Work shall be performed under regulations in effect at the time work is performed.

.2 Where regulations are not present, follow accepted industry standards and applicable Guideline documents.

.3 Regulations include but are not limited to the following:

.1 Ministry of Labour Occupational Health and Safety Act Regulations for Construction Projects including Revised Statutes of Ontario 1990, Chapter 0.1 and Ontario Regulation 278/05.

.2 Ministry of the Environment and Climate Change Regulation for the disposal of waste, including R.R.O. 1990, Reg. 347 as amended.

.3 PCB Regulations, SOR 2008-273 and R.R.O. 1990, Reg 362.

.4 Regulation 490/09 Designated Substances.

.5 Environmental Abatement Council of Ontario (EACO), Lead Guideline For Construction, Renovation, Maintenance or Repair, October 2014.

.6 Ministry of Labour, Guideline, Silica on Construction Projects, 2011.

1.7 Quality Assurance

.1 Removal and handling of hazardous materials is to be performed by persons trained in the methods, procedures and industry practices for Abatement.

.2 Ensure work proceeds to schedule, meeting all requirements of this Specification.

.3 Complete work so that at no time airborne dust, visible debris, or water runoff contaminate areas outside the Abatement Work Area.

.4 Any contamination of surrounding area (indicated by visual inspection or air monitoring) shall necessitate the clean-up of affected area, and in the same manner applicable to an Abatement Work Area at no cost to the Owner.

.5 All work involving electrical, mechanical, carpentry, glazing, etc., shall be performed by licensed persons experienced and qualified for the work required.

1.8 Supervision

.1 Provide on site for each work shift, a Shift Superintendent(s), who has authority regarding all aspects related to manpower, equipment and production.

.2 Supervisory personnel must hold a recognized certificate proving attendance at an asbestos removal training course (2 day minimum duration) and have performed supervisory functions on at least five (5) other asbestos abatement projects of similar size and complexity.

.3 At all times during work, the Shift Superintendent(s) must be on site. Failure to comply with this requirement will result in a stoppage of all work, at no cost to the Owner.

.4 Replace supervisory personnel, with approved replacements, within three (3) working days of a written request from the Owner. Owner reserves the right to request replacement of supervisory personnel without explanation.

.5 Do not replace supervisory personnel without written approval from the Owner.

1.9 Instruction and Training

.1 Instruction and training must be provided by a competent person.

.2 All workers completing Type 1, 2 or 3 asbestos abatement must be trained in compliance with Section 19 of O.Reg. 278/05.

.1 For Type 3 asbestos abatement, workers must be trained and certified per Section 20 of O.Reg. 278/05.

.3 All workers completing lead, silica, or PCB work must be trained to perform the work.

1.10 Notification

.1 Before commencing work, notify orally and in writing, an inspector at the office of the Ontario MLITSD nearest the project site, where required.

.2 Inform all trades on site of the presence and location of hazardous materials identified in the Contract documents.

.3 Notify the Owner or Owner's Representative, the Joint Occupational Health and Safety Committee and the Provincial Ministry of Labour, if suspected asbestos-containing materials not identified in the contract documents are discovered during the course of the work. Stop work in these areas immediately.

.4 Notify Sanitary Landfill site as per O.Reg. 347/90 as amended.

1.11 Submittals

.1 Submit prior to starting work:

.1 Workplace Safety and Insurance Board Clearance Certificate.

.2 Insurance certificates.

.3 Copy of Company Health and Safety Policy and applicable programs.

.4 Ontario MLITSD Notice of Project form and/or Notice of Asbestos Removal Work Form.

.5 Copy of Certificate of Approval for disposal of hazardous materials waste and location of landfill.

.6 Pre-removal damage survey of the Abatement Work Area(s), waste transport routes, and bin storage areas.

.2 Submit the following information regarding personnel prior to starting work:

.1 Proof in the form of a certificate that supervisory personnel have attended a training course on asbestos removal or are certified as supervisors as an Asbestos Abatement Supervisor (AAS) under the Ministry of Training, Colleges and Universities.

.2 Proof in the form of a certificate that workers have been certified under the Ministry of Training, Colleges and Universities course 253W.

.3 Proof in the form of a certificate that supervisory personnel have attended a training course on asbestos removal or are certified as supervisors under the Ministry of Training, Colleges and Universities course 253S.

.4 Written statement that personnel have had instruction on hazards of exposure to hazardous materials identified within this scope, the use of respirator, protective clothing, worker and waste decontamination procedures, and all aspects of work procedures and protective measures.

.5 WHMIS training certificates for all personnel.

.6 Certificate proving that each worker on site has been fit tested for the respirator appropriate for the work being performed.

.1

.3 Submit the following information regarding HEPA filtered devices prior to construction of enclosure or asbestos abatement:

.1 Performance data on HEPA filtered vacuums including DOP tests no more than 3 months old.

.2 Performance data on negative air units including DOP tests which must be no more than 3 months old if the unit is vented outdoors or which must be performed on site immediately prior to initial usage and when HEPA filters are changed if the unit is vented indoors.

.3 DOP tests to be performed by an independent testing company.

.1 DOP testing company is required to submit a detailed technical report of testing protocol, including Introduction, Methodology, Results, Conclusions, and Recommendations, including results of the Air-Aerosol Mixing Uniformity test as per ASME N510-1989 (1995).

.2 DOP testing company must also provide calibration certificates from an independent calibration firm or from the manufacturer of the testing equipment for both the aerosol photometer and the pressure gauge on the aerosol generator dated within 1 calendar year from the on-site testing date.

.3 DOP testing company must also provide the National Sanitation Foundation (NSF) certification name and number of the on-site technician performing the testing.

.4 Proof of calibration of DOP testing equipment.

.4 Submit the following prior to isolating the work area:

.1 Safety Data Sheets for chemicals or material used in the course of the Abatement Project.

.5 Submit the following upon completion of the work.

.1 Manifests, waybills, bills of ladings etc. as applicable for each type of waste.

1.12 Insurance

.1 Maintain a Commercial General Liability Policy with an insurance company acceptable to the Halton District School Board and the General Contractor. The intent of this policy is to hold the Halton District School Board and the General Contractor harmless as it relates to claims for Bodily Injury or Property Damage or both, relating to the contract. Commercial General Liability insurance shall be provided on an "occurrence" basis to cover injury or damage (whether detected or not during the policy period) which happens during the policy period.

.2 Maintain an Automobile or Fleet Policy, and Non-owned Automobile Policy with an insurance company acceptable to the Halton District School Board and the General Contractor. The intent of these policies is to hold the Halton District School Board and the General Contractor harmless as it relates to claims for Bodily Injury or Property Damage or both, relating to the contract.

.3 Maintain a Pollution Liability Policy (or asbestos/lead liability policy or specific coverage under the CGL for asbestos/lead abatement) with an insurance company acceptable to the Halton District School Board and the General Contractor. The intent of this policy is to hold the Halton District School Board and the General Contractor harmless as it relates to claims for Bodily Injury or Property Damage or both, relating to the contract. Pollution Liability shall be provided on an "occurrence" basis to cover injury or damage (whether detected or not during the policy period) which happens during the policy period. Without limiting the generality of the foregoing, the policy shall insure the operations of abatement and shall not contain any environmental and/or health hazard exclusions relating to remediation operations.

.4 Forward all certificates to the Halton District School Board and the General Contractor before work is commenced, showing the Halton District School Board and the General Contractor as additional insured as their interest may appear.

.5 the Halton District School Board and the General Contractor may request a certified true copy of the policies.

.6 The limits will not be less than:

.1	Commercial General Liability	$5,000,000.00
.2	Automobile	$2,000,000.00
.3	Pollution Policy	$5,000,000.00

1.13 Inspection

.1 From commencement of work until completion of clean-up operations, the Abatement Consultant is empowered by the Owner to inspect for compliance with the requirements of governing authorities, adherence to specified procedures and materials, and to inspect for final cleanliness and completion.

.2 The Abatement Consultant is empowered by the Owner to order a shutdown of work when leakage of asbestos from the controlled work area has occurred or is likely to occur.

.3 Any deviation from the requirements of the Specifications or governing authorities that is not approved in writing may result in a stoppage of work, at no cost to the Owner.

.4 Additional labour or materials expended by the Contractor to rectify unsatisfactory conditions and to provide performance to the level specified shall be at no additional cost to the Owner.

.5 Inspection and air monitoring performed as a result of Contractor's failure to perform satisfactorily regarding quality, safety, or schedule, shall be back-charged to the Contractor.

.6 Facilitate inspection and provide access as necessary. Make good work disturbed by inspection and testing at no cost to the Owner.

.7 Refer to the Sections identified in Related Work for specified milestone inspections which are to take place at defined points throughout the abatement operation specific to each phase or work area.

.8 Provide 24 hours written notice to the Abatement Consultant of any request for scheduling of milestone inspections or transportation of waste through Occupied Areas.

.9 The following Milestone Inspections may take place, at the Owner's cost, as outlined in each related specification:

.1 Milestone Inspection - Clean Site Preparation

.1 Inspection of preparations and set-up prior to contaminated work in the Abatement Work Area.

.2 Milestone Inspection – Bulk Removal Inspection

.1 Inspection during asbestos removal, monitoring removal methods, site deficiencies, performing occupied air monitoring, etc.

.3 Milestone Inspection - Visual Clearance

.1 Inspection of Abatement Work Area after completion of all abatement, but prior to application of lock-down agents or dismantling of enclosure.

.4 Milestone Inspection – Clearance Sampling

.1 Air monitoring performed following removal of asbestos and application of slow drying sealer to ensure fibre levels inside the Type 3 enclosure(s) are within the acceptable limits. The number of samples to be collected and analysed are based on the requirements of O.Reg. 278/05.

.10 Refer to the Sections identified in Related Work for specified milestone inspections which are to take place at defined points throughout the abatement operation specific to each phase or work area.

.11 Do not proceed with next phase of work until written approval of each milestone is received from the Abatement Consultant.

1.14 Air Monitoring - Asbestos

.1 Air monitoring will be performed using Phase Contrast Microscopy (PCM) following the National Institute for Occupational Safety and Health Method 7400.

.2 Co-operate in the collection of air samples, including providing workers to wear sample pumps for up to full-shift periods. Contractor will be responsible for the cost of testing equipment repairs or resampling resulting from the actions of the Contractor's forces.

.3 Results of PCM samples at or exceeding 0.05 fibres per cubic centimeter of air (fibre/cc) or greater, outside an Abatement Work Area, or from within the Abatement Work Area during or following Glove Bag Work, will indicate asbestos contamination of these areas. Respond as follows:

.1 Suspend work within the adjoining Abatement Work Area until written authorization to resume work has been received from the Abatement Consultant.

.2 Isolate and clean area in the same manner applicable to the Abatement Work Area.

.3 Maintain work area isolation, and repeat clean-up operations until visual inspection and air monitoring results are at a level equal to that specified.

.4 At the discretion of the Abatement Consultant provide additional negative air units at locations specified in response to elevated fibre levels being detected in the Clean Change Room or Occupied Areas.

.4 Results of PCM samples at or greater than 0.01 fibres per cubic centimeter of air (fibre/cc), collected within the Abatement Work Area enclosure after the site has passed a visual inspection, and an acceptable coat of lock-down agent has been applied, will indicate asbestos contamination of these areas. Respond as follows:

.1 Maintain work area isolation and re-clean entire work area. Then apply another acceptable coat of lock-down agent to exposed surfaces throughout the work area.

.2 Repeat above measures until visually inspected and air monitoring results are at a level equal to that specified

.3 Alternate to items above, the Asbestos Abatement Contractor can pay for analysis of PCM samples by Transmission Electron Microscopy (TEM) at NVLAP accredited laboratory.

.1 Enclosure to remain sealed, with negative pressure maintained, and subject to required daily inspections until TEM results are received.

.5 Additional labour or materials expended by the Contractor to rectify unsatisfactory conditions and to provide performance to the level specified shall be at no additional cost to the Owner.

.6 Cost of additional inspection and sampling performed as a result of elevated fibre levels in areas outside the Abatement Work Area or from within the work area following completion of work, will be back-charged to the Contractor.

1.15 Worker Protection

.1 Instruct workers before allowing entry to the Abatement Work Area. Instruction shall include training in use of respirators, dress, showering, entry and exiting from an Abatement Work Area, and all other aspects of work procedures and protective measures.

.2 Workers shall not eat, drink, chew gum or tobacco, vape or smoke in the Abatement Work Area.

.3 Workers shall be fully protected at all times when possibility of disturbance of hazardous materials exists.

.4 Provide soap, towels and facilities for washing of hands and face, which shall be used by all personnel when leaving the Abatement Work Area.

.5 Respiratory Protection

.1 Refer to each particular Section of the Specification for specified type of respiratory equipment specific to each phase or work area.

.2 Respirators shall be:

.1 Certified by the National Institute of Occupational Safety and Health (NIOSH) or other testing agency acceptable to the Ministry of Labour.
.2 Fitted so that there is an effective seal between the respirator and the worker's face. Ensure that no person required to enter an Abatement Work Area has facial hair which affects the seal between respirator and face.
.3 Assigned to a worker for their exclusive use.
.4 Maintained in accordance with manufacturer's specifications.
.5 Cleaned, disinfected and inspected by a competent person after use on each shift, or more often if required.
.6 Repaired or have damaged or deteriorated parts replaced.
.7 Stored in a clean and sanitary location.
.8 Provided with new filters as necessary, according to manufacturer's instructions.
.9 Worn by personnel who have been fit checked by qualitative or quantitative fit-testing.
.10 Instruction on proper use of respirators must be provided by a competent person as defined by the Occupational Health and Safety Act.

.3 Provide protective clothing, to all personnel which:

.1 Is made of a material that does not readily retain nor permit penetration of asbestos fibres or lead/silica dust.
.2 Consists of head covering and full body covering that fits snugly at the ankles, wrists and neck.
.3 Once coveralls are worn, treat and dispose of as contaminated waste.
.4 Is replaced or repaired if torn or ripped.

.4 Use hard hats, safety footwear and other protective equipment and apparel required by applicable construction safety regulations.

1.16 Visitor Protection

.1 Provide clean protective clothing and equipment to Authorized Visitors.

.2 Instruct Authorized Visitors in the use of protective clothing and Abatement Work Area entry and exit procedures.

.3 Authorized visitors are required to be fit tested on respirators, prior to entering Abatement Work Area.

.1 Respirator worn must be compliant with Section 13 and Table 2 of O.Reg. 278/05.

1.17 Signage

.1 Asbestos Abatement Signs: Post signs at access points to the Abatement Work Area, stating at minimum, the following:

.1 There is an asbestos dust hazard.

.2 Access to the work area is restricted to persons wearing protective clothing and equipment.

.2 Lead Abatement Signs: Post signs at access points to the Abatement Work Area, stating at minimum, the following:

.1 There is a lead dust, fume or mist hazard.

.2 Access to the work area is restricted to authorized persons.

.3 Respirators must be worn in the work area.

.3 Silica Warning Signs: Post signs at access points to the Abatement Work Area, stating at minimum, the following:

.1 There is a silica dust hazard.

.2 Access to the work area is restricted to authorized persons.

.3 Respirators must be worn in the work area.

.4 Vehicles, Bins and Asbestos Waste Containers: Post signs on both sides of every vehicle used for the transportation of asbestos waste and on every asbestos waste container. Signs must display thereon in large, easily legible letters that contrast in colour with the background the word “CAUTION” in letters not less than ten centimetres in height and the words:

.1 CONTAINS ASBESTOS FIBRES

.2 Avoid Creating Dust and Spillage

.3 Asbestos May be Harmful To Your Health

.4 Wear Approved Protective Equipment.

.5 Place placards in accordance with Transportation of Dangerous Goods Act.

1.18 Differential Pressure Monitoring

.1 Provide and install differential pressure monitors as specified in each section.

.2 Replace damaged or non-functional equipment at the request of the Abatement Consultant.

.3 Record at minimum twice daily, and when damage to the enclosure is identified and repaired, the following information:

.1 Name of inspector.
.2 Date and time.
.3 Pressure reading.
.4 Repairs completed, if applicable.

.4 Maintain specified differential pressure.

.5 Stop contaminated work and take corrective action if pressure differential drops below the specified level. Notify the Abatement Consultant immediately.

1.19 Waste and Material Handling

.1 Waste bins must be placed on grade or in receiving.

.2 All bins for hazardous materials must be covered and locked when waste transfer is not being performed.

.3 Ensure redundant non-ACM, rubble, debris, etc. removed during contaminated work are treated, packaged, transported and disposed of as appropriate waste.

.4 Clean, wash and apply Post Removal Sealant to metal waste prior to removal from Abatement Work Area. Recycle metals.

.5 Clean, wash and apply Post Removal Sealant to non-porous materials prior to disposal as clean waste. Obtain prior written approval from the Abatement Consultant for each individual type of material.

.6 Clean and wash equipment prior to removal from Abatement Work Area if removed prior to completion.

.7 Place all equipment, tools and unused materials that cannot be cleaned in Abatement Waste Containers.

.8 As work progresses, and at regular intervals, transport the sealed and labelled waste containers from the Abatement Work Area to waste bin.

.9 Place items in bins according to waste classification. Place asbestos waste, lead waste, metals, non-asbestos waste, etc. in separate bins.

.10 Removal of waste containers and decontaminated tools and materials from the Abatement Work Area shall be performed as follows:

.1 Remove any visible contamination from the surface of non-porous or cleanable waste being removed from the Abatement Work Area. If the item can be cleaned, remove it from the site as clean waste.

.2 Place waste or item in Waste Container and seal closed.

.3 Wet wipe outside of Waste Container.

.4 Within Decontamination Facility, Transfer Room or at the perimeter of the Abatement Work Area, place in second Waste Container. Seal closed.

.5 Remove waste containers and transport to appropriate bin.

.11 Transport waste and materials via the predetermined routes and exits. Arrange waste transfer route with Owner. Use a closed, covered cart to transport through Occupied Areas.

.12 Provide workers transporting waste with means to access full personal protective equipment and all tools required to properly clean up spilled material in the case of a rupture of a Waste Container.

.13 Pick-up and drop off of garbage bin shall be at pre-approved times, and must not interfere with the Owners operations.

.14 Transport hazardous waste to landfill or waste transfer station licensed by the provincial Ministry of the Environment.

.15 Cooperate with the provincial Ministry of the Environment inspectors and immediately carry out instructions for remedial work at dump to maintain environment, at no additional cost to the Owner.

1.20 Re-establishment of Objects and Systems

.1 Re-establish objects and items relocated by the Contractor's workforce to facilitate work.

.2 Re-establish electrical, communication, HVAC and other services previously disconnected or otherwise isolated to accommodate work by this Section.

.3 Make good at completion of work, all damage not identified in pre-removal survey.

PART 2 PRODUCTS AND FACILITIES

2.1 Materials and Equipment

.1 Refer to the Sections identified in Related Work for specified materials, equipment or facilities specific to each phase or work area.

.2 Materials and equipment must be in good condition and free of debris and fibrous materials. Disposable items must be of new materials only.

.3 Airless Sprayer: AC powered pressure washer that allows wetting agent to mix with water, uses no air or compressed air, and has a nozzle to regulate power and pressure.

.4 Amended Water: Water with wetting agent added for purpose of reducing surface tension to allow thorough wetting of materials.

.5 Asbestos Waste Container: A container acceptable to disposal site, Ministry of the Environment, and Ministry of Labour, comprised of the following:

.1 Dust tight.

.2 Suitable for the type of waste.

.3 Impervious to asbestos.

.4 Identified as asbestos waste.

.6 Differential Pressure Monitor: a high precision instrument for measuring and controlling pressure differences in the low range, between the Abatement Work Area and Occupied Area. Calibrate regularly to manufacturer's instructions.

.7 Discharge Ducting: Polyethylene Tubing. Reinforced with wire. Diameter to equal negative pressure machine discharge. Not to be longer than required, or so long that negative pressure is compromised.

.8 Ground Fault Panel: Electrical panel as follows:

.1 Ground fault circuit interrupters of sufficient capacity to power temporary electrical equipment and lights in Asbestos Work Area.

.2 Interrupters to have a 5 mA ground fault protection.

.3 Necessary accessories including main switch disconnect, ground fault interrupter lights, test switch to ensure unit is working, and reset switch.

.4 Openings sealed to prevent moisture or dust penetration.

.5 Inspected by the Electrical Safety Authority.

.6 Panel uses CSA approved parts and been constructed, inspected and installed by a licensed electrician.

.7 Provide one Ground Fault Panel for each 5,000 square feet (500 square metres) of Abatement Work Area.

.9 HEPA Filtered Negative Pressure Machine: Portable air handling system which extracts air directly from the Abatement Work Area and discharges the air to the exterior of the building. Equipped as follows:

.1 Prefilter and HEPA filter. Air must pass HEPA filter before discharge.

.2 Pressure differential gauge to monitor filter loading.

.3 Auto shut off and warning system for HEPA filter failure.

.4 Separate hold down clamps to retain HEPA filter in place during change of prefilter.

.10 HEPA Vacuum: Vacuum with necessary fittings, tools and attachments. Discharged air must pass through a HEPA filter.

.11 Hose: Leak-proof, minimum busting strength of 500 PSI or greater if required, abrasion resistant covering, reinforcing, and machined-brass couplings. Maintained and tested. Hose to be temperature resistant if it is to carry domestic hot water.

.12 Lead Waste Container: An impermeable container acceptable to disposal site and Ministry of the Environment, that is:

.1 Dust tight.

.2 Suitable for the type of waste.

.3 Evaluated for leachable lead content, and disposed of in accordance with applicable regulations.

.1 Where lead waste exceeds 5.0 mg/L of lead in the TCLP analysis, label as lead waste and dispose of as leachate toxic hazardous waste.

.2 Where lead waste is below 5.0 mg/L of lead in the TCLP analysis, disposed of as construction waste.

.13 OSB: Oriented Strand Board.

.14 Polyethylene Sheeting: 6 mil (0.15 mm) minimum thickness unless otherwise specified, in sheet size to minimize joints.: 6 mil (0.15 mm) minimum thickness unless otherwise specified, in sheet size to minimize joints.

.15 Post Removal Sealant (or Lockdown): Sealant that when applied to surfaces serves the function of trapping residual asbestos fibres or other dust. Product must have flame spread and smoke development ratings both less than 50. Product shall leave no stain when dry. Post Removal Sealant shall be compatible with replacement insulation or fireproofing where required and capable of withstanding service temperature of substrate. Apply to manufacturer's instructions.

.16 Protective Clothing: Disposable coveralls complete with head covering and full body covering that fits snugly at the ankles, wrists and neck.

.17 Rip-Proof Polyethylene Sheeting: 8 mil (0.20 mm) fabric made up from 5 mil (0.13 mm) weave and two (2) layers of 1.5 mil (0.05 mm) poly laminate or approved equal. In sheet size to minimize on-site seams and overlaps.

.18 Shower Hose: Water lines for supply of hot & cold water to shower facilities to be rated for use at 200 PSI (1380 kPa) or twice the working pressure whichever is greater. Supply lines to be continuous and free of fittings, joints or couplings.

.19 Sprayer: Garden type portable manual sprayer or water hose with spray attachment if suitable.

.20 Tape: Duct tape or tape suitable for sealing polyethylene to surfaces under both dry and wet conditions in the presence of Amended Water.

.21 Wetting Agent: Non-sudsing surfactant added to water to reduce surface tension and increase wetting ability.

PART 3 EXECUTION

.1 Refer to the Sections identified in Related Work for specified procedures for work area preparation, maintenance, site dismantlement, application of lock-down agent and all other procedures for the safe handling, removal and clean-up of hazardous materials specific to each phase or work area.

END OF SECTION

PART 1 GENERAL

1.1 General and Related Work

.1 Read this Section in conjunction with all drawings and all other Sections so as to comply with the requirements of the General Conditions of the Contract.

.2 Requirements specified elsewhere:

.1 Section 02 81 00 Hazardous Materials – General Provisions

1.2 Outline of Work

.1 Refer to Section 02 81 00 Hazardous Materials – General Provisions for the Outline of Work.

.2 The intent of this Section is to provide safe work practices and procedures to govern the handling, removal, clean-up and disposal of asbestos-containing materials following Type 1 or Low Risk procedures, and Pinchin and Owner specific requirements.

1.3 Personal Protection

.1 Protect all personnel at all times when possibility of disturbance of ACM exists.

.1 Provide non-powered half-face respirators with P100 high efficiency (HEPA) cartridge filters when requested by personnel.

.2 When requested by personnel, provide protective clothing.

.2 Provide protective clothing, to all personnel entering the Abatement Work Area.

.3 Wear hard hats, safety shoes and other personal protective equipment required by applicable construction safety regulations.

1.4 Inspections

.1 Refer to Section 02 81 00 – General Provisions.

.2 The following Milestone Inspections are to be scheduled:

.1 Milestone Inspection - Clean Site Preparation

.2 Milestone Inspection – Bulk Removal Inspection

.3 Milestone Inspection - Visual Clearance

PART 2 PRODUCTS AND FACILITIES

.1 Refer to Section 02 81 00.

PART 3 EXECUTION

3.1 Site Preparation

.1 Remove stored or non-fixed items from the Abatement Work Area including but not limited to equipment, furniture, waste etc. Store in area provided by Owner.

.2 Moving of equipment, tools, supplies, and stored materials that can be performed without disturbing ACM will be performed by others.

.3 Remove visible dust and friable material from all surfaces in the work area including those to be worked on, using HEPA Vacuums or wet wiping.

.4 Install one layer of polyethylene sheeting on walls, floors, finishes, millwork, electrical equipment, equipment and furnishings remaining in the Abatement Work Area.

.5 Install one layer of rip-proofing polyethylene sheeting over one layer of polyethylene sheeting on walls, floors, finishes, millwork, electrical equipment, equipment and furnishings remaining in the Abatement Work Area.

.6 Install polyethylene drop sheets below areas of work.

.7 Install polyethylene sheeting on openings in walls and floors (as required) and seal.

.8 Install signage in clearly visible locations and in sufficient numbers to adequately warn of an asbestos dust hazard.

.9 Isolate, at panel, and disconnect existing power supply to Abatement Work Area. Power supply to remaining areas of building must not be disrupted during work of this section.

.1 Lock-out/tag-out power at electrical panels.

.2 Mark/tag any items within or passing through the Abatement Work Area that are to remain live including but not limited to cable, conduit, wire, fixtures, equipment panels, etc.

.10 Provide power from ground fault interrupt circuits.

.11 Shut down HVAC systems serving the Abatement Work Area.

.1 Install polyethylene sheeting over openings in ducts and diffusers and seal.

.2 HVAC to remaining areas of building must not be disrupted during work of this section.

.3 System shall remain inoperative until completion of work, unless ducts can be effectively capped.

.4 Perform work at scheduled times after shutting down HVAC systems affecting the Abatement Work Area.

.12 Provide amended water for wetting ACM, and adequate method of wetting (garden sprayers, airless sprayers, etc).

.13 Without disturbing asbestos-containing materials, remove and dispose of non-hazardous materials as clean waste prior to asbestos removal work, where possible.

3.2 Maintenance of Abatement Work Area

.1 Inspect polyethylene sheeting and ensure it is effectively sealed and taped. Repair damage and remedy defects immediately.

.2 Inspect electrical panels and ensure locks and tags are on panels prior to entering the Abatement Work Area.

.3 Maintain Abatement Work Area in tidy condition.

.4 Remove any standing water on polyethylene/floor at the end of every shift.

.5 Turn off water supply to any hoses and reduce pressure in hose, prior to leaving the Abatement Work Area at end of shift.

3.3 Asbestos Removal - General

.1 Do not use powered tools or non-hand held tools.

.2 Do not use compressed air to clean or remove dust or debris.

.3 Do not break, cut, drill, abrade, grind, sand or vibrate ACM if it cannot be wetted. Type 2 procedures would be required if the material cannot be wetted due to hazard or damage.

.4 Wet ACM prior to work and keep ACM wet throughout the removal process.

.5 Frequently and at regular intervals during the work, clean up dust and waste using HEPA vacuums and/or wet sweeping or mopping.

.6 Frequently and at regular intervals, place all waste in asbestos waste containers.

.7 Immediately upon completion of work, clean area with HEPA vacuum and/or wet sweeping or mopping.

3.4 Asbestos Removal - Vinyl Asbestos Tile

.1 Wedge a heavy duty scraper in seam of two adjoining tiles and gradually force edge of one tile up and away from floor. Do not break off pieces of tile, but continue to force balance of tile up.

.2 Place tile, without breaking into smaller pieces, into Asbestos Waste Container.

.3 Force scraper through tightly adhered areas by striking scraper handle with a hammer.

.4 Heat tile thoroughly with a hot air gun until heat penetrates through tile and softens adhesive in areas where scraper will not remove tile.

.5 Deposit waste into asbestos waste disposal bag.

.6 HEPA vacuum floor on completion of work in area.

3.5 Asbestos Removal –Removal of Caulking and Putty

.1 Wet all material to be disturbed.

.2 Undo fasteners if necessary to remove material.

.3 Break material only if unavoidable, and wet material if broken during work.

.4 Use only non-powered hand-held tools to remove ACM.

.5 Scrape to remove material adhered to substrate.

.6 Place removed ACM directly into an asbestos waste container.

3.6 Asbestos Removal – Mastics and Chalkboards/Tackboards

.1 Wet all material to be disturbed.

.2 Undo fasteners if necessary to remove material.

.3 Break material only if unavoidable, and wet material if broken during work.

.4 Use only non-powered hand-held tools to remove ACM.

.5 Scrape to remove material adhered to substrate.

.6 Place removed ACM directly into an asbestos waste container.

3.7 Asbestos Removal - Removal of Other Non-Friable Asbestos Materials – Breaks, Roofing Materials

.1 Wet all material to be disturbed.

.2 Undo fasteners if necessary to remove material.

.3 Break material only if unavoidable, and wet material if broken during work.

.4 Use only non-powered hand-held tools to remove ACM.

.5 Scrape to remove material adhered to substrate.

.6 Place removed ACM directly into an asbestos waste container.

3.8 Abatement Work Area Dismantling

.1 Wash or HEPA vacuum equipment and tools used in contaminated Abatement Work Area to remove all asbestos contamination, or place in Asbestos Waste Containers prior to being removed from Abatement Work Area.

.2 Place tools and equipment used in contaminated work site but not cleaned in polyethylene bags prior to removal from Abatement Work Area.

.3 Clean polyethylene sheeting and drop sheets which with HEPA vacuum or wet cleaning methods at completion of work.

.4 Wet drop sheets and polyethylene sheeting.

.5 Carefully roll polyethylene sheeting and drop sheets toward the centre. As polyethylene is rolled away, immediately remove visible debris beneath with a HEPA vacuum.

.6 Remove remaining polyethylene sheeting and tape.

.7 Place polyethylene sheeting, drop sheets, tape, disposal clothing and other contaminated waste in asbestos waste containers, wet wipe and place in second asbestos waste container.

3.9 Waste and Material Handling

.1 Refer to Section 02 81 00.

END OF SECTION

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PART 1 GENERAL

1.1 General and Related Work

.1 Read this Section in conjunction with all drawings and all other Sections so as to comply with the requirements of the General Conditions of the Contract.

.2 Requirements specified elsewhere:

.1 Section 02 81 00 Hazardous Materials – General Provisions

1.2 Outline of Work

.1 Refer to Section 02 81 00 Hazardous Materials – General Provisions for the Outline of Work.

.2 The intent of this Section is to provide safe work practices and procedures to govern the handling, removal, clean-up and disposal of asbestos-containing materials following Type 2 or Moderate Risk procedures, and Pinchin and Owner specific requirements.

1.3 Personal Protection

.1 Protect all personnel at all times when possibility of disturbance of ACM exists.

.2 Provide the following minimum respiratory protection to all personnel:

.1 Full face respirators with P100 high efficiency (HEPA) cartridge filters, for:

.1 Removal of all or part of a ceiling if asbestos is likely lying on the surface.

.2 Use of a HEPA filtered power tool on non-friable ACM if the material is not wetted.

.2 Non-powered half-face respirators with P100 high efficiency (HEPA) cartridge filters.

.3 Provide protective clothing, to all personnel entering the Abatement Work Area.

.4 Wear hard hats, safety shoes and other personal protective equipment required by applicable construction safety regulations.

1.4 Inspections

.1 Refer to Section 02 81 00 – General Provisions.

.2 The following Milestone Inspections are to be scheduled:

.1 Milestone Inspection - Clean Site Preparation

.2 Milestone Inspection – Bulk Removal Inspection

.3 Milestone Inspection - Visual Clearance

PART 2 PRODUCTS AND FACILITIES

.1 Refer to Section 02 81 00.

2.2 Hoarding Walls

.1 Type A Hoarding Wall: One layer of rip-proof polyethylene sheeting installed floor to ceiling, secured with telescopic poles, clips, or other suitable methods.

.2 Windows: Install sufficient transparent windows area in hoarding walls to allow observation of entire work area from outside the enclosure where existing solid walls do not make up the perimeter.

2.3 Transfer Room

.1 Transfer Room to be generally 2000 mm x 2000 mm x 2200 mm high. Increase size accordingly to accommodate number of workers.

.2 Install walls as follows:

.1 Install 38 x 89 mm wood framing at 610 mm o/c with continuous top and sill plates.

.2 Install one layer rip-proof polyethylene sheeting on interior walls of Transfer Room.

.3 Install one layer of rip-proof polyethylene sheeting over one layer of 6 mil polyethylene sheeting beneath entire Transfer Room.

.4 Install one layer rip-proof polyethylene sheeting over roof.

.5 Turn 600 mm of polyethylene down the sides over polyethylene on the perimeter walls.

.6 Install a fire extinguisher, mount to wall.

2.4 Curtained Doorways

.1 Construct as follows:

.1 Install two flap doors, full width and height of door opening at all doors to Abatement Work Area and both ends of Transfer Room.

.2 Construct each flap door of two layers of polyethylene sheeting with all edges reinforced with tape. Use wood strapping to securely fasten flap doors to head and alternate jambs.

.3 Install weights attached to bottom edge of each door flap.

.4 Provide direction arrows on flaps to indicate opening.

PART 3 EXECUTION

3.1 Site Preparation - General

.1 Remove stored or non-fixed items from the Abatement Work Area including but not limited to equipment, furniture, waste etc. Store in area provided by Owner.

.2 Moving of equipment, tools, supplies, and stored materials that can be performed without disturbing ACM will be performed by others.

.3 Remove visible dust and friable material from all surfaces in the work area including those to be worked on, using HEPA Vacuums or wet wiping.

.4 Isolate, at panel, and disconnect existing power supply to Abatement Work Area. Power supply to remaining areas of building must not be disrupted during work of this section.

.1 Lock-out/tag-out power at electrical panels.

.2 Mark/tag any items within or passing through the Abatement Work Area that are to remain live including but not limited to cable, conduit, wire, fixtures, equipment panels, etc.

.5 Provide power from ground fault interrupt circuits.

.6 Shut down HVAC systems serving the Abatement Work Area.

.1 Install polyethylene sheeting over openings in ducts and diffusers and seal.

.2 HVAC to remaining areas of building must not be disrupted during work of this section.

.3 System shall remain inoperative until completion of work, unless ducts can be effectively capped.

.4 Perform work at scheduled times after shutting down HVAC systems affecting the Abatement Work Area.

.7 Provide amended water for wetting ACM, and adequate method of wetting (garden sprayers, airless sprayers, etc).

3.2 Site Preparation –Enclosure Required

.1 Install polyethylene enclosure complete with Windows at Abatement Work Areas for the work identified in Section 02 81 00 – General Provisions.

.2 Install Transfer Room where duration of work is to last longer than one 8 hour shift.

.3 Seal openings in floor using tape, polyethylene, etc. Floor openings are to be sealed independently prior to installation of floor polyethylene.

.4 Install polyethylene sheeting on floors of Abatement Work Area. Use sufficient layers to provide adequate protection for carpeting and equipment.

.1 Minimum requirement over carpet is one layer of 6 mil polyethylene under one layer of rip-proof polyethylene.

.2 Cover floors first so that polyethylene on walls is overlapped by at least 305 mm.

.5 Construct Hoarding Walls between Abatement Work Area perimeter and occupied areas.

.6 Install polyethylene sheeting at openings in walls (as required) and seal.

.7 Install 6 mil polyethylene sheeting on walls within the Abatement Work Area., including existing walls that make up, or are within, the Abatement Work Area.

.8 Provide a completely sealed polyethylene top for free standing enclosures.

.9 Extend to underside of ceiling system, enclosures for access into ceilings. Enclosure may be supported from the ceiling system if ceiling can support the polyethylene.

.10 Install Curtained Doorways.

.11 Install one layer of 6 mil polyethylene sheeting so as to protect all equipment and finishes in the Abatement Work Area that may be damaged. Items to remain include but are not limited to:

.1 Millwork.

.2 Doors.

.3 Bulkheads.

.4 Toilet Partitions.

.5 Plumbing Fixtures.

.6 Electrical Equipment.

.7 Mechanical Equipment.

.12 Install temporary lighting in enclosure to a level that will provide for safe and efficient use of work area - minimum 550 LUX.

.13 Establish negative pressure in Abatement Work Areas as follows:

.1 Provide sufficient HEPA filtered negative pressure machines to exchange a volume of air equivalent to that of the Abatement Work Area a minimum of every 20 minutes.

.2 Provide additional HEPA filtered negative pressure machines as required to ensure air flow from Occupied Area into Abatement Work Area.

.3 Arrange negative air units to maximize the distance between units and decontamination facilities.

.4 Provide weighted flaps in perimeter Hoarding Walls as necessary to provide make-up air.

.5 Operate HEPA filtered negative pressure machines continuously from first disturbance of ACM until completion of dismantling.

.6 Replace prefilters to maintain specified flow rate.

.7 Replace HEPA filter as required to maintain flow rate and integrity of unit.

.8 Discharge HEPA filtered negative air machines as follows:

.1 To building exterior.

.1 Remove existing glazing where necessary and replace with a 19 mm plywood panel.

.2 Install panel securely in window frame so that it cannot be pushed into the building and make weather-tight with caulking.

.3 For each negative pressure unit, provide a 300 mm diameter, screened, duct opening through panel.

.4 Direct discharge away from building access points.

.5 Reinstall glazing to match existing upon completion of work.

.2 Into Occupied Areas as required.

.1 Install and make airtight all negative air discharge ducting.

.2 Use metal reinforced polyethylene discharge ducting in locations where the ducting must be protected from damage or collapse.

.14 Place required tools to complete the abatement with the Abatement Work Area.

.15 Install Signage in clearly visible locations and in sufficient numbers to adequately warn of an asbestos dust hazard.

3.3 Maintenance of Abatement Work Area

.1 Inspect polyethylene sheeting and ensure it is effectively sealed and taped. Repair damage and remedy defects immediately.

.2 Inspect electrical panels and ensure locks and tags are on panels prior to entering the Abatement Work Area.

.3 Inspect HEPA filtered negative pressure machines including discharge ducting at the beginning and end of each working period. Inspection must be performed by competent person.

.4 Maintain Abatement Work Area in tidy condition.

.5 Remove standing water on polyethylene/floor at the end of every shift.

.6 Turn off water supply to any hoses and reduce pressure in hose, prior to leaving the Abatement Work Area at end of shift.

3.4 Asbestos Removal - General

.1 Do not use compressed air to clean or remove dust or debris.

.2 Frequently and at regular intervals during the work, clean up dust and waste using HEPA vacuums and/or wet sweeping or mopping.

.3 Frequently and at regular intervals, place all waste in asbestos waste containers.

.4 Immediately upon completion of work, clean area with HEPA vacuum and/or wet sweeping or mopping.

3.5 Asbestos Removal – Thermal Systems Insulation (less than 1 Square Metre)

.1 Construct an enclosure around Abatement Work Area and use the procedures described above under *Site Preparation –Enclosure Required*.

.2 Adequately wet exterior of the ACM with amended water to suppress dust.

.3 Remove asbestos-containing mechanical insulations in layers, maintaining all exposed surfaces of insulation in a wet condition.

.4 Remove wetted ACM directly into waste containers. Do not allow ACM to fall to the floor of the Abatement Work Area.

.5 Clean all surfaces from which ACM has been removed with scouring pads, vacuuming or wet-sponging to remove all visible material after completion of removal of ACM.

.6 Remove visible dust and debris.

.7 Seal exposed ends of asbestos-containing insulation to remain, with canvas and lagging.

.8 HEPA vacuum or wet clean entire Abatement Work Area, including any surfaces not covered with polyethylene sheeting. Any materials removed to access ACM that are to be re-used, and any abatement equipment, must be wet cleaned or HEPA vacuumed prior to completion.

.9 Apply Post Removal Sealant to all surfaces within the Abatement Work Area including those from which ACM has been removed.

3.1 Asbestos Removal –Ceiling Tiles

.1 Use the procedures described above under *Site Preparation – Enclosure Required*.

.2 Slightly lift first tile, HEPA vacuum the ceiling grid the perimeter of tile.

.3 Lift tile vertically, and while keeping level, slide tile over to adjacent tile.

.4 HEPA vacuum back of all tiles within reach.

.5 Mist surface of ceiling tiles with amended water.

.6 Remove ceiling tiles intact. Do not break or pulverize.

.7 Carefully remove laminated tiles by prying tile from substrate. Do not break tiles or allow to fall to floor.

.8 Remove all glue from substrate.

.9 Place directly into asbestos waste container.

.10 Repeat items .3 to .6, until all required ceiling tiles are removed.

.11 Place ACM directly into waste containers.

.12 Remove visible dust and debris including at grid.

.13 Do not damage or remove grid.

.14 Remove ceiling grid and support system and dispose of as clean waste where specified to be removed.

.15 Remove drywall substrate and support system and dispose of as clean waste where specified to be removed.

.16 Wet clean or HEPA vacuum the entire Abatement Work Area, including surfaces not covered with polyethylene sheeting (i.e. ceiling grid).

.17 Any materials or equipment removed to access ACM that are to be reused, must be wet cleaned or vacuumed prior to reinstatement.

3.2 Asbestos Removal - Drywall with Asbestos Drywall Joint Compound

.1 Use the procedures described above under *Site Preparation –Enclosure Required*.

.2 Protect drywall around area to be removed by covering with polyethylene and taping seams to wall.

.3 Cut drywall and remove using non-powered hand-held tools. Place directly into polyethylene waste bag, or sealed container until at waste bin.

.4 Remove all screws and fasteners in studs or strapping.

.5 Remove studs and strapping where specified. Clean metal studs and remove from Abatement Work Area.

.6 Wet clean or HEPA vacuum the entire Abatement Work Area, including surfaces not covered with polyethylene sheeting. Any materials or equipment removed to access ACM that are to be reused, must be wet cleaned or vacuumed prior to reinstatement.

3.3 Application of Post Removal Sealant

.1 Apply one coat of Post Removal Sealant with an airless sprayer, in accordance with Manufacturer's Instructions, to cover all surfaces on all items in the Abatement Work Area, including but not limited to polyethylene, ACM substrate, structural steel, and surfaces scheduled for demolition.

.2 Do not apply post removal sealant to materials that will be damaged by its application.

3.4 Abatement Work Area Dismantling

.1 Wash or HEPA vacuum equipment and tools used in contaminated Abatement Work Area to remove all asbestos contamination, or place in Asbestos Waste Containers prior to being removed from Abatement Work Area.

.2 Place tools and equipment used in contaminated work site but not cleaned in polyethylene bags prior to removal from Abatement Work Area.

.3 Clean polyethylene sheeting and drop sheets which with HEPA vacuum or wet cleaning methods at completion of work.

.4 Wet drop sheets and polyethylene sheeting.

.5 Carefully roll polyethylene sheeting and drop sheets toward the centre of enclosure. As polyethylene is rolled away, immediately remove visible debris beneath with a HEPA vacuum.

.6 Remove remaining polyethylene sheeting and tape, and dispose of as asbestos waste.

.7 Place polyethylene sheeting, drop sheets, tape, disposal clothing and other contaminated

waste in asbestos waste containers, wet wipe and place in second asbestos waste container.

.8 Remove remaining site isolation, seals, tape, etc.

.9 Remove Transfer Room.

.10 Remove seals, tape, Signage etc.

.11 Immediately upon shutting down negative air units, seal air inlet grill and exhaust vent with polyethylene and tape.

.12 Seal openings in HEPA vacuums.

.13 Remove and dispose of the pre-filters from HEPA filtered negative pressure machines as asbestos waste.

.14 Remove HEPA filtered negative pressure machines and discharge ducting or HEPA vacuums.

.15 Remove temporary lights.

.16 Remove ground fault panels.

.17 Place contaminated materials including polyethylene sheeting, drop sheets, seals, tape, disposable coveralls, and other contaminated waste in asbestos waste containers.

3.5 Waste and Material Handling

.1 Refer to Section 02 81 00.

3.6 Re-Establishment of Items

.1 Upon completion of work:

.1 Move items that were removed from Abatement Work Area prior to work, back into same location within Abatement Work Area.

.2 Remove and disconnect Ground fault Panel, tags and locks from electrical panels and re-energize equipment and items.

.3 Remove hose bibs installed and repair pipe.

.4 Remove negative air discharge panel and reinstall glazing to match existing.

.5 Reinstall ducts removed to perform cleaning of ducts or to access ACM.

.6 Clean, mop and vacuum Abatement Work Area and area beneath any tunnels, platform and Decontamination Facilities.

.7 Enable building air handling systems.

END OF SECTION

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PART 1 GENERAL

1.1 General and Related Work

.1 Read this Section in conjunction with all drawings and all other Sections so as to comply with the requirements of the General Conditions of the Contract.

.2 Requirements specified elsewhere:

.1 Section 02 81 00 Hazardous Materials – General Provisions

1.2 Outline of Work

.1 Refer to Section 02 81 00 Hazardous Materials – General Provisions for the Outline of Work.

.2 The intent of this Section is to provide safe work practices and procedures to govern the handling, removal, clean-up and disposal of asbestos-containing materials following Glove Bag procedures, and Pinchin and Owner specific requirements.

.3 If for reasons of pipe temperature, geometry or access, Glove Bag procedures cannot be used, remove and dispose of asbestos-containing insulations as per Section 02 82 11 for less than 1 square meter, or following Type 3 procedures in accordance with Ontario Regulation 278/05 for greater than 1 square metre.

1.3 Personal Protection

.1 Protect all personnel at all times when possibility of disturbance of ACM exists.

.2 Provide the following minimum respiratory protection to all personnel:

.1 Non-powered half-face respirators with P100 high efficiency (HEPA) cartridge filters.

.3 Provide protective clothing, to all personnel entering the Abatement Work Area.

.4 Wear hard hats, safety shoes and other personal protective equipment required by applicable construction safety regulations.

1.4 Inspections

.1 Refer to Section 02 81 00 – General Provisions.

.2 The following Milestone Inspections are to be scheduled:

.1 Milestone Inspection - Clean Site Preparation

.2 Milestone Inspection – Bulk Removal Inspection

.3 Milestone Inspection - Visual Clearance

PART 2 PRODUCTS AND FACILITIES

2.1 Materials and Equipment

.1 Refer to Section 02 81 00.

.2 Glove Bag: Prefabricated bag which provides a completely sealed envelope surrounding a given section of piping to permit the removal of asbestos-containing insulation from within the bag while maintaining the integrity of the bag and preventing the spread of airborne asbestos fibres. The glove bag shall be equipped with,

.1 sleeves and gloves that are permanently sealed to the body of the bag to allow the worker to access and deal with the insulation and maintain a sealed enclosure

throughout the work period,

.2 valves or openings to allow insertion of a vacuum hose and the nozzle of a water sprayer while maintaining the seal to the pipe, duct or similar structure,

.3 a tool pouch with a drain,

.4 a seamless bottom and a means of sealing off the lower portion of the bag, and

.5 a high strength double throw zipper and removable straps, if the bag is to be moved during the removal operation.

.3 Securing Straps: For some types of Glove Bag, reusable nylon straps at least 25mm wide with metal tightening buckle for sealing ends of bags around pipe and/or insulation.

PART 3 EXECUTION

3.1 Site Preparation - General

.1 Remove to the extent necessary to access piping, stored or non-fixed items from the Abatement Work Area including but not limited to equipment, furniture, waste etc. Store in area provided by Owner.

.2 Moving of equipment, tools, supplies, and stored materials that can be performed without disturbing ACM will be performed by others.

.3 Shut down HVAC systems serving the Abatement Work Area.

.1 Install polyethylene sheeting over openings in ducts and at diffusers and seal.

.2 HVAC to remaining areas of building must not be disrupted during work of this section.

.3 System shall remain inoperative until completion of work, unless ducts can be effectively capped.

.4 Perform work at scheduled times after shutting down HVAC systems affecting the Abatement Work Area.

.4 Install caution tape around work area where existing walls are not present.

.5 Install Signage in clearly visible locations and in sufficient numbers to adequately warn of an asbestos dust hazard.

.6 Remove visible dust and friable material from all surfaces in the work area including those to be worked on, using HEPA Vacuums or wet wiping.

.7 Cover walls, floors, finishes, millwork, equipment and furnishings below the pipe to be worked on in the Abatement Work Area with polyethylene sheets before disturbing ACM. Drop sheets shall extend a minimum of 1,800 mm from pipe.

.8 Use existing lighting or install temporary lighting to a level that will provide for safe and efficient use of work area - minimum 550 LUX.

.9 Provide Amended Water for wetting ACM, in garden sprayers. Provide one garden sprayer for each worker.

.10 Do not used compressed air to clean or remove and dust or debris when completing work of this section.

.11 Place HEPA Vacuum in Abatement Work Area for each worker.

.12 Place required tools to complete the abatement within the Abatement Work Area.

.13 Post Notice of Project, where required by O.Reg. 278/05.

3.2 Maintenance of Abatement Work Area

.1 Maintain Abatement Work Area in tidy condition.

3.3 Glove Bag Removal

.1 Do not use Glove Bags on hot pipes that may damage Glove Bag. Refer to manufacturer's limitations.

.2 Prior to use of Glove Bag on damaged or unjacketed insulation:

.1 Spray any areas of damaged insulation jacketing with mist of Amended Water.

.2 Tape over damaged insulation to provide temporary repair.

.3 Mist areas of insulation with no jacketing and wrap with polyethylene sheeting and seal with tape.

.3 Place any tools necessary to remove insulation in tool pouch built into Glove Bag.

.4 Inspect the Glove Bag for damage and defects immediately before it is attached to the pipe or duct.

.1 If damage or defects are observed, dispose of Glove Bag.

.5 Install Glove Bag as per manufacturer's instructions.

.6 Remove metal jacketing or banding carefully. Do not damage the Glove Bag.

.7 Remove insulation from pipe as per manufacturer's directions.

.1 Volume and weight of insulation must not exceed capacity of the Glove Bag or supports.

.2 Arrange insulation in the Glove Bag to maximize use of the Glove Bag.

.8 Only glove bags designed to be moved may be re-used on other sections of pipe or moved down same section of pipe (e.g. Safe-T-Strip).

.9 At regular intervals during its use, if damage or defects are observed during the use of the Glove Bag, which cannot be readily repaired with tape and not affect the integrity or strength of the glove bag.

.1 Discontinue use of Glove Bag.

.2 Wash inner surface of Glove Bag.

.3 Wet insulation.

.4 Pull an Asbestos Waste Container over Glove Bag before removing from pipe.

.5 Remove Glove Bag and Asbestos Waste Container, seal with tape.

.6 Place in a second Asbestos Waste Container and seal with tape.

.7 Clean immediate area with a HEPA Vacuum prior to resuming work.

.10 If bag is to be moved along pipe for use on adjacent section of insulation:

.1 Wash inner surface of Glove Bag.

.2 Wash tools and place tools in pouch.

.3 Wet surface of insulation in lower section of bag and any exposed end of asbestos insulation remaining on pipe with Amended Water.

.4 Insert nozzle of HEPA filtered vacuum cleaner into bag through valve and evacuate air from bag.

.5 Seal closure strip.

.6 Loosen securing straps to maintain a loose seal of Glove Bag to insulation or pipe.

.7 Use double throw zipper as necessary to pass hangers.

.8 Tighten straps once bag is in new position and continue insulation removal until Glove Bag is full, work is completed on the pipe or an obstruction prevents further movement of the bag.

.11 If bag is to be removed from a pipe for use on a new section of pipe, perform the following:

.1 Wash inner surface of Glove Bag.

.2 Wash tools and place tools in pouch.

.3 Wet surface of insulation in lower section of bag and any exposed end of asbestos insulation remaining on pipe with Amended Water.

.4 Insert nozzle of HEPA filtered vacuum cleaner into bag through valve and evacuate air from bag.

.5 Seal valve cover on valve Glove Bags.

.6 Seal closure strip.

.7 Wash top section of Glove Bag and tool pouch thoroughly.

.8 Undo securing straps, unfasten zipper and carefully move bag to new section of pipe.

.12 To remove bag after completion of insulation removal operation:

.1 Wash inner surface of Glove Bag.

.2 Wash and place all tools in one hand (glove), pull hand out inverted, twist to create a separate pouch, tape inverted hand at two separate locations 25 mm apart so as to seal pouch.

.1 Remove inverted hand and tools by cutting between the two tape seals.

.2 Place inverted hand pouch and tools into the next clean Glove Bag to be used or into a water bucket, open pouch underwater and clean tools.

.3 Wet surface of insulation in lower section of bag and any exposed end of asbestos insulation remaining on pipe with Amended Water.

.4 Insert nozzle of HEPA filtered vacuum cleaner into bag through valve and evacuate air from bag.

.5 Seal valve cover on valve Glove Bags.

.6 Seal closure strip if equipped with one. Twist bag at tapered point and secure with tape.

.7 Pull an Asbestos Waste Container over Glove Bag before removing from pipe.

.1 Undo straps and unzipper, or cut upper portion of single-use Glove Bag.

.2 Seal Asbestos Waste Container with tape.

.8 Ensure pipe is clean of all residue after removal of Glove Bag. If necessary, after removal of each section of asbestos, vacuum all surfaces of pipe, using HEPA vacuum or wipe with wet cloth.

.13 Seal all surfaces of freshly-exposed pipe with Post Removal Sealer.

.14 Cover exposed ends of any remaining asbestos insulation with canvas and lagging using

Type 2 Procedures.

3.4 Clean-Up and Dismantling

.1 Clean and remove from Abatement Work Area:

.1 Equipment and tools.

.2 Temporary lighting if used.

.3 Polyethylene seals from HVAC systems.

.2 Place polyethylene sheeting, drop sheets, seals, tape, clothing and other contaminated waste in asbestos waste containers, wet wipe and place in second asbestos waste container.

.3 Clean Abatement Work Area with HEPA vacuums or wet wiping/mopping.

.4 Seal openings in HEPA vacuums.

.5 Proceed with the dismantlement of all barricades, etc. following receipt of authorization to proceed from the Asbestos Abatement Consultant.

.6 Remove barricades, fencing, caution tape, signs, etc.

3.5 Waste and Material Handling

.1 Refer to Section 02 81 00.

3.6 Re-Establishment of Items

.1 Upon completion of work:

.1 Move all items that were removed from Abatement Work Area prior to work, back into same location within Abatement Work Area.

.2 Remove tags and locks from electrical panels and re-energize equipment and items.

.3 Enable building air handling systems.

.4 Clean and vacuum Abatement Work Area.

END OF SECTION

\\PIN-HAM-FS02\job\352000s\0352316.000 HALTONDISTRICT,2025Projects,HAZ,CONS\0352316.006 HDSB,TABlakelock,1160RebeccaSt,HAZ,ASSMT\Deliverables\Specs\352316.006 02 82 00.04 Glove Bag TA Blakelock HDSB WC.docx

PART 1 GENERAL

.1 Read this Section in conjunction with all drawings and all other Sections so as to comply with the requirements of the General Conditions of the Contract.

.2 Requirements specified elsewhere:

.1 Section 02 81 00 Hazardous Materials – General Provisions

1.2 Outline of Work

.1 Refer to Section 02 81 00 Hazardous Materials – General Provisions for the Outline of Work.

.2 The intent of this Section is to provide safe work practices and procedures to govern the handling, removal, clean-up and disposal of lead-containing materials following Class 1 or Low Risk procedures, and Pinchin and Owner specific requirements.

.3 Comply with requirements of this Section when performing following Work:

.1 Removal of lead-containing surface coatings with a chemical gel, stripper or paste.

.2 Removal of materials coating with lead-containing surface coatings, using non-powered hand tools, where the materials remains primarily intact, and is not crumbled, pulverized or powdered.

1.3 Instruction and Training

.1 Provide instruction and training to all workers including the following:

.1 Hazards of lead.

.2 Use, care and disposal of protective equipment (including but not limited to respirators and filters) and clothing that would be used and worn during abatement work, including:

.1 Limitations of equipment.

.2 Inspection and maintenance of equipment.

.3 Proper fitting of equipment.

.4 Disinfecting and cleaning of equipment.

.3 Personal hygiene to be observed when performing the work.

.4 The measures and procedures prescribed by this section including decontamination of the worker.

.5 Instruction and training must be provided by a competent person.

1.4 Personal Protection

.1 Provide non-powered half-face respirators with P100 high efficiency cartridge filters when requested by personnel.

.2 Provide protective clothing, when requested by personnel, entering the Abatement Work Area, including:

.1 Disposable protective clothing that does not readily retain or permit skin contamination, consisting of full body covering including head covering with snug fitting cuffs at wrists, ankles, and neck.

.3 Provide protective clothing, to all personnel entering the Abatement Work Area, including:

.1 Dust impermeable gloves appropriate for the work being completed.

.4 Wear hard hats, safety shoes and other personal protective equipment required by applicable construction safety regulations.

.5 Lead-specific soaps and hygiene indicators are recommended to be provided for shower and hand-wash stations.

1.5 Inspections

.1 Refer to Inspections in Section 02 81 00 – General Provisions.

.2 The following Milestone Inspections are to be scheduled:

.1 Milestone Inspection - Clean Site Preparation

.2 Milestone Inspection – Bulk Removal Inspection

.3 Milestone Inspection - Visual Clearance

PART 2 PRODUCTS AND FACILITIES

.1 Refer to Section 02 81 00.

PART 3 EXECUTION

3.1 Site Preparation - General

.1 Provide washing facilities consisting of a wash basin, clean water, soap and towels.

.1 Workers are to use washing facilities each time leaving the Abatement Work Area.

.2 Stored or non-fixed items, including but not limited to equipment, furniture, waste etc., shall be removed from the Abatement Work Area prior to abatement work.

.3 Remove visible dust from all surfaces in the work area including those to be worked on, using HEPA Vacuums or wet wiping.

.4 Provide amended water for wetting materials, and adequate method of wetting (garden sprayers, airless sprayers, etc.).

.5 Do not use compressed air to clean or remove dust or debris.

.6 Frequently and at regular intervals during the work, clean up dust and waste using HEPA vacuums and/or wet sweeping or mopping.

.7 Frequently and at regular intervals, place all waste in waste containers.

.8 Immediately upon completion of work, clean area with HEPA vacuum and/or wet sweeping or mopping.

3.2 Site Preparation – No Enclosure Required

.1 Isolate Abatement Work Area with barrier tape.

.2 Protect floor surfaces covered from wall to wall with polyethylene sheets.

.3 Maintain Abatement Work Area in tidy condition.

.4 Remove waste and debris frequently.

.5 Remove standing water on polyethylene/floor at the end of every shift.

.6 Turn off water supply to hoses and reduce pressure in hose, prior to leaving the Abatement Work Area at end of shift.

3.3 Lead-Containing Paint Abatement

.1 Removal methods minimizing dust generation should be used wherever possible.

.1 Wet methods are to be used to reduce dust generation.

.2 Wetting agents should be used where possible.

.3 Wet methods are not to be used if it creates a hazard or cause damage to equipment or to project.

.2 Provide drop sheets below all lead operations that may produce dust, chips or debris containing lead.

.3 Waste water from cleaning or removal operations must be contained, for treatment or disposal.

.4 Remove lead-containing paint in small sections and pack as it is being removed in sealable lead waste containers.

.5 Follow manufacturer's instructions for all use of chemical gels, strippers and pastes.

.1 Ensure agent neutralizers, were required, are applied.

.2 Do not use chemical gels, strippers or pastes on surfaces where they are scheduled to be repainted, and the material affect the new paint application.

.6 After completion of stripping work, wire brush and wet sponge surface from which lead based paint has been removed to remove visible material. During this work keep surfaces wet.

.7 After wire brushing and wet sponging to remove visible lead-containing paint, wet clean entire work area, and equipment used in process.

.1 Compressed air or dry sweeping not be used to clean up lead-containing dust or waste.

.2 Ensure all waste is cleaned and packaged.

.8 Seal filled containers. Clean external surfaces thoroughly by wet sponging. Remove from immediate working area to staging area. Clean external surfaces thoroughly again by wet sponging. Wash containers thoroughly pending removal to outside.

3.4 Bulk Lead Removal

.1 Lead-containing batteries should be removed, and recycled in appropriate programs.

3.5 Waste Management and Disposal

.1 Per Section 02 81 00.

3.6 Final Cleaning

.1 Remove polyethylene sheet by rolling it away from walls to centre of work area. Vacuum visible lead containing particles observed during cleanup, immediately, using HEPA vacuum.

.2 Place polyethylene sheets, tape, cleaning material, clothing, and contaminated waste in plastic bags and sealed labelled waste containers for transport.

.3 Conduct final check to ensure no dust or debris remains on surfaces as result of dismantling operations.

END OF SECTION

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PART 1 GENERAL

.1 Read this Section in conjunction with all drawings and all other Sections so as to comply with the requirements of the General Conditions of the Contract.

.2 Requirements specified elsewhere:

.1 Section 02 81 00 Hazardous Materials – General Provisions

1.2 Outline of Work

.1 Refer to Section 02 81 00 Hazardous Materials – General Provisions for the Outline of Work.

.2 The intent of this Section is to provide safe work practices and procedures to govern the handling, removal, clean-up and disposal of lead-containing materials following Class 2 or Moderate Risk procedures, and Pinchin and Owner specific requirements.

.3 Comply with requirements of this Section when performing following Work:

.1 Removal of lead containing paint using power tools with an effective dust collection system equipped with HEPA filter.

.2 Welding, torching or high temperature cutting of lead-containing surface coatings or materials indoors, with use of an effective fume collector or smoke eater.

.3 Welding, torching or high temperature cutting of lead-containing surface coatings materials outdoors.

.4 Removal of lead-containing surface coatings or materials by scraping or sanding (including wet sanding) using non-powered hand tools.

.5 Demolition of plaster or other building components that crumble, pulverize or powder and are covered with lead-containing surface coating.

.6 Wet cleaning or HEPA vacuuming of significant amounts of lead-containing dust and debris that can be made easily airborne.

1.3 Instruction and Training

.1 Provide instruction and training to all workers including the following:

.1 Hazards of lead.

.2 Use, care and disposal of protective equipment (including but not limited to respirators and filters) and clothing that would be used and worn during abatement work, including:

.1 Limitations of equipment.

.2 Inspection and maintenance of equipment.

.3 Proper fitting of equipment.

.4 Disinfecting and cleaning of equipment.

.3 Personal hygiene to be observed when performing the work.

.4 The measures and procedures prescribed by this section including decontamination of the worker.

.5 Instruction and training must be provided by a competent person.

1.4 Personal Protection

.1 Provide the following respiratory protection to all personnel, at minimum:

.1 Non-powered half-face respirators with P100 high efficiency cartridge filters.

.2 Provide protective clothing, to all personnel entering the Abatement Work Area, including:

.1 Dust impermeable gloves appropriate for the work being completed.

.2 Disposable protective clothing that does not readily retain or permit skin contamination, consisting of full body covering including head covering with snug fitting cuffs at wrists, ankles, and neck.

.3 Provide protective clothing, to all personnel entering the Abatement Work Area.

.4 Wear hard hats, safety shoes and other personal protective equipment required by applicable construction safety regulations.

.5 Lead-specific soaps and hygiene indicators are recommended to be provided for shower and hand-wash stations.

1.5 Inspections

.1 Refer to Inspections in Section 02 81 00 – General Provisions.

.2 The following Milestone Inspections are to be scheduled:

.1 Milestone Inspection - Clean Site Preparation

.2 Milestone Inspection – Bulk Removal Inspection

.3 Milestone Inspection - Visual Clearance

PART 2 PRODUCTS AND FACILITIES

.1 Refer to Section 02 81 00.

2.2 Hoarding Walls

.1 Type A Hoarding Wall: One layer of rip-proof polyethylene sheeting installed floor to ceiling, secured with telescopic poles, clips, or other suitable methods.

2.3 Transfer Room

.1 Install vented wood door in wood frame at doorway to Occupied Area. Door must have locking passage set. Provide two keys to Abatement Consultant and one to Owner.

.2 Transfer Room to be generally 2000 mm x 2000 mm x 2200 mm high. Increase size accordingly to accommodate number of workers.

.3 Install walls as follows:

.1 Install 38 x 89 mm wood framing at 610 mm o/c with continuous top and sill plates.

.2 Install one layer rip-proof polyethylene sheeting on interior walls of Transfer Room.

.4 Install one layer of rip-proof polyethylene sheeting over two layers of 6 mil polyethylene sheeting beneath entire Transfer Room.

.5 Install one layer rip-proof polyethylene sheeting over roof.

.6 Turn 600 mm of polyethylene down the sides over polyethylene on the perimeter walls.

.7 Install a fire extinguisher, mount to wall.

2.4 Curtained Doorways

.1 Construct as follows:

.1 Install two flap doors, full width and height of door opening at all doors to Abatement Work Area and both ends of Transfer Room.

.2 Construct each flap door of two layers of polyethylene sheeting with all edges reinforced with tape. Use wood strapping to securely fasten flap doors to head and alternate jambs.

.3 Install weights attached to bottom edge of each door flap.

.4 Provide direction arrows on flaps to indicate opening.

PART 3 EXECUTION

3.1 Site Preparation - General

.1 Provide washing facilities consisting of a wash basin, clean water, soap and towels.

.1 Workers are to use washing facilities each time leaving the Abatement Work Area.

.2 Stored or non-fixed items, including but not limited to equipment, furniture, waste etc., shall be removed from the Abatement Work Area prior to abatement work.

.3 Isolate, at panel, and disconnect existing power supply to Abatement Work Area. Power supply to remaining areas of building must not be disrupted during work of this section.

.1 Lock-out/tag-out power at electrical panels.

.2 Mark/tag any items within or passing through the Abatement Work Area that are to remain live including but not limited to cable, conduit, wire, fixtures, equipment panels, etc.

.4 Shut down HVAC systems serving the Abatement Work Area.

.1 Install polyethylene sheeting over openings in ducts and diffusers and seal.

.2 HVAC to remaining areas of building must not be disrupted during work of this section.

.3 System shall remain inoperative until completion of work, unless ducts can be effectively capped.

.4 Perform work at scheduled times after shutting down HVAC systems affecting the Abatement Work Area.

.5 Remove visible dust from all surfaces in the work area including those to be worked on, using HEPA Vacuums or wet wiping.

.6 Provide amended water for wetting materials, and adequate method of wetting (garden sprayers, airless sprayers, etc.).

.7 Provide electrical power and shut off for operation of powered tools and equipment. Provide ground fault interrupter circuits on power source for electrical tools, in accordance with applicable CSA Standard.

.1 Ensure safe installation of electrical lines and equipment.

.8 Do not use compressed air to clean or remove dust or debris.

.9 Frequently and at regular intervals during the work, clean up dust and waste using HEPA vacuums and/or wet sweeping or mopping.

.10 Frequently and at regular intervals, place all waste in waste containers.

.11 Immediately upon completion of work, clean area with HEPA vacuum and/or wet sweeping or mopping.

3.2 Site Preparation – Enclosure Required

.1 Install Transfer Room where duration of work is to last longer than one 8 hour shift.

.2 Install Curtained Doorways.

.3 Install polyethylene sheeting at openings in walls (as required) and seal.

.4 Seal openings in floor using tape, caulking, polyethylene, etc. Floor openings are to be sealed independently prior to installation of floor polyethylene.

.5 Install polyethylene sheeting on floors of Abatement Work Area. Use sufficient layers to provide adequate protection for carpeting and equipment.

.1 Cover floors first so that polyethylene on walls is overlapped by at least 305 mm.

.6 Install 6 mil polyethylene sheeting on walls to remain, within the Abatement Work Area., including existing walls that make up, or are within, the Abatement Work Area.

.7 Install one layer of 6 mil polyethylene sheeting so as to protect all equipment and finishes in the Abatement Work Area that may be damaged.

.8 Place required tools to complete the abatement with the Abatement Work Area.

.9 Install temporary lighting in enclosure to a level that will provide for safe and efficient use of work area - minimum 550 LUX.

.10 Establish negative pressure in Abatement Work Areas as follows:

.1 Provide sufficient HEPA filtered negative pressure machines to exchange a volume of air equivalent to that of the Abatement Work Area a minimum of every 20 minutes.

.2 Provide additional HEPA filtered negative pressure machines as required to ensure air flow from Occupied Area into Abatement Work Area.

.3 Operate HEPA filtered negative pressure machines continuously from first disturbance of ACM until completion of dismantling.

.4 Replace prefilters to maintain specified flow rate.

.5 Replace HEPA filter as required to maintain flow rate and integrity of unit.

.6 Discharge HEPA filtered negative air machines to building exterior, where possible.

.1 Direct discharge away from building access points.

.11 Install Signage in clearly visible locations and in sufficient numbers to adequately warn of lead hazard, and lead hazard where appropriate.

3.3 Site Preparation – No Enclosure Required

.1 Cover materials to remain in the Abatement Work Area with polyethylene sheeting before disturbing ACM to control the spread of dust.

.2 Install caution tape around work area where existing walls are not present.

.3 Install temporary lighting in enclosure to a level that will provide for safe and efficient use of work area - minimum 550 LUX.

.4 Place HEPA vacuum in Abatement Work Area.

.5 Place required tools to complete the abatement with the Abatement Work Area.

.6 Install Signage in clearly visible locations and in sufficient numbers to adequately warn of a lead dust hazard.

3.4 Maintenance of Abatement Work Area

.1 Inspect polyethylene sheeting and ensure it is effectively sealed and taped. Repair damage and remedy defects immediately.

.2 Inspect electrical panels and ensure locks and tags are on panels prior to entering the Abatement Work Area.

.3 Inspect HEPA filtered negative pressure machines including discharge ducting at the beginning and end of each working period. Inspection must be performed by competent person.

.4 Maintain Abatement Work Area in tidy condition.

.5 Remove standing water on polyethylene/floor at the end of every shift.

.6 Turn off water supply to any hoses and reduce pressure in hose, prior to leaving the Abatement Work Area at end of shift.

3.5 Lead Abatement

.1 Use the procedures described above under *Site Preparation – Enclosure Required*.

.1 Removal of lead-containing surface coatings or materials by scraping or sanding (including wet sanding) using non-powered hand tools.

.2 Demolition of plaster or other building components that crumble, pulverize or powder and are covered with lead-containing surface coating.

.2 Use the procedures described above under *Site Preparation – No Enclosure Required*.

.1 Removal of lead containing paint using power tools with an effective dust collection system equipped with HEPA filter.

.2 Welding, torching or high temperature cutting of lead-containing surface coatings or materials indoors, with use of an effective fume collector or smoke eater.

.3 Welding, torching or high temperature cutting of lead-containing surface coatings materials outdoors.

.3 Provide washing facilities consisting of a wash basin, clean water, soap and towels.

.1 Workers are to use washing facilities each time leaving the Abatement Work Area.

.4 Removal methods minimizing dust generation should be used wherever possible.

.1 Wet methods are to be used to reduce dust generation.

.1 Wetting agents should be used where possible.

.2 Wet method not be used if it creates a hazard or cause damage to equipment or to project.

.5 Provide drop sheets below all lead operations that may produce dust, chips or debris containing lead.

.6 Waste water from cleaning or removal operations must be contained, for treatment or disposal.

.7 Remove lead containing paint in small sections and pack as it is being removed in sealable waste containers.

.8 Waste generated should be maintained wet until cleaned and packaged.

.9 After completion of stripping work, wire brush and wet sponge surface from which lead based paint has been removed to remove visible material. During this work keep surfaces wet.

.10 After wire brushing and wet sponging to remove visible lead containing paint, wet clean entire work area, and equipment used in process.

.1 Compressed air or dry sweeping not be used to clean up lead-containing dust or waste.

.2 Ensure all waste is cleaned and packaged.

.11 Seal filled containers. Clean external surfaces thoroughly by wet sponging. Remove from immediate working area to staging area. Clean external surfaces thoroughly again by wet sponging. Wash containers thoroughly pending removal to outside. Ensure containers are removed by workers who have entered from uncontaminated areas dressed in clean coveralls.

3.6 Waste Management and Disposal

.1 Per Section 02 82 00.

3.7 Final Cleaning

.1 Following specified cleaning procedures, proceed with final cleanup.

.2 Remove polyethylene sheet by rolling it away from walls to centre of work area. Clean visible lead containing particles observed during cleanup, immediately, using HEPA vacuum.

.3 Place polyethylene sheets, tape, cleaning material, clothing, and contaminated waste in plastic bags and seal. Dispose of in accordance with waste materials generated.

.4 Clean Work areas and Transfer Room, where present.

.5 Remove sealed waste containers and equipment used in Work and remove from work areas at appropriate time in cleaning sequence.

.6 Conduct final check to ensure no dust or debris remain on surfaces as result of dismantling operations.

END OF SECTION

PART 1 GENERAL

1.1 General and Related Work

.1 Read this Section in conjunction with all drawings and all other Sections so as to comply with the requirements of the General Conditions of the Contract.

.2 Requirements specified elsewhere:

.1 Section 02 81 00 Hazardous Materials – General Provisions

1.2 Outline of Work

.1 Unless otherwise shown or specified it is the intent that work performed as per this section will result in the removal and destruction of:

.1 PCB-containing caulking

.2 All Work shall be performed in strict accordance with the Project Documents and all governing codes, rules, and regulations. Where conflicts occur between the Project Documents and applicable codes, rules, and regulations, the more stringent shall apply.

1.3 Quality Assurance

.1 Ensure the removal and handling of PCBs is performed by persons experienced in the methods, procedures and industry practices.

.2 Complete work so that at no time do PCBs contaminate the building or environment.

1.4 Instruction and Training

.1 Instruction and training must be provided to all workers and supervisors. Instruction and training includes the following:

.1 Hazards of PCBs.

.2 Use, care and disposal of protective equipment (including but not limited to respirators and filters) and clothing that would be used and worn during work, including:

.1 Limitations of equipment.

.2 Inspection and maintenance of equipment.

.3 Proper fitting of equipment.

.4 Disinfecting and cleaning of equipment.

.3 Personal hygiene to be observed when performing the work.

.4 The measures and procedures prescribed by this section.

.2 Instruction and training must be provided by a competent, qualified person.

1.5 Personal Protection

.1 Workers handling PCB-containing materials are advised to avoid skin and eye contact.

.2 During removal of PCBs, personnel are to wear personal protective equipment

appropriate to the task.

.3 During removal of PCB caulking, personnel are to wear, at minimum:

.1 Provide workers, at a minimum, with non-powered half-face respirators with P100 high efficiency and Organic Vapour cartridge filters.

.2 Provide workers, with protective eye wear.

.3 Provide protective clothing, to all personnel entering the Abatement Work Area.

.4 Provide disposable gloves (nitrile), to all personnel entering the Abatement Work Area.

1.6 Inspections

.1 Refer to Inspections in Section 02 81 00 – General Provisions.

.2 The following Milestone Inspections are to be scheduled:

.1 Milestone Inspection - Clean Site Preparation

.2 Milestone Inspection – Bulk Removal Inspection

.3 Milestone Inspection - Visual Clearance

PART 2 PRODUCTS

2.1 Materials

.1 Containment Drums: new, not used double bung 45 gallon No. 16 gauge cold rolled steel drums with removable steel lid, PCB resistant gasket (nitrile rubber, cork or Teflon), and 12 gauge compression type ring closure with 5/8" bolt and forged lug. Drums shall be newly painted inside and out with bright white rust-resistant enamel. Metal pail of 16 gauge steel with removal steel lid, are also acceptable for smaller quantities of waste.

.2 Decontamination Area: An established area for the purpose of decontaminating personnel and equipment.

.1 Of sufficient size to accommodate cleaning of equipment and removing personal protective equipment.

.2 Install PCB warning signs / tape at the entrance to the decontamination area.

.3 The floor shall be covered with polyethylene sheeting.

.4 Include a hand washing station complete with soap and towels and 6 mil polyethylene bags for disposal of PCB-contaminated items such as gloves, Tyvek suite rags etc.

.5 All personnel must enter and exit the Abatement Work Area through the decontamination area.

.6 All equipment and surfaces of waste containers must be cleaned prior to removing them from the decontamination room or area.

.7 Work clothing must be cleaned with a HEPA vacuum before it is removed.

.3 Drum liners: clear polyethylene bag, 36" x 60", 6 mil thick. Open one 36" end.

.4 Label: appropriate PCB Labels and Placards of sufficient size to be clearly legible, for display on waste containers (bags, boxes, rolloffs or drums) which will be used to contain or transport PCB contaminated material, in accordance with TDG regulations.

.5 Polyethylene Sheeting: 6 mil (0.15 mm) minimum thickness unless otherwise specified, in sheet size to minimize joints. New materials only.

PART 3 EXECUTION

3.1 General

.1 Do not contaminate building surfaces with PCBs.

.2 Should visible PCB debris be observed outside the Work Area, immediately stop Work notify the Consultant and Owner; institute emergency procedures as directed. All costs incurred in decontaminating such non-Work Areas and the contents thereof shall be borne by the Contractor, at no additional cost to the Owner.

.3 Notify Owner's Representative of any spills immediately.

.1 Any spills of PCBs are to be cleaned to the satisfaction of the Owner's Representative at the contractors cost. This includes removal and replacement of building materials as required.

.4 Conduct PCB removal operations in a matter that fully protects Contractor's and Subcontractor's employees, the general public, other building occupants and the environment from exposure to PCB.

.5 Non-PCB items remaining such as windows, doors, masonry, and all other building construction and components from which PCB materials are removed shall be decontaminated by physical or chemical means such that no visible residue remains. The removal of the PCB materials may require the use of scrapers, solvents, mastic removal chemicals, or other methods/procedures to ensure complete removal.

.6 Use hand tools that generate the least amount of dust and will still complete the PCB caulk removal.

.1 Grinding electromechanical tools (e.g. angle grinders, masonry groove cutters, circular saws, and slot mills, etc.) are not allowed to be used for exterior open-air PCB caulk removals.

.7 Remove accessible caulk that could be disturbed before cutting building components, such as window frames.

3.2 Work Area Preparation - Interior Removal:

.1 Isolate all HVAC equipment, including installing polyethylene sheeting on all air returns and exhausts. Turn off all HVAC systems serving work area when feasible.

.2 All floor areas adjacent to the work area shall have a layer of polyethylene sheeting, attached to the interior wall and laid down on the surfaces below the abatement work

area, at least 5 feet wide or to the furthest point of gravity fall for dislodged debris by methods used, whichever is further.

.3 All movable objects shall be removed from the immediate work area. All non-movable objects shall be covered with one layer of polyethylene sheeting and sealed at the edges.

.4 Temporary dust barriers consisting of a minimum of polyethylene sheeting shall be at installed at hallways, corridors, doorways, and other openings to the work area not used for passage during removals to establish work area containment enclosure.

.5 Polyethylene sheeting overlapping curtained doorway shall be installed at the entrance to the work area.

3.3 Equipment and Area Decontamination

.1 When removal of PCB materials is completed, the decontamination process shall consist of HEPA vacuuming, wet wiping/mopping and a repeated HEPA vacuuming of the entire work area. All surfaces in and around the work area must be free of dust generated during the work.

.2 Decontaminate all tools and equipment before removal from the work area.

.3 If dust or debris has migrated to areas of the building other than the immediate work area, those areas shall be incorporated into the work area and thoroughly decontaminated to ensure all visible dust generated by the activity is eliminated.

.4 Uncontaminated dust barriers and other protective sheeting shall be placed in disposable construction bags and disposed of as normal trash.

.5 Visually inspect the area for any remaining dust or debris. HEPA vacuum and wet wipe until space is clean. Dispose of vacuum contents as PCB waste.

.6 Upon completion of decontamination and removing temporary dust barriers, a final inspection shall be performed by the Contractor.

.7 Failure of any visual inspection by the Consultant, the Contractor will clean the affected areas at no additional expense to the Owner.

3.4 Transportation and Reporting

.1 All waste containers shall be fully enclosed and lockable (i.e. enclosed dumpster, trailer, etc.).

.1 While on-site, the container shall be labelled with PCB Warning Labels and as required by Federal and Provincial regulations.

.2 All waste generated as part of the PCB project shall be removed from the site within ten (10) calendar days after successful completion of all PCB abatement work.

.3 The Hauler, with the Abatement Contractor and the Abatement Consultant, shall inspect the transport container prior to the Hauler taking possession and signing the Hazardous Waste Manifests.

.4 A Hazardous Waste Manifest shall be utilized solely as the waste Manifest for transportation. A hauler billing form or bill of lading may be used if the hauler needs an independent record, but shall not be used as a shipping document.

.1 The Manifest shall be completed by the Contractor and verified by the Consultant that all the information and amounts are accurate and the proper signatures are in place.

.2 The Manifest shall have the appropriate signatures of the Owner's Representative (the Generator) and the Hauler representative prior to any waste being removed from the site.

.3 Upon arrival at the Disposal Site, the Manifest shall be signed by the Disposal Facility operator to certify receipt of PCB materials covered by the manifest.

.4 The Disposal Facility operator shall return the original Manifest to the Owner's Representative (the Generator) as required by the Ministry of Environment, Conservation and Parks.

.5 Provide a copy of the completed waste manifest proving receipt of the PCB waste by the Disposal Facility.

.5 Transport materials following Transportation of Dangerous Goods Act.

.1 Transport PCBs to approved incineration site for destruction and ensure materials are destroyed.

.6 The facility used to process the PCBs shall be approved by the Ministry of the Environment and shall have valid Certificates of Approval to carry out the work outlined herein.

.1 The facility must issue a Certificate of Destruction identifying types and quantities of PCBs generated from the project.

END OF SECTION

\\PIN-HAM-FS02\job\352000s\0352316.000 HALTONDISTRICT,2025Projects,HAZ,CONS\0352316.006 HDSB,TABlakelock,1160RebeccaSt,HAZ,ASSMT\Deliverables\Specs\352316.006 02 84 00 Non-Liquid PCB Abatement TA Blakelock HDSB WC.docx

1 General

1.1 RELATED SECTIONS

.1 Section 06 20 00 - Finish Carpentry.

.2 Section 06 24 00 - High Pressure Decorative Laminate.

.3 Section 07 92 00 - Joint Sealants.

.4 Section 08 80 00 - Glazing.

.5 Section 11 53 00 - Laboratory Equipment.

.6 Section 12 36 53.13 - Epoxy Resin Laboratory Countertops.

1.2 REFERENCES

.1 ANSI A135.4-2004: Basic Hardboard.

.2 ANSI A208.1-2009: Particleboard.

.3 ANSI A208.2-2009: Medium Density Fiberboard (MDF) for Interior Applications.

.4 ASTM A240/A240M-22b: Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.

.5 ASTM A276/A276M-17: Standard Specification for Stainless Steel Bars and Shapes.

.6 ASTM B456-17(2022): Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.

.7 ASTM F1667-21: Standard Specification for Driven Fasteners: Nails, Spikes and Staples.

.8 AWMAC NAAWS 4.0-2021: North American Architectural Woodwork Standards.

.9 ANSI/BHMA A156.9-2015: Cabinet Hardware.

.10 ANSI/BHMA A156.11-2014: Cabinet Locks.

.11 ANSI/BHMA A156.26-2017: Continuous Hinges.

.12 CSA O112.9-10: Evaluation of Adhesives for Structural Wood Products (Exterior Exposure).

.13 CSA O112.10-08 (R2013): Evaluation of Adhesives for Structural Wood Products (Limited Moisture Exposure).

.14 CSA O141-05 (R2009): Softwood Lumber.

.15 ANSI/HPVA HP-1-2020: American National Standard for Hardwood and Decorative Plywood.

.16 ANSI/NEMA LD 3-2005: High Pressure Decorative Laminates.

.17 NHLA Grading Rules.

1.3 SHOP DRAWINGS

.1 Submit Shop Drawings as specified in Section 01 33 00.

.2 Shop Drawings: Project-specific drawings, illustrating layouts, dimensions, materials, component profiles and sizes, fastening methods, jointing details, finishes, accessories, locations of outlets, anchorages, and casework hardware.

1.4 SAMPLES

.1 Submit samples as specified in Section 01 33 00.

.2 Verification Samples: Duplicate samples, as follows:
.1 Melamine Composite Panel: 300 x 300 mm size, illustrating laminate-clad face colour, pattern and texture; core materials and quality of PVC edgebanding.
.2 Hardwood Plywood: 300 x 300 mm size, illustrating quality of veneer faces, edge profile, quantity of plies, joint and edge trim and shop-applied finish.
.3 Hardwood Trim: 300 mm long, illustrating profile sizes and shapes, quality of wood grain and shop-applied finish.

1.5 QUALIFICATIONS

.1 Fabricator and Installer: A firm specializing in fabricating and installing architectural wood casework, having minimum 3 years documented experience and a member of AWMAC.

1.6 MOCK-UPS

.1 Construct mock-ups as specified in Section 01 40 00.

.2 Mock-up: Full-size, 450 mm wide sample of each type of architectural wood casework, including materials, finishes, hardware and countertops.

.3 Accepted mock-ups will be used as the standard for acceptance of the Work.

.4 Remove and replace installed Product that does not conform to accepted mock-up.

.5 Remove mock-ups from Place of the Work upon Substantial Performance of the Work.

1.7 DELIVERY, STORAGE AND HANDLING

.1 Refer to Section 01 60 00.

.2 Store Products under waterproof cover both in transit and at Place of the Work in a manner to prevent damage to Products, to existing property, and to the Work.

.3 Store completed Products in a dry, clean area where it does not hinder progress of the Work.

.4 Do not store or install Products in the Work until building is dry and heated.

1.8 WARRANTY

.1 Submit extended warranty in accordance with General Conditions of the Contract.

.2 Extended Warranty: A two year AWMAC Guarantee Certificate, covering replacement, re-working, and re-finishing of deficient Product resulting from faulty workmanship or defective materials.

2 Products

2.1 MANUFACTURERS

.1 Manufacturers of melamine composite panels having Product considered acceptable for use:
.1 Arauco North America.
.2 Panolam.
.3 Tafisa.
.4 Uniboard.

.2 Substitution Procedures: Refer to Section 01 25 00.

2.2 LUMBER

.1 Dressed Lumber - Hardwood (DL-HWD): Maple species; NHLA Select and Better Grade; kiln dried to maximum 7 percent moisture content, capable of receiving high quality transparent finish; sizes as indicated on Drawings.

.2 Dressed Lumber - Softwood (DL-SWD): To CSA O141, S4S; AWMAC Custom grade; Eastern White Pine, Douglas Fir or Spruce species, kiln dried to maximum 7 percent moisture content, with mixed grain capable of receiving high quality opaque finish; sizes as indicated on Drawings.

.3 Dimension Lumber: As specified in Section 06 10 00; sizes as indicated on Drawings.

2.3 PLYWOOD

.1 Plywood - Hardwood (PLY-HWD): To ANSI/HPVA HP-1, Architectural G2S, thicknesses as indicated on Drawings; as follows:
.1 Core: Hardwood veneer core, minimum 9 plies.
.2 Face Veneers: Maple species; Face Grade A; Plain-Sliced; of clear Book match grain capable of receiving high quality transparent finish.

.2 Plywood - Hardwood, Moisture-Resistant Core (PLY-HWD-MR): To ANSI/HPVA HP-1, Architectural G2S, thicknesses as indicated on Drawings; as follows:
.1 Core: Composite core, moisture-resistant particle board to ANSI A208.1, Grade M-3 - Exterior Glue.
.2 Face Veneers: Maple species; Face Grade A; Plain-Sliced; of clear Book match grain capable of receiving high quality transparent finish.

2.4 COMPOSITE BOARDS AND PANELS

.1 Melamine Composite Panel (MCP): Particleboard core with factory-applied low pressure laminate thermo-fused to both faces; Premium quality; colours, textures and patterns as selected by Consultant; thicknesses as indicated on Drawings.

.2 Medium Density Fiberboard (MDF): To ANSI A208.2, Grade MD; minimum 740 kg/m^3 density and moisture content between 4.5 - 8.0 percent; thicknesses as indicated on Drawings.

.3 Particleboard (PB): To ANSI A208.1, Grade M-2; made from 100 percent post-industrial wood fibres; minimum 635 kg/m^3 density and maximum 6 percent moisture content; no added urea formaldehyde (nauf); certified EPP by Composite Panel Association; thicknesses as indicated on Drawings.

.4 Hardboard (HB): To ANSI A135.4, Class 1 - Tempered; inter-felted ligno-cellulosic fibers consolidated under heat and pressure; minimum 500 kg/m^3 density; S1S surface finish; complete with factory-applied low pressure laminate thermo-fused to one face; colours, textures and patterns as selected by Consultant; thicknesses as indicated on Drawings.

2.5 ACCESSORIES

.1 Adhesive for Wet Area Exposures: To CSA O112.9.

.2 Adhesive for Dry Area Exposures: To CSA O112.10.

.3 Nails: To ASTM F1667, Type I (NL); galvanized steel, common wire; sizes necessary to ensure adequate securement.

.4 Spikes: To ASTM F1667, Type III (SP); galvanized steel, common wire; sizes necessary to ensure adequate securement.

.5 Staples: To ASTM F1667, Type IV (ST); galvanized steel, common wire; leg length necessary to ensure adequate securement.

.6 Screws: Galvanized steel, bugle head, power driven type, sizes necessary to ensure adequate securement.

.7 Anchors: Galvanized steel, drilled and epoxy-fastened types; sizes necessary to ensure adequate securement.

.8 Stainless Steel Sheet and Plate: To ASTM A240/A240M, Type 304; sizes and thicknesses as indicated on Drawings.

.9 Stainless Steel Bar and Shape: To ASTM A276/A276M, Type 304; sizes and profiles as indicated on Drawings.

.10 Epoxy Countertops: As specified in Section 12 36 53.13.

.11 Decorative Laminate: High pressure decorative laminate, Type HPDL and Type HPDL-CR as specified in Section 06 24 00.

.12 Solid Plastic Edgebanding: 3 mm thick PVC edgebanding with eased edge, colour and pattern to match cabinet panel faces, unless noted otherwise.

.13 Tackable Surface: 6 mm thick linoleum-based cork sheet, Krommenie by Forbo Linoleum Inc., colour as selected by Consultant.

.14 Glass: Type GL-3 as specified in Section 08 80 00, 3 mm thick.

.15 Glazing Materials: As specified in Section 08 80 00.

.16 Eggcrate Lay-in Panel: 13 mm thick acrylic eggcrate grating, White colour; percentage opening and dimensions as indicated on Drawings.

.17 Metal Grille: Extruded aluminum to ASTM B221M, 6061-T5 alloy; anodized finish; linear design with percentage opening and dimensions as indicated on Drawings.

.18 Joint Sealants: As specified in Section 07 92 00, types as follows:
.1 Dry Areas and Food Preparation Wet Areas: Interior general purpose sealant, Type SEAL-INT-GP.
.2 Other Wet Areas: Interior mildew-resistant sealant, Type SEAL-INT-MR.

2.6 CASEWORK HARDWARE

.1 Unless specified otherwise, Provide cabinet hardware to ANSI/BHMA A156.9, Grade 1.

.2 Casework Hinges: Fully-concealed, adjustable, articulated, screw on type metal hinges; accommodating 100 degree, 110 degree, 125 degree, and 170 degree openings, and complete with soft-closing mechanism.

.3 Door and Drawer Pulls: Stainless steel, 10 mm OD handle, 185 mm overall length with 128 mm centre-to-centre fastening and 35 mm projection; eg. Contemporary Stainless Steel Handle Pull - 2102 by Richelieu.

.4 Drawer Box and Slides: Full extension for 60 kg load at 500 mm; roller runners for bottom mounting, steel construction with baked enamel finish, ball bearing rollers, and complete with self-closing mechanism.

.5 Continuous Hinges: To ANSI/BHMA A156.26; continuous stainless steel hinges, heavy duty type, length to suit full door height; eg. Roton 790-900 by Hager, with US32D finish.

.6 Cupboard and Drawer Locks: To ANSI/BHMA A156.11, Operational Class, Grade 1; chrome-plated finish, keyed to Owner's master keying system; lock types needed to accommodate door and drawer configurations indicated on Drawings.

.7 Door Bumpers: Nylon bumper; eg. Model MP303-11 by Richelieu.

.8 Pilaster Strips: 16 mm wide, 4 mm deep perforated metal strip, zinc plated; length as required; Model 2332GXX by Richelieu.

.9 Pilaster Clips: Heavy duty bent metal clips, zinc plated; Model CP2562G by Richelieu.

.10 Shelf Supports for Drilled Gables: 5 mm OD metal pin, plastic-clad; eg. Model 34004011 by Richelieu.

.11 Support Housing and Bolts: Nickel-plated metal, 9.5 mm mounting centre, suitable for 19 mm thick panels; complete with matching connecting bolt; eg. Rafix-SE Housing Model 263.15.705 by Hafele.

.12 Cable Grommets: Plastic counter top fitting for computer / telephone / power cables; two-part cable set with spring closure top, 50 mm OD; Black colour; eg. Model 60.2700.90 by Richelieu.

.13 Wire Management Moulding: 50 x 38 mm size, lengths as indicated; complete with mounting screws; Black colour; eg. Model 512490 by Richelieu.

.14 Automatic Door Bolt: Model 245.58.754 by Hafele.

.15 Base Cabinet Leveller: 100 mm size, adjustable to minus 5 mm and plus 10 mm; Model 637.45.326 by Hafele.

2.7 FABRICATION

.1 Prior to fabrication, verify existing conditions and take field measurements necessary to ensure a perfect fit.

.2 Fabricate Products to AWMAC NAAWS 4.0, Custom Grade.

.3 Manufacture casework as individual cabinets in standard width increments, or in custom widths where indicated on Drawings.

.4 Fabricate each module to be self-supporting with both exterior gables finished to allow removal and relocation without alterations to casework.

.5 Pre-drill and cut mounting holes for sinks, faucets and electrical receptacles.

.6 Finish exposed edges of veneer-faced components with 3.2 mm thick hardwood edgebanding, glued and nailed.

.7 Finish exposed edges of laminate-faced components with solid plastic edgebanding, applied with an edge-bander using hot melt adhesive.

.8 Secure wall case and floor case bottoms to casework with three locking mechanical fasteners at each end.

.9 Secure fixed shelves, toe space rails, bottom rails, and top rails to casework with two locking mechanical fasteners at each end.

.10 Limit unsupported span of shelving to AWMAC NAAWS 4.0.

.11 Rabbet gables and insert pilaster strips for flush, recessed appearance. Screw fasten pilaster strips in place.

.12 Construct joints to have a good fit, fully glued and rigid in final construction.

.13 Hardware Preparation: Factory install cabinet hinges, runners and hardware, anchoring components firmly into position for long life under hard use. Provide quantity of hinges as follows:
.1 Doors up to 1 000 mm High: Two.
.2 Doors up to 1 500 mm High: Three.
.3 Doors greater than 1 500 mm High: Four.

.14 Equally space banks of drawers, with minimum height of 120 mm.

.15 Apply decorative laminate to core materials as specified in Section 06 24 00.

.16 Factory seal cutouts and service fitting openings in countertops with moisture-resistant epoxy.

.17 Drill holes in gables to receive adjustable shelving pins. Provide ferow sleeves in drilled holes.

.18 Install glazing in casework doors where indicated on Drawings.

.19 Install neoprene or rubber bumpers at top and bottom of doors and drawers.

.20 Adjust doors and drawers to proper operation prior to installation.

2.8 FINISHES

.1 Transparent Finish on Hardwood and Hardwood Veneer-clad Products: To AWMAC NAAWS 4.0, System 12 - POLYURETHANE, WATER-BASED, Custom Grade for Transparent finish; colour and sheen as selected by Consultant.

.2 Opaque Finish on Unfaced Composite Panel and Softwood Products: To AWMAC NAAWS 4.0, System 4 - LATEX ACRYLIC, WATER-BASED, Custom Grade for Opaque finish; colour and sheen as selected by Consultant.

.3 Chrome/Nickel Plating on Metal Components: To ASTM B456, Type SC 2; electrodeposited nickel plus chromium coating; Polished.

.4 Stainless Steel: To AISI No. 5 - Satin or No. 6 - Matte.

2.9 SOURCE QUALITY CONTROL

.1 Arrange for AWMAC-appointed inspector to inspect architectural wood casework at point of fabrication.

.2 Pay costs of AWMAC inspection.

.3 Make Good rejected Products and workmanship.

3 Execution

3.1 INSTALLATION

.1 Install Products to AWMAC NAAWS 4.0, Custom Grade.

.2 Where practical, assemble finished casework at mill and deliver to Place of the Work ready for installation.

.3 Accurately fit joints and miters and set nail heads ready for finishing.

.4 Set and secure materials and components in place, rigid, square and plumb.

.5 Provide wood blocking, framing or furring shown on Drawings as part of casework fabrication or erection.

.6 Accurately scribe and closely fit compounds to irregularities of adjacent surfaces.

.7 Use draw bolts and splines to form tight, flush, hairline joints. Accurately fit joints in true plane, locate joints over bearing or supporting surfaces.

.8 Provide heavy duty fasteners, securely anchoring casework to floor, ceiling and wall surfaces. Use only concealed type fasteners.

.9 Where permitted, secure concealed elements with small headed finishing nails. Countersink nail heads with nail setter.

.10 Provide sinks, service fittings and electrical outlets. Coordinate with other Sections for connection to facility services.

.11 Where access is required to valves and other facility service components located behind casework, Provide removable wood access panels, each secured with minimum 4 brass screws.

.12 Install laminate-clad countertops as specified in Section 06 24 00.

.13 Install epoxy countertops as specified in Section 12 36 53.13.

.14 Provide closers and filler strips in matching finish as required to ensure a neat and complete finished assembly.

.15 Seal gaps and joints in wet areas with mildew-resistant joint sealer, and in non-wet areas with general purpose interior sealant. Conform to Section 07 92 00.

3.2 FIELD QUALITY CONTROL

.1 Arrange for AWMAC-appointed inspector to inspect architectural wood casework after installation.

.2 Pay costs of AWMAC inspection.

.3 Make Good rejected Products and workmanship.

3.3 ADJUSTING

.1 Adjust doors and drawers to proper operation after installation.

.2 Fill and touch up damaged finishes to match factory finish.

.3 Replace damaged Product that can not be repaired.

3.4 PROTECTION

.1 Refer to Section 01 76 00.

.2 Protect completed installation from damage with temporary protective coverings.

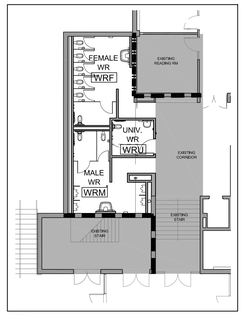
.3 Maintain protection until Owner occupancy.

END OF SECTION

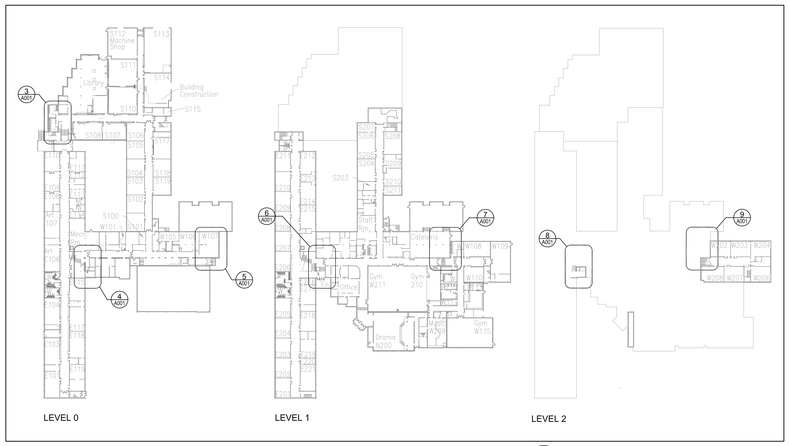
LEGEND:

EXISTING 1HR FIRE SEPARATION

NEW 1 HR. FIRE SEPARATION



3 / A001 LEVEL 0 PARTIAL PLAN- LIBRARY WASHROOMS 1:100



2 / A001 FIRE SEPARATION - KEY PLANS - LEVEL 0 &1&2 1:1000

Name of Practice:
Snyder Architects Inc.
100 Broadview Avenue, Suite 301
Toronto, Ontario M4M 3H3

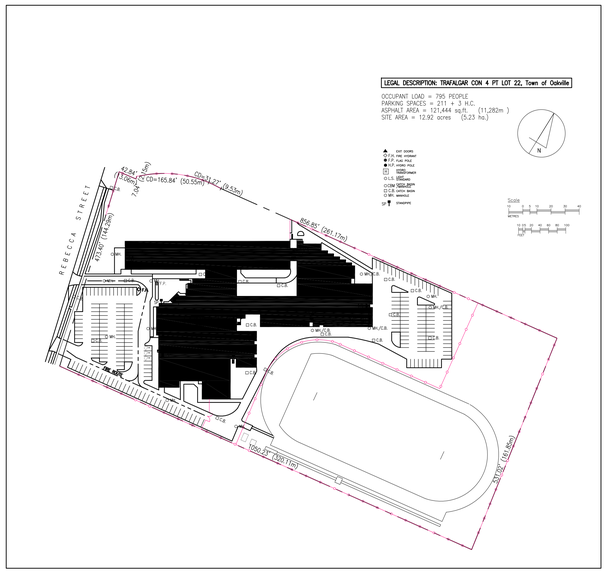
Name of Project:
T.A. Blakelock High School
Renovation

Location:
1160 Rebecca Street
Oakville, Ontario

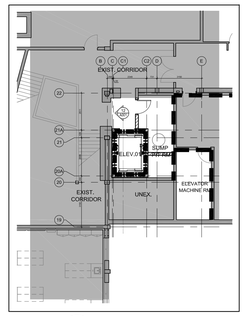
EXISTING BUILDING IS NOT SPRINKLERED
EXISTING BUILDING DOESN'T FALL UNDER ANY 3.2.2. O.B.C. CLASSIFICATION.

Ontario Building Code Data Matrix – Part 11 – Alteration of Existing Building

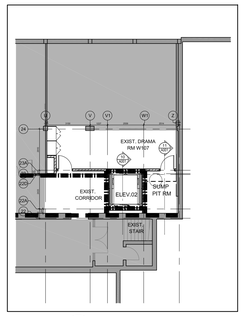
			BC Reference
11.1	Existing Building classification:	Describe Existing Use: School Construction Index: _N/A_____ Hazard Index: _N/A_____ ● Not Applicable (no change of major occupancy)	11.2.1 T 11.2.1.1A T 11.2.1.1B to N
11.2	Alteration to Existing Building is:	Basic Renovation ● Extensive Renovation O	11.3.3.1 11.3.3.2
11.3	Reduction in Performance Level:	Structural: ● No O Yes By increase in occupant load: ● No O Yes By change of major occupancy: ● No O Yes Plumbing: ● No O Yes Sewage system: ● No O Yes	11.4.2 11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5
11.4	Compensating Construction:	Structural: ● No O Yes (explain) Increase in occupant load: ● No O Yes (explain) Change of major occupancy: ● No O Yes (explain) Plumbing: ● No O Yes (explain) Sewage system: ● No O Yes (explain)	11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6
11.5	Compliance Alternatives Proposed:	● No O Yes (give number(s)) _____	11.5.1



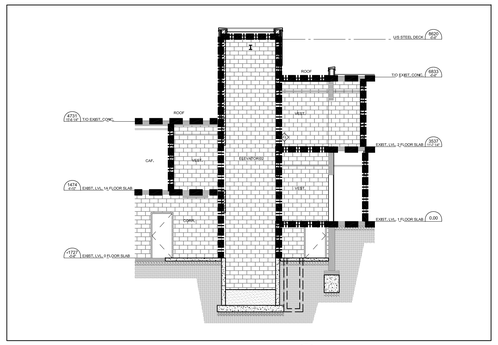
1 / A001 SITE PLAN 1:1500



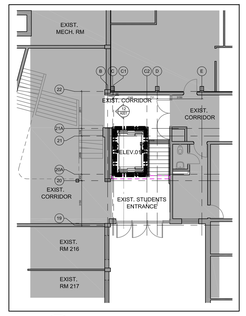
4 / A001 PARTIAL FLOOR PLAN - LEVEL 0 1:100



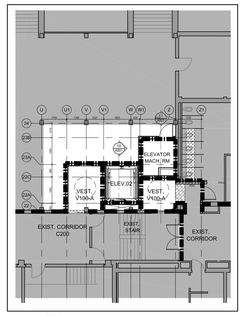
5 / A001 PARTIAL FLOOR PLAN - LEVEL 0 1:100



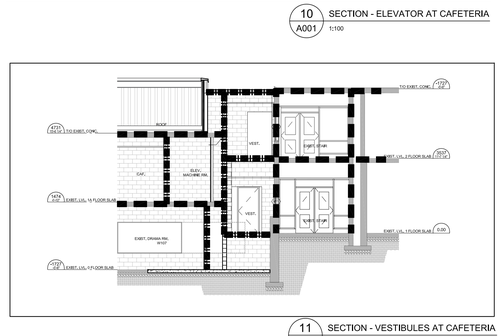
10 / A001 SECTION - ELEVATOR AT CAFETERIA 1:100



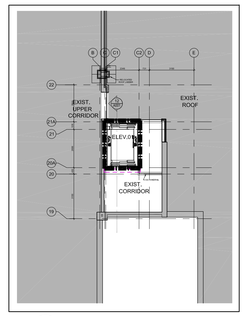
6 / A001 PARTIAL FLOOR PLAN - LEVEL 1 &1A 1:100



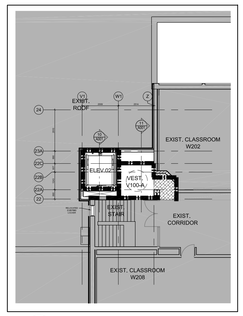
7 / A001 PARTIAL FLOOR PLAN - LEVEL 1 & 1A 1:100



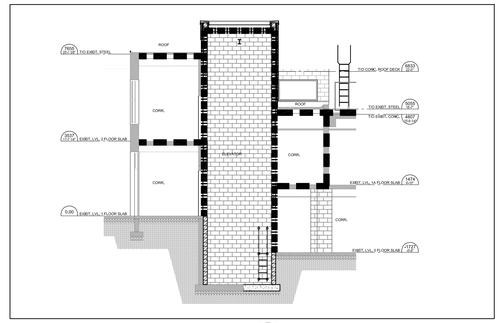
11 / A001 SECTION - VESTIBULES AT CAFETERIA 1:100



8 / A001 PARTIAL FLOOR PLAN - LEVEL 2 & ROOF 1:100



9 / A001 PARTIAL FLOOR PLAN - LEVEL 2 & ROOF 1:100



12 / A001 SECTION - ELEVATOR AT STUDENT ENTRANCE 1:100

PLUMBING FIXTURES REQUIREMENTS COUNT

OCCUPANT LOAD CALCULATIONS - per OBC table 3.1.17.1 (FOR PLUMBING)
EXISTING & NEW PLUMBING FIXTURES COUNT - per OBC table 3.7.4.3 (14)

STUDENTS

REGULAR CLASSROOMS	2731,7 sqm	/ 1,85 =	1476,6
SCIENCE ROOMS (LABS)	516,8 sqm	/ 4,60 =	112,4
SHOPS	1639,1 sqm	/ 9,30 =	176,3
SPEC ED (SHOP)	423,2 sqm	/ 9,30 =	45,5
TOTAL			1810,8

1811 / 2 = 901 OF EACH GENDER

PLUMBING FIXTURES REQUIRED:
901 BOYS / 30 = 30,03 FIXTURES REQUIRED
901 GIRLS / 26 = 34,65 FIXTURES REQUIRED

PLUMBING FIXTURES PROVIDED:

BOYS	34 FIXTURES
GIRLS	31 FIXTURES
SINGLE	8 FIXTURES

STAFF

CLASSROOMS/TEACHERS	62		62
OFFICES	513,0 sqm	/9,3 =	55,2
STORAGE/SERVICE	513,0 sqm	/46,0 =	11,2
TOTAL			128,4

128 / 2 = 64 OF EACH GENDER

PLUMBING FIXTURES REQUIRED:
64 MALE / 30 = 2,1 FIXTURES REQUIRED
64 FEMALE/ 26 = 2,5 FIXTURES REQUIRED

PLUMBING FIXTURES PROVIDED:

MALE STAFF	4 FIXTURES
FEMALE	4 FIXTURES

13 / A001 PLUMBING FIXTURES REQUIREMENTS COUNT & KEY PLANS 1:1000

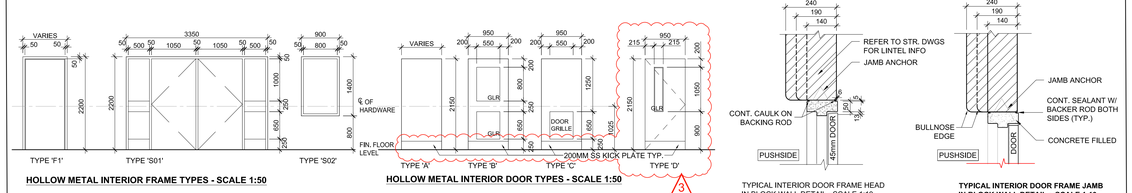
DOOR SCHEDULE (NEW DOORS)

MARK	ROOM NAME	INTERIOR DOOR: FIRE RATING	DOOR TYPE	LEAF WIDTH	LEAF HEIGHT	NO. OF LEAFS	THICKNESS	MATERIAL	FINISH	GLAZING	INTERIOR FRAME / SCREEN: SCREEN / FRAME TYPE	GLAZING	MATERIAL	FINISH	MULLION	COMMENTS
WRU	UNIVERSAL WASHROOM	-	A	1100	2150	1	45	HM	P	-	F1	-	HM	P	-	PDO
107	EXIST. DRAMA CLASSROOM	45 min. FRR	D	950	2150	1	45	HM	P	GLR	F1	-	HM	P	-	
107A	EXIST. DRAMA CLASSROOM	-	C	950	2150	1	45	HM	P	-	F1	-	HM	P	-	
100	EXISTING STAIRS	45 min. FRR	B	950	2150	2	45	HM	P	GLR	S01	GLR	HM	P	FIXED	
100C	SUMP PIT ROOM	-	C	950	2150	1	45	HM	P	-	F1	-	HM	P	-	
101	EXIST. GIRLS WASHROOM	45 min. FRR	A	950	2150	1	45	HM	P	-	F1	-	HM	P	-	
201	ELEVATOR MACHINE ROOM	45 min. FRR	A	950	2150	1	45	HM	P	-	F1	-	HM	P	-	
											S02	GLR	HM	P	-	1HR FRR

DOOR & FRAME SCHEDULE SCHEDULE LEGEND:			
HM	HOLLOW METAL	P	PAINT
GLR	TEMPERED FIRE-RATED GLASS	PF	PRE FINISHED
FRR	FIRE RESISTANT RATING	PDO	POWER DOOR OPERATOR

DOOR & FRAME SCHEDULE NOTES:

1. ALL DOORS AND FRAMES MUST HAVE APPROPRIATE REINFORCING.
2. ALL FRAMES TO BE CONCRETE FILLED.
3. FOR HARDWARE, REFER TO HARDWARE SCHEDULE.
4. ALL FRAMES IN FIRE SEPARATION AREAS TO BE FIRE RATED.



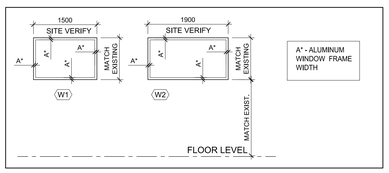
HOLLOW METAL INTERIOR FRAME TYPES - SCALE 1:50

HOLLOW METAL INTERIOR DOOR TYPES - SCALE 1:50

TYPICAL INTERIOR DOOR FRAME HEAD IN BLOCK WALL DETAIL - SCALE 1:10

TYPICAL INTERIOR DOOR FRAME JAMB IN BLOCK WALL DETAIL - SCALE 1:10

14 / A001 DOOR AND FRAME SCHEDULE, TYPES AND DETAILS AS NOTED



15 / A001 WINDOW TYPES 1:50

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Project North / True North

No.	Revisions	Date
3	RE-ISSUED W/ ADDENDUM NO. 4	2025 05 05
2	ISSUED FOR TENDER	2025-04-17
1	ISSUED FOR BUILDING PERMIT	2025-04-08
No.	Issue	Date

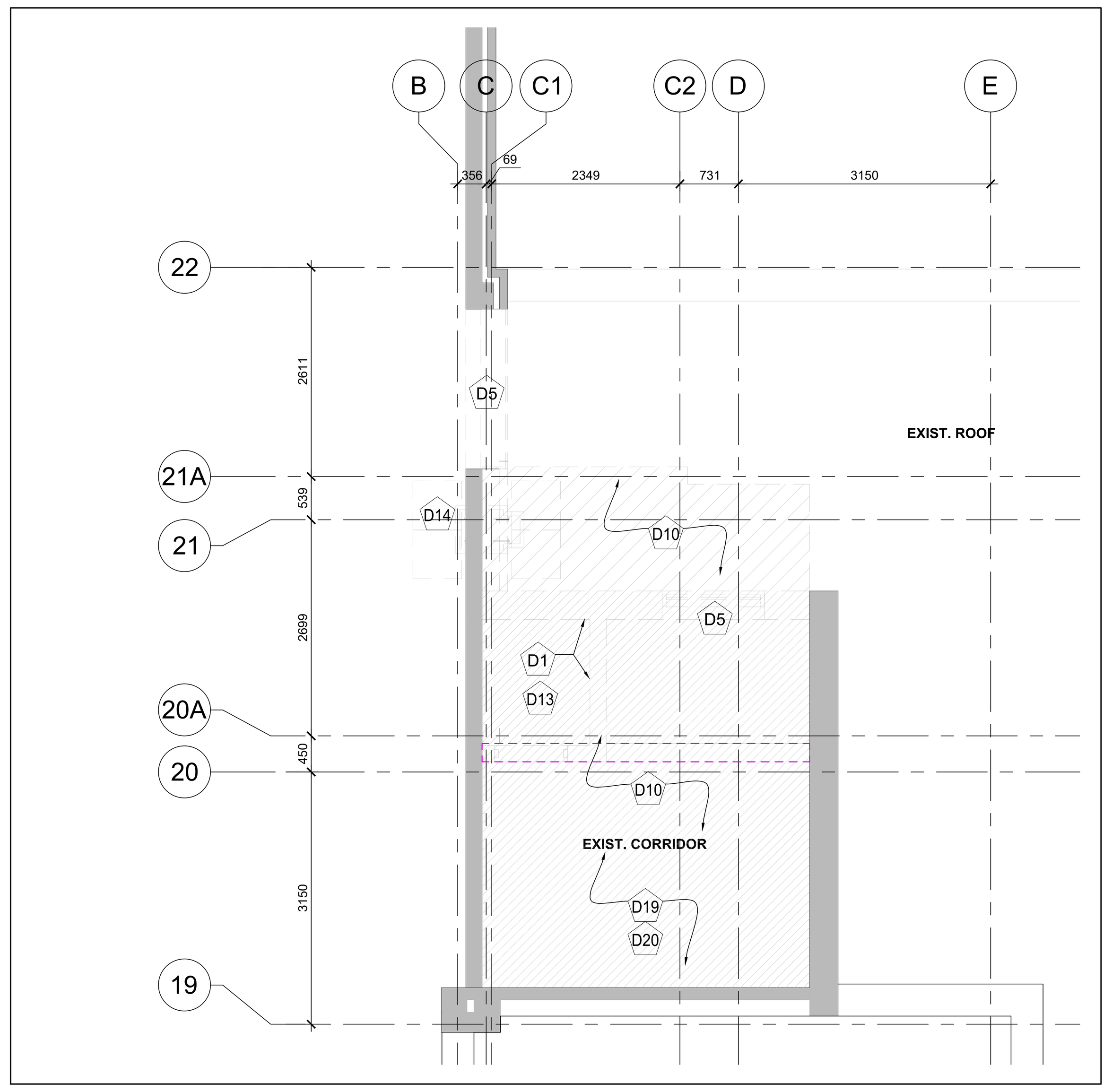
General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

ONTARIO ASSOCIATION OF ARCHITECTS
AVANT GARDE LICENCE 5242

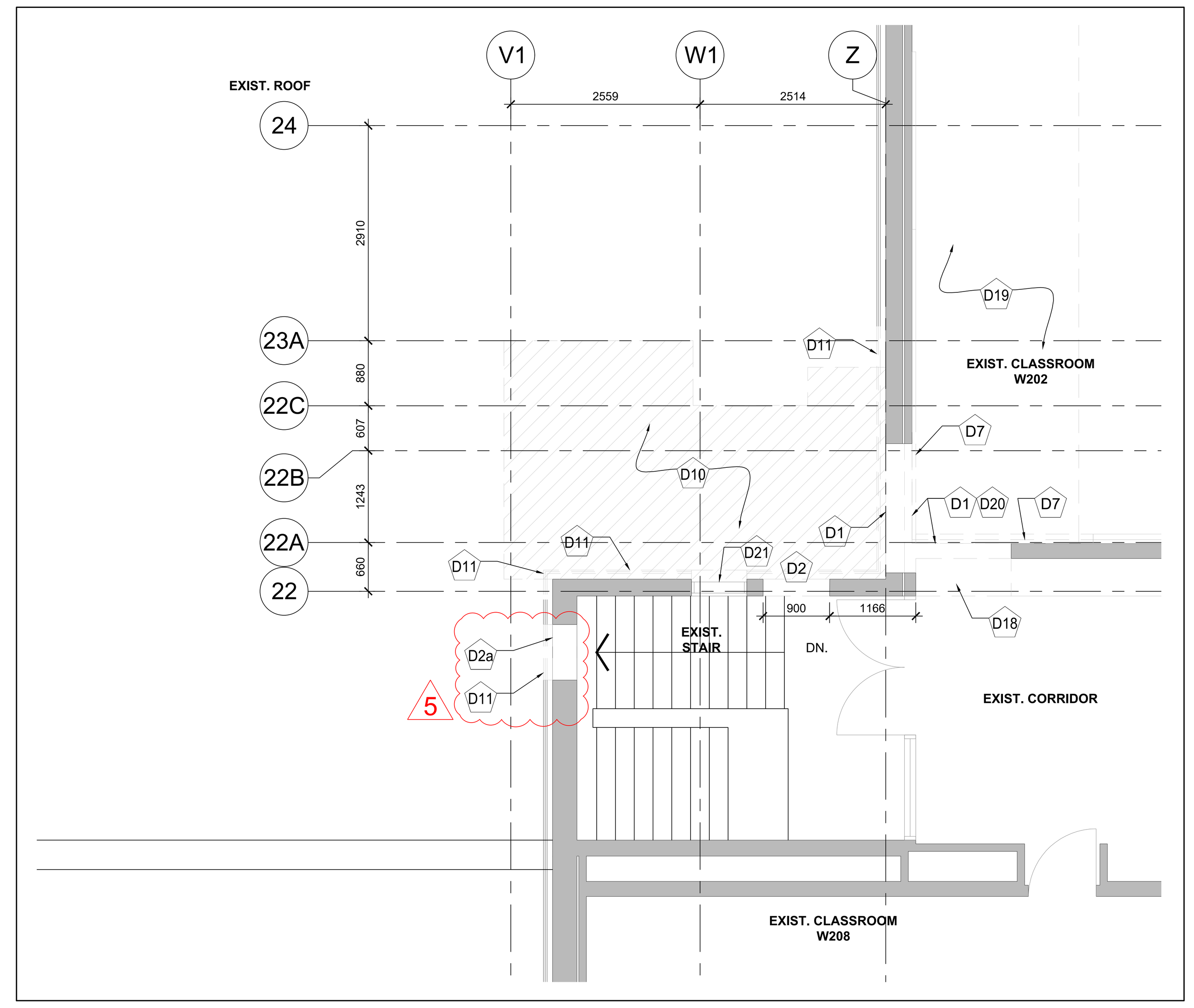
Drawing Title:
SITE PLAN, KEY PLANS
FIRE SEPARATIONS,
OBC MATRIX, SCHEDULES

Scale: AS NOTED	Date: 2025 03 25
Drawn by:	Checked by:
Job No. 2215-C	Drawing No. A001

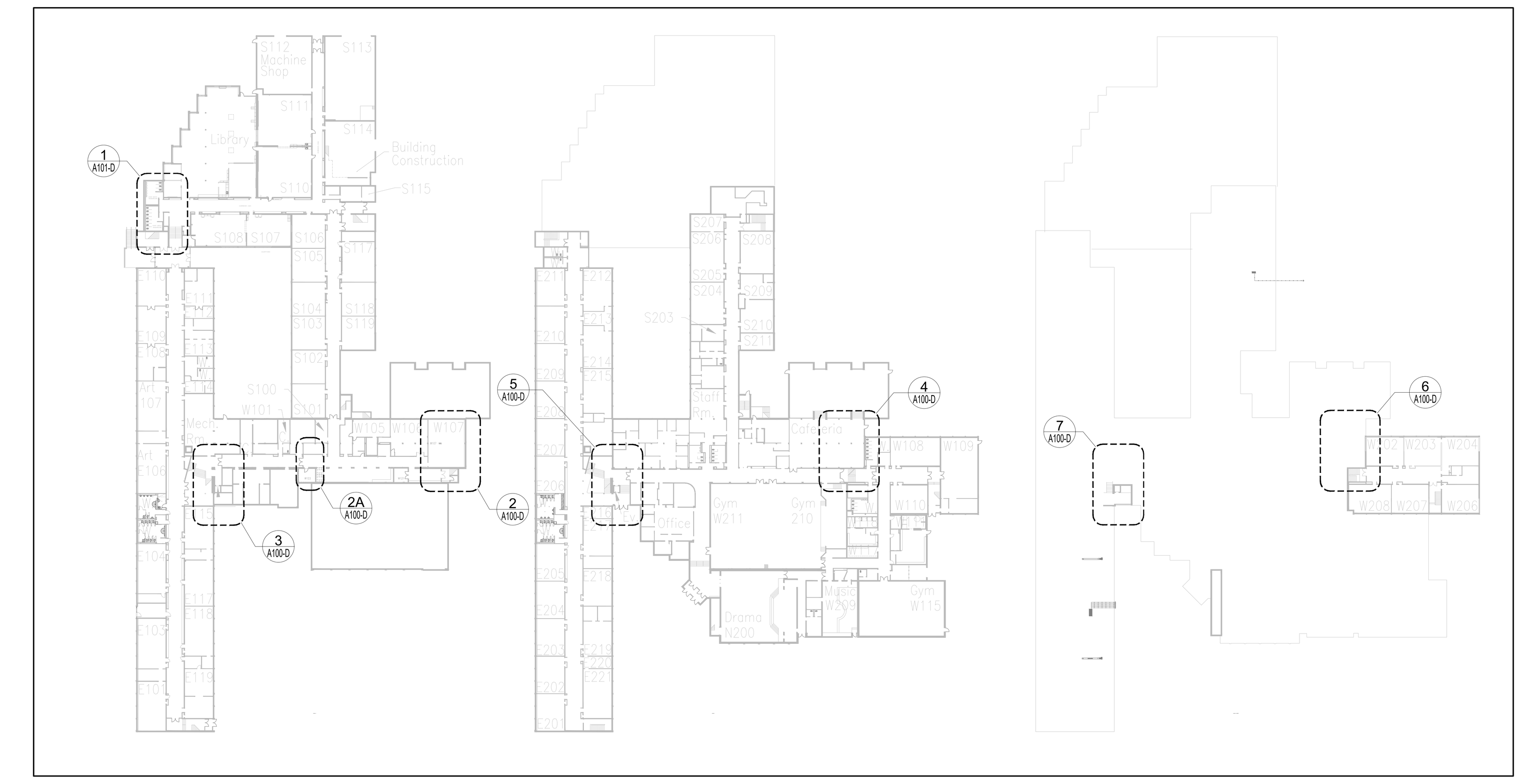
CAD File:



7 PARTIAL FLOOR PLAN - LEVEL 2 & ROOF
A101-D 1:50



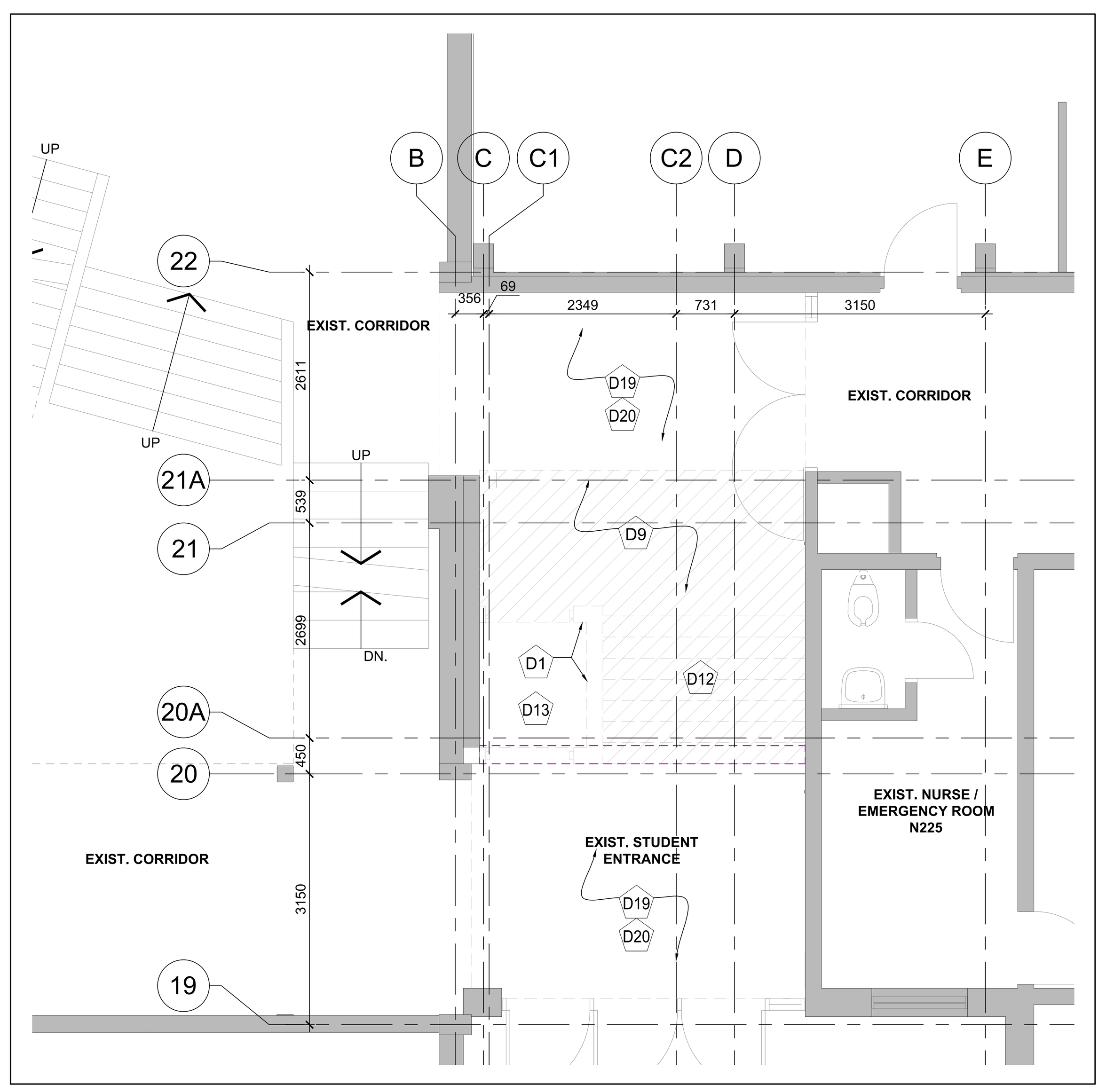
6 PARTIAL FLOOR PLAN - LEVEL 2 & ROOF
A101-D 1:50



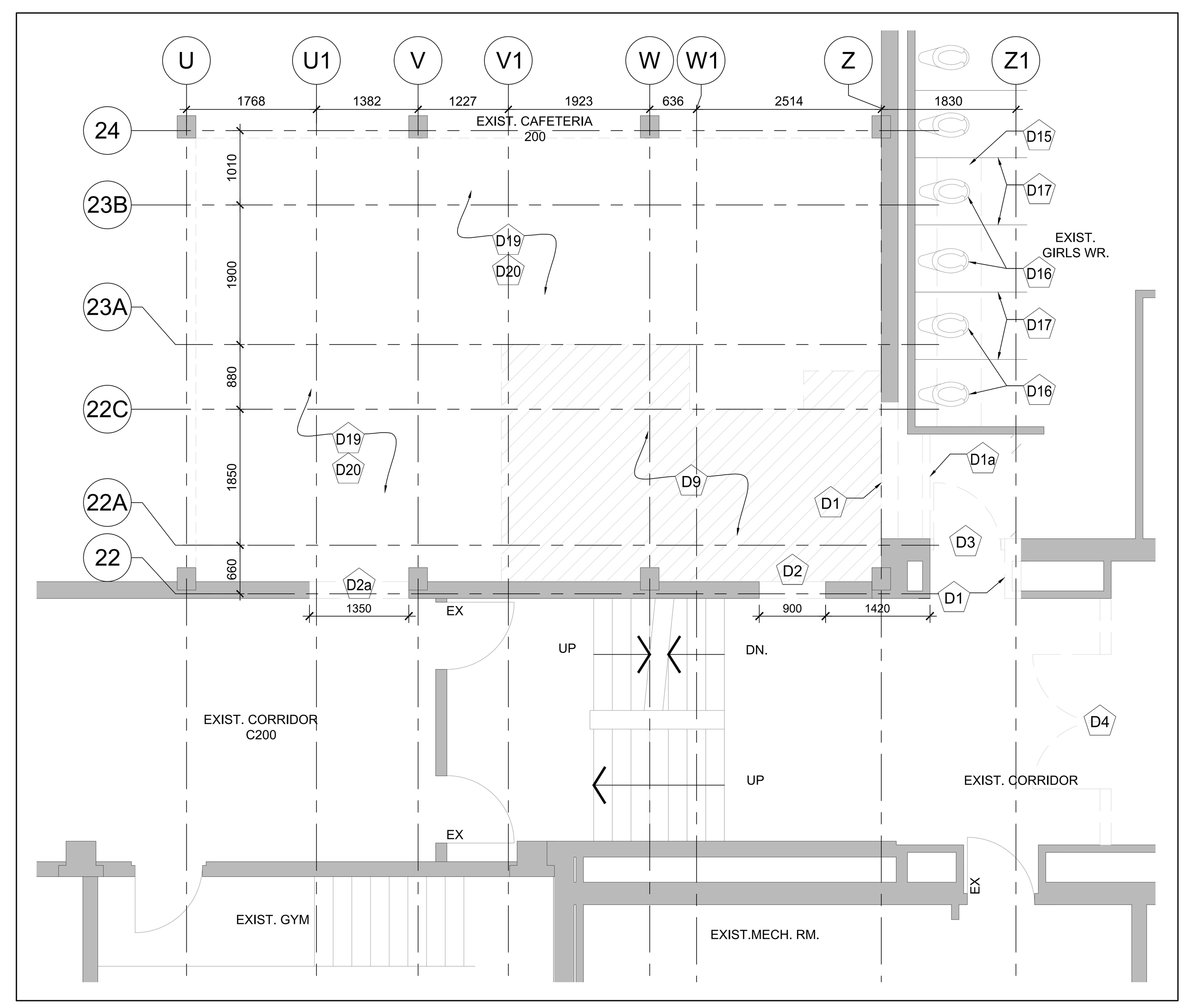
1 KEY PLANS - LEVEL 0, 1 & 2
A100-D 1:1000

ALTERATION TO EXISTING AREA LEGEND:

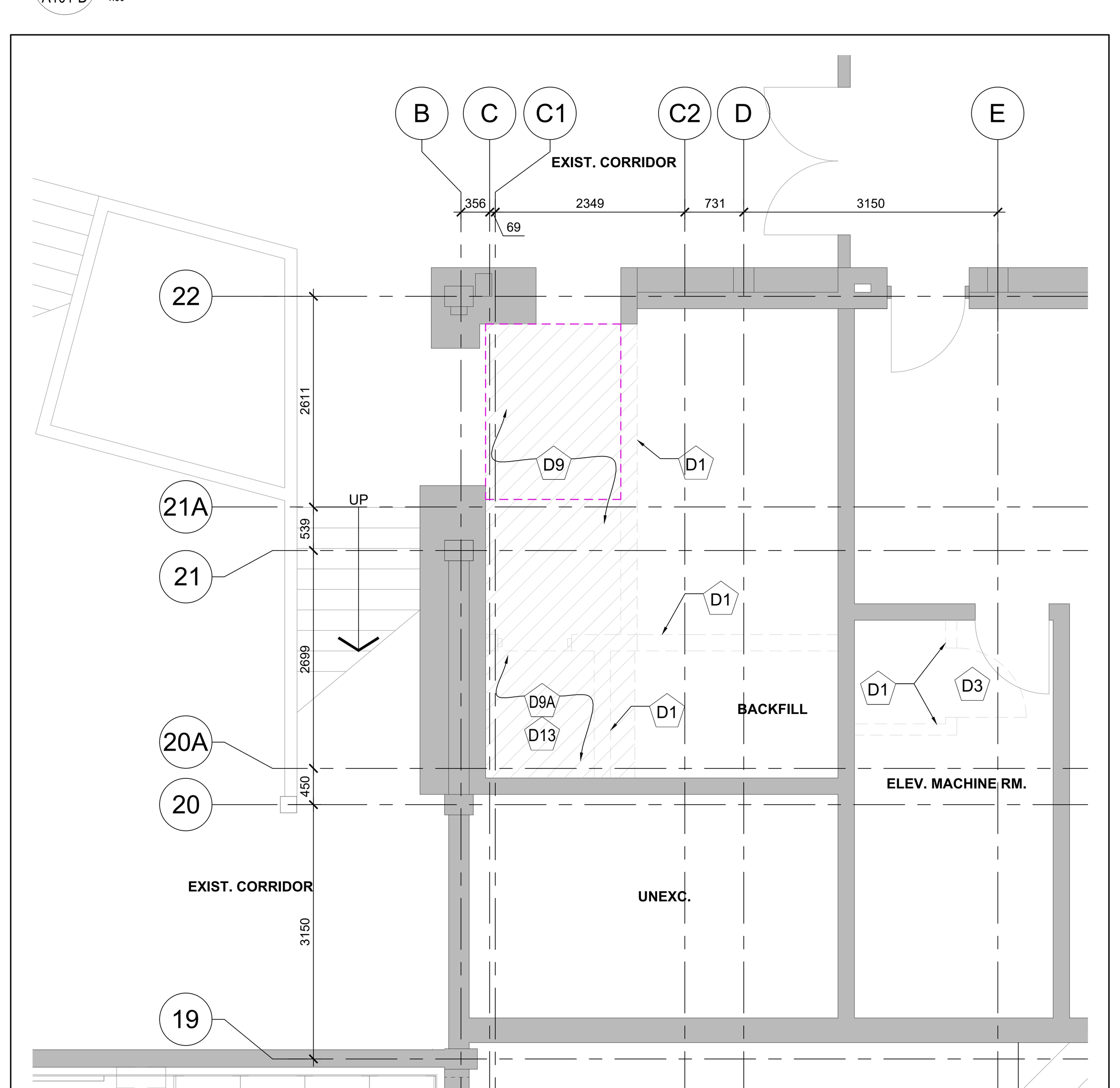
- EXISTING WALLS TO REMAIN
- EXISTING DOOR TO REMAIN
- EXISTING SCREEN TO REMAIN
- EXISTING WALL, DOOR, OR OTHER COMPONENT (MILLWORK, PLUMBING FIXTURE, MECHANICAL & ELECTRICAL EQUIPMENT) TO BE REMOVED/DEMOLISHED
- APPROXIMATE EXTENT OF SLAB/ROOF REMOVAL - REFER TO NOTE #4, 'GENERAL DEMOLITION NOTES'
- APPROXIMATE EXTENT OF SLAB RESTORATION - REFER TO NOTE #4, 'GENERAL DEMOLITION NOTES'



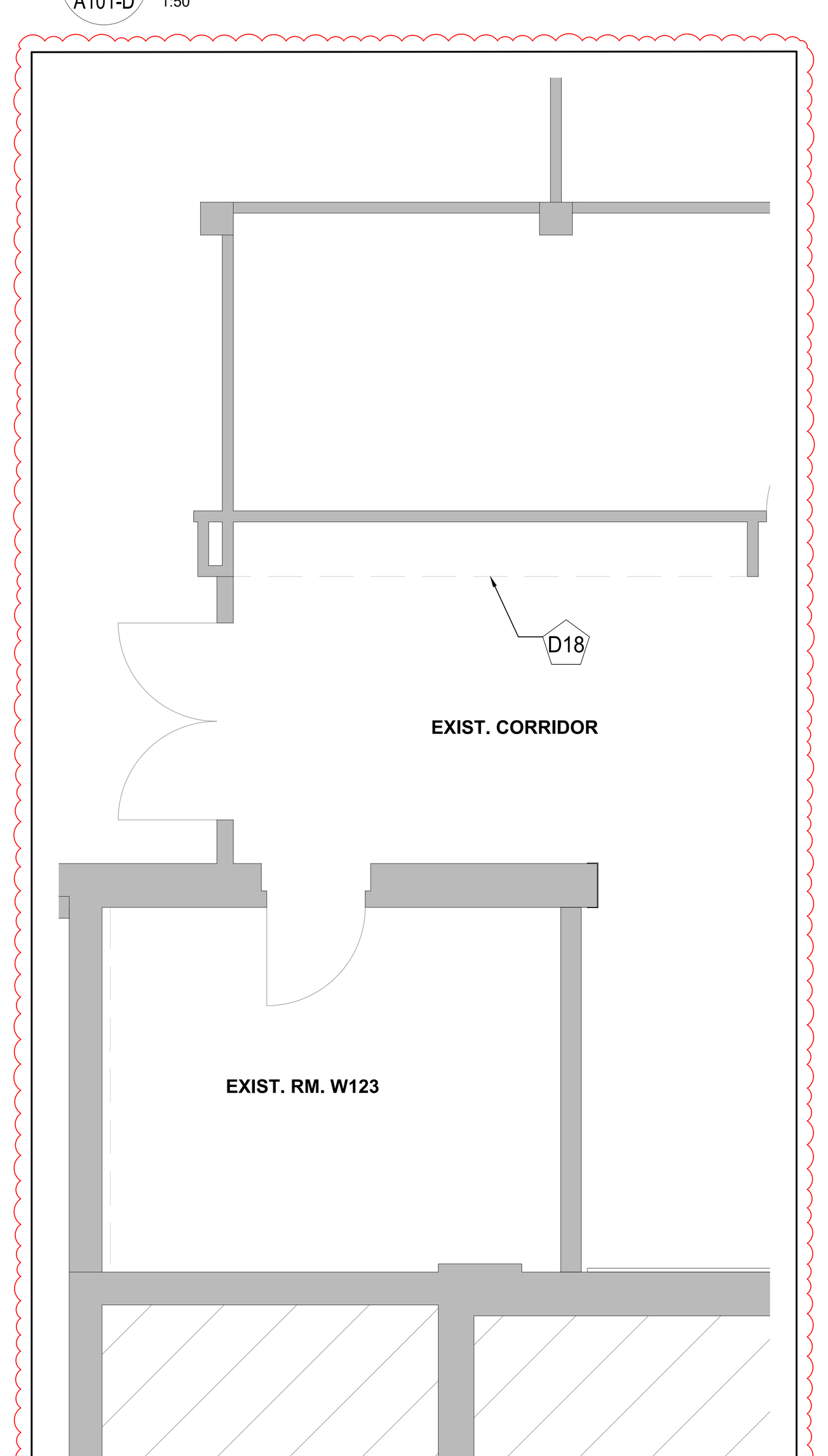
5 PARTIAL FLOOR PLAN - LEVEL 1 & 1A
A101-D 1:50



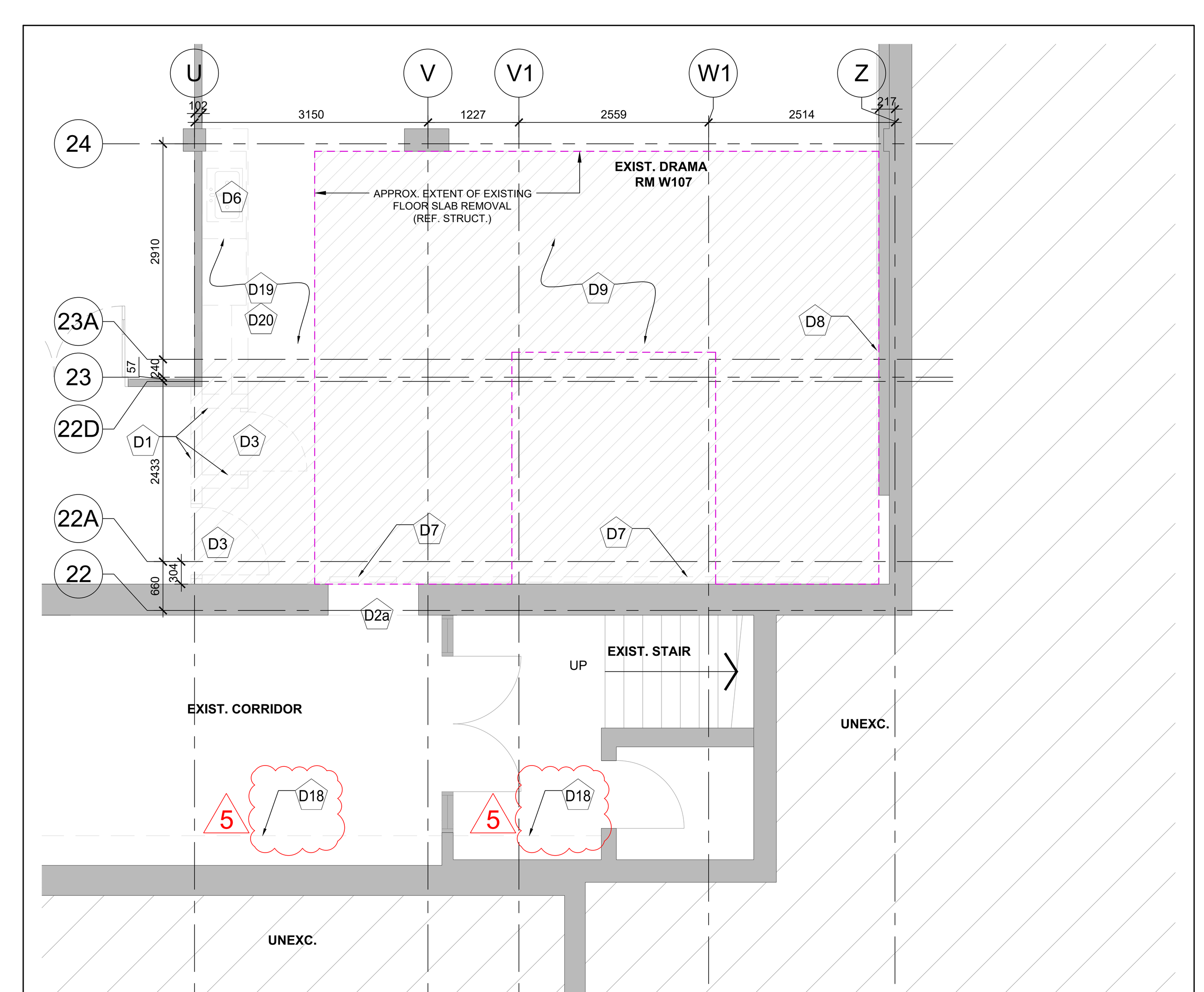
4 PARTIAL FLOOR PLAN - LEVEL 1 & 1A
A101-D 1:50



3 PARTIAL FLOOR PLAN - LEVEL 0
A101-D 1:50



2A PARTIAL FLOOR PLAN - LEVEL 0 5
A101-D 1:50



2 PARTIAL FLOOR PLAN - LEVEL 0
A101-D 1:50

GENERAL DEMOLITION NOTES:

1. REFER TO SPECS & ABATEMENT REPORT REGARDING DESIGNATED SUBSTANCES REMOVAL.
2. ALL DEMOLITION SCOPE SHOWN ON DESIGNATED SUBSTANCES ABATEMENT DOCUMENTS ARCH., STRUCTURAL, MECH. & ELECTRICAL DWGS IS BY SC01.
3. SC01 TO PROVIDE DEMOLITION REQUIRED FOR NEW MASONRY OPENINGS OR MODIFICATIONS TO EXISTING MASONRY OPENINGS, IN LOCATIONS WHERE NEW DOORS ARE BEING PROVIDED.
4. DEMOLITION SCOPE REGARDING SLAB REMOVAL AND ASSOCIATED RESTORATION: SC02 TO NEATLY SAW-CUT AND REMOVE /DISPOSE CONCRETE SLAB. SC01 TO REMOVE REQUIRED EXTENT OF FILL AND PROVIDE LEAN MIX CONCRETE WHERE REQD. (SEE STRUCT. DWGS). SC01 TO PROVIDE COMPACTED BACKFILL, NEW CONCRETE SLAB (AS PER STRUCT. DWG S001) AND DISPOSE OF ANY REMAINING SPOILS.
5. PROTECT AND PROPERLY STORE ANY DOORS REMOVED TEMPORARILY BY CONTRACTOR TO FACILITATE CONSTRUCTION ACTIVITIES. REINSTATE AFTER CONSTRUCTION IS COMPLETED.
6. ARCHITECTURAL DEMOLITION DRAWINGS MUST BE READ IN CONJUNCTION WITH STRUCTURAL, MECH, AND ELEC DEMOLITION DRAWINGS. REFER TO STRUCTURAL, MECH, & ELEC DEMOLITION DRAWINGS FOR COORDINATION.
7. CONTRACTOR TO PATCH, REPAIR, AND MAKE GOOD ALL HOLES OR DAMAGE DUE TO GENERAL DEMOLITION ON EXISTING MASONRY SURFACES TO REMAIN.
8. CONTRACTOR TO FILL IN AND FINISH HOLES LEFT ON THE FLOORS OR WALLS AFTER DEMOLITION TO MATCH WITH EXISTING SURROUNDING MATERIALS.
9. CONTRACTOR TO ENSURE THAT THE PORTION OF THE BUILDING BEING RETAINED IS HANDED BACK TO THE OWNER (ON COMPLETION OF CONSTRUCTION) IN A CONDITION SIMILAR TO ITS EXISTING CONDITION OR BETTER. THIS REQUIREMENT INCLUDES PROVISION OF ALL NECESSARY PROTECTIVE MEASURE LIKE SECURITY, PROTECTION FROM THE ELEMENTS AND WEATHER, HEATING / DEHUMIDIFICATION AS NECESSARY, ETC.

DEMOLITION NOTES:

D1 REMOVE AND DISPOSE EXISTING MASONRY WALL, PARTITION WALL AND/OR CHASE WALL (FULL HEIGHT) C/W ALL ASSOCIATED AND/OR ATTACHED COMPONENTS. FILL IN CONCRETE BLOCK HOLES AND/OR MASONRY ROUGH SURFACES WITH CEMENTITIOUS MATERIAL TO MAKE SMOOTH FOR RECEIVING NEW FINISH MATERIAL. REFER TO STRUCT. FOR DEMOLITION COORDINATION.

D1a REMOVE AND DISPOSE EXISTING MASONRY WALL, PARTITION WALL AND/OR CHASE WALL (FULL HEIGHT) C/W ALL ASSOCIATED AND/OR ATTACHED COMPONENTS. CAP TERMINATED SERVICES, OR PREPARE FOR RELOCATION - REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS. REPAIR AND MAKE GOOD ALL SURFACES. MAKE READY TO RECEIVE PROPOSED WORK.

D2 REMOVE AND DISPOSE EXISTING MASONRY WALL FOR NEW DOOR AND/OR SCREEN OPENING. REMOVE ASSOCIATED AND/OR ATTACHED COMPONENTS. CAP TERMINATED SERVICES, OR PREPARE FOR RELOCATION - REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILS. MAKE GOOD ALL SURFACES & READY TO RECEIVE NEW WORK.

D2a REMOVE AND DISPOSE EXISTING MASONRY WALL FOR NEW OPENING. FILL IN CONCRETE BLOCK HOLES AND/OR MASONRY ROUGH SURFACES WITH CEMENTITIOUS MATERIAL TO MAKE SMOOTH FOR RECEIVING NEW FINISH MATERIAL.

D3 REMOVE AND DISPOSE EXISTING DOOR AND FRAME C/W ALL ASSOCIATED COMPONENTS. MAKE GOOD AFFECTED SURFACES TO RECEIVE NEW FINISH MATERIAL.

D4 REMOVE AND DISPOSE EXISTING SCREEN C/W ALL ASSOCIATED COMPONENTS. MAKE GOOD AFFECTED SURFACES TO RECEIVE NEW FINISH MATERIAL.

D5 REMOVE AND DISPOSE EXISTING WINDOW & FRAME C/W ALL ASSOCIATED COMPONENTS. MAKE GOOD AFFECTED SURFACES READY TO RECEIVE NEW WINDOW.

D6 REMOVE AND DISPOSE EXISTING MILLWORK ASSEMBLY WITH SUPPORTING FRAMING, AND ALL ASSOCIATED COMPONENTS. MAKE GOOD AND PREPARE TO RECEIVE NEW FINISHES. ALLOW FOR IN-FILL AND REPAIR OF EXISTING, DAMAGED MASONRY WALL. COORDINATE W/ MECH. DEMOLITION.

D7 REMOVE EXISTING CHALKBOARD, MARKER BOARD, OR TACK BOARD INCLUDING ADHESIVE. MAKE GOOD (INCLUDE IN-FILLING OF DAMAGED BLOCK & PATCHING) & READY TO RECEIVE NEW WORK.

D8 REMOVE EXISTING MIRROR WITH SUPPORTING BACKING, AND ALL ASSOCIATED COMPONENTS. MAKE GOOD AND PREPARE TO RECEIVE NEW PAINT. ALLOW FOR FILL IN OF DAMAGED MASONRY WALL.

D9 CUT, REMOVE AND DISPOSE EXISTING FLOOR SLAB TO CREATE TRENCH OR NEW OPENING PER PROPOSED LAYOUT. REFER TO MECH., ELEC. & STRUC. DWGS. FOR ADDITIONAL REQUIREMENTS AND UNDERSLAB CONNECTIONS. MAKE GOOD (ALL TRADES) ALL AFFECTED SURFACES READY TO RECEIVE PROPOSED WORK/FINISH.

D9A REMOVE AND DISPOSE EXISTING LIFT CONCRETE PAD FOOTING. REFER TO STRUC. FOR DEMOLITION COORDINATION.

D10 CUT, REMOVE AND DISPOSE EXISTING ROOF ASSEMBLY C/W ASSOCIATED COMPONENTS, SUCH AS (BUT NOT LIMITED TO) METAL FLASHING, ROUGH CARPENTARY AND PARAPET ASSEMBLY (WHERE REQUIRED). REFER TO STRUC., MECH. & ELEC. DWGS. FOR DEMO COORDINATION. EXISTING ROOF DECK TO REMAIN.

D11 REMOVE AND DISPOSE PORTION OF EXISTING EXTERIOR METAL WALL PANEL AS INDICATED C/W ASSOCIATED COMPONENTS.

D12 CUT, REMOVE AND DISPOSE EXISTING STAIR C/W ASSOCIATED COMPONENTS, SUCH AS (BUT NOT LIMITED TO) HANDRAIL. REFER TO STRUC. FOR DEMOLITION COORDINATION.

D13 SC06 ELEVATORS - TO REMOVE AND DISPOSE EXISTING LIFT C/W ASSOCIATED COMPONENTS AND SC01 GENERAL TO REMOVE AND DISPOSE EXISTING LIFT MASONRY SHAFT AND ACCESS DOORS C/W ASSOCIATED COMPONENTS. REFER TO STRUC., MECH. & ELEC. FOR DEMOLITION COORDINATION.

D14 CAREFULLY REMOVE AND STORE EXISTING PATIO STONES AND METAL ROOF LADDER C/W ASSOCIATED COMPONENTS TO BE RELOCATED AT PROPOSED NEW LOCATION. FILL IN ANY HOLES IN EXISTING EXTERIOR WALLS OR ROOF FROM REMOVAL OF LADDER.

D15 CUT AND REMOVE EXISTING TERAZZO FLOORING AND SLAB WITH ITS SUB-BASE FOR THE PURPOSE OF REMOVING EXISTING OR PLACING NEW SERVICES. REFER TO MECH. DWGS FOR MORE INFO. NOTE THAT THE AREA SHOWN IS APPROXIMATE AND GENERAL CONTRACTOR IS TO REMOVE ALL AREAS REQUIRED TO COMPLETE THE NEW WORK.

D16 SC02 MECHANICAL TO CAREFULLY REMOVE & STORE EXISTING TOILET FIXTURES AS REQUIRED FOR PURPOSE OF PLACING NEW SERVICES AND REINSTATE FIXTURES ONCE ALL NEW WORK IS COMPLETED.

D17 SC05 TOILET PARTITIONS - TO CAREFULLY REMOVE EXISTING TOILET PARTITIONS AND COORDINATE WITH SC01 GENERAL TO STORE AT A SAFE PLACE. REINSTATE PARTITIONS ONCE ALL WORK IN THE AREA IS COMPLETED.

D18 REMOVE EXISTING LOCKERS WITH ALL COMPONENTS INCLUDING EXIST. CONC. BASE PLATFORM. MAKE GOOD ALL AFFECTED SURFACES AND PREPARE TO RECEIVE NEW FINISHES.

D19 SC01 GENERAL TO REMOVE AND DISPOSE EXISTING VCT FLOORING AND MECHANICALLY REMOVE ADHESIVES TO HAVE A SMOOTH SURFACE READY TO RECEIVE SKIM COAT. SC04 FLOORING TO SUBSEQUENTLY PREPARE SURFACE TO RECEIVE SPECIFIED NEW FLOOR FINISH.

D20 REMOVE AND DISPOSE EXISTING WALL BASE. MAKE GOOD AFFECTED SURFACES FOR NEW WALL BASE INSTALLATION.

D21 CAREFULLY REMOVE AND STORE EXISTING LOUVRE C/W ASSOCIATED COMPONENTS TO BE RELOCATED AT PROPOSED NEW LOCATION.

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Project North | True North

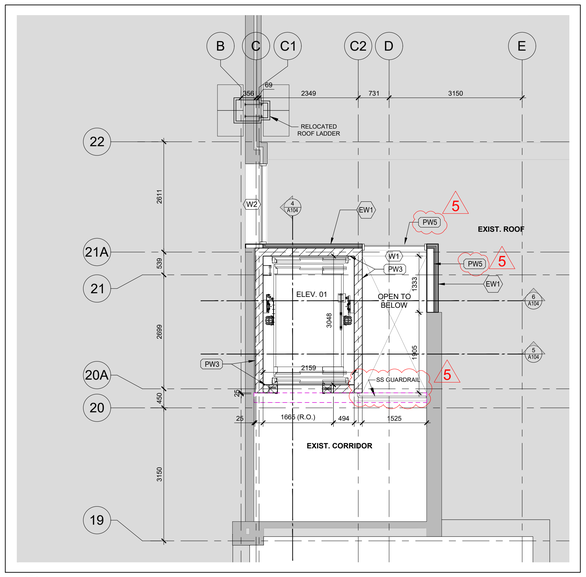
No.	Revisions	Date

No.	Issue	Date
5	ISSUED FOR ADDENDUM 04	2025 05 02
4	ISSUED FOR ADDENDUM 01	2025 04 24
3	ISSUED FOR TENDER	2025 04 17
2	ISSUED FOR PERMIT	2025 04 08
1	ISSUED FOR REVIEW	2025 02 12

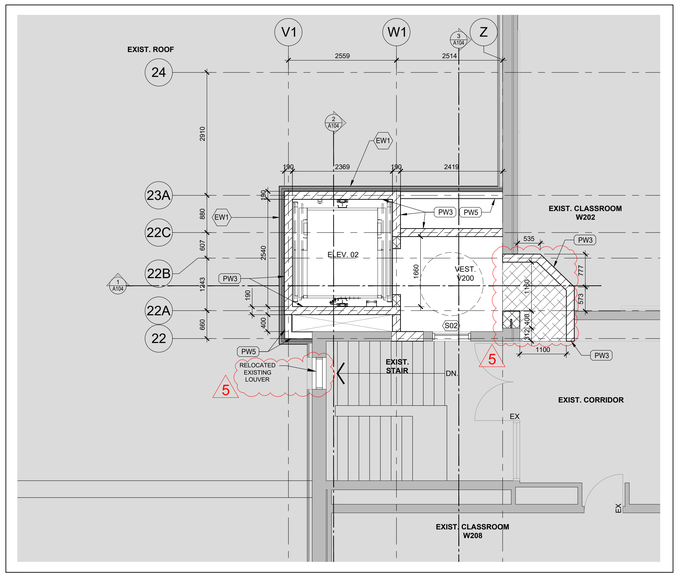
ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
LICENCE
6242

Drawing Title:
KEY PLAN
FLOOR PLANS
ELEVATORS - DEMO

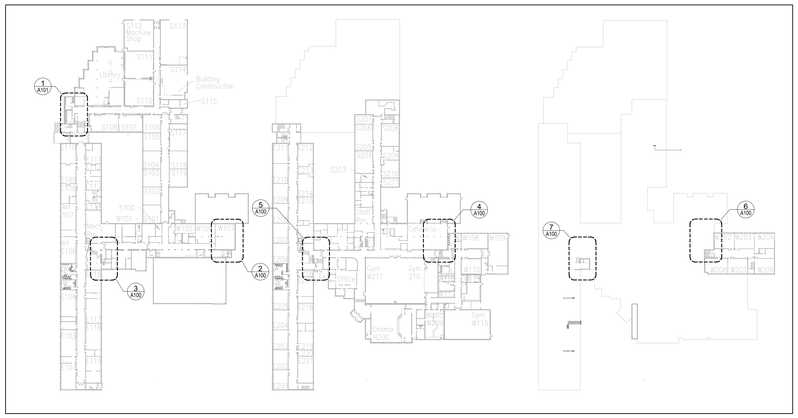
Scale: AS NOTED	Date: 2025 02 06
Drawn by:	Checked by:
Job No. 2215-C	Drawing No. A100-D



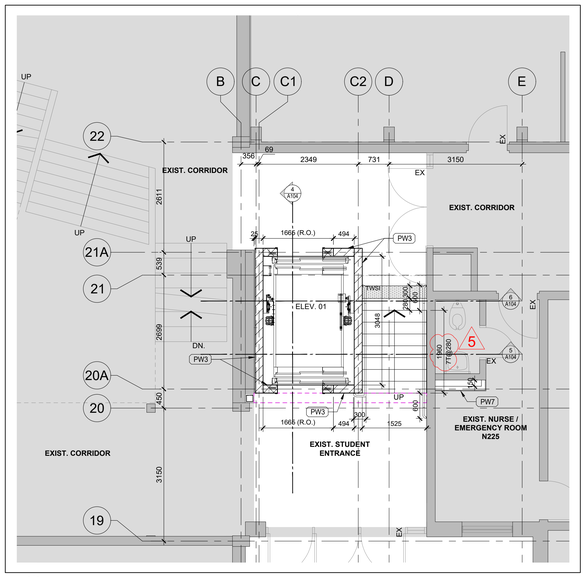
7 A100 PARTIAL FLOOR PLAN - LEVEL 2 & ROOF 1:50



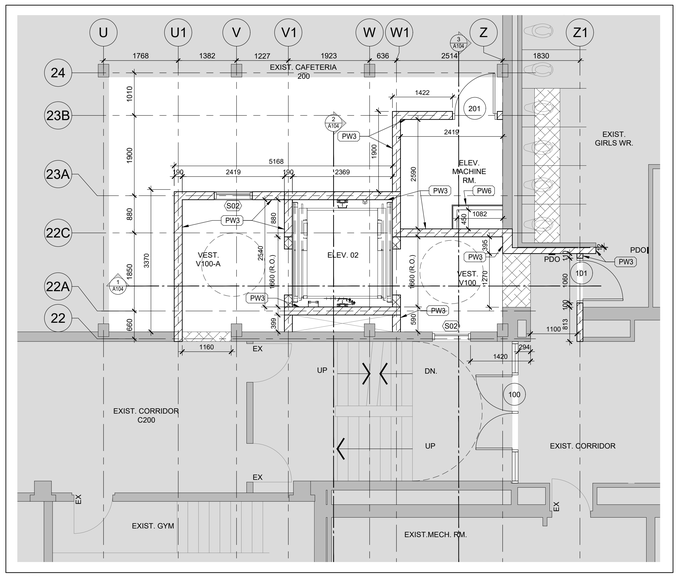
6 A100 PARTIAL FLOOR PLAN - LEVEL 2 & ROOF 1:50



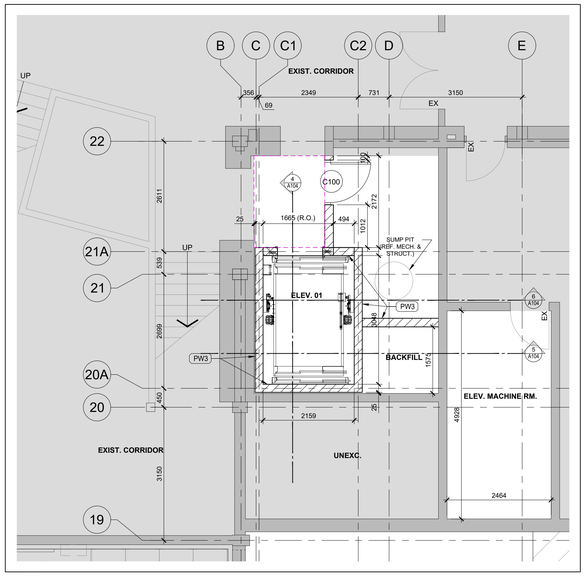
1 A100 KEY PLANS - LEVEL 0, 1 & 2 1:1000



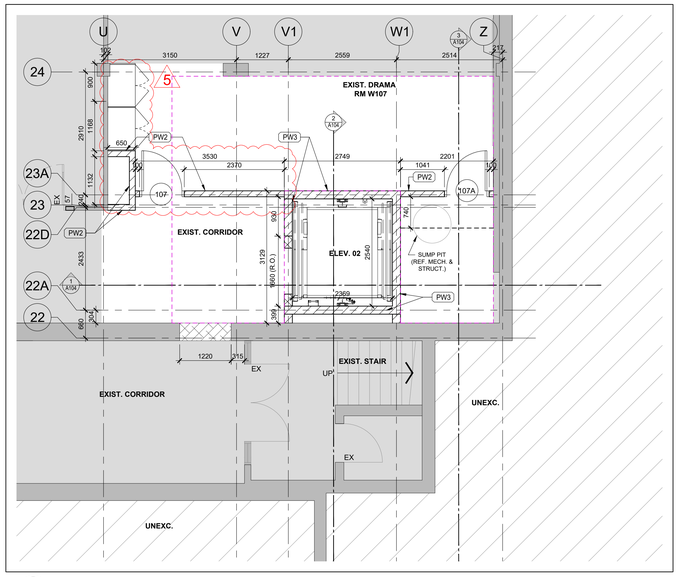
5 A100 PARTIAL FLOOR PLAN - LEVEL 1 & 1A 1:50



4 A100 PARTIAL FLOOR PLAN - LEVEL 1 & 1A 1:50



3 A100 PARTIAL FLOOR PLAN - LEVEL 0 1:50



2 A100 PARTIAL FLOOR PLAN - LEVEL 0 1:50

LEGEND

- EXISTING WALLS TO REMAIN
- NEW MASONRY WALL
- NEW STUD PARTITION
- EXISTING AREA NOT INCLUDED IN THE SCOPE OF RENOVATION WORK
- EXISTING DOOR TO REMAIN
- NEW DOOR AND FRAME - REFER TO DOOR SCHEDULE
- APPROXIMATE EXTENT OF SLAB RESTORATION / NEW SLAB. COORDINATE W/ STRUCTURAL DWGS.
- AREA OF FLOOR IN-FILL & REPAIR. REFER TO DWG. A103.

NEW WALL TYPES:

- EW1 — METAL WALL PANEL (MWP) on 25mm Z-GIRT on 75mm THERMAL SPACERS W/ 75mm SPRAY FOAM INSUL. (INS-FIP-1)
- PW1 — 90mm CONCRETE MASONRY UNIT WALL
- PW2 — 140mm CONCRETE MASONRY UNIT WALL
- PW3 — 190mm CONCRETE MASONRY UNIT WALL
- PW4 — 290mm CONCRETE MASONRY UNIT WALL
- PW5 — 13mm GSB (EXTERIOR SIDE) 152mm METAL STUDS @400mm O.C. W/ 100mm INS-BB-1 16mm GB-AR
- PW6 — 2 LAYERS OF 16mm TYPE 'X' GB (GB-AR) 92mm METAL STUDS @400mm O.C. W/ 89mm INS-BB-1
- PW7 — 16mm GB (ABUSE AND WATER RESISTANT) 92mm METAL STUDS @400mm O.C. W/ 89mm INS-BB-1

ABBREVIATIONS:

ACT	- ACOUSTIC CEILING TILE
AFF	- ABOVE FINISH FLOOR
CAF.	- CAFETERIA
CET.	- CERAMIC TILE
CMU	- CONCRETE MASONRY UNIT
CONT.	- CONTINUOUS
CORR.	- CORRIDOR
C/S	- SEALED CONCRETE
C/W	- COMPLETE WITH
E.J.	- EXPANSION JOINT
ELEV.	- ELEVATOR
EX/EXIST.	- EXISTING
EXP.	- EXPOSED
EXT	- EXTERIOR
FD	- FLOOR DRAIN, SEE MECH. DWGS
FRR	- FIRE RESISTANT RATING
GB	- GYPSUM BOARD
GB-AR	- ABUSE RESISTANT GYPSUM BOARD
GB-FR	- FIRE RATED GYPSUM BOARD
HM	- HOLLOW METAL
PFT	- PORCELAIN FLOOR TILE
PDO	- POWER DOOR OPERATOR
RD	- ROOF DRAIN
R.O.	- ROUGH OPENING
SIM	- SIMILAR
T/O	- TOP OF
UNO	- UNLESS NOTED OTHERWISE
UNEXC.	- UNEXCAVATED
U/S	- UNDERSIDE
VEST.	- VESTIBULE
W/	- WITH

ROOF TYPES & LEGEND:

R1 BUILT-UP BITUMINOUS ROOFING (SECTION 07 51 00)
GRAVEL SURFACE FINISH (HOT APPLIED FLOOD COAT)
4-PLY TYPE IV FELT WITH 1-PLY COMPOSITE FELT WITH HOT APPLIED INTER-PLY ADHESIVE
13mm COVER BOARD
TAPERED INSULATION (INS-RB-3) WHERE REQUIRED
100mm / 2 LAYERS (MIN.) ROOF INSULATION (INS-RB-3)
VAPOUR RETARDER
13mm UNDERLAY BOARD
METAL DECK
STEEL ROOF STRUCTURE - SLOPE ACCORDING TO ROOF PLAN

R1a BUILT-UP BITUMINOUS ROOFING (SECTION 07 51 00)
SAME AS R1 EXCEPT
EXISTING METAL/CONCRETE DECK

R2 ROOFING TO MATCH EXISTING BUILT-UP ASPHALT ROOFING
BITUMEN AND GRAVEL SURFACE
1-PLY MODIFIED MEMBRANE PLUS 3 PLY BITUMINOUS FELT MEMBRANE
13mm FIBERBOARD
VARYING THICKNESS TAPERED INSULATION
63.5mm ROOF INSULATION
VAPOUR RETARDER
EXISTING METAL/SIPOREX DECK

5

NEW FLOOR TYPES:

F1 FLOOR TYPE 1
FLOOR FINISH AS PER ROOM FINISH SCHEDULE
CONCRETE SLAB - THICKNESS AS PER STRUCT.
BELOW-SLAB VAPOUR RETARDER
AGGREGATE BASE COURSE

F2 FLOOR TYPE 2 (1 HR FIRE RATED)
FLOOR FINISH AS PER ROOM FINISH SCHEDULE
CONCRETE ON STEEL DECK ON STEEL FRAME

FIRE PROTECTION SCHEDULE

	CONDITION	FRR REQ'D	FIRE PROTECTION
BEAM/ LINTEL	LINTEL >2m @ LOAD BEARING WALL	1 HR	CMU (TYP.): **OBC SB-2.1.1**; or SPRAY FIREPROOFING: **ULC #F906** or PROVIDE INTUMESCENT COATING* or GYPSUM BOARD ASSEMBLY: **ULC #D503**
	LINTEL >3m @ NON-LOAD BEARING WALL	1 HR	
	IN 1HR FIRE SEPARATION	1 HR	
	SUPPORTING FLOOR	1 HR	
FLOOR	ALL FLOOR ASSEMBLIES	1 HR	POUR IN PLACE CONCRETE: **OBC SB-2.2.1** FLOOR TYPE F2 - COMPOSITE FLOOR: **ULC #F906**
WALL	FIRE SEPARATIONS AS SHOWN ON DRAWINGS	1 HR	CMU (TYP.): **OBC SB-2.1.1**; or GYPSUM WALL ASSEMBLY: **ULC #W407**
CEILING	AS 1 HR FIRE SEPARATION	1 HR	MEMBRANE CEILING: **OBMEC #89-1-118**

FIRE PROOFING NOTES:

1. PROVIDE FIRESTOP & SEAL AT ALL SLAB EDGES.
2. PROVIDE FIRESTOP & SEAL AT ALL STRUCTURAL MEMBER THAT PENETRATE FIRE SEPARATIONS.
3. PROVIDE FIRESTOP & SEAL AT ALL FIRE SEPARATIONS THAT TERMINATES @ EXTERIOR WALLS.
4. ENSURE REQUIRED RATING WITH CMU; GROUT SOLID WHERE NECESSARY.
5. SEAL TOP OF FIRE SEPARATION WITH FIRE STOPPING.
6. PRIME ROOF BEAMS, ALL LINTELS & EXPOSED BEAMS.
7. CONTRACTOR TO PROVIDE APPROPRIATE CMU TYPE TO ACHIEVE REQUIRED FIRE RATING AT SPECIFIED THICKNESS.

* INTUMESCENT COATING SYSTEM TO YIELD FRR AS NOTED IN SCHEDULE ABOVE. REFER TO SPEC SECTION 09 96 46 FOR DETAILS.

FIRE RATING LEGEND

REFER TO A001 FOR INDICATION OF FIRE SEPARATIONS ON FLOOR PLANS

FIRE PROOFING NOTES:

1. FIRE STOP AT ALL CORRIDOR PENETRATIONS NEW AND EXISTING. MAINTAIN EXISTING FIRE SEPARATIONS. ASSUME EXISTING CORRIDORS ARE 1HOUR RATED. PROVIDE FLANGES ON DUCT PENETRATIONS AND FIRE DAMPERS AT CORRIDOR WALL FOR NEW DUCTS.
2. PROVIDE FIRESTOP & SEAL AT ALL FIRE SEPARATIONS THAT TERMINATE AT EXTERIOR WALLS.
3. ENSURE REQUIRED RATING WITH CMU; GROUT SOLID WHERE NECESSARY.
4. SEAL TOP OF FIRE SEPARATION WITH FIRE STOPPING, OR ULC RATED ASSEMBLY OF SAME RATING AS THE FIRE SEPARATION.
5. SPRAY ALL NEW BEAMS, COLUMNS SUPPORTING FLOOR ASSEMBLY W/ 1 HOUR FRR SPRAY FIREPROOFING EXCEPT WHERE INTUMESCENT PAINT IS SPECIFIED (ALL EXPOSED STRUCTURAL STEEL ELEMENTS).
6. PRIME ALL LINTELS - REFER TO STRUCT. DWGS AND SPECS.
7. PROVIDE FIRE PROOFING PRODUCTS AS LISTED IN THE ULC/ cUL NOTED, OR APPROVED EQUIVALENT.

GENERAL FLOOR FINISH NOTES:

1. TRANSITION STRIP IN EVERY CHANGE OF MATERIAL.
2. ALL TRANSITIONS BETWEEN DIFFERING MATERIALS TO BE FLUSH.
3. ALL FLOOR FINISH TRANSITIONS TO MEET UNDER DOOR (WHERE DOOR OCCURS).
4. ALL TERRAZZO IN-FILLS TO EXTEND TO NEXT METAL STRIP.
5. CONTROL JOINT IN TILING SYSTEM EVERY 10 METERS.
6. ALL EXISTING BASE TO BE REMOVED PRIOR TO NEW BASE INSTALLATION.

GENERAL CONSTRUCTION NOTES:

1. IN AREAS WITH EXPOSED STRUCTURE, DUCTS / PIPES AND CONDUITS SHALL BE MOUNTED TIGHT TO U/S OF SLAB OR DECK, ROUTED PARALLEL AND PERPENDICULAR TO WALLS.
2. PAINT ALL NEW EXPOSED STRUCTURE, DUCTS, PIPES, CONDUITS.
3. PAINT ALL NEW GYPSUM BOARD, AND ALL NEW CONCRETE BLOCK SURFACES TO MATCH ADJACENT EXISTING WALLS.
4. AT LOCATIONS OF ANY ARCHITECTURAL, MECHANICAL & ELECTRICAL EQUIPMENT REMOVAL, INSTALLATION, OR RELOCATION, INFILL WALL, OR CEILING OPENINGS WITH MASONRY & MORTAR (OR GYPSUM ASSEMBLY), FINISH TO MATCH EXISTING ADJACENT.
5. PROVIDE LINTELS AT OPENINGS FOR NEW DUCTS IN EXIST. AND NEW MASONRY WALLS, WHERE REQUIRED. REFER TO MECH. AND STRUCT. DWGS.
6. ALL INTERIOR PARTITION WALLS TO BE EXTENDED UP TO UNDERSIDE OF ROOF DECK ABOVE UNLESS NOTED OTHERWISE. NON LOAD BEARING WALLS TO STOP 25mm BELOW THE UNDERSIDE OF UNDERSIDE OF ROOF DECK. PROVIDE CONTINUOUS SOUND SEALS AT TOP. (ULC) LISTED FIRE STOP & SMOKE SEAL @ U/S OF ROOF DECK AND PENETRATIONS PERIMETER REQUIRED AT ALL RATED WALLS.
7. PROVIDE BULLNOSE CMU WHERE OUTSIDE CORNERS ARE EXPOSED - TYPICAL. FIRST COURSE ABOVE FINISHED FLOOR NOT TO HAVE BULLNOSE, TO ALLOW CLEAN INSTALLATION OF BASE MATERIAL. CMU COURSE AT CEILINGS NOT TO HAVE BULLNOSE EDGE. THIS IS TO PROVIDE CLEAN CONNECTION WITH CEILING MATERIALS.
8. ALL DIMENSIONS ON FLOOR PLANS ARE SHOWN AS MASONRY OPENINGS. (ROUGH OPENINGS)
9. ALL STEEL LINTELS/ BEAMS IN EXTERIOR WALLS TO BE GALVANIZED- SEE SPECIFICATIONS.
10. WALLS ABOVE OPENINGS TO BE MASONRY U.N.O. (LINTELS REFER TO STRUCTURAL DRAWINGS)
11. CONTRACTOR TO VERIFY EXISTING BUILDING DIMENSIONS AND MODIFY NEW CONSTRUCTION TO SUIT.
12. GRIND DOWN OR RAISE EXISTING FLOOR SUBSTRATE TO PROVIDE POSITIVE DRAINAGE TO NEW OR EXISTING FLOOR DRAIN.
13. USE SELF LEVELING COMPOUND IF REQUIRED UPON REMOVAL OF EXISTING FLOORING TO SUITE NEW FLOOR INSTALLATION.
14. ALL CONCRETE COURSES AT CONNECTION OF BRACKETS/STEEL ANGLES MUST BE ¾100 SOLID (TYPICAL).

GENERAL NOTES:

1. CONTRACTOR TO ENSURE THAT THE PORTION OF THE BUILDING BEING RETAINED IS HANDED BACK TO THE OWNER (ON COMPLETION OF CONSTRUCTION) IN A CONDITION SIMILAR TO IT'S EXISTING CONDITION OR BETTER. THIS REQUIREMENT INCLUDES PROVISION OF ALL NECESSARY PROTECTIVE MEASURES LIKE SECURITY, PROTECTION FROM THE ELEMENTS AND WEATHER, HEATING / DEHUMIDIFICATION AS NECESSARY, ETC.
2. TO PERFORM DEMOLITION OF EXISTING BUILDING ELEMENTS CO-ORDINATE WITH STRUCTURAL AND MECHANICAL & ELECTRICAL DRAWINGS.
3. CONTRACTOR IS RESPONSIBLE TO CUT EXISTING SLAB ON GRADE AS INDICATED FOR NEW SANITARY & PIPELINES. REFER TO MECH. DWGS. FOR EXACT LOCATIONS. INFILL FLOOR SLAB TO MATCH EXISTING AND MAKE GOOD ALL AFFECTED SURFACES.
4. SOIL BEARING PRESSURE SHALL BE VERIFIED BY GEOTECHNICAL ENGINEER BEFORE PLACING CONCRETE AND REPORT SHALL BE PROVIDED TO BUILDING INSPECTOR.
5. CONTRACTOR IS RESPONSIBLE TO CAREFULLY REMOVE EXISTING CEILING TILE TO ACCOMMODATE ALL NEW MECH. & ELEC. CONNECTIONS. REINSTATE TILE AFTER WORK IS COMPLETE. REFER TO MECH. DWGS. FOR EXACT LOCATIONS.
6. FOR EXACT QUANTITIES AND LOCATIONS OF MECHANICAL & ELECTRICAL ITEMS, PLEASE REFER MECHANICAL & ELECTRICAL DWGS.

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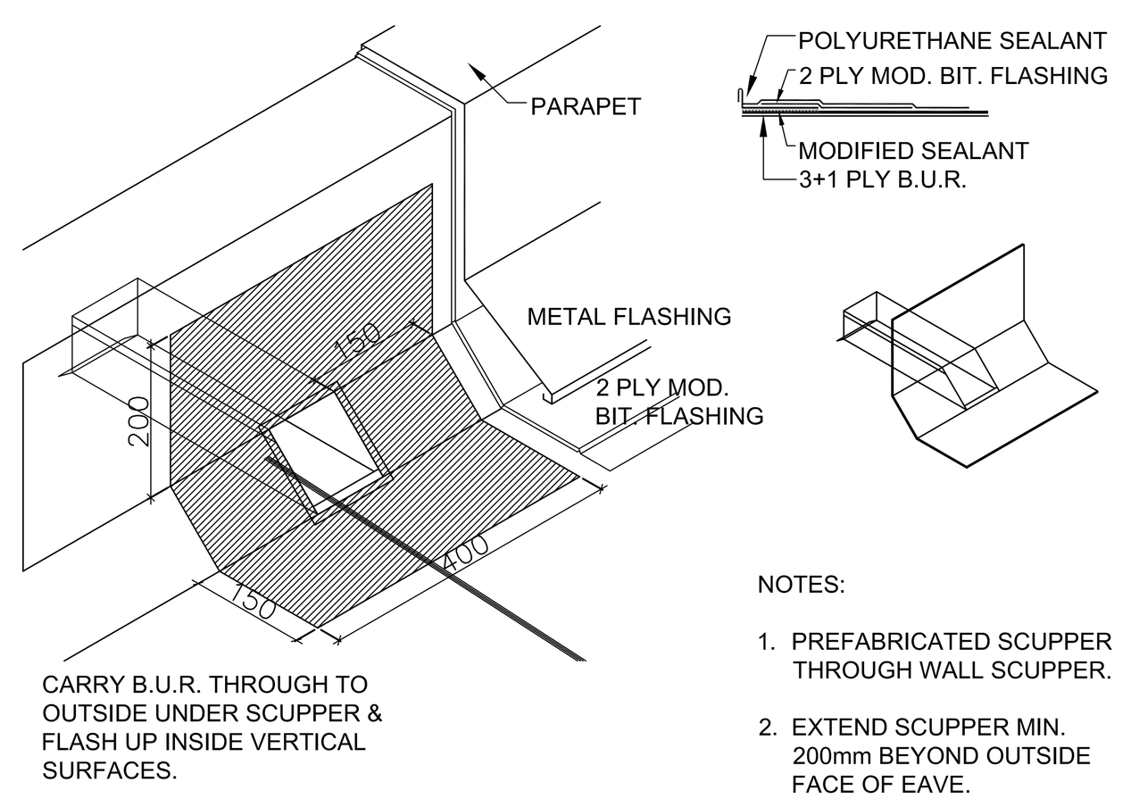
Project North / True North

No.	Revisions	Date
5	ISSUED FOR ADDENDUM 04	2025 05 05
4	ISSUED FOR ADDENDUM 01	2025 04 24
3	ISSUED FOR TENDER	2025 04 17
2	ISSUED FOR PERMIT	2025 04 08
1	ISSUED FOR REVIEW	2025 02 12
No.	Issue	Date

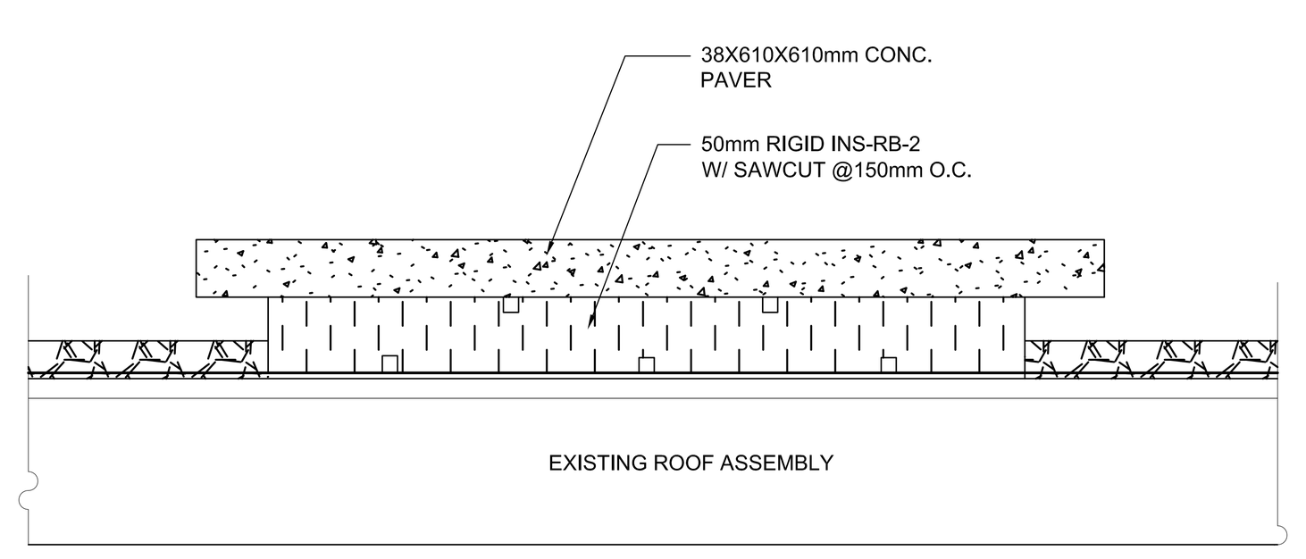
ONTARIO ASSOCIATION OF ARCHITECTS — MEGHAN GARDE — LICENCE 6242

Drawing Title:
KEY PLAN
FLOOR PLANS
ELEVATORS - NEW

Scale:	AS NOTED	Date:	2025 02 06
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	A100



9 A100A SCUPPER DETAIL
N.T.S.



8 A100A CONCRETE PAVER DETAIL
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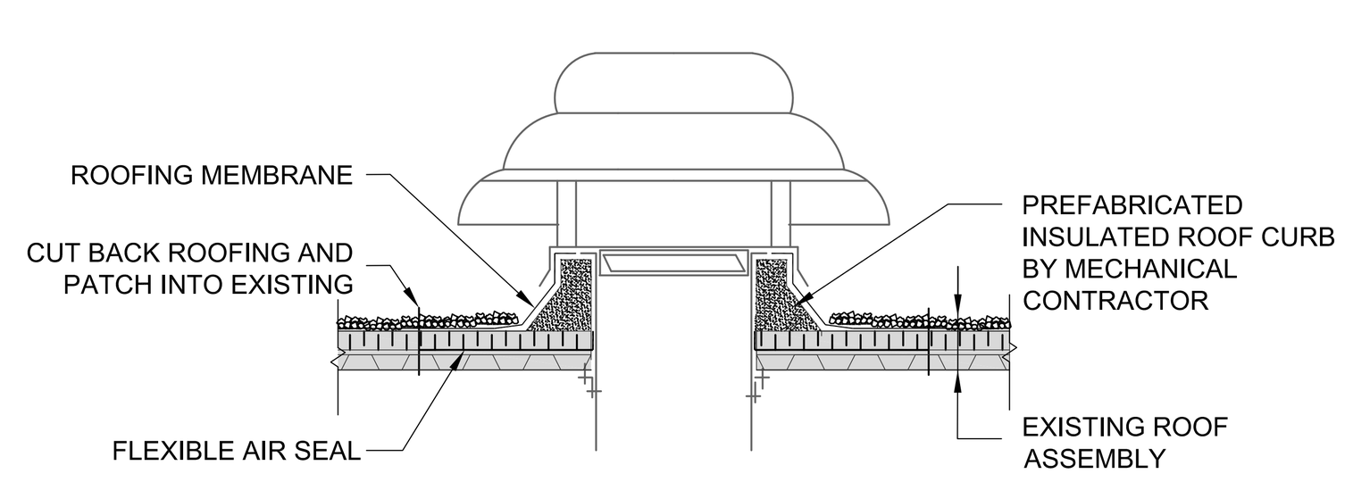

7 A100A EXHAUST FAN CURB DETAIL
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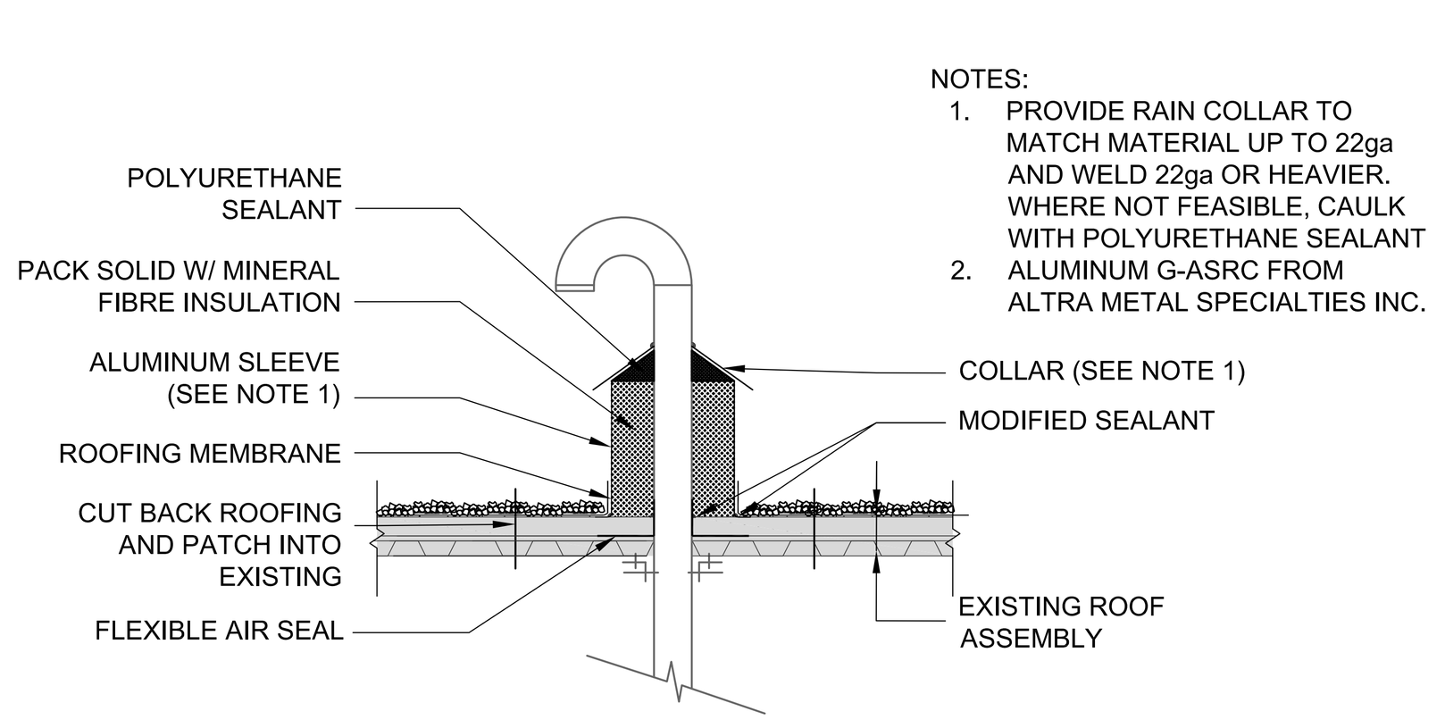

6 A100A GOOSENECK CURB DETAIL
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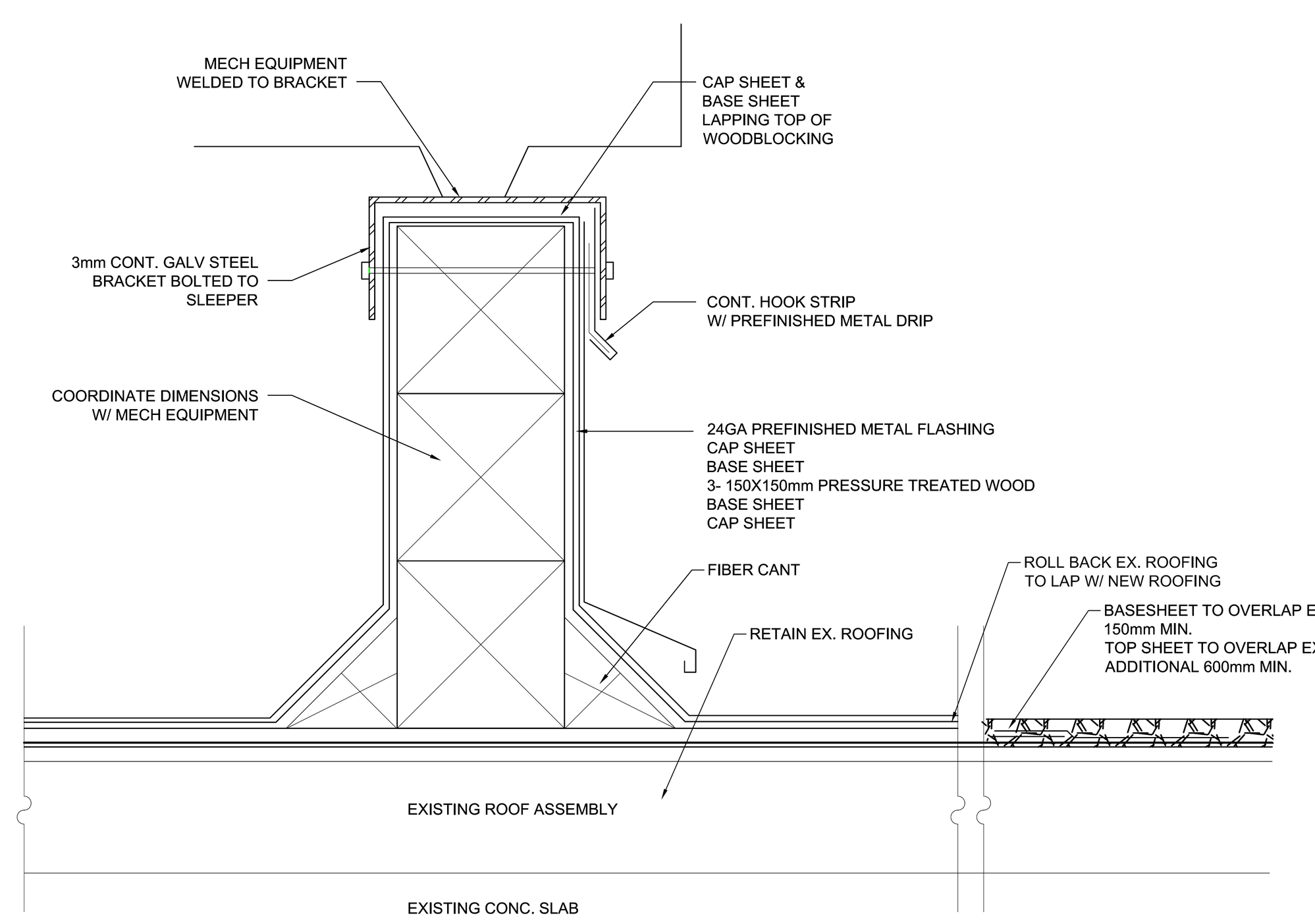
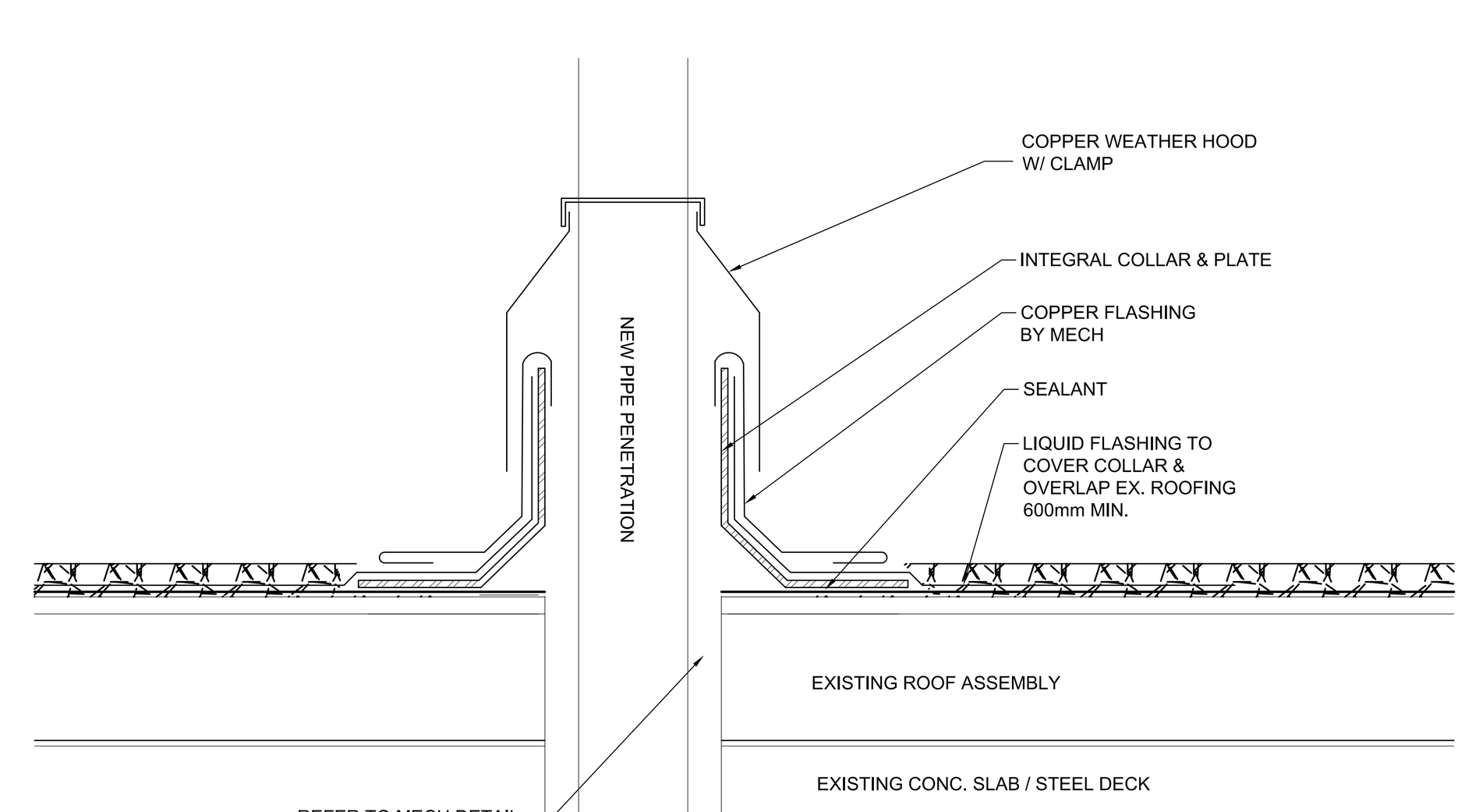


5 A100A ROOF DETAIL - SLEEPER
1:5



4 A100A ROOF DETAIL - PIPE PENETRATION
1:5

ROOF TYPES & LEGEND

R1 **BUILT-UP ROOF**
GRAVEL SURFACE FINISH (HOT APPLIED FLOOD COAT)
4-PLY TYPE IV FELT WITH 1-PLY COMPOSITE FELT WITH HOT APPLIED INTER-PLY ADHESIVE
13mm COVER BOARD
TAPERED INSULATION (refer to Roof Plan)
100mm / 2 LAYERS (MIN.) ROOF INSULATION
VAPOUR RETARDER
13mm UNDERLAY BOARD
METAL DECK
STEEL ROOF STRUCTURE - SLOPE ACCORDING TO ROOF PLAN

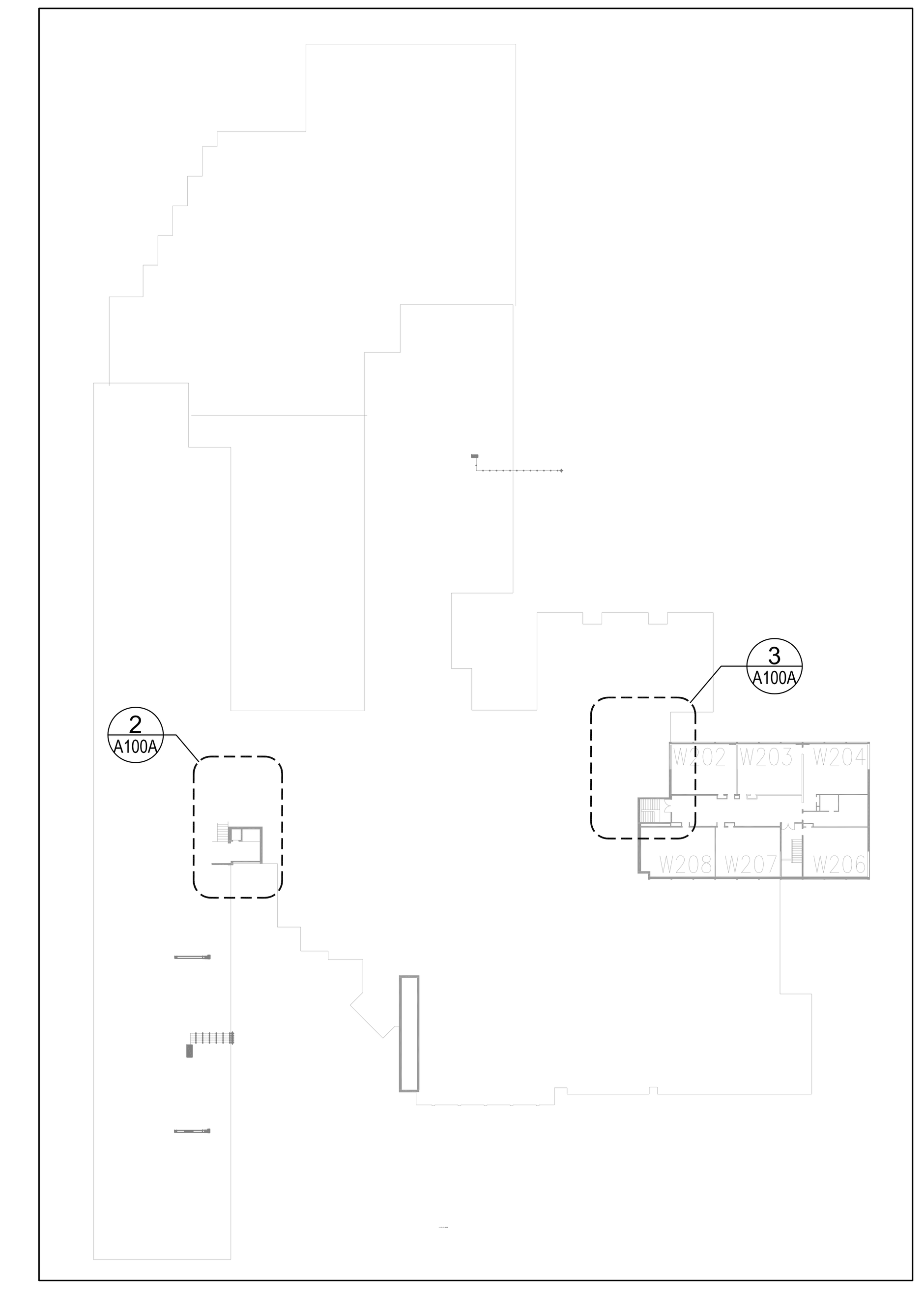
R1a **BUILT-UP ROOF**
GRAVEL SURFACE FINISH (HOT APPLIED FLOOD COAT)
4-PLY TYPE IV FELT WITH 1-PLY COMPOSITE FELT WITH HOT APPLIED INTER-PLY ADHESIVE
13mm OVERLAY BOARD
TAPERED INSULATION (refer to Roof Plan)
100mm / 2 LAYERS (MIN.) ROOF INSULATION
VAPOUR RETARDER
13mm UNDERLAY BOARD
EXISTING METAL DECK
STEEL ROOF STRUCTURE

R2 **NEW ROOFING SYSTEM ON EXISTING BUILDING**
MATCH EXISTING ROOF ASSEMBLY ON EXISTING METAL DECK/ CONCRETE SLAB

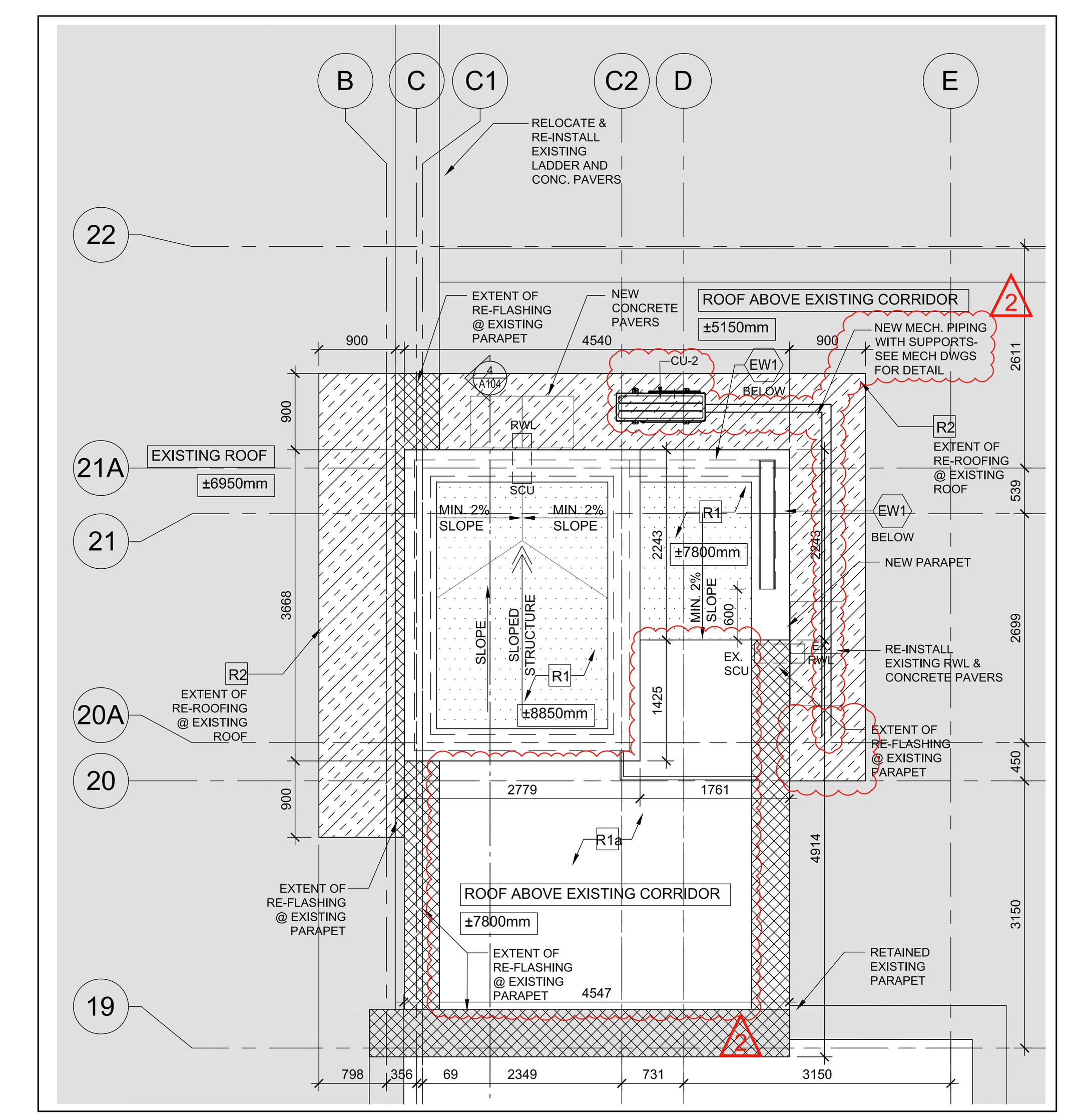
2

(arrow)	INDICATES DIRECTION OF STRUCTURAL SLOPE @ 2%
(hatch)	SLOPED INSULATION - MIN. 2 %
(arrow)	INDICATES DIRECTION OF TAPERED INSULATION @2% OR 4%
CU	COMPRESSOR (REFER TO MECH. DWGS)
EF	EXHAUST FAN -REFER TO MECH. DWGS
SCU	SCUPPER TO BE THROUGH WALL AS INDICATED ON DETAIL THE UNDERSIDE OF THE SCUPPER PIPE TO BE MAX.150mm ABOVE ROOF DRAIN
VTR	VENT THROUGH ROOF
(grey)	INDICATES EXISTING BLDG

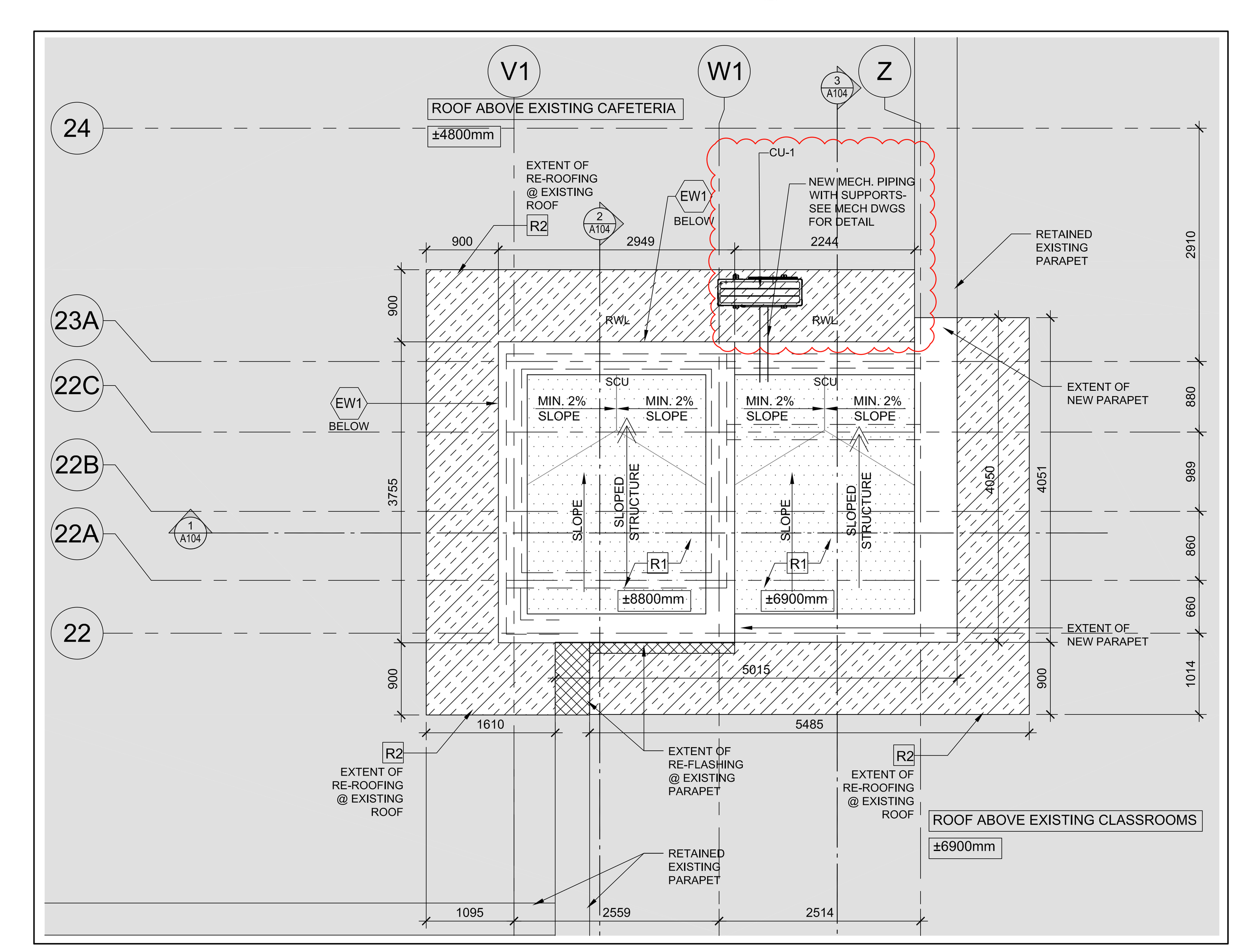
NOTES :
1. COORDINATE WITH STRUCTURAL & MECHANICAL DWGS FOR NEW EXHAUST FAN, CONDENSER UNIT LOCATIONS, ROOF OPENINGS AND PENETRATIONS.
2. FOR EXACT QUANTITIES AND LOCATIONS OF MECHANICAL AND ELECTRICAL ITEMS,PLEASE REFER MECHANICAL AND ELECTRICAL DWGS.
3. INCLUDE RE-ROOFING FOR ADDITIONAL10 M&E SERVICE PIPE PENETRATIONS THROUGH EXISTING ROOF.
4. INSTALL ROOF RECEPTACLES AND PRE-FABRICATED WEATHERPROOF MEATL COVER FOR CONDUITS AND REFRIGERANT PENETRATION WITH LIQUID FLASHING. OVERLAP 600mm MIN. OVER EXISTING ROOFING.



1 A100A KEY PLAN - LEVEL 2 / ROOF
1:600



2 A100A PARTIAL PLAN AT ELEVATOR 1 - LEVEL 2 & ROOF
1:50



3 A100A PARTIAL PLAN AT ELEVATOR 2 - LEVEL 2 & ROOF
1:50

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Project North — True North

No.	Revisions	Date

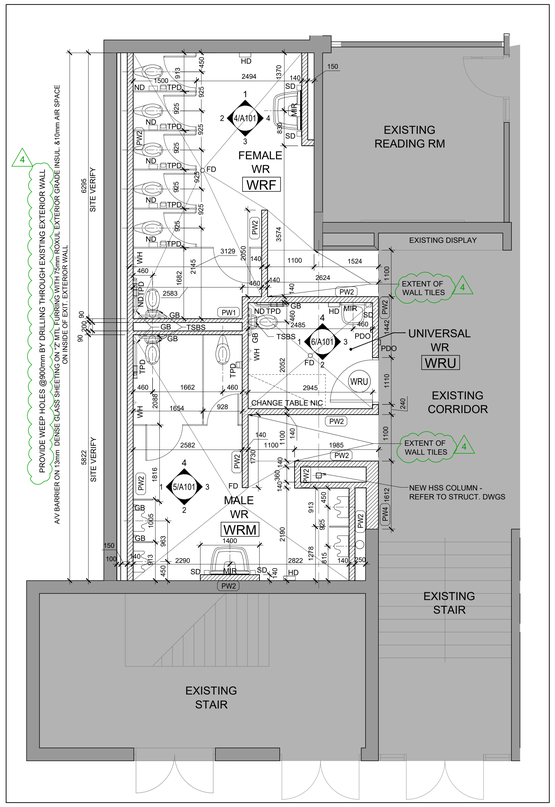
No.	Issue	Date
2	RE-ISSUED W/ ADDENDUM NO. 4	2025 05 05
1	ISSUED FOR TENDER	2025 04 12

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

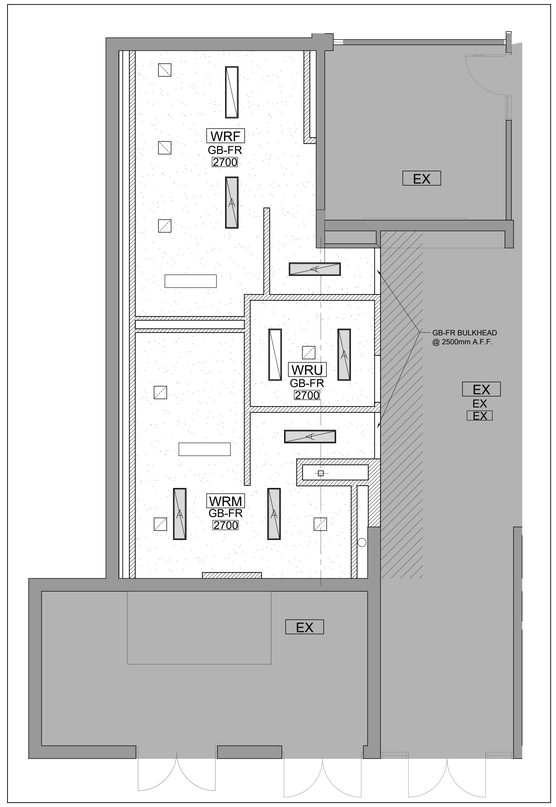
ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
LICENCE
6242

Drawing Title:
KEY PLAN
ROOF PLANS
ELEVATORS - NEW

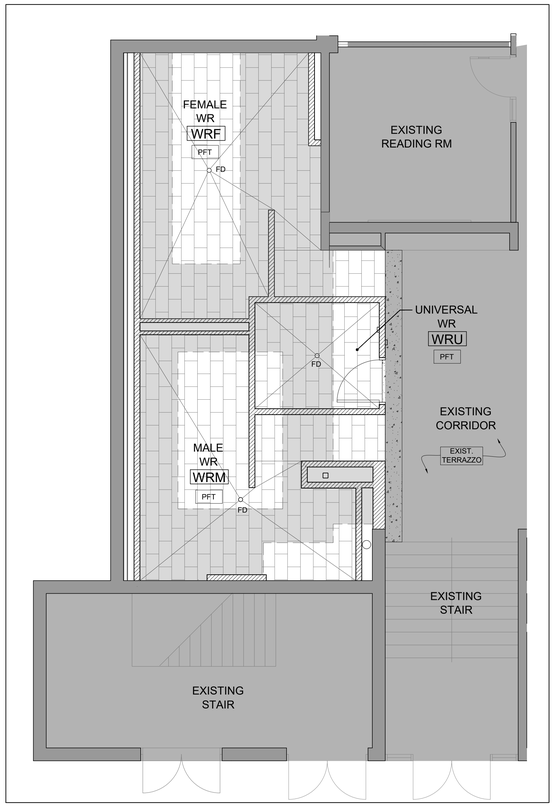
Scale: AS NOTED	Date: 2025 02 06
Drawn by:	Checked by:
Job No. 2215-C	Drawing No. A100A



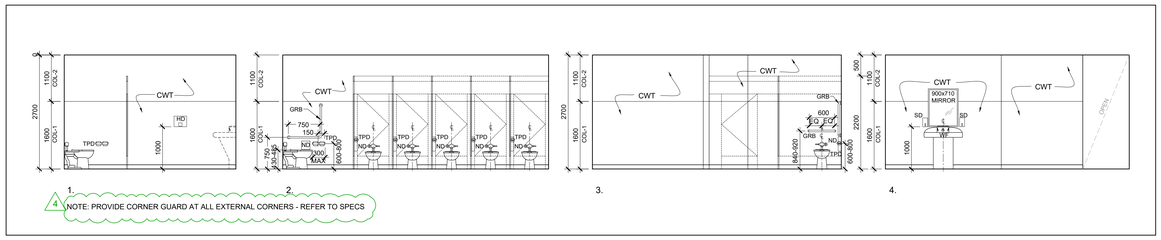
1 A101 FLOOR PLAN 1:50



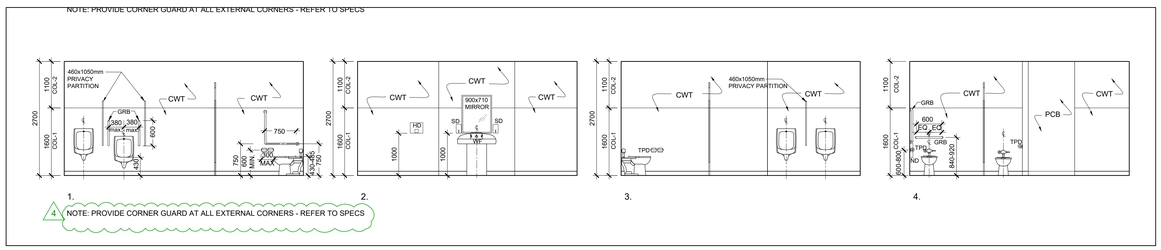
2 A101 REFLECTED CEILING PLAN 1:50



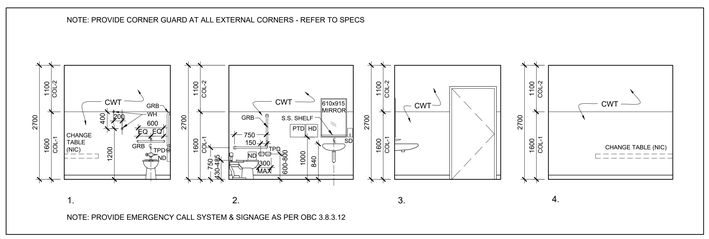
3 A101 FLOOR FINISH PLAN 1:50



4 A101 INTERIOR ELEVATIONS 1:50



5 A101 INTERIOR ELEVATIONS 1:50



6 A101 INTERIOR ELEVATIONS 1:50

ROOM NUMBER/SYMBOL	ROOM NAME	TOILET PAPER DISPENSER - DOUBLE ROLL	FIXED GRAB BAR_STRAIGHT 600MM	FIXED GRAB BAR_L-SHAPE	TOILET SEAT BACK SUPPORT	SANITARY NAPKIN DISPOSAL	SANITARY NAPKIN DISPENSER	SOAP DISPENSER (BY OWNER)	STAINLESS STEEL SHELF	710X900 FRAMED MIRROR	610X915 TILTING FRAMED MIRROR	GARMENT HOOK	HAND DRYER (BY OWNER)	PAPER TOWEL DISPENSER (BY OWNER)
WRU	UNIVERSAL WR	1	1	1	1	1	1	1	1	-	1	2	1	1
WRM	MALE WR	2	3	1	1	-	-	2	-	1	-	2	1	-
WRF	FEMALE WR	6	1	1	1	6	1	2	-	1	-	2	1	-

7 A101 WASHROOM ACCESSORIES SCHEDULE NTS

FLOOR FINISH GENERAL NOTES:

1. TRANSITION STRIP IN EVERY CHANGE OF MATERIAL, OR HEIGHT.
2. ALL TRANSITIONS BETWEEN DIFFERING MATERIALS TO BE FLUSH.
3. ALL FLOOR FINISH TRANSITIONS TO MEET UNDER DOOR (WHERE DOOR OCCURS).
4. ALL TERRAZZO IN-FILLS TO EXTEND TO NEXT METAL STRIP.
5. CONTROL JOINT IN TILING SYSTEM EVERY 10 METERS.
6. ALL EXISTING BASE TO BE REMOVED PRIOR TO NEW BASE INSTALLATION.
7. GRIND EXISTING SLAB (WHERE PRESENT), SELF-LEVEL AND PROVIDE SLOPE OVER ENTIRE AREA PRIOR TO INSTALLATION OF NEW FLOOR FINISH.

LEGEND:

- NEW PORCELAIN FLOOR TILE - REFER TO SPECS
- AREAS OF NEW CONC. SLAB IN-FILL AND NEW SUBGRADE
- AREA OF TERRAZZO FLOOR REPLACEMENT / REPAIR
- EX — EXISTING TERRAZZO TO REMAIN

RCP GENERAL NOTES:

1. IN AREAS WITH EXPOSED STRUCTURE, DUCTS / PIPES AND CONDUITS SHALL BE MOUNTED TIGHT TO U/S OF SLAB OR DECK, ROUTED PARALLEL AND PERPENDICULAR TO WALLS.
2. PAINT ALL GYPSUM BOARD SURFACES.
3. PAINT ALL EXPOSED STRUCTURE, DUCTS, PIPES & CONDUITS, UNO.
4. PROVIDE GYPSUM BOARD BULKHEAD AT CEILING HEIGHT CHANGES, COMPLETE WITH SHADOW MOLDING TYP. UNO.
5. FOR CEILING @ WINDOW MULLION, PROVIDE METAL REVEAL TYP.
6. FOR LOCATIONS OF DIFFUSERS, AIR GRILLES, SPRINKLER HEADS, SPEAKERS & EXIT LIGHTS, REFER TO MECHANICAL & ELEC. DWGS
7. ALLOW 50 ADDITIONAL ACOUSTIC CEILING TILES FOR REPLACEMENT OF EXISTING DAMAGE TILES.

REFLECTED CEILING PLAN LEGEND:

- GB-FR — GYPSUM BOARD CEILING -15.9mm GYP. BOARD TYPE 'X' ON 92mm MTL STUDS FRAME
- EXIST. T-BAR CEILING MODIFICATIONS - REMOVE EXIST. CEILING TILES AND STORE FOR RE-INSTALLATION. TEMP. SUPPORT EXIST. GRID AS REQUIRED. RE-INSTALL THE CEILING TILES AFTER MECH. & ELECT. COMPLETION
- EXISTING WALLS TO REMAIN
- NEW WALLS & PARTITIONS
- NEW AND EXIST. MECH. DIFFUSERS, GRILLS & FANS - REFER TO MECH. DWGS
- NEW. LIGHT FIXTURES - REFER TO ELECTRICAL DWGS

NEW INTERIOR WALL AND PARTITION TYPES:

- PW1 — 90mm CONCRETE MASONRY UNIT WALL
- PW2 — 140mm CONCRETE MASONRY UNIT WALL
- PW3 — 190mm CONCRETE MASONRY UNIT WALL
- PW4 — 290mm CONCRETE MASONRY UNIT WALL

GENERAL NOTES:

- ALL CONDUITS TO BE CONCEALED IN THE WALLS (EXISTING AND NEW). PROVIDE V-CUT ROUGH IN EXIST. WALLS & PATCH TO CONCEAL ALL CONDUITS - BY MASONRY CONTRACTOR
- FOR GENERAL FIRE PROTECTION NOTES, SCHEDULE AND GENERAL CONSTRUCTION CONSTRUCTION NOTES REFER TO DRAWING A100
- FOR ROOF PENETRATIONS DETAILS REFER TO DRAWING A102

LEGEND

- EXISTING WALLS
- NEW MASONRY WALL
- 123 — NEW DOOR AND FRAME - REFER TO THE DOOR SCHEDULE
- PDO — NEW POWER DOOR OPERATOR - REFER TO EL. DWGS
- FD — FLOOR DRAIN - REFER TO MECH. DWGS
- REPLACED/REPAIRED TERRAZZO FLOOR
- AREA OF NEW CONC. SLAB INFILL
- COL-1 — COLOUR 1
- COL-2 — COLOUR 2

ABBREVIATIONS:

S.S.	STAINLESS STEEL
HD	HAND DRYER
PTD	PAPER TOWEL DISPENSER
GRB	GRAB BAR
TPD	TOILET PAPER DISPENSER
SD	SOAP DISPENSER
ND	NAPKIN DISPOSAL
WH	WARDROBE HOOKS (2)
TSBS	TOILET SEAT BACK SUPPORT
FD	FLOOR DRAIN
PFT	PORCELAIN FLOOR TILES
CWT	CERAMIC WALL TILE
P	PAINT
CB	CONCRETE BLOCK

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Project North / True North

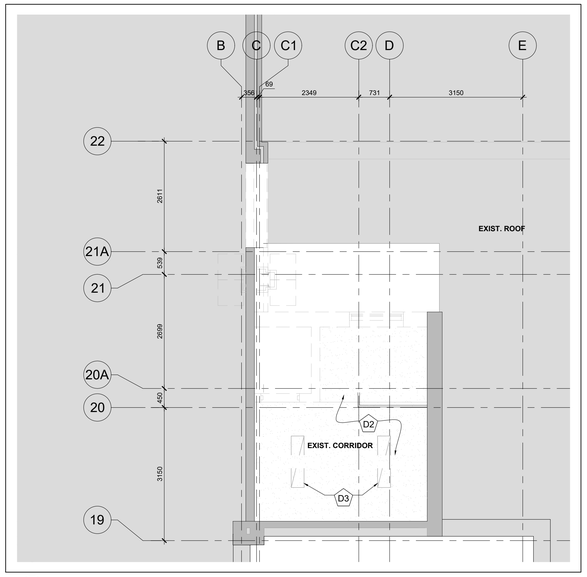
No.	Revisions	Date
4	ISSUED FOR ADDENDUM #4	2025-05-02
3	ISSUED FOR ADDENDUM #2	2025-04-25
2	ISSUED FOR TENDER	2025-04-17
1	ISSUED FOR BUILDING PERMIT	2025-04-08
No.	Issue	Date

General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

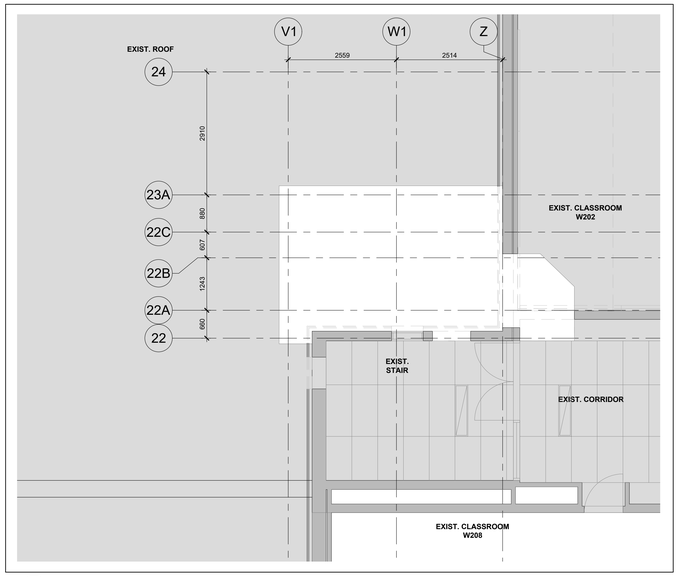
ONTARIO ASSOCIATION OF ARCHITECTS — LICENCE 6242

Drawing Title:
LIBRARY WASHROOMS FLOOR PLAN, RCP AND INTRIOR ELEVATIONS

Scale: AS NOTED | Date: 2025 01 31
Drawn by: | Checked by:
Job No. 2215-C | Drawing No. A101



7 A102-D PARTIAL RCP - LEVEL 2 & ROOF 1:50



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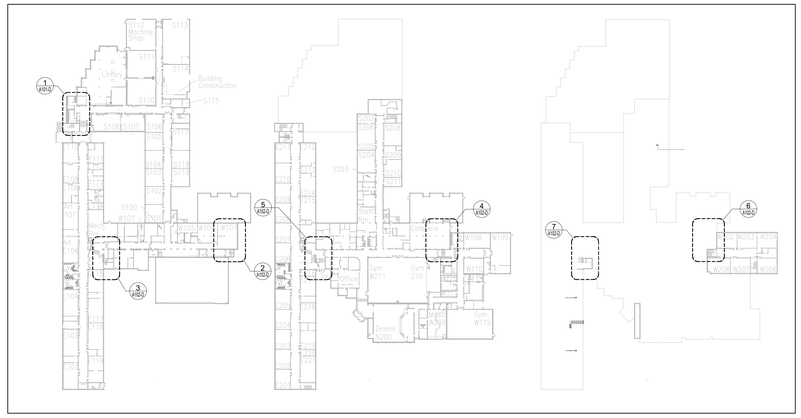
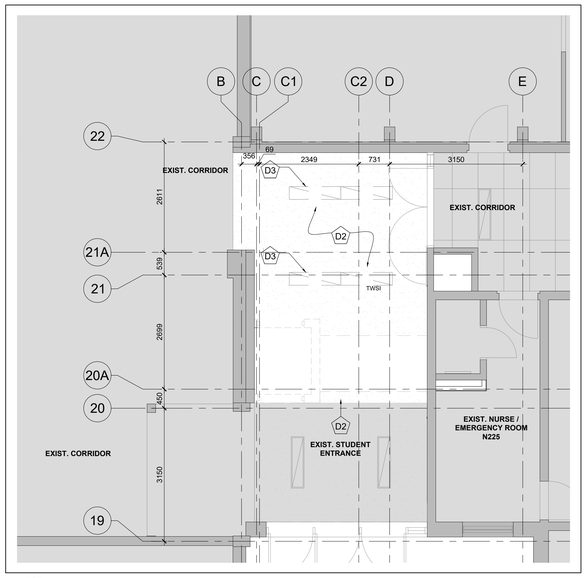


1 A102-D KEY PLANS - LEVEL 0, 1 & 2 1:1000



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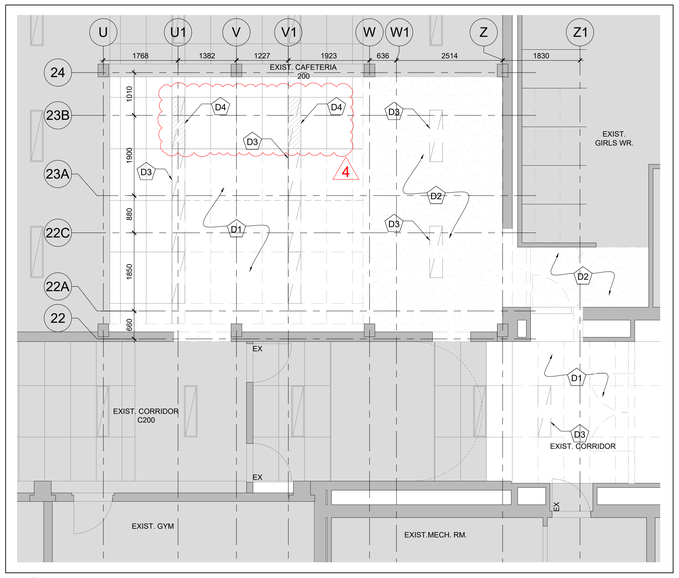

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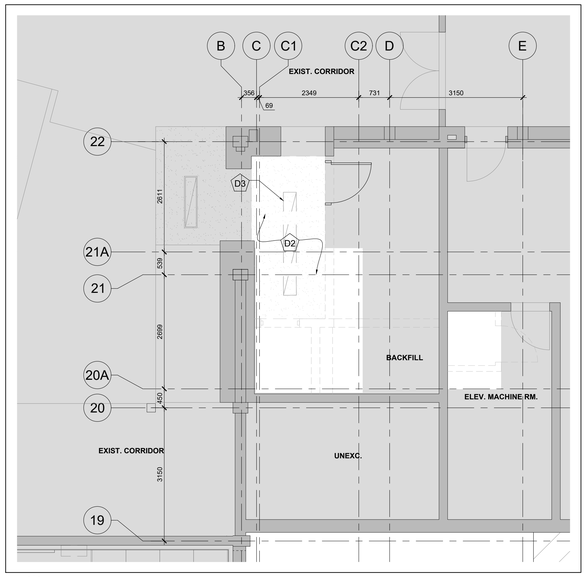

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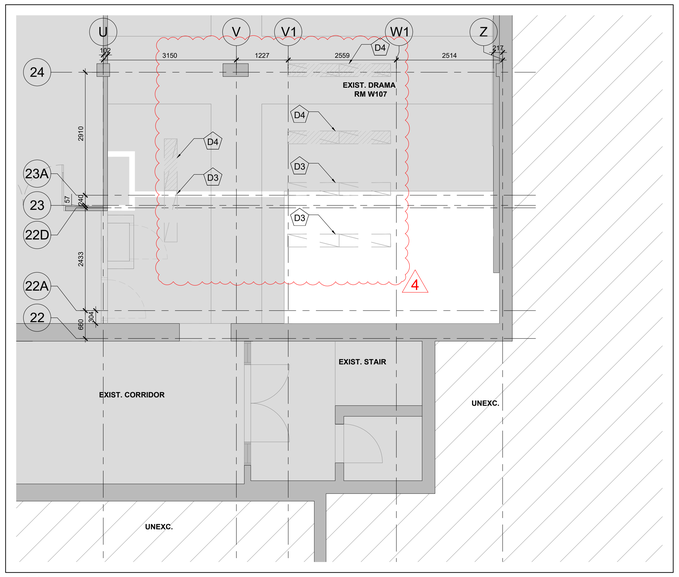

2 A102-D PARTIAL RCP - LEVEL 0 1:50

DEMOLITION LEGEND:

- EXISTING GYPSUM BOARD CEILING & BULKHEADS, LIGHTS AND OTHER COMPONENTS TO BE REMOVED. REFER TO MECH. & EL. DWGS FOR MORE INFO.
- EXISTING CEILING TILES W/GRID & BULKHEADS, LIGHTS AND OTHER COMPONENTS TO BE REMOVED. REFER TO MECH. & EL. DWGS FOR MORE INFO.
- EXISTING DOOR/SCREEN TO REMAIN
- EXISTING WALLS TO REMAIN
- EXISTING TO REMAIN AS IS
- EXISTING LIGHTING FIXTURE TO REMAIN
- EXISTING LIGHTING FIXTURE TO BE REMOVED AND STORED FOR REINSTATING LATER

GENERAL DEMOLITION NOTES:

- D1 REMOVE AND DISPOSE EXISTING ACT CEILING, GRIDS & ASSOCIATED COMPONENTS. COORDINATE WITH MECH. & ELEC. DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
- D2 REMOVE AND DISPOSE EXISTING GB CEILING / BULKHEADS, GRIDS & ASSOCIATED COMPONENTS. COORDINATE WITH MECH. & ELEC. DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE.
- D3 REMOVE AND DISPOSE EXISTING LIGHTING & HVAC FIXTURES AND OTHER DEVICES. MAKE GOOD AFFECTED SURFACES TO RECEIVE NEW WORK. COORDINATE WITH MECH & ELEC. DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE. 4
- D4 CAREFULLY REMOVE AND STORE EXISTING LIGHTING FIXTURE. REINSTATE FIXTURE WHEN READY TO INSTALL ALL NEW FIXTURES. COORDINATE WITH ELEC. DRAWINGS FOR ADDITIONAL SCOPE.

GENERAL DEMOLITION NOTES:

1. REFER TO SPECS & ABATEMENT REPORT REGARDING DESIGNATED SUBSTANCES REMOVAL.
2. ALL DEMOLITION SCOPE SHOWN ON DESIGNATED SUBSTANCES ABATEMENT DOCUMENTS ARCH., STRUCTURAL, MECH. & ELECTRICAL DWGS IS BY SC02 (DEMOLITION AND ABATEMENT SUBCONTRACT) EXCEPT THAT NOTED IN ITEM 3 BELOW.
3. ARCHITECTURAL DEMOLITION DRAWINGS MUST BE READ IN CONJUNCTION WITH STRUCTURAL, MECH. AND ELEC DEMOLITION DRAWINGS. REFER TO STRUCTURAL, MECH, & ELEC DEMOLITION DRAWINGS FOR COORDINATION.
4. CONTRACTOR TO PATCH, REPAIR, AND MAKE GOOD ALL HOLES OR DAMAGE DUE TO GENERAL DEMOLITION ON EXISTING MASONRY SURFACES TO REMAIN.
5. CONTRACTOR TO FILL IN AND FINISH HOLES LEFT ON THE FLOORS OR WALLS AFTER DEMOLITION TO MATCH WITH EXISTING SURROUNDING MATERIALS.
6. CONTRACTOR TO ENSURE THAT THE PORTION OF THE BUILDING BEING RETAINED IS HANDED BACK TO THE OWNER (ON COMPLETION OF CONSTRUCTION) IN A CONDITION SIMILAR TO ITS EXISTING CONDITION OR BETTER. THIS REQUIREMENT INCLUDES PROVISION OF ALL NECESSARY PROTECTIVE MEASURE LIKE SECURITY, PROTECTION FROM THE ELEMENTS AND WEATHER, HEATING / DEHUMIDIFICATION AS NECESSARY, ETC.

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4	ISSUED FOR ADDENDUM 04	2025 05 05
3	ISSUED FOR TENDER	2025 04 17
2	ISSUED FOR PERMIT	2025 04 08
1	ISSUED FOR REVIEW	2025 02 12

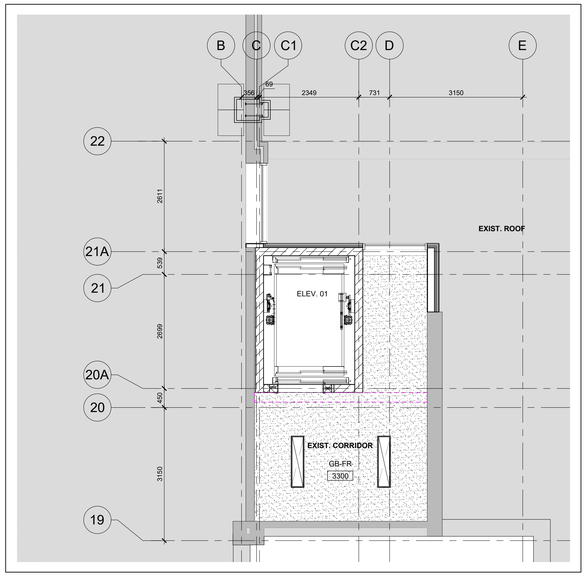
No.	Issue	Date

ONTARIO ASSOCIATION OF ARCHITECTS
MEHRAN GARDE
LICENCE
8242

Drawing Title:
KEY PLAN
RCP
ELEVATORS - DEMO

Scale:	AS NOTED	Date:	2025 02 06
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	A102-D

CAD File:



7 A102 PARTIAL RCP - LEVEL 2 & ROOF
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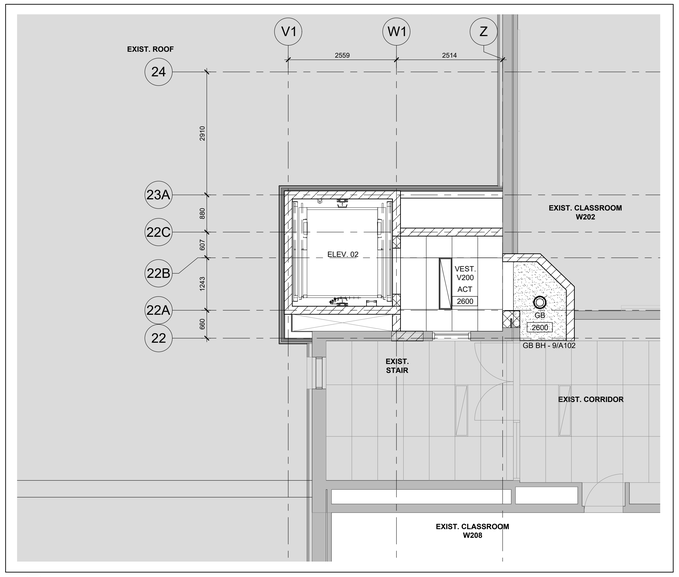

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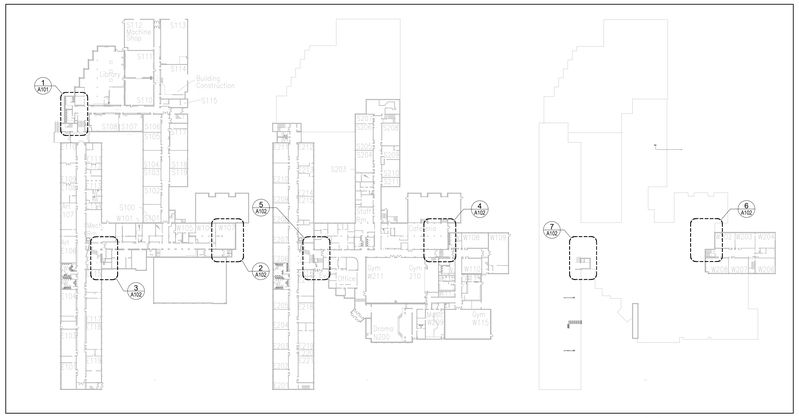


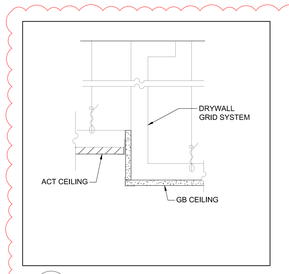
1 A102 KEY PLANS - LEVEL 0, 1 & 2
1:1000

GENERAL NOTES:

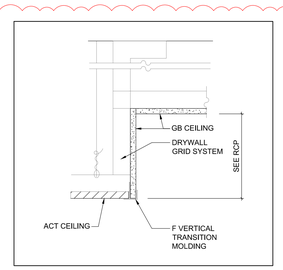
1. IN AREAS WITH EXPOSED STRUCTURE, DUCTS / PIPES AND CONDUITS SHALL BE MOUNTED TIGHT TO U/S OF SLAB OR DECK, ROUTED PARALLEL AND PERPENDICULAR TO WALLS.
2. PAINT ALL GYPSUM BOARD SURFACES.
3. PAINT ALL EXPOSED STRUCTURE, DUCTS, PIPES & CONDUITS, UNO.
4. PROVIDE GYPSUM BOARD BULKHEAD AT CEILING HEIGHT CHANGES, COMPLETE WITH SHADOW MOLDING TYP. UNO.
5. FOR CEILING @ WINDOW MULLION, PROVIDE METAL REVEAL TYP.
6. FOR LOCATIONS OF DIFFUSERS, AIR GRILLES, SPRINKLER HEADS, SPEAKERS & EXIT LIGHTS, REFER TO MECHANICAL & ELEC. DWGS
7. ALLOW 50 ADDITIONAL ACOUSTIC CEILING TILES FOR REPLACEMENT OF EXISTING DAMAGE TILES.

REFLECTED CEILING PLAN LEGEND:

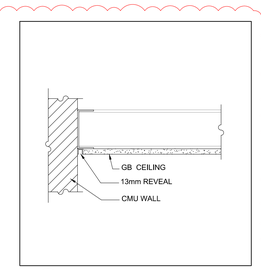
- EXIST. AREA TO REMAIN AS IS
- EXISTING WALLS TO REMAIN
- NEW WALLS & PARTITIONS
- ACT-1 — NEW ACOUSTIC CEILING TILES CEILING
- GB — 12.7mm GYP. BOARD ON 92mm MTL STUDS FRAME BULKHEAD
- EXIST. T-BAR CEILING MODIFICATIONS - REMOVE EXIST. CEILING TILES AND STORE FOR RE-INSTALLATION. TEMP. SUPPORT EXIST. GRID AS REQUIRED. RE-INSTALL THE CEILING TILES AFTER MECH. & ELECT. COMPLETION
- XX / XXXX — CEILING TYPE - GB / GB-FR (FIRE-RATED) / ACT; CEILING HEIGHT (AFF) / EX. (MATCH EXISTING)
- EXIST. LIGHT FIXTURE TO REMAIN / REINSTATE
- NEW AND EXIST. MECH. DIFFUSERS, GRILLS & FANS - REFER TO MECH. DWGS
- NEW LIGHT FIXTURES - REFER TO ELECTRICAL DWGS



10 A102 GB TO ACT CLG. HT. CHANGE (TYP.)
1:5

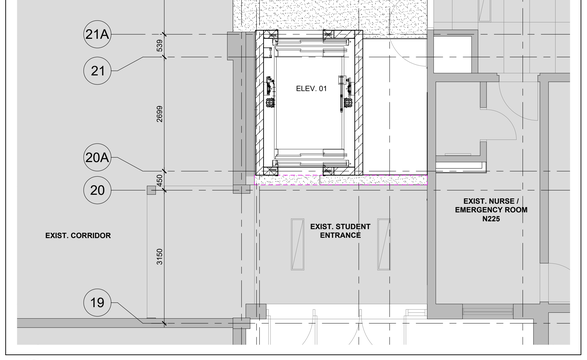


9 A102 ACT TO GB CLG. HT. CHANGE (TYP.)
1:5



8 A102 GB CLG. AT WALL (TYP.)
1:5

4



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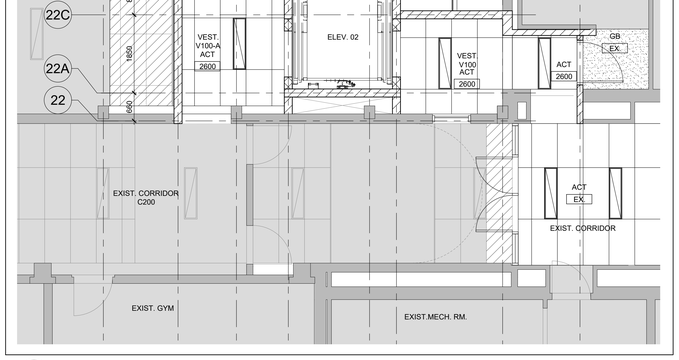

4 A102 PARTIAL RCP - LEVEL 1 & 1A
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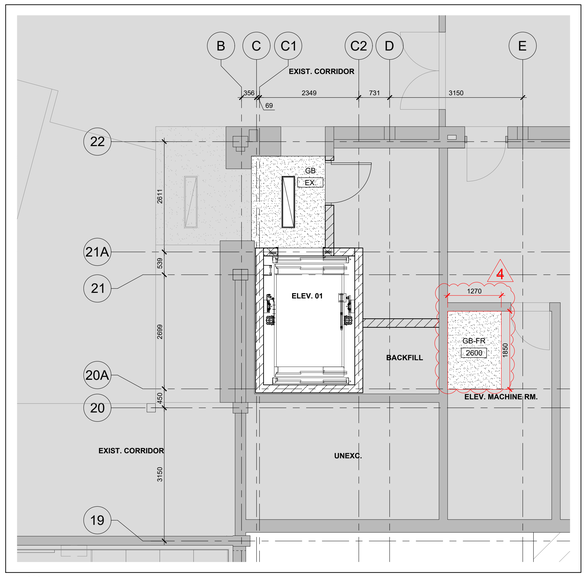

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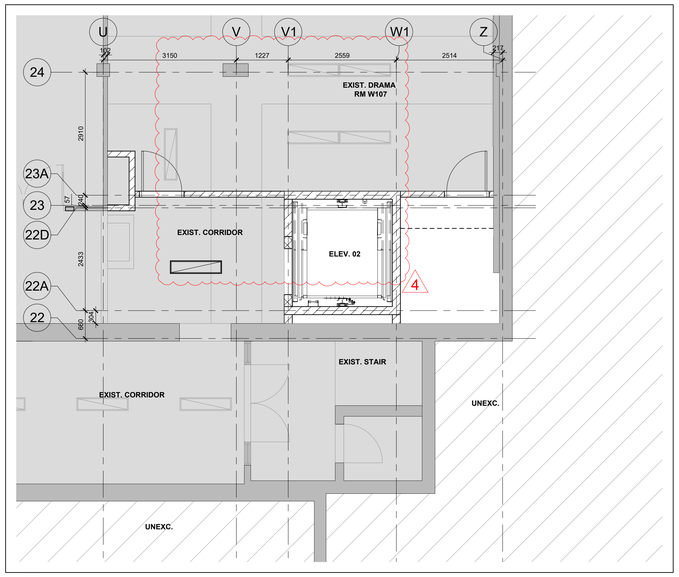

2 A102 PARTIAL RCP - LEVEL 0
1:50

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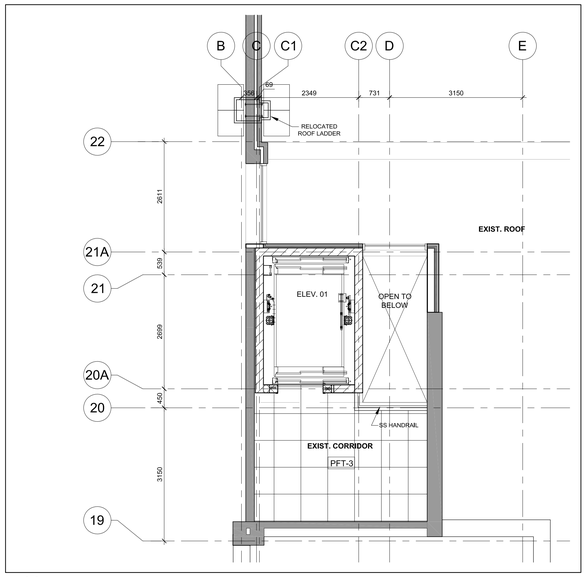
4	ISSUED FOR ADDENDUM 04	2025 05 05
3	ISSUED FOR TENDER	2025 04 17
2	ISSUED FOR PERMIT	2025 04 08
1	ISSUED FOR REVIEW	2025 02 12
No.	Issue	Date

ONTARIO ASSOCIATION OF ARCHITECTS
MEAGHAN GARDE
LICENCE 6242

Drawing Title:
KEY PLAN
RCP
ELEVATORS - NEW

Scale:	AS NOTED	Date:	2025 02 06
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	A102

CAD File:



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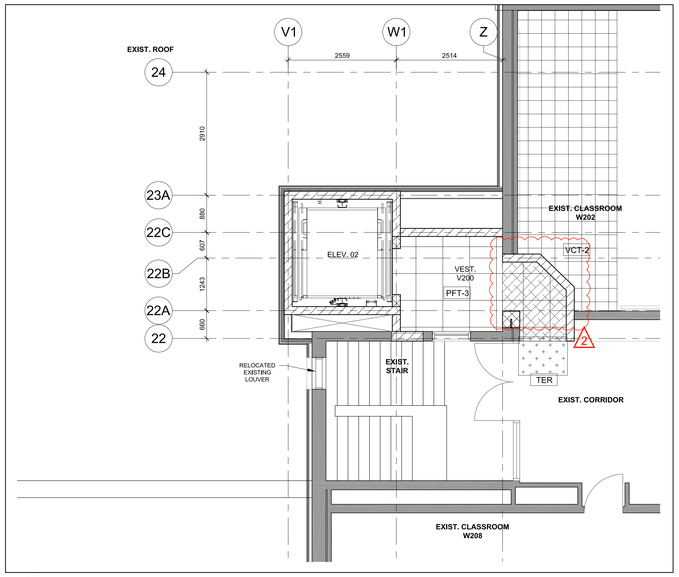

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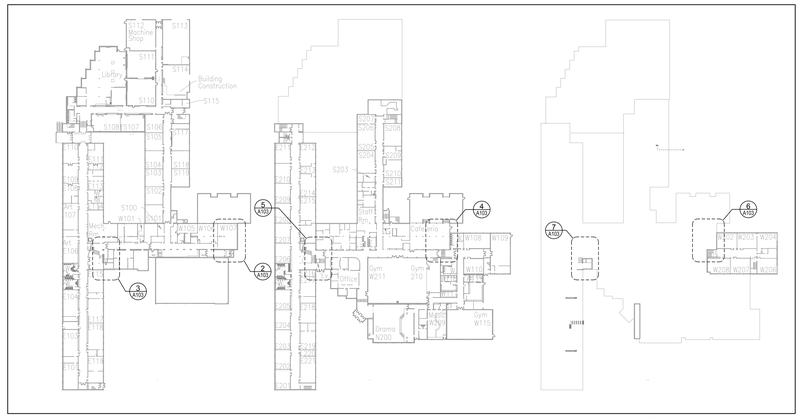

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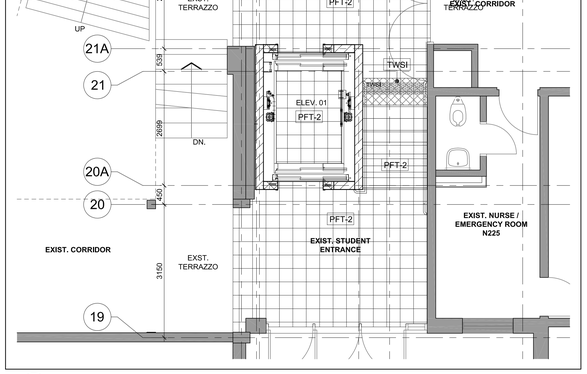

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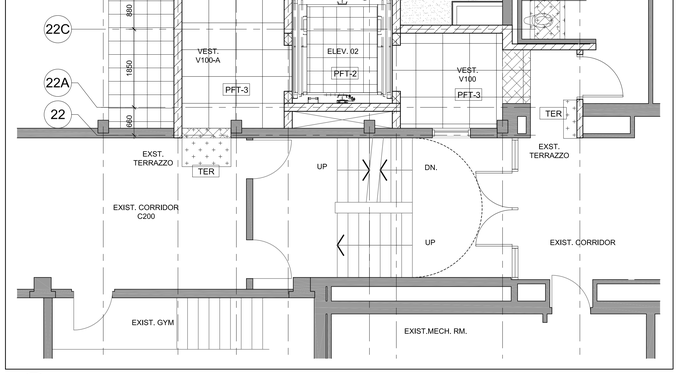

4 A103 PARTIAL FLOOR FINISH PLAN - LEVEL 1 & 1A
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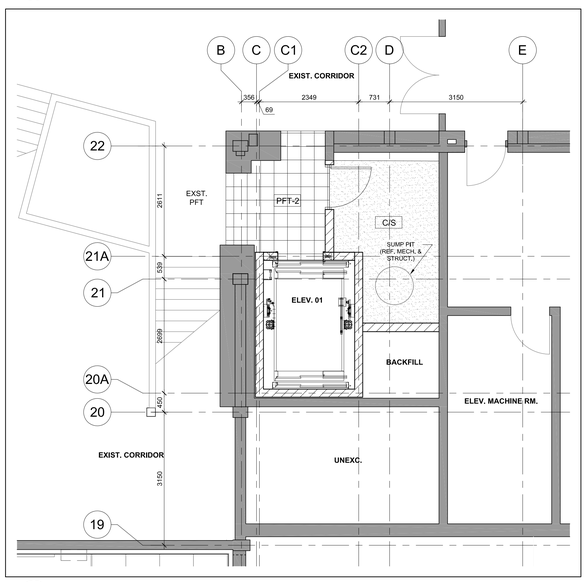

3 A103 PARTIAL FLORR FINISH PLAN - LEVEL 0
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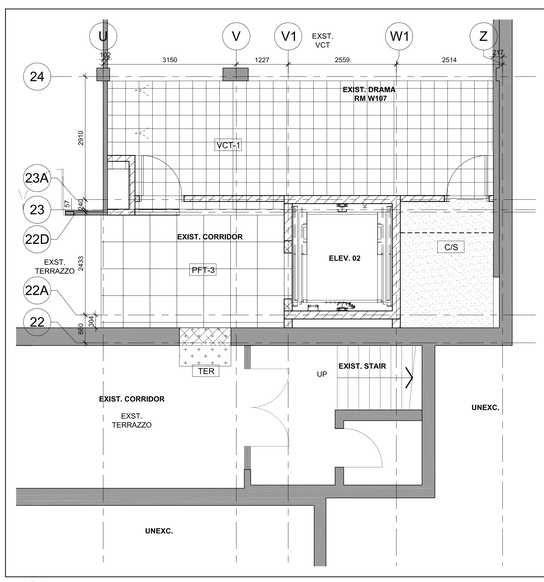

2 A103 PARTIAL FLOOR FINISH PLAN - LEVEL 0
1:50

FLOOR FINISH PLAN LEGEND

PFT -1: PORCELAIN FLOOR TILE IN WASHROOMS (DWG A101)

PFT -2: PORCELAIN FLOOR TILE

PFT -3: PORCELAIN FLOOR TILE

VCT - 1: VINYL TILE (COLOUR-1)

VCT - 2: VINYL TILE (COLOUR-2)

C/S: SEALED CONCRETE

TER : TERRAZZO FINISH TO MATCH EXISTING MAKE GOOD WITH EXISTING.

'CWT' : WALL TILES UP TO CEILING IN WASHROOMS (DWG A101)

FLOOR FINISH NOTES:

1. PROVIDE TWSI @ STAIR AS PER OBC. PROVIDE TWSI PORCELAIN TILE AT PORCELAIN TREAD.
2. FOR PFT BASE, PROVIDE FACTORY TOP EDGE OR STAINLESS STEEL TILE EDGE TRIM.
3. RECESS SLAB 20mm AT ALL PFT LOCATION. PROVIDE SS TRANSITION STRIP AT ALL FLOORING MATERIAL CHANGE. WHERE FLOOR FINISH LEVEL CHANGE IS GREATER THAN 13mm, FEATHER SUBFLOOR AT 1:20 TO FLUSH FLOOR FINISH.
4. IN ROOMS WHERE EXISTING TERRAZZO IS REPLACED WITH NEW FLOOR FINISH, TOP-UP FLOORING WITH CONCRETE TO ENABLE FINISHED FLOOR TO BE FLUSH WITH ADJACENT FINISHED FLOOR.
5. INSTALL THRESHOLD TO MEET OBC BARRIER FREE STANDARDS.
6. TRANSITION STRIP IN EVERY CHANGE OF MATERIAL OR HEIGHT.
7. ALL TERRAZZO IN-FILLS TO EXTEND TO NEXT METAL STRIP.
8. CONTROL JOINT IN TILING SYSTEM EVERY 10 METERS.
9. SEE STAIR DETAIL FOR TILE INSERT AT PORCELAIN TILE STEPS.
10. REPLACEMENT TERRAZZO FLOOR FINISH IN GIRL'S WASHROOM TO FOLLOW EXISTING SLOPE TO DRAIN.

FLOOR TYPE	BASE
C/S	100mm RESILIENT BASE
PFT	100mm PFT BASE
VCT	100mm RESILIENT BASE
TER	100mm± TERRAZZO COVE BASE - MATCH EXISTING COVE BASE HEIGHT

ROOM FINISH NOTES:

ROOM FINISH NOTES:

1. PRIME AND PAINT ALLNEW AND AFFECTED VERTICAL SURFACES IN DRAMA RM W107, ADJACENT RM W107A, VESTIBULE V100, VEST. V100-A, ELEVATOR MACHINE RM, VEST. V200, ELEVATOR 1 & 2 SHAFT WALLS. INCLUDE NEW OPENING JAMBS.
2. IN CORRIDOR WALLS WHERE IT CONNECTS TO THE NEW CORRIDOR, PAINT EXISTING WALL UP TO FIRST DOOR. (TYPICAL)
3. PRIME AND PAINT ALL EXPOSED AND GYPSUM BOARD CEILINGS.
4. PRIME AND PAINT ALL EXPOSED STRUCTURE, DUCTS, PIPES & CONDUITS IN ELEVATOR MACHINE RM
5. PAINT ALL EXPOSED LINTELS. REFER TO FIRE PROTECTION SCHEDULE FOR INTUMESCENT PAINT.

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Project North | True North

No.	Revisions	Date
2	RE-ISSUED W/ ADDENDUM NO. 4	2025 05 05
1	ISSUED W/ ADDENDUM NO. 1	2025 04 24
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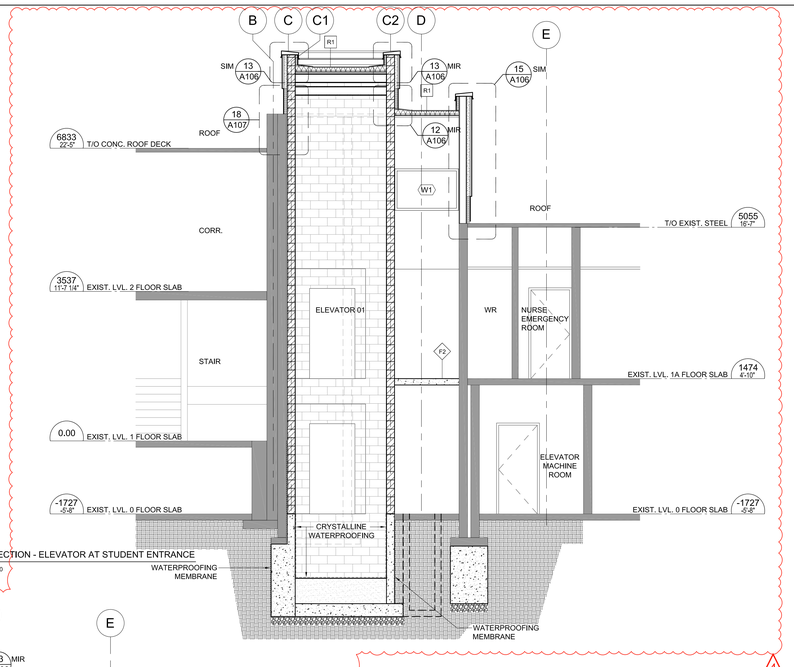
ONTARIO ASSOCIATION OF ARCHITECTS
AVTAR GARDE
LICENCE
6242

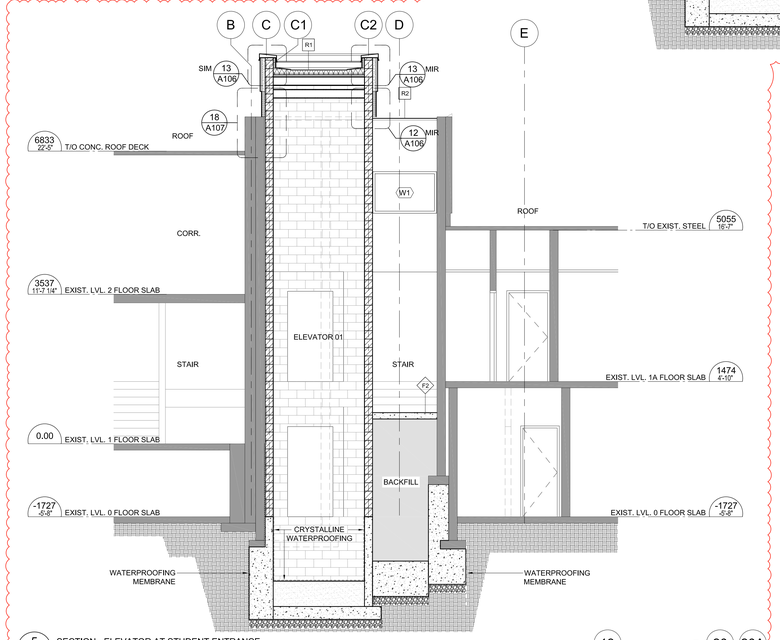
Drawing Title:
KEY PLAN - FLOOR FINISH & ROOM FINISH NOTES ELEVATORS - NEW

Scale:	AS NOTED	Date:	2025 02 06
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	A103

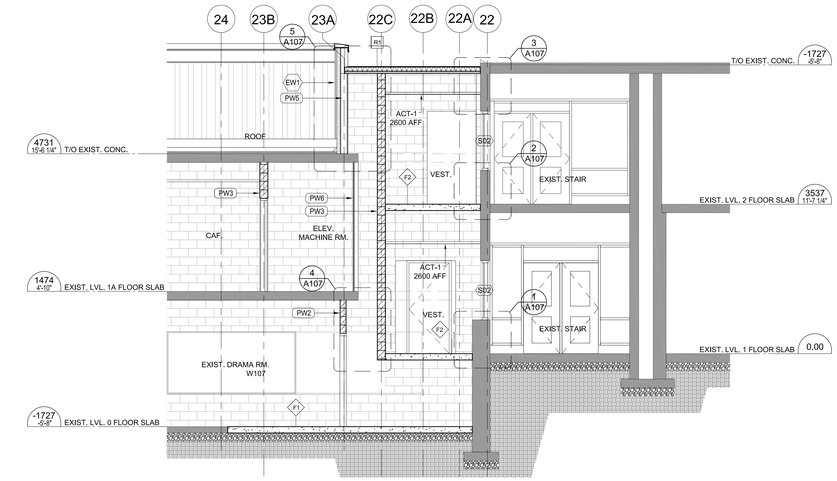
CAD File:



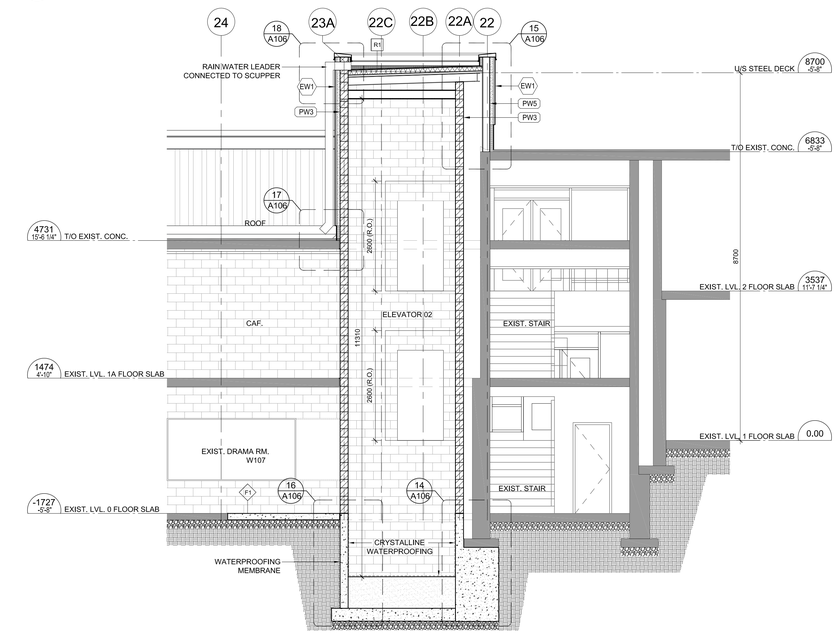
6 A104 SECTION - ELEVATOR AT STUDENT ENTRANCE 1:50



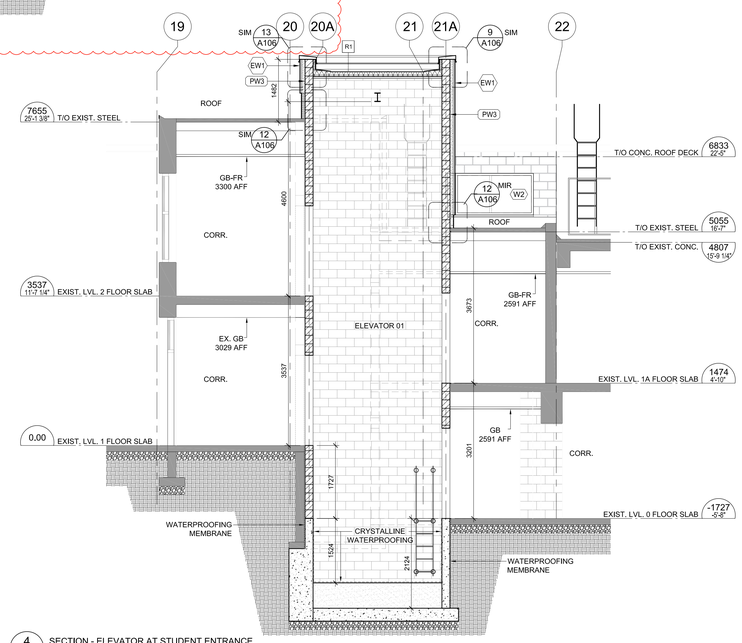
5 A104 SECTION - ELEVATOR AT STUDENT ENTRANCE 1:50



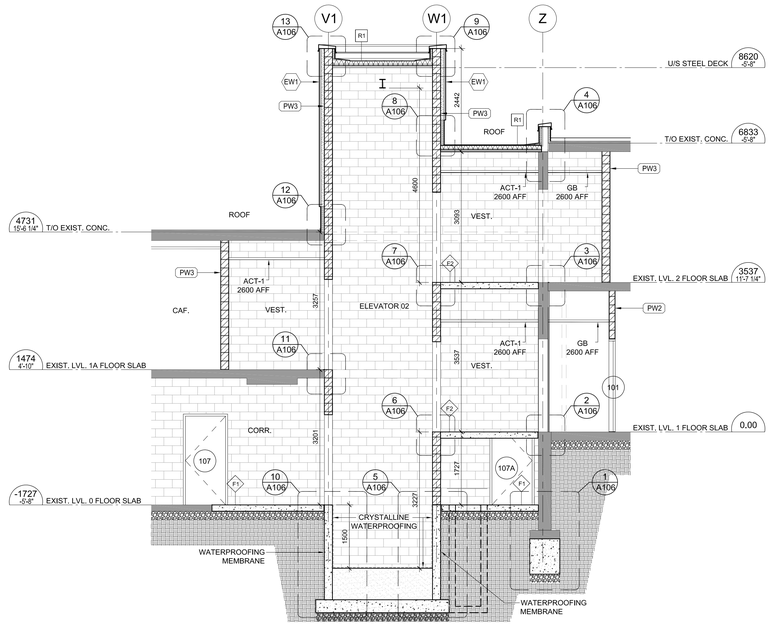
3 A104 SECTION - ELEVATOR AT CAFETERIA 1:50



2 A104 SECTION - ELEVATOR AT CAFETERIA 1:50



4 A104 SECTION - ELEVATOR AT STUDENT ENTRANCE 1:50



1 A104 SECTION - ELEVATOR AT CAFETERIA 1:50

Client
Halton District School Board
2050 Guelph Line
Burlington, Ontario

T. A. BLAKELOCK H.S. RENOVATIONS

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Oakville, ON

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Mechanical and Electrical Consultants
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1266 S. Service Rd.
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Project North | True North

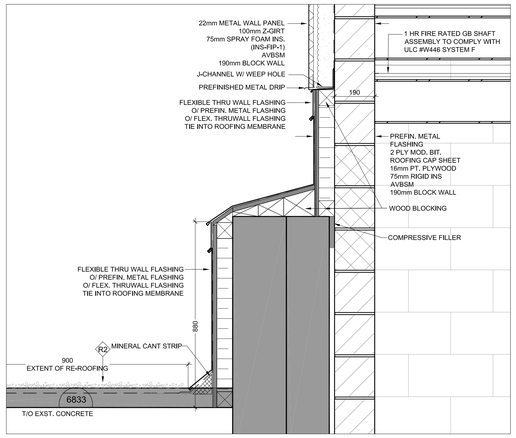
No.	Revisions	Date
4	REISSUED W/ ADDENDUM NO. 4	2025 05 05
3	REISSUED W/ ADDENDUM NO. 2	2025 04 25
2	ISSUED FOR PERMIT	2025 04 08
1	ISSUED FOR REVIEW	2025 02 12

No.	Issue	Date

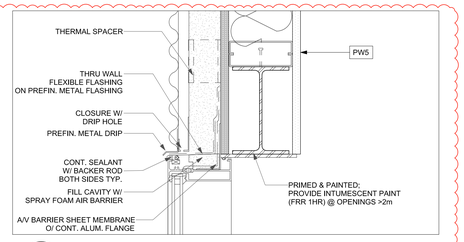
ONTARIO ASSOCIATION OF ARCHITECTS
AVINASH GARDE
LICENCE 6242

Drawing Title:
SECTIONS - NEW WALL SECTIONS

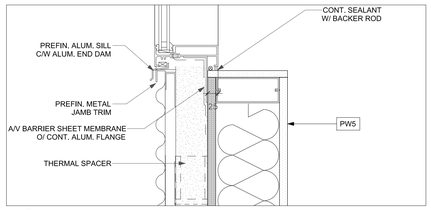
Scale:	AS NOTED	Date:	2025 02 06
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	A104



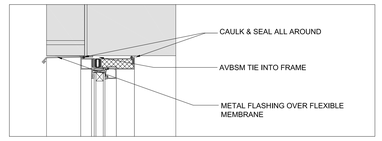
18 A107 PARAPET SECTION DETAIL AT ELEVATOR 1 — 1:10



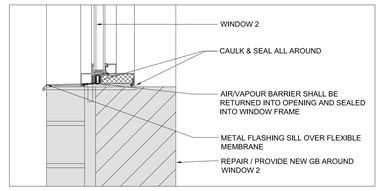
9 A107 WINDOW LINTEL DETAIL @ MEATL WALL PANEL — 1:5



8 A107 WINDOW SILL DETAIL @ MEATL WALL PANEL — 1:5



7 A107 WINDOW LINTEL DETAIL @ EXISTING WALL — 1:5



6 A107 WINDOW SILL DETAIL @ EXISTING CMU WALL — 1:5

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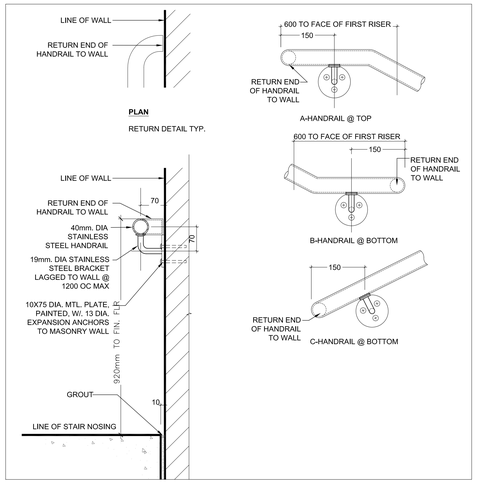
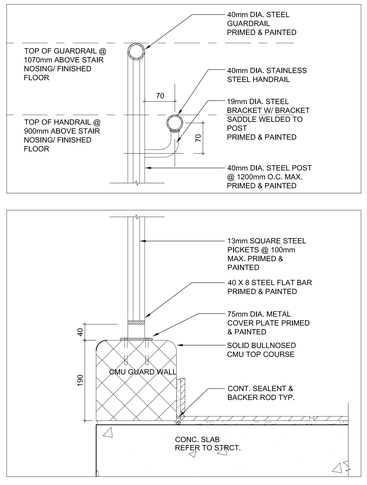
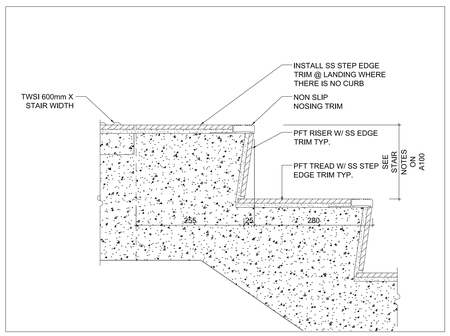


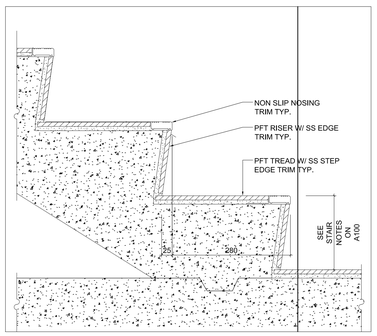
17 A107 STAIR HANDRAIL SECTION DETAIL AT LEVEL 1 & 1A — 1:5



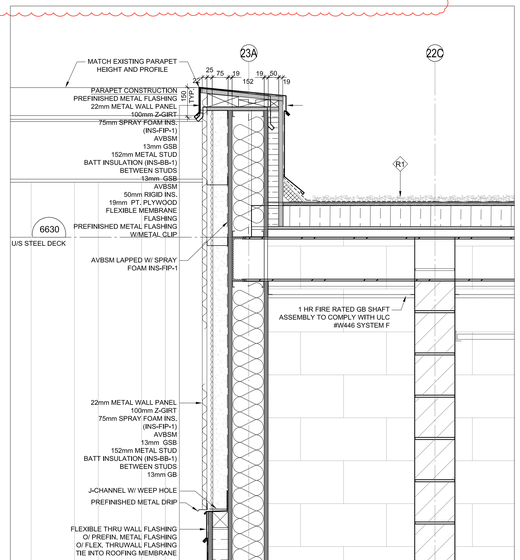
16 A107 STAIR GUARD AND HADRAIL DETAIL AT LEVEL 2 — 1:5



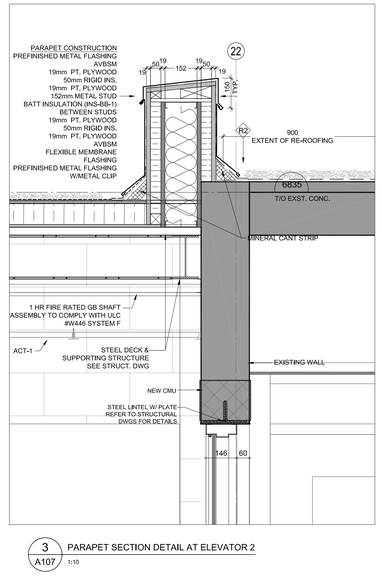
15 A107 STAIR DETAIL AT LEVEL 1A — 1:5



14 A107 STAIR DETAIL AT GRADE — 1:5



5 A107 PARAPET SECTION DETAIL AT ELEVATOR 2 — 1:10



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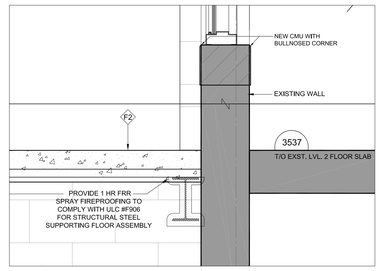

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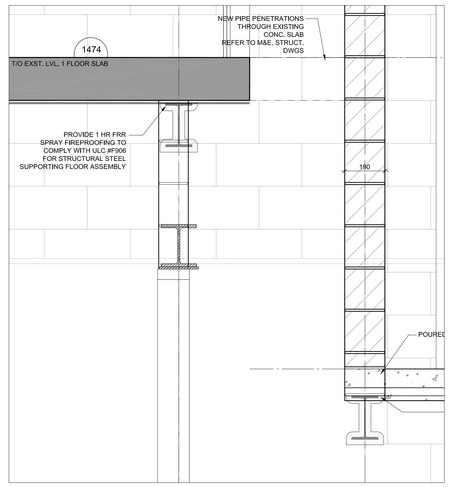

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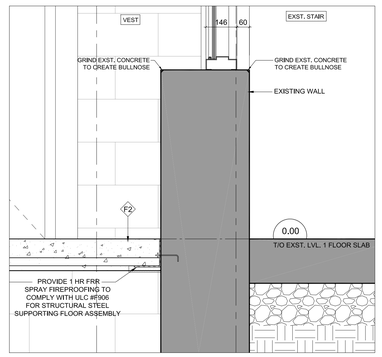
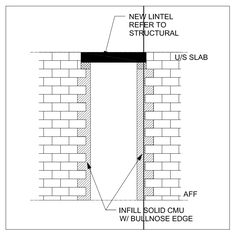
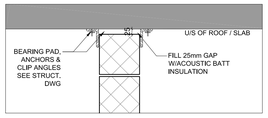


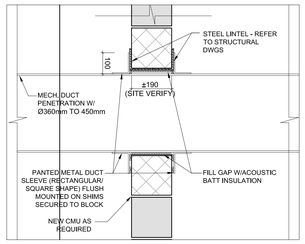
1 A107 SECTION DETAIL AT ELEVATOR 1 — 1:10



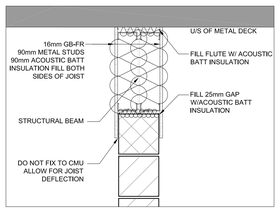
13 A107 CMU OPENING ELEVATION TYP. — N.T.S.



12 A107 TYP. DETAIL @ CMU WALL TOP — 1:10



11 A107 TYP. DETAIL @ DUCT PENETRATION — 1:10



10 A107 TYP. DETAIL @ BEAM & CMU JOINT — 1:10

Client
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2050 Guelph Line
Burlington, Ontario

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Project North | True North

No.	Revisions	Date
2	RE-ISSUED W/ ADDENDUM NO. 4	2025 05 05
1	ISSUED W/ ADDENDUM NO. 2	2025 04 25

No.	Issue	Date

ONTARIO ASSOCIATION OF ARCHITECTS
YAYASH GARDE
LICENCE
6242

Drawing Title:

SECTION DETAILS

Scale:	AS NOTED	Date:	2025 02 06
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	A107

CAD File:

TYPICAL MILLWORK CONSTRUCTION

FIXED & ADJUSTABLE SHELF-1: MCP W/ MATCHING 3mm SOLID PVC EDGE. THICKNESS TO BE 19mm TYP; 25mm FOR SPAN WIDER THAN 800mm

BACK: 19mm MCP W/ MATCHING 3mm PVC EDGE

DOOR: 35MM SOLID CORE DOORS / SOLID WHITE POPLAR RAILS / PLAM FINISH ON BOTH SIDES W/ 3MM SOLID PVC EDGE (TYP.) U.N.O. 3 HINGES PER DOOR, TO BE COMMERCIAL GRADE BALL BEARING BRUSH CHROME PLATED 3.5"X 3.5", (FOR ALL DOORS 1600MM AND TALLER.)

DRAWER: BLUM METABOX DRAWER BODY & SIDE,19MM MCP FRONT WITH 3MM SOLID PVC EDGE. 13MM MCP BOTTOM & BACK.

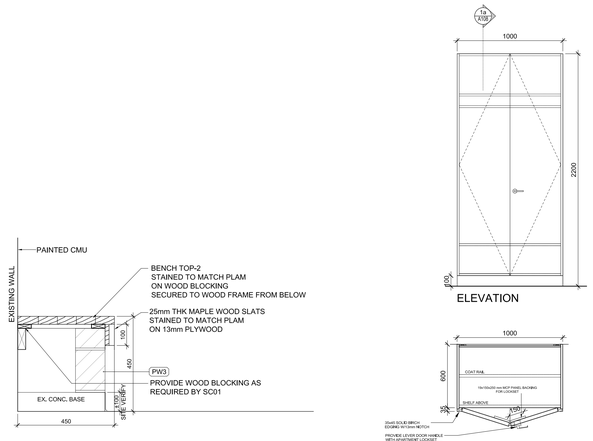
FILLER PANEL (FP): 19mm MCP 25-75mm FIELD ADJUSTED.

BASE: 100mm HIGH RUBBER BASE ON WOOD BLOCKING, (TYP.) U.N.O.

BENCH TOP -2: 38MM MAPLE WOOD SLATS (NO GAP) STAINED. SECURED TO FRAME FROM BELOW.

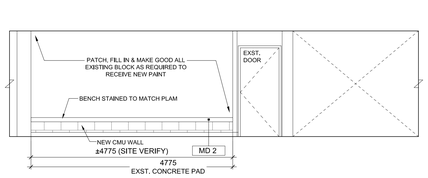
MILLWORK NOTES:

1. PROVIDE CONTINUOUS BLOCKING BEHIND MILLWORK AS NECESSARY; SEAL ALL MILLWORK @ WALL / FLOOR INTERSECTIONS. UNITS TO BE PROVIDED WITH FILLER PANELS, SIZES AS REQUIRED, TO ENCLOSE ENDS AT ADJACENT UNITS OR WALLS.
2. ALL MILLWORK DOORS AND DRAWERS TO BE LOCKABLE.
3. ALL FASTENERS TO BE NON-CORROSIVE TYPE.

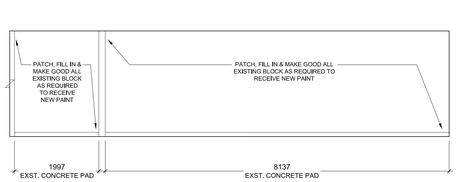


7 / A108 **MD2 (TYP. FOR CORRIDOR)** 1:10

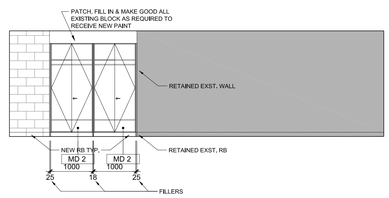
6 / A108 **MD1** 1:20



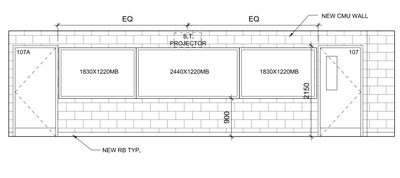
5 / A108 **CORRDIDOR AT LEVEL 0 - EAST ELEVATION (OPPOSITE GUN RANGE GALLERY)** 1:50



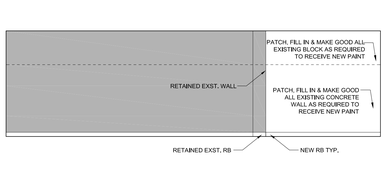
4 / A108 **CORRDIDOR AT LEVEL 0 - WEST ELEVATION** 1:50



3 / A108 **DRAMA - NORTH ELEV.** 1:50



2 / A108 **DRAMA - WEST ELEV.** 1:50



1 / A108 **DRAMA - SOUTH ELEV.** 1:50

CAD File:

Client
Halton District School Board
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Burlington, Ontario

T. A. BLAKELOCK H.S.
RENOVATIONS

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Project North | True North

No.	Revisions	Date
1	ISSUED W/ ADDENDUM NO. 4	2025 05 05

No.	Issue	Date

Drawing Title:
INTERIOR ELEVATIONS
MILLWORK DETAILS

Scale:	AS NOTED	Date:	2025 02 06
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	A108

T.A. Blakelock H.S. Renovation – Phase 3
1160 Rebecca Street, Oakville, Ontario

STRUCTURAL ADDENDUM No. 1

April 28, 2025

The following amendments/clarifications to the Tender Documents are considered to form part of this Tender.

No consideration will be given for extras and/or changes due to the Bidder not being familiar with the contents of this Addendum.

Bidders are to acknowledge this Addendum by signing and enclosing this addendum of this document with their submission.

The following Addendum has been issued to make clarifications, revisions, additions and/or deletions to the various areas of the Request for Tender.

This addendum shall be incorporated in the specifications and drawings and shall form part of the contract documents:

---

1. AMENDMENTS TO DRAWINGS:

A. Drawing S000:
   a. General Steel Deck notes added to the drawing.

B. Drawing S100:
   a. Extent of grouting existing foundation wall for new column clarified.

C. Drawing S200:
   a. West Elevator framing updated to match architectural sections.

D. Drawing S300:
   a. East Elevator framing updated to match architectural sections.

2. ATTACHMENTS TO THIS DOCUMENT:

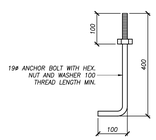
- N/A

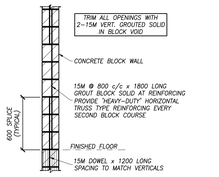
Sincerely,

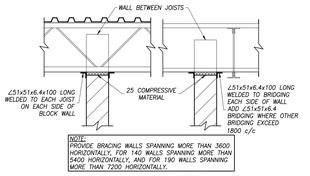
Per: Elio Haddad, P. Eng.
Kalos Engineering Inc.

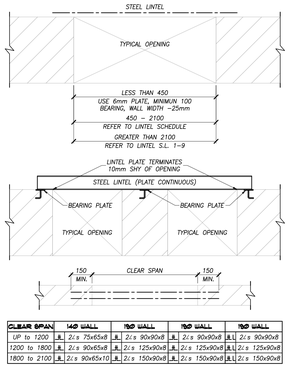
Name of Firm: _____

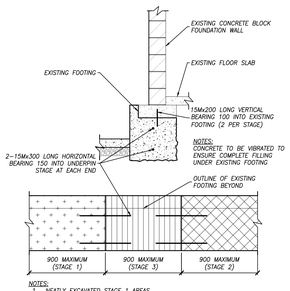
Signature: _____ Date: _____

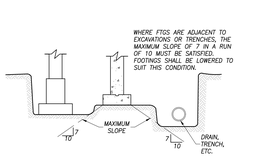


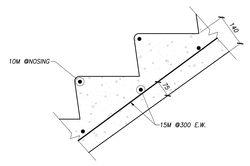


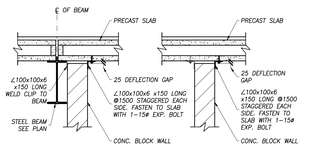


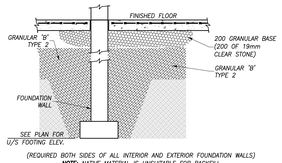


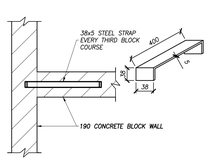


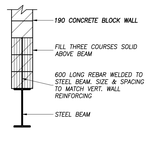


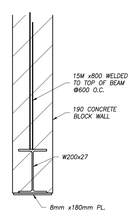


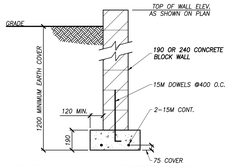


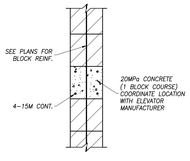


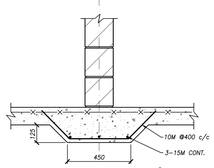


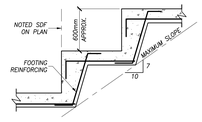


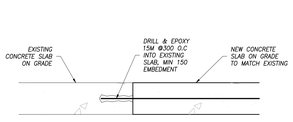


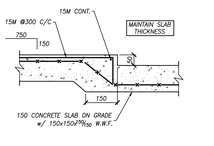












GENERAL NOTES

1. CHECK ALL DIMENSIONS ON THESE DRAWINGS WITH ALL OTHER DRAWINGS, INCLUDING BUT NOT LIMITED TO DRAWINGS PREPARED ARCHITECTURAL, MECHANICAL OR ELECTRICAL CONSULTANTS. REPORT ANY INCONSISTENCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK. DO NOT SCALE THE DRAWINGS.
2. THE DESIGN LIVE LOADS ARE INDICATED ON THE DRAWINGS. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
3. THE COMPLETED STRUCTURE IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING, SHORING AND ANY OTHER TEMPORARY OR PERMANENT MEASURES AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT OF EXISTING OR ADJACENT STRUCTURES AS REQUIRED. ALL BRACING AND SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONSTRUCTION FEATURES NOT FULLY SHOWN ARE COMPARABLE TO SIMILAR CONDITION DETAILS.
5. REFER TO OTHER CONSULTANTS DRAWINGS FOR DETAILS OF OPENINGS, PITS, CHAMFERS, DEPRESSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
6. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST ONTARIO BUILDING CODE, LATEST APPLICABLE REGULATIONS, AND GOOD CONSTRUCTION PRACTICES.
7. THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
8. CLARIFY ANY QUERIES WITH THE ENGINEER REGARDING THE INTERPRETATION OF THE DRAWINGS, PRIOR TO THE COMMENCEMENT OF ANY WORK.

MASONRY NOTES

1. ALL STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD S304.1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD A371. ALL MASONRY CONNECTORS, REINFORCING AND TYING SHALL BE IN ACCORDANCE WITH CSA A370. ALL MORTAR AND GROUT SHALL BE IN ACCORDANCE WITH A179.
2. ALL CONCRETE BLOCKS SHALL BE NORMAL WEIGHT TYPE H/15/A/M UNLESS OTHERWISE NOTED. MORTAR SHALL BE TYPE S FOR LOADBEARING AND TYPE N FOR NON-LOADBEARING.
3. VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 6000mm. REFER TO ARCHITECTURAL DRAWING FOR DETAILS AND LOCATIONS.
4. TRIM ALL OPENINGS WITH 2-15M BARS.
5. GROUT SHALL CONSIST OF ON ONE PART PORTLAND CEMENT, THREE PARTS SAND (MAXIMUM AGGREGATE SIZE SHALL BE 10mm) WITH WATER TO PROVIDE A MINIMUM 10MPa COMPRESSIVE STRENGTH AT 28 DAYS. SLUMP SHALL BE 200mm TO 250mm.
6. ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED SOLID. TWO BLOCK COURSES BELOW BEARING PLATES SHALL BE GROUTED SOLID.
7. THE MASONRY SHALL BE CONSTRUCTED EVENLY WITH MAXIMUM LIFTS OF 1200 PER DAY. DO NOT TOOTH AND BOND OR STACK BOND MASONRY. RAKE BACK ENDS OF UNFINISHED WALLS.
8. ALL MORTAR JOINTS SHALL BE TOOLED (CONCAVE). A MINIMUM BED JOINT OF 6mm IS REQUIRED FOR THE STARTING COURSE TO A MAXIMUM OF 20mm. THE BED JOINTS SHALL BE 10mm.
9. PROVIDE VERTICAL AND HORIZONTAL REINFORCING AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   - 140 CONCRETE BLOCK – HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE.
   - 190 CONCRETE BLOCK – 15M VERTICAL AT 800 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE.
10. THE HORIZONTAL REINFORCING AT EXTERIOR WALLS SHALL BE GALVANIZED. DO NOT EXTEND HORIZONTAL REINFORCING THROUGH CONTROL JOINTS UNLESS OTHERWISE NOTED.
11. PROVIDE A STEEL LINTEL OVER ALL OPENINGS OR RECESSES INCLUDING OPENINGS FOR MECHANICAL AND ELECTRICAL COMPONENTS. ALL EXTERIOR LINTELS TO BE HOT DIP GALVANIZED.
12. BUILD THE MASONRY SOLID AROUND ALL BEAM, LINTEL AND JOIST POCKETS. INSTALL BEARING PLATES AT THE SPECIFIED ELEVATION AND GROUT THE PLATE INTO THE WALL A MINIMUM OF 400mm.
13. PROVIDE TEMPORARY BRACING AS REQUIRED TO SUPPORT THE MASONRY WALLS IN CONSTRUCTION. PROTECT THE MASONRY WALLS FROM THE ELEMENTS AT ALL TIMES EXCEPT DURING CONSTRUCTION PROGRESS.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL ELEMENTS, INCLUDING DESIGN OF ELEMENTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH CAN/CSA S16.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 (300W) EXCEPT W SECTIONS AND PLATES G40.21 (350W), HSS MEMBERS G40.21 (350W) CLASS C OR ASTM A500 GRADE C, ANCHOR BOLTS ASTM A307, COLD FORMED SECTIONS ASTM A570M GRADE 350W. UNLESS OTHERWISE NOTED, ALL SECTIONS SHALL BE PRIME PAINTED WITH THE SURFACE PREPARATION AND PAINTING PROCEDURES IN ACCORDANCE WITH CAN/CGSB 85.10. ALL FIRE RATED STEEL TO BE LEFT UNPRIMED.
3. ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CAN/CSA W59. THE STEEL FABRICATOR SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CAN/CSA W47.1.
4. DESIGN ALL MOMENT AND SHEAR CONNECTIONS FOR THE FULL CAPACITY OF THE SMALLER MEMBER IN THE CONNECTION UNLESS OTHERWISE NOTED.
5. PROVIDE MINIMUM BEARING LENGTH OF STEEL MEMBERS AS FOLLOWS:
   - ON MASONRY – 150mm
   - ON STEEL – 90mm
6. THE BASE PLATE AND BEARING PLATE GROUT SHALL BE OF THE CEMENTITIOUS NON-SHRINK TYPE.
7. FULLY WELD THE BASE PLATE TO THE COLUMN TO DEVELOP THE ANCHOR BOLTS. PROVIDE CAP PLATES ON ALL COLUMNS. PROVIDE 6mm CAP PLATES ON ALL COLUMNS.
8. PROVIDE MINIMUM 175x10x175 BEARING PLATES FOR ALL STRUCTURAL STEEL c/w 2-15Ø ANCHORS UNLESS OTHERWISE NOTED.
9. ALL BOLTS SHALL BE TIGHTENED WITH A SUITABLE TORQUE WRENCH IN ACCORDANCE WITH CSA S16.
10. ALL STEEL EXPOSED TO THE EXTERIOR TO BE HOT DIP GALVANIZED.
11. ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CSA S16 AND IN CONFORMANCE WITH THE APPROVED SHOP DRAWINGS.

METAL DECK NOTES

1. ALL WELDING OF DECK AND ASSOCIATED COMPONENTS SHALL BE CARRIED OUT IN ACCORDANCE WITH CAN/CSA W59. THE STEEL FABRICATOR AND INSTALLER SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU (CWB) IN CONFORMANCE WITH CAN/CSA W47.1.
2. ALL DECK SHALL BE DESIGNED TO RESIST THE LOADS NOTED ON THE DRAWINGS IN ACCORDANCE WITH PART 4 OF THE LATEST ONTARIO BUILDING CODE. DECK AND FASTENING SHALL HAVE ADEQUATE CAPACITY TO SUPPORT THE DESIGN GRAVITY AND DIAPHRAGM LOADS AS NOTED ON THE DRAWINGS.
3. DECK SHALL BE EITHER 38mm (1 ½") OR 76mm (3") DEEP IN ACCORDANCE WITH CSA S136 AND SHALL BE FABRICATED FROM ASTM A653 SS OR GRADE 230 GALVANIZED STEEL WITH A ZF75 GALVANNEAL OR Z275 GALVANIZED ZINC COATING. THE MINIMUM NOMINAL STEEL CORE THICKNESS SHALL BE 0.76mm (22 ga).
4. DECK SHALL BE FASTENED TO THE SUPPORTING STRUCTURE WITH 20mm ARC SPOT WELDS AT NOT LESS THAN 300mm (12") O.C. (36/4) AT SUPPORTS AND NOT LESS THAN 150mm (6") O.C. (36/7) WITHIN 3m (10'-0") OF THE NEAREST BUILDING EDGE. SIDELAPS SHALL BE CLINCHED AT 600mm (24") O.C. ALL WELDS SHALL BE TOUCHED UP WITH PRIMER. MECHANICAL FASTENERS MAY ONLY BE USED WITH THE PERMISSION OF THE ENGINEER.
5. THE STEEL DECK CONTRACTOR SHALL REINFORCE THE DECK FOR ROOF OPENINGS FROM 150mm (6") TO 400mm (16") WIDE AND FOR FLOOR OPENINGS FROM 150mm (6") TO 300mm (12") WIDE WITH LIGHT GAUGE METAL ANGLES (MIN. 16 GA).

LIGHT GAUGE STEEL FRAMING NOTES

GENERAL

1. THESE NOTES APPLY TO THE STEEL STUD FRAMING COMPONENT OF THE EXTERIOR WALL SYSTEM ONLY.
2. THE DESIGN WIND LOADING IS 1.2kN/m² (25 PSF) DETERMINED BY O.B.C. REQUIREMENTS AND CAN-S136. DEFLECTION IS LIMITED TO L/360.
3. THE DESIGN OF FRAMING SYSTEM IS BASED ON PUBLISHED STUD SECTION PROPERTIES BY BAILEY METAL PRODUCTS LIMITED.

MATERIAL

1. THE MINIMUM BASE METAL THICKNESS FOR ALL METAL WALL COMPONENTS, EXCLUDING COATINGS ARE NOTED ON THE DRAWINGS.
2. STEEL MEETS THE REQUIREMENTS OF A.S.T.M. A653/A653M SS GRADE 33 (230) FOR 1.22mm MATERIAL AND THINNER, AND SS GRADE 50 (340) CLASS 1 FOR 1.52mm MATERIAL AND THICKER.
3. GALVANIZING TO BE HOT-DIP PROCESS, G90 (Z275).

EXECUTION

1. METHOD OF CONSTRUCTION SHALL BE BY STICK BUILDING ON SITE.
2. CONNECTIONS SHALL BE ACCOMPLISHED BY SELF DRILLING SCREWS AND OTHER FASTENERS AS SHOWN ON THESE DRAWINGS. PENETRATION BEYOND JOINED MATERIALS SHALL BE NOT LESS THAN THREE EXPOSED THREADS. ALL CONNECTORS USED IN ASSEMBLIES SHALL BE OF CORROSION RESISTANT MATERIAL COMPATIBLE WITH GALVANIZED COATINGS WITH A MINIMUM COATING THICKNESS OF 0.039mm ZINC OF CADMIUM PLATES. NO BLACK CONNECTORS WILL BE ACCEPTED. SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
3. SCREWS COVERED BY SHEATHING MATERIALS SHALL HAVE LOW PROFILE HEADS.
4. WIRE TYING IS NOT PERMITTED IN STRUCTURAL APPLICATIONS.
5. CUTTING OF STEEL FRAMING MEMBERS SHALL BE BY SAW OR SHEAR. NO TORCH OR MANUAL CUTTING IS PERMITTED.
6. SPLICING OF STUDS OR TRACK IS NOT PERMITTED EXCEPT AS NOTED ON DRAWINGS.
7. BRIDGING SHALL BE OF SIZE, SPACING AND TYPE SHOWN ON THE DRAWINGS AND SHALL BE INSTALLED SO AS TO PROVIDE RESISTANCE TO MINOR AXIS BENDING AND ROTATION OF STUDS. PROVIDE BRIDGING AT 1200mm c/c MAXIMUM.
8. TEMPORARY BRACING SHALL BE PROVIDED AND LEFT IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.
9. STUDS SHALL SEAT INTO TOP AND BOTTOM TRACKS WITH THE GAP BETWEEN THE END OF THE STUD AND WEB OF THE TRACK NOT TO EXCEED 3mm.
10. VERTICAL ALIGNMENT (PLUMBNESS) OF STUDS SHALL BE WITHIN 1/1000 OF THE SPAN.
11. HORIZONTAL ALIGNMENT (LEVELNESS) OF WALLS SHALL BE WITHIN 1/1000 OF THEIR RESPECTIVE LENGTHS.
12. SPACING OF STUDS SHALL BE WITHIN 3mm FROM DESIGN SPACING PROVIDED THAT CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF THE FINISHING MATERIALS.

SHORING NOTES

1. ALL FRAMES AND SHORING JACKS TO BE PLUMB AND LEVEL.
2. SHORING JACKS TO BE DESIGNED BY THE SUPPLIER FOR THE LOADS AND HEIGHTS SHOWN, INCLUDING BRACING.
3. MAX. EXTENSION OF SCREWJACKS WILL BE 400mm UNLESS NOTED.
4. SCAFFOLDING SHALL BE ERECTED IN ACCORDANCE TO C.S.A. CODE S269.1.
5. SHORING TO REMAIN IN PLACE UNTIL BEAM AND ALL BRACING IS COMPLETELY INSTALLED.
6. CONTRACTOR TO PREPARE AND SUBMIT FULL SHORING DRAWINGS FOR APPROVAL FOR ALL TEMPORARY SUPPORTS. PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER, PRIOR TO ANY REMOVALS.

ADDITIONAL NOTES:

- PROVIDE TEMPORARY SHORING TO STRUCTURE ABOVE PRIOR TO ANY REMOVALS.
- EXISTING FRAMING SHOWN IS ASSUMED BASED ON SITE REVIEW AND EXISTING DRAWINGS REFERENCED IN NOTES BELOW. CONTRACTOR TO EXPOSE EXISTING STRUCTURE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

SUBMITTALS

1. SUBMIT FOR REVIEW BY THE CONSULTANT, DETAILED SHOP DRAWINGS FOR ALL STRUCTURAL WORK INCLUDING, BUT NOT LIMITED TO: CONCRETE FORMWORK, CONCRETE MIX DESIGN, REINFORCING STEEL, STRUCTURAL STEEL, COLD-FORMED STEEL STUD AND TEMPORARY SHORING.
2. THE SCALE OF THE DRAWINGS SHALL BE SUCH THAT THE DETAILS OF THE STRUCTURAL WORK ARE CLEARLY SHOWN, AND IN NO CASE SMALLER THAN ¼"=1'-0" (1:50).
3. THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, FOR USE AS SHOP DRAWINGS.
4. EACH DRAWING SUBMITTED FOR CONCRETE FORMWORK, STRUCTURAL STEEL, COLD-FORMED STEEL STUD AND TEMPORARY SHORING SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
5. CONTRACTOR SHALL ALLOW FOR A 5 WORKING DAY TURN AROUND TIME FOR STRUCTURAL CONSULTANT TO REVIEW THE SHOP DRAWINGS.

CALCULATIONS

1. SUBMIT CALCULATIONS, BEARING THE SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO, FOR STRUCTURAL WORK, IF REQUESTED BY THE CONSULTANT.

CONCRETE NOTES

1. ALL STRUCTURAL CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD CAN/CSA A23.3. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD CAN/CSA A23.1.
2. MINIMUM CONCRETE STRENGTH AT 28 DAYS SHALL BE:
   - FOOTINGS * – 25 MPa TYPE N
   - FOUNDATION WALLS * – 25 MPa TYPE F2
   - SLAB ON GRADE – 25 MPa TYPE N
   - TOPPING – 25 MPa

   SLUMP SHALL BE 3" ± 1".
   AGGREGATE SHALL BE ¾" MAXIMUM.
   * PROVIDE CRYSTALLINE WATERPROOFING ADMIXTURE AT ELEVATOR PITS.
   AIR ENTRAINMENT TO BE 6% ± 1% WHEN EXPOSED TO EXTERIOR.
   CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN FOR REVIEW
3. THE DEFORMED REINFORCING STEEL SHALL CONFORM TO CSA STANDARD G30.18M-09 GRADE 300R FOR STIRRUPS AND TIES AND GRADE 400R FOR ALL OTHER REINFORCING. UNLESS OTHERWISE NOTED THE REINFORCING LAP LENGTH SHALL BE 'CLASS B' IN SPLICES. ALL REINFORCING HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH A23.1.
4. WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH CSA G30.5. ALL MESH SHALL BE CHAIRED PRIOR TO THE CONCRETE POUR. LIFTING OF THE MESH DURING THE CONCRETE POUR WILL NOT PERMITTED. ALL SPLICES SHALL BE A MINIMUM OF TWO CROSSWIRE SPACINGS PLUS 2".
5. THE REINFORCING COVER FOR CONCRETE SHALL BE:
   - 3" FOR CONCRETE AGAINST EARTH
   - 1½" FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 15M OR SMALLER
   - 2" FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 20M OR LARGER
   - 1" FOR INTERIOR CONCRETE. ALL CHAIRS, BOLSTERS, SPACERS AND BAR SUPPORTS SHALL BE IN ACCORDANCE WITH A23.1.
6. FOOTINGS SHALL BEAR ON NATIVE UNDISTURBED SOIL OR ENGINEERED FILL WITH A MINIMUM BEARING RESISTANCE OF:
   - 3000 psf (SLS)
   - 4000 psf (ULS).

   THE CONTRACTOR SHALL VERIFY THE CAPACITY PRIOR TO PLACEMENT OF CONCRETE.
7. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATION OR STEP DOWN FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. STEP HEIGHT SHALL NOT EXCEED 2'-0".
8. KEEP EXCAVATIONS DRY BEFORE CONCRETE IS PLACED. REMOVE ALL LOOSE MATERIAL, SOFT SOIL OR WATER PRIOR TO PLACING CONCRETE. PROVIDE A 3" MUD MAT FOR ALL FOOTINGS BELOW THE WATER TABLE.
9. ALL FOOTINGS SHALL BE CENTRED ON THE WALL UNLESS OTHERWISE NOTED.
10. THE FOOTING DESIGN IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE FOOTING DESIGN MAY BE ALTERED DURING CONSTRUCTION, IF THE SITE CONDITIONS WARRANT, BUT ONLY WITH THE EXPRESS PERMISSION OF THE ENGINEER.
11. PROTECT ALL FOOTINGS, WALLS AND SLABS AGAINST FROST ACTION DURING CONSTRUCTION. ALL EXTERIOR FOOTINGS SHALL FOUNDED BELOW THE FROST LINE, MINIMUM 5'-0" BELOW GRADE.
12. DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL THE ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETE. PLACE BACKFILL IN A MANNER WHERE THE ELEVATION DIFFERENCE ON EITHER SIDE OF THE WALL IS NO GREATER THAN 1'-6". PROVIDE TEMPORARY SHORING AS REQUIRED.
13. SLAB-ON-GRADE GRADE CONSTRUCTION SHALL BE CAPABLE OF SUPPORTING 500 lbs/ft² WITHOUT RELATIVE SETTLEMENT.
14. CONSTRUCT CONCRETE WALLS WITHOUT CONTROL JOINTS, UNLESS OTHERWISE NOTED. PROVIDE CHASES AND BEAMS POCKETS IN THE INTERIOR FACE OF THE WALL AS REQUIRED.
15. PROVIDE DOWELS TO WALLS AND COLUMNS TO SUIT THE REINFORCING IN THE WALL OR COLUMN ABOVE.
16. ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE HILTI HIT-HY200 (OR APPROVED EQUAL) PROCEDURES.
17. PROVIDE DEWATERING AS REQUIRED FOR NEW FOUNDATIONS.

LOADING SUMMARY

DESIGN STANDARDS

- ONTARIO BUILDING CODE, 2024, PART 4: STRUCTURAL DESIGN
- CAN/CSA-A23.3-19, DESIGN OF CONCRETE STRUCTURES
- CAN/CSA-A23.4-16, DESIGN OF PRECAST CONCRETE STRUCTURES
- CAN/CSA-S304-14, MASONRY DESIGN FOR BUILDINGS
- CAN/CSA-S16-19, LIMIT STATES DESIGN OF STEEL STRUCTURES
- CAN/CSA-S136-16, DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS
- CAN/CSA-086-19, ENGINEERING DESIGN IN WOOD

SNOW, ICE AND RAIN LOADS

APPLIED PER OBC, PART 4, SECTION 4.1.6

- IMPORTANCE FACTOR, Is	0.9 (SLS) 1.15 (ULS)
- GROUND SNOW LOAD, Ss	0.9 kPa (18.80 PSF)
- ASSOCIATED RAIN LOAD, Sr,	0.4 kPa (8.35 PSF)
- WIND EXPOSURE FACTOR, Cw,	1.0
- ROOF SNOW LOAD, S,	1.47 kPa (30.70 PSF)

- DRIFT LOADS PER CLAUSE 4.1.6.2.8
- SLOPE FACTORS PER CLAUSE 4.1.6.2.(5) TO (7)

WIND LOADS

APPLIED PER OBC, PART 4, SECTION 4.1.7

- IMPORTANCE FACTOR, Iw — 0.75 (SLS) 1.15 (ULS)
- REFERENCE VELOCITY PRESSURE FOR STRUCTURAL MEMBERS
  0.46 kPa — 1/50 YEAR PROBABILITY — (9.61 PSF)
- REFERENCE VELOCITY PRESSURE FOR CLADDING & NON-STRUCTURAL MEMBERS
  0.36 kPa — 1/10 YEAR PROBABILITY — (7.52 PSF)
- GUST FACTORS Cg:
  - 2.0 FOR WHOLE & MAIN STRUCTURAL MEMBERS
  - 2.5 FOR SMALL ELEMENTS INCLUDING CLADDING
  - 2.0 FOR INTERNAL PRESSURES
- BUILDING INTERNAL PRESSURE CATEGORY _2_ PER 4.1.7.7

FLOOR LOADS

APPLIED PER OBC, PART 4, TABLE 4.1.5.3

- CLASSROOM	2.4 kPa	(50 PSF)
- CORRIDORS	4.8 kPa	(100 PSF)
- STAIRS AND EXITS	4.8 kPa	(100 PSF)
- WASHROOMS	2.4 kPa	(50 PSF)

SEISMIC SWAY BRACING

PER ARTICLE 4.1.8.18(2) OF THE ONTARIO BUILDING CODE SEISMIC SWAY BRACING DOES NOT APPLY TO NON-STRUCTURAL COMPONENTS AND EQUIPMENT, SHOULD THE BUILDING BE IN SEISMIC CATEGORY SC1 OR SC2. THIS EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS. BUILDING SEISMIC CATEGORY IS SC3, THEREFORE SEISMIC SWAY BRACING OF NON-STRUCTURAL COMPONENTS AND EQUIPMENT IS REQUIRED.

DESIGN LOADS

NEW ROOF LOADS:

DEAD:

- ROOFING	0.35 kPa
- INSULATION & PROTECTION BOARD	0.16 kPa
- DECK	0.10 kPa
- FRAMING	0.14 kPa
- MECH. & ELECTRICAL	0.35 kPa
- CEILING	0.20 kPa
TOTAL	1.30 kPa

NEW FLOOR LOADS:

DEAD:

- 127 COMPOSITE DECK	2.50 kPa
- MISC. MECH. & ELECTRICAL	0.35 kPa
- FLOORING	0.25 kPa
- CEILING	0.20 kPa
- FRAMING	0.15 kPa
TOTAL	3.45 kPa

TYPICAL ANCHOR BOLT
SCALE: NTS

TYPICAL BLOCK WALL REINFORCING
SCALE: NTS

TYPICAL PARTITION WALL BRACING AT UNDERSIDE OF STEEL JOIST
SCALE: NTS

CLEAR SPAN	140 WALL	190 WALL	190 WALL	190 WALL
UP to 1200	⊥⊥ 2∠s 75x65x8	⊥⊥ 2∠s 90x90x8	⊥⊥ 2∠s 90x90x8	⊥⊥∟ 2∠s 90x90x8
1200 to 1800	⊥⊥ 2∠s 90x65x8	⊥⊥ 2∠s 125x90x8	⊥⊥ 2∠s 125x90x8	⊥⊥∟ 2∠s 125x90x8
1800 to 2100	⊥⊥ 2∠s 90x65x10	⊥⊥ 2∠s 150x90x8	⊥⊥ 2∠s 150x90x8	⊥⊥∟ 2∠s 150x90x8

FOR LINTELS IN 90 VENEER, USE 1 ANGLE OF THAT NOTED FOR 190 WALL ON SIMILAR SPAN.

DOUBLE ANGLES TO BE STITCH WELDED BACK TO BACK.

TYPICAL STEEL LINTEL DETAIL
SCALE: NTS

NOTES:
1. NEATLY EXCAVATED STAGE 1 AREAS
2. FORM AND PLACE CONCRETE IN STAGE 1, ENSURING CONCRETE IS FILLED TIGHT TO UNDERSIDE OF EXISTING FOOTING
3. REPEAT FOR STAGE 2 AREAS
4. REPEAT FOR STAGE 3 AREAS

TYPICAL UNDERPINNING DETAIL
SCALE: NTS

ELEVATIONS OF ADJACENT FOOTINGS AND EXCAVATIONS
SCALE: NTS

TYPICAL CAST-IN-PLACE STAIR REINFORCING
SCALE: NTS

TYPICAL PARTITION WALL BRACING AT UNDERSIDE OF PRECAST SLAB
SCALE: NTS

(REQUIRED BOTH SIDES OF ALL INTERIOR AND EXTERIOR FOUNDATION WALLS)
NOTE: NATIVE MATERIAL IS UNSUITABLE FOR BACKFILL

TYPICAL EXCAVATION AND BACKFILL AT FOUNDATION WALLS
SCALE: NTS

TYPICAL INTERSECTION OF CONCRETE BLOCK WALLS
SCALE: NTS

TYPICAL ANCHORAGE OF STEEL BEAM TO MASONRY WALL
SCALE: NTS

STEEL LINTEL SL1
SCALE: 1:10

TYPICAL CONCRETE BLOCK STRIP FOOTING
SCALE: NTS

TYPICAL CONCRETE BOND BEAM
SCALE: NTS

TYPICAL THICKENING OF SLAB ON GRADE UNDER PARTITION WALLS
SCALE: NTS

TYPICAL STEPPING OF WALL FOOTING DETAIL
SCALE: NTS

TYPICAL SLAB REPAIR DETAIL
SCALE: 1:10

TYPICAL DETAIL AT FLOOR DEPRESSION
SCALE: NTS

DRAWINGS CREATED USING INFORMATION FROM EX. DRAWINGS PREPARED BY:
(1955 ORIGINAL) SHORE & MOFFAT ARCHITECTS. PROJECT NO. 230 DATED 1956/02/06
(1969 ADDITION #2) SHORE & MOFFAT AND PARTNERS. PROJECT NO. 230D DATED 1969/10/20
(1989 ADDITION #3) SVEDAS KOYANAGI ARCHITECTS & PHILIPS ENGINEERING. PROJ. NO. 89802, DATED OCT. 1989

CAD File:

Client
Halton District School Board
2050 Guelph Line
Burlington, Ontario

T. A. BLAKELOCK H.S.
RENOVATIONS

1160 Rebecca Street
Oakville, ON

Architect
Snyder Architects Inc.
100 Broadview Ave, Suite 301, Toronto, ON, M4M 3H3
tel. 416.966.5444 fax. 416.966.4443
www.snyderarchitects.ca

Consultants

Structural Consultants
Kalos Engineering Inc.
300 York Boulevard
Hamilton, Ontario, L8R 3K6
Tel: 905-333-9119

Mechanical and Electrical Consultants
EXP
1266 S. Service Rd,
Stoney Creek, Ontario, L8E 5R9
Tel: 905-525-6069

N
Project North
N
True North

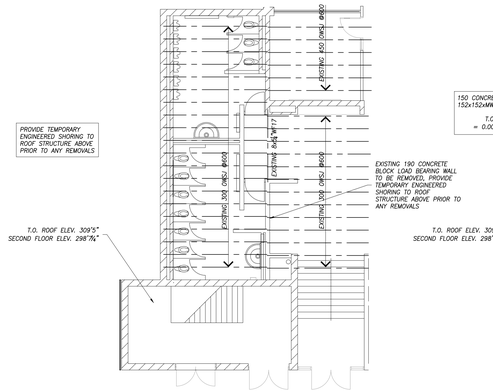
No.	Revisions	Date

No.	Issue	Date
3	ADDENDUM S1	2025-04-28
2	ISSUED FOR TENDER	2025-04-17
1	ISSUED FOR PERMIT	2025/04/10

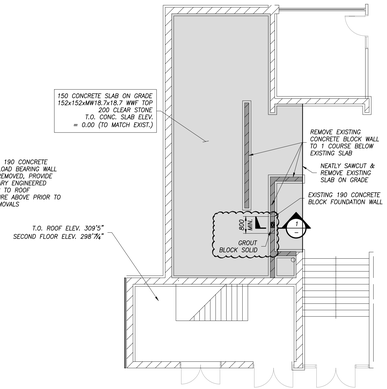
General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
TYPICAL
NOTES

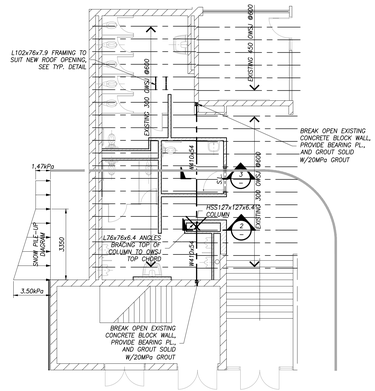
Scale: AS NOTED
Date: MARCH 2025
Drawn by:
Checked by:
Job No. 2215-C
Drawing No. S000



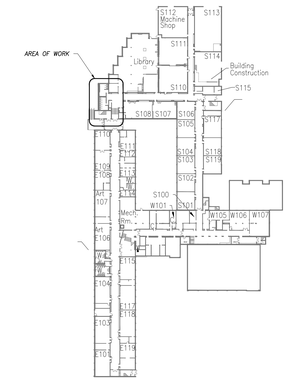
PART EXISTING/DEMO FRAMING PLAN
SCALE: 1:100



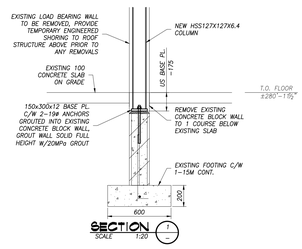
PART FOUNDATION PLAN
SCALE: 1:100



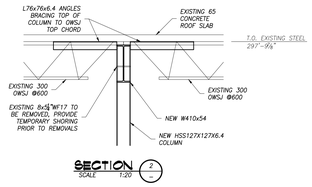
PART ROOF FRAMING PLAN
SCALE: 1:100



KEY PLAN - GROUND FLOOR FRAMING



SECTION 1 / SCALE 1:20



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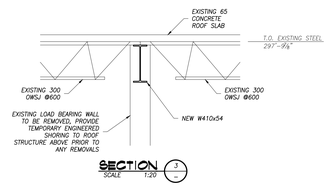
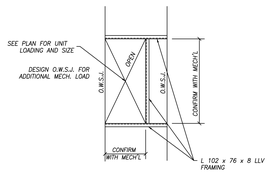


SECTION 3 / SCALE 1:20



TYPICAL MECHANICAL ROOF/FLOOR OPENING FRAMING
SCALE: NTS

SHORING NOTES

1. ALL FRAMES AND SHORING JACKS TO BE PLUMB AND LEVEL.
2. SHORING JACKS TO BE DESIGNED BY THE SUPPLIER FOR THE LOADS AND HEIGHTS SHOWN, INCLUDING BRACING.
3. MAX. EXTENSION OF SCREWJACKS WILL BE 400mm UNLESS NOTED.
4. SCAFFOLDING SHALL BE ERECTED IN ACCORDANCE TO C.S.A. CODE S269.1.
5. SHORING TO REMAIN IN PLACE UNTIL BEAM AND ALL BRACING IS COMPLETELY INSTALLED.
6. CONTRACTOR TO PREPARE AND SUBMIT FULL SHORING DRAWINGS FOR APPROVAL FOR ALL TEMPORARY SUPPORTS. PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER, PRIOR TO ANY REMOVALS.

ADDITIONAL NOTES:

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- EXISTING FRAMING SHOWN IS ASSUMED BASED ON SITE REVIEW AND EXISTING DRAWINGS REFERENCED IN NOTES BELOW. CONTRACTOR TO EXPOSE EXISTING STRUCTURE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

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Unit No.

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Project North

True North

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3	ADDENDUM S1	2025-04-28
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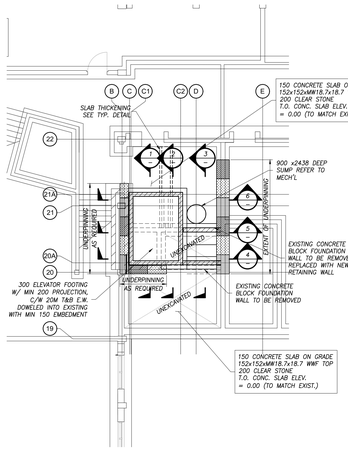
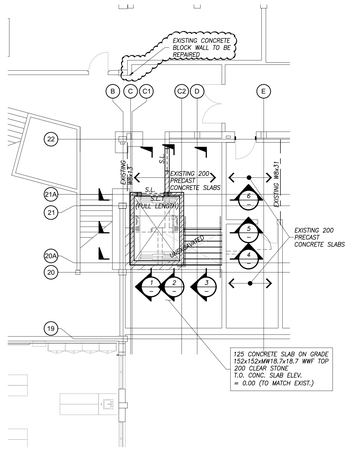
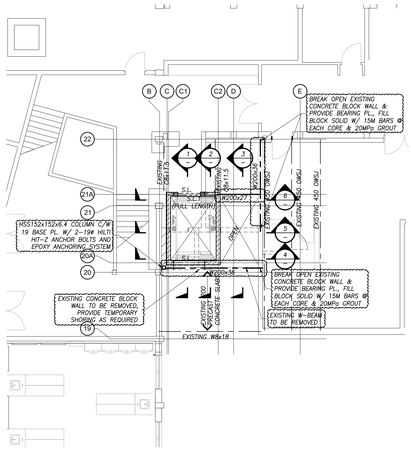
1	ISSUED FOR PERMIT	2025/04/10
No.	Issue	Date

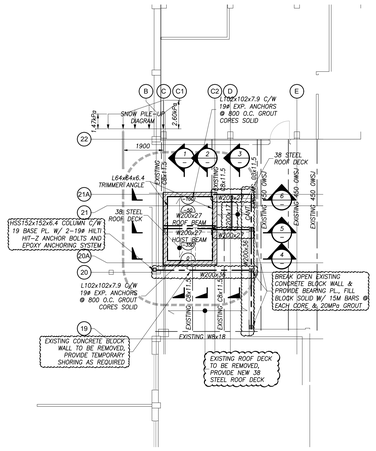
Drawing Title:
WASHROOM RENOVATION DETAILS

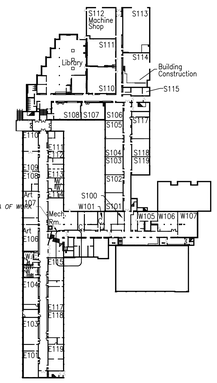
Scale:	AS NOTED	Date:	MARCH 2025
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	S100







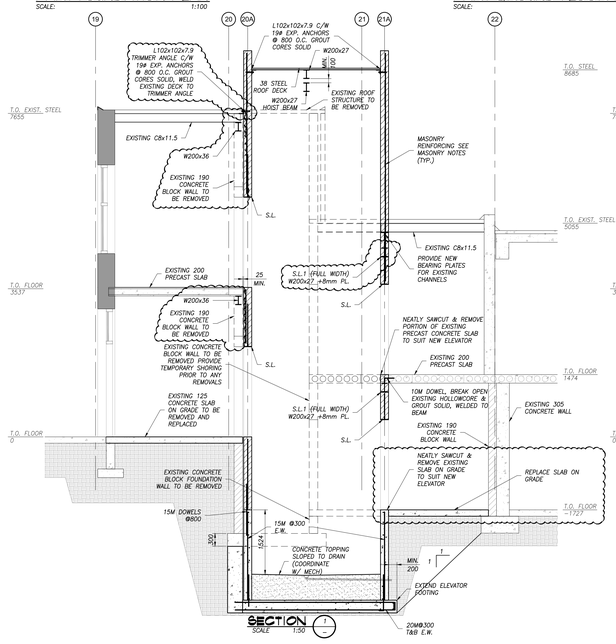




KEY PLAN - GROUND FLOOR FRAMING

PART FOUNDATION PLAN

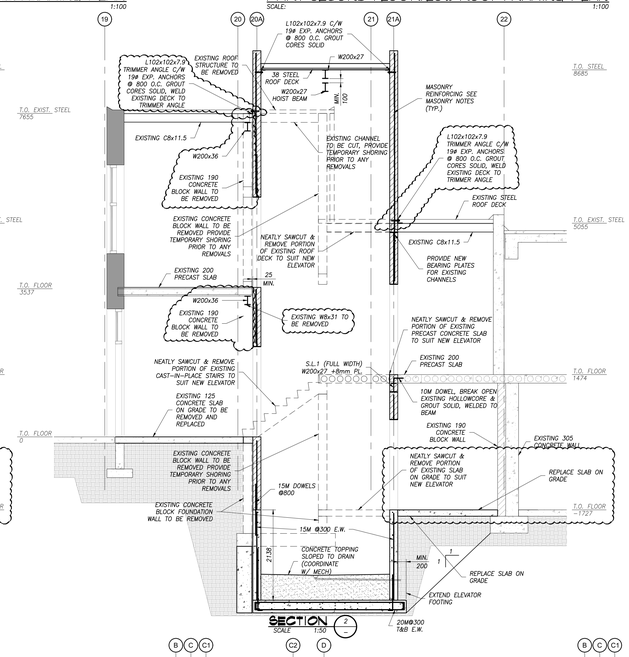
SCALE: 1:100



SECTION 1 — SCALE 1:50

PART GROUND FLOOR FRAMING PLAN

SCALE: 1:100



SECTION 2 — SCALE 1:50

PART SECOND FLOOR/LOW ROOF FRAMING PLAN

SCALE: 1:100

SECTION 3 — SCALE 1:50

HIGH ROOF FRAMING PLAN

SCALE: 1:100

SECTION 6 — SCALE 1:50

SHORING NOTES

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CAD File:

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Project North / True North

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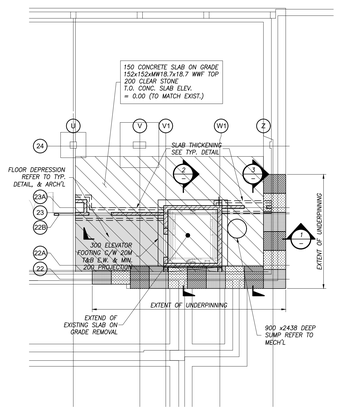
2	ISSUED FOR TENDER	2025-04-17
1	ISSUED FOR PERMIT	2025/04/10

No.	Issue	Date

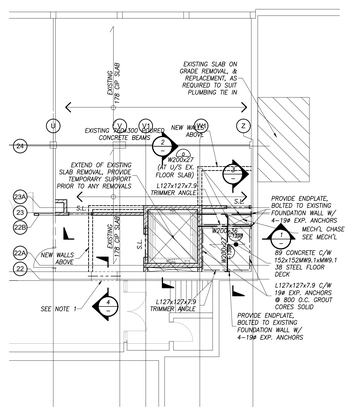
Drawing Title:
WEST ELEVATOR DETAILS

Scale: AS NOTED	Date: MARCH 2025
Drawn by:	Checked by:
Job No. 2215-C	Drawing No. S200



PART FOUNDATION PLAN

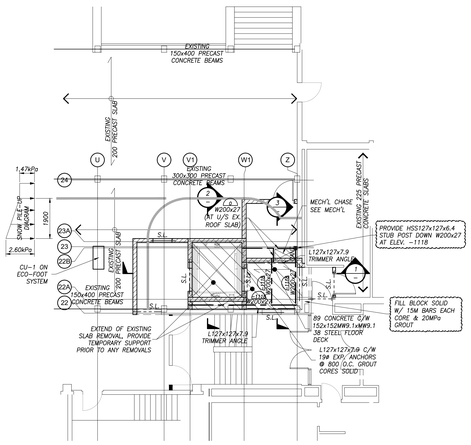
SCALE: 1:100



PART SECOND FLOOR FRAMING PLAN

SCALE: 1:100

NOTE 1:
- PROVIDE REBAR SCAN REPORT AND MARK REBAR ARRANGEMENT ON WALL.
- PROVIDE SURVEY TO ENSURE NEW OPENING IS MINIMUM 400mm AWAY FROM EXISTING COLUMN ABOVE. (CENTRE OF COLUMN TO EDGE OF OPENING)
- SAW-CUT AND DISPOSE OF EXISTING CONCRETE WALL TOP TO NEW LINTEL) TO CREATE NEW OPENING MAX. HEIGHT 2200 A.F.F., MAKE THE EDGE SMOOTH TO FORM NEW CLEAN EDGE. SCAN REBAR PRIOR TO DEMOLITION ENSURE MIN. 25mm COVER OF EXISTING REBAR PRIOR TO SAW-CUTTING. COORDINATE W/ ARCH, MECH., ELEC., DWGS FOR ADDITIONAL DEMOLITION SCOPE OF WORK. MAKE GOOD AFFECTED SURFACES.



PART ROOF FRAMING PLAN

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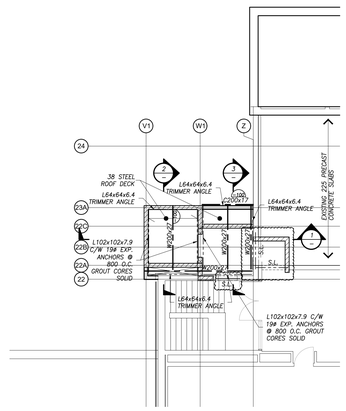

PART UPPER ROOF FRAMING PLAN

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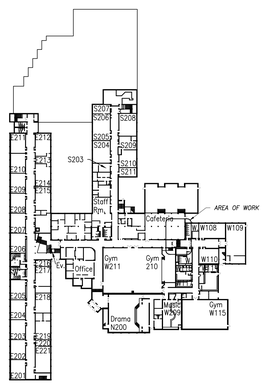
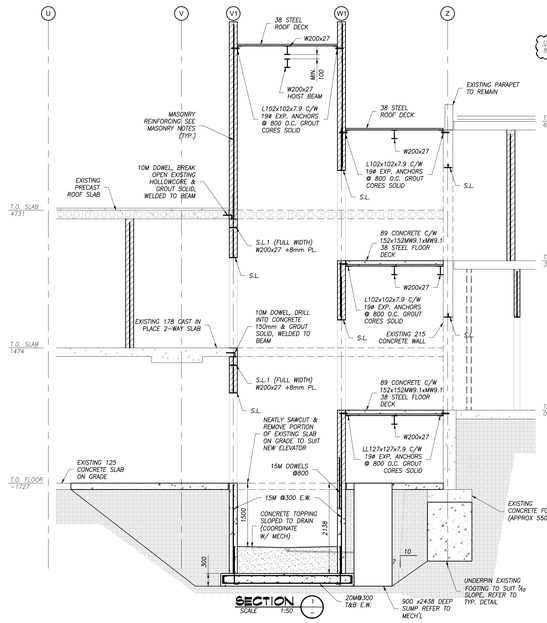


KEY PLAN - GROUND FLOOR FRAMING



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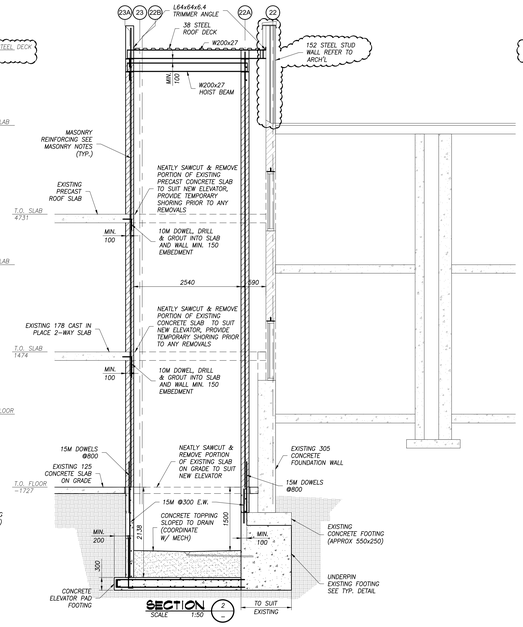

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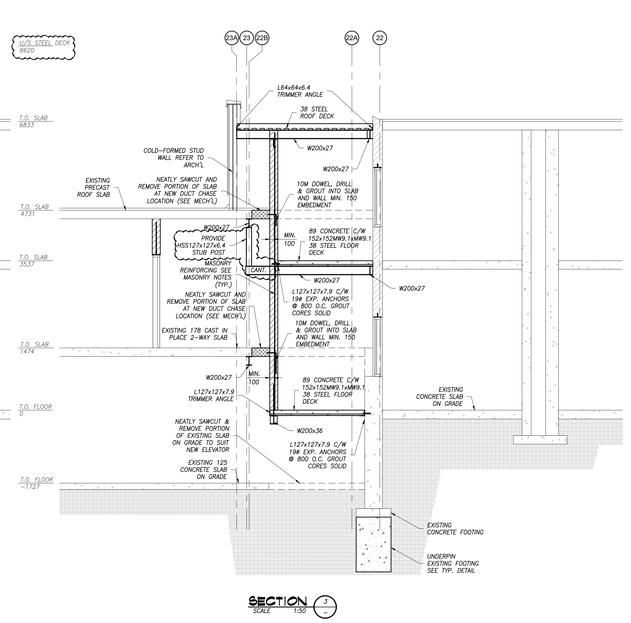

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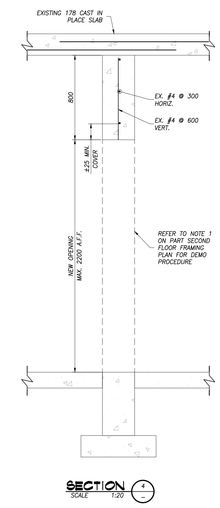

SECTION 4/A300 — SCALE 1:20

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Project North — True North

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No.	Issue	Date

Drawing Title:
EAST ELEVATOR DETAILS

Scale: AS NOTED	Date: MARCH 2025
Drawn by:	Checked by:
Job No. 2215-C	Drawing No. S300

T.A. Blakelock H.S. Renovation – Phase 3
1160 Rebecca Street, Oakville, Ontario

STRUCTURAL ADDENDUM No. 2

May 2, 2025

The following amendments/clarifications to the Tender Documents are considered to form part of this Tender.

No consideration will be given for extras and/or changes due to the Bidder not being familiar with the contents of this Addendum.

Bidders are to acknowledge this Addendum by signing and enclosing this addendum of this document with their submission.

The following Addendum has been issued to make clarifications, revisions, additions and/or deletions to the various areas of the Request for Tender.

This addendum shall be incorporated in the specifications and drawings and shall form part of the contract documents:

---

1. AMENDMENTS TO DRAWINGS:

A. Drawing S200:
   a. Framing plan backgrounds updated for clarity. See plan.
   b. Section 6 updated to show partition wall.

B. Drawing S300:
   a. Mechanical louvre lintel added on Upper Roof Framing Plan.

2. ATTACHMENTS TO THIS DOCUMENT:

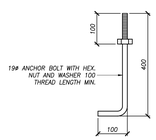
- N/A

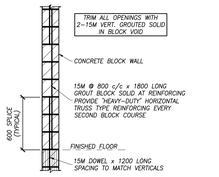
Sincerely,

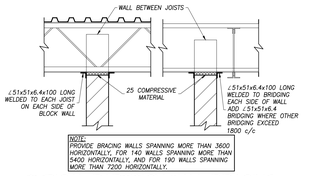
Per: Elio Haddad, P. Eng.
Kalos Engineering Inc.

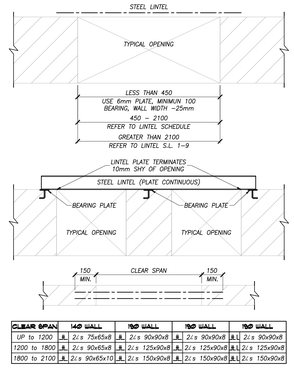
Name of Firm: _____

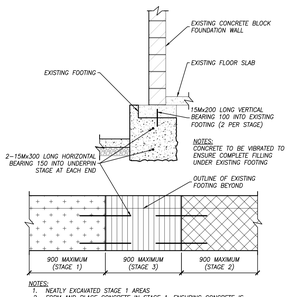
Signature: _____ Date: _____

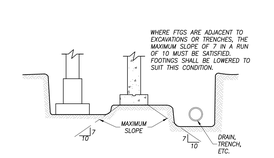


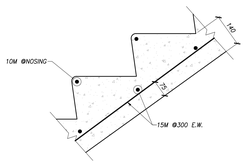


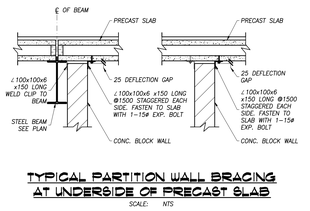


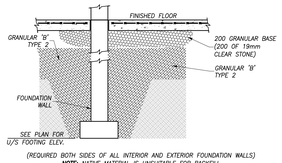


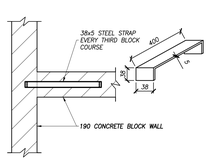


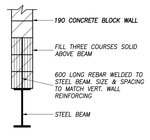


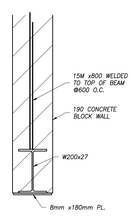


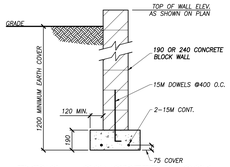


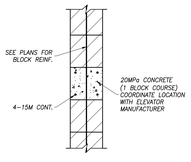


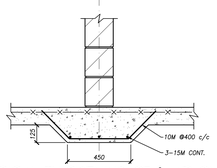


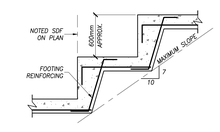


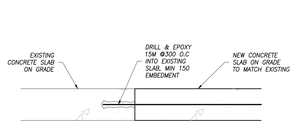


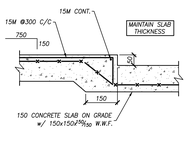












GENERAL NOTES

1. CHECK ALL DIMENSIONS ON THESE DRAWINGS WITH ALL OTHER DRAWINGS, INCLUDING BUT NOT LIMITED TO DRAWINGS PREPARED ARCHITECTURAL, MECHANICAL OR ELECTRICAL CONSULTANTS. REPORT ANY INCONSISTENCIES TO THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK. DO NOT SCALE THE DRAWINGS.
2. THE DESIGN LIVE LOADS ARE INDICATED ON THE DRAWINGS. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LOADS.
3. THE COMPLETED STRUCTURE IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING, SHORING AND ANY OTHER TEMPORARY OR PERMANENT MEASURES AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORT OF EXISTING OR ADJACENT STRUCTURES AS REQUIRED. ALL BRACING AND SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONSTRUCTION FEATURES NOT FULLY SHOWN ARE COMPARABLE TO SIMILAR CONDITION DETAILS.
5. REFER TO OTHER CONSULTANTS DRAWINGS FOR DETAILS OF OPENINGS, PITS, CHAMFERS, DEPRESSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
6. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST ONTARIO BUILDING CODE, LATEST APPLICABLE REGULATIONS, AND GOOD CONSTRUCTION PRACTICES.
7. THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DRAWINGS AND SPECIFICATIONS.
8. CLARIFY ANY QUERIES WITH THE ENGINEER REGARDING THE INTERPRETATION OF THE DRAWINGS, PRIOR TO THE COMMENCEMENT OF ANY WORK.

MASONRY NOTES

1. ALL STRUCTURAL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD S304.1. ALL MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD A371. ALL MASONRY CONNECTORS, REINFORCING AND TYING SHALL BE IN ACCORDANCE WITH CSA A370. ALL MORTAR AND GROUT SHALL BE IN ACCORDANCE WITH A179.
2. ALL CONCRETE BLOCKS SHALL BE NORMAL WEIGHT TYPE H/15/A/M UNLESS OTHERWISE NOTED. MORTAR SHALL BE TYPE S FOR LOADBEARING AND TYPE N FOR NON-LOADBEARING.
3. VERTICAL CONTROL JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 6000mm. REFER TO ARCHITECTURAL DRAWING FOR DETAILS AND LOCATIONS.
4. TRIM ALL OPENINGS WITH 2-15M BARS.
5. GROUT SHALL CONSIST OF ON ONE PART PORTLAND CEMENT, THREE PARTS SAND (MAXIMUM AGGREGATE SIZE SHALL BE 10mm) WITH WATER TO PROVIDE A MINIMUM 10MPa COMPRESSIVE STRENGTH AT 28 DAYS. SLUMP SHALL BE 200mm TO 250mm.
6. ALL CELLS CONTAINING REINFORCING SHALL BE GROUTED SOLID. TWO BLOCK COURSES BELOW BEARING PLATES SHALL BE GROUTED SOLID.
7. THE MASONRY SHALL BE CONSTRUCTED EVENLY WITH MAXIMUM LIFTS OF 1200 PER DAY. DO NOT TOOTH AND BOND OR STACK BOND MASONRY. RAKE BACK ENDS OF UNFINISHED WALLS.
8. ALL MORTAR JOINTS SHALL BE TOOLED (CONCAVE). A MINIMUM BED JOINT OF 6mm IS REQUIRED FOR THE STARTING COURSE TO A MAXIMUM OF 20mm. THE BED JOINTS SHALL BE 10mm.
9. PROVIDE VERTICAL AND HORIZONTAL REINFORCING AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
   - 140 CONCRETE BLOCK – HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE.
   - 190 CONCRETE BLOCK – 15M VERTICAL AT 800 O.C. & HEAVY DUTY TRUSS TYPE HORIZONTAL REINFORCING EVERY SECOND COURSE.
10. THE HORIZONTAL REINFORCING AT EXTERIOR WALLS SHALL BE GALVANIZED. DO NOT EXTEND HORIZONTAL REINFORCING THROUGH CONTROL JOINTS UNLESS OTHERWISE NOTED.
11. PROVIDE A STEEL LINTEL OVER ALL OPENINGS OR RECESSES INCLUDING OPENINGS FOR MECHANICAL AND ELECTRICAL COMPONENTS. ALL EXTERIOR LINTELS TO BE HOT DIP GALVANIZED.
12. BUILD THE MASONRY SOLID AROUND ALL BEAM, LINTEL AND JOIST POCKETS. INSTALL BEARING PLATES AT THE SPECIFIED ELEVATION AND GROUT THE PLATE INTO THE WALL A MINIMUM OF 400mm.
13. PROVIDE TEMPORARY BRACING AS REQUIRED TO SUPPORT THE MASONRY WALLS IN CONSTRUCTION. PROTECT THE MASONRY WALLS FROM THE ELEMENTS AT ALL TIMES EXCEPT DURING CONSTRUCTION PROGRESS.

STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL ELEMENTS, INCLUDING DESIGN OF ELEMENTS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH CAN/CSA S16.
2. ALL STRUCTURAL STEEL SHALL CONFORM TO CSA G40.21 (300W) EXCEPT W SECTIONS AND PLATES G40.21 (350W), HSS MEMBERS G40.21 (350W) CLASS C OR ASTM A500 GRADE C, ANCHOR BOLTS ASTM A307, COLD FORMED SECTIONS ASTM A570M GRADE 350W. UNLESS OTHERWISE NOTED, ALL SECTIONS SHALL BE PRIME PAINTED WITH THE SURFACE PREPARATION AND PAINTING PROCEDURES IN ACCORDANCE WITH CAN/CGSB 85.10. ALL FIRE RATED STEEL TO BE LEFT UNPRIMED.
3. ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH CAN/CSA W59. THE STEEL FABRICATOR SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS BY THE CANADIAN WELDING BUREAU IN CONFORMANCE WITH CAN/CSA W47.1.
4. DESIGN ALL MOMENT AND SHEAR CONNECTIONS FOR THE FULL CAPACITY OF THE SMALLER MEMBER IN THE CONNECTION UNLESS OTHERWISE NOTED.
5. PROVIDE MINIMUM BEARING LENGTH OF STEEL MEMBERS AS FOLLOWS:
   - ON MASONRY – 150mm
   - ON STEEL – 90mm
6. THE BASE PLATE AND BEARING PLATE GROUT SHALL BE OF THE CEMENTITIOUS NON-SHRINK TYPE.
7. FULLY WELD THE BASE PLATE TO THE COLUMN TO DEVELOP THE ANCHOR BOLTS. PROVIDE CAP PLATES ON ALL COLUMNS. PROVIDE 6mm CAP PLATES ON ALL COLUMNS.
8. PROVIDE MINIMUM 175x10x175 BEARING PLATES FOR ALL STRUCTURAL STEEL c/w 2-15Ø ANCHORS UNLESS OTHERWISE NOTED.
9. ALL BOLTS SHALL BE TIGHTENED WITH A SUITABLE TORQUE WRENCH IN ACCORDANCE WITH CSA S16.
10. ALL STEEL EXPOSED TO THE EXTERIOR TO BE HOT DIP GALVANIZED.
11. ERECT STRUCTURAL STEEL IN ACCORDANCE WITH CSA S16 AND IN CONFORMANCE WITH THE APPROVED SHOP DRAWINGS.

METAL DECK NOTES

1. ALL WELDING OF DECK AND ASSOCIATED COMPONENTS SHALL BE CARRIED OUT IN ACCORDANCE WITH CAN/CSA W59. THE STEEL FABRICATOR AND INSTALLER SHALL BE FULLY QUALIFIED UNDER THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU (CWB) IN CONFORMANCE WITH CAN/CSA W47.1.
2. ALL DECK SHALL BE DESIGNED TO RESIST THE LOADS NOTED ON THE DRAWINGS IN ACCORDANCE WITH PART 4 OF THE LATEST ONTARIO BUILDING CODE. DECK AND FASTENING SHALL HAVE ADEQUATE CAPACITY TO SUPPORT THE DESIGN GRAVITY AND DIAPHRAGM LOADS AS NOTED ON THE DRAWINGS.
3. DECK SHALL BE EITHER 38mm (1 ½") OR 76mm (3") DEEP IN ACCORDANCE WITH CSA S136 AND SHALL BE FABRICATED FROM ASTM A653 SS OR GRADE 230 GALVANIZED STEEL WITH A ZF75 GALVANNEAL OR Z275 GALVANIZED ZINC COATING. THE MINIMUM NOMINAL STEEL CORE THICKNESS SHALL BE 0.76mm (22 ga).
4. DECK SHALL BE FASTENED TO THE SUPPORTING STRUCTURE WITH 20mm ARC SPOT WELDS AT NOT LESS THAN 300mm (12") O.C. (36/4) AT SUPPORTS AND NOT LESS THAN 150mm (6") O.C. (36/7) WITHIN 3m (10'-0") OF THE NEAREST BUILDING EDGE. SIDELAPS SHALL BE CLINCHED AT 600mm (24") O.C. ALL WELDS SHALL BE TOUCHED UP WITH PRIMER. MECHANICAL FASTENERS MAY ONLY BE USED WITH THE PERMISSION OF THE ENGINEER.
5. THE STEEL DECK CONTRACTOR SHALL REINFORCE THE DECK FOR ROOF OPENINGS FROM 150mm (6") TO 400mm (16") WIDE AND FOR FLOOR OPENINGS FROM 150mm (6") TO 300mm (12") WIDE WITH LIGHT GAUGE METAL ANGLES (MIN. 16 GA).

LIGHT GAUGE STEEL FRAMING NOTES

GENERAL

1. THESE NOTES APPLY TO THE STEEL STUD FRAMING COMPONENT OF THE EXTERIOR WALL SYSTEM ONLY.
2. THE DESIGN WIND LOADING IS 1.2kN/m² (25 PSF) DETERMINED BY O.B.C. REQUIREMENTS AND CAN-S136. DEFLECTION IS LIMITED TO L/360.
3. THE DESIGN OF FRAMING SYSTEM IS BASED ON PUBLISHED STUD SECTION PROPERTIES BY BAILEY METAL PRODUCTS LIMITED.

MATERIAL

1. THE MINIMUM BASE METAL THICKNESS FOR ALL METAL WALL COMPONENTS, EXCLUDING COATINGS ARE NOTED ON THE DRAWINGS.
2. STEEL MEETS THE REQUIREMENTS OF A.S.T.M. A653/A653M SS GRADE 33 (230) FOR 1.22mm MATERIAL AND THINNER, AND SS GRADE 50 (340) CLASS 1 FOR 1.52mm MATERIAL AND THICKER.
3. GALVANIZING TO BE HOT-DIP PROCESS, G90 (Z275).

EXECUTION

1. METHOD OF CONSTRUCTION SHALL BE BY STICK BUILDING ON SITE.
2. CONNECTIONS SHALL BE ACCOMPLISHED BY SELF DRILLING SCREWS AND OTHER FASTENERS AS SHOWN ON THESE DRAWINGS. PENETRATION BEYOND JOINED MATERIALS SHALL BE NOT LESS THAN THREE EXPOSED THREADS. ALL CONNECTORS USED IN ASSEMBLIES SHALL BE OF CORROSION RESISTANT MATERIAL COMPATIBLE WITH GALVANIZED COATINGS WITH A MINIMUM COATING THICKNESS OF 0.039mm ZINC OF CADMIUM PLATES. NO BLACK CONNECTORS WILL BE ACCEPTED. SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER.
3. SCREWS COVERED BY SHEATHING MATERIALS SHALL HAVE LOW PROFILE HEADS.
4. WIRE TYING IS NOT PERMITTED IN STRUCTURAL APPLICATIONS.
5. CUTTING OF STEEL FRAMING MEMBERS SHALL BE BY SAW OR SHEAR. NO TORCH OR MANUAL CUTTING IS PERMITTED.
6. SPLICING OF STUDS OR TRACK IS NOT PERMITTED EXCEPT AS NOTED ON DRAWINGS.
7. BRIDGING SHALL BE OF SIZE, SPACING AND TYPE SHOWN ON THE DRAWINGS AND SHALL BE INSTALLED SO AS TO PROVIDE RESISTANCE TO MINOR AXIS BENDING AND ROTATION OF STUDS. PROVIDE BRIDGING AT 1200mm c/c MAXIMUM.
8. TEMPORARY BRACING SHALL BE PROVIDED AND LEFT IN PLACE UNTIL WORK IS PERMANENTLY STABILIZED.
9. STUDS SHALL SEAT INTO TOP AND BOTTOM TRACKS WITH THE GAP BETWEEN THE END OF THE STUD AND WEB OF THE TRACK NOT TO EXCEED 3mm.
10. VERTICAL ALIGNMENT (PLUMBNESS) OF STUDS SHALL BE WITHIN 1/1000 OF THE SPAN.
11. HORIZONTAL ALIGNMENT (LEVELNESS) OF WALLS SHALL BE WITHIN 1/1000 OF THEIR RESPECTIVE LENGTHS.
12. SPACING OF STUDS SHALL BE WITHIN 3mm FROM DESIGN SPACING PROVIDED THAT CUMULATIVE ERROR DOES NOT EXCEED THE REQUIREMENTS OF THE FINISHING MATERIALS.

SHORING NOTES

1. ALL FRAMES AND SHORING JACKS TO BE PLUMB AND LEVEL.
2. SHORING JACKS TO BE DESIGNED BY THE SUPPLIER FOR THE LOADS AND HEIGHTS SHOWN, INCLUDING BRACING.
3. MAX. EXTENSION OF SCREWJACKS WILL BE 400mm UNLESS NOTED.
4. SCAFFOLDING SHALL BE ERECTED IN ACCORDANCE TO C.S.A. CODE S269.1.
5. SHORING TO REMAIN IN PLACE UNTIL BEAM AND ALL BRACING IS COMPLETELY INSTALLED.
6. CONTRACTOR TO PREPARE AND SUBMIT FULL SHORING DRAWINGS FOR APPROVAL FOR ALL TEMPORARY SUPPORTS. PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER, PRIOR TO ANY REMOVALS.

ADDITIONAL NOTES:

- PROVIDE TEMPORARY SHORING TO STRUCTURE ABOVE PRIOR TO ANY REMOVALS.
- EXISTING FRAMING SHOWN IS ASSUMED BASED ON SITE REVIEW AND EXISTING DRAWINGS REFERENCED IN NOTES BELOW. CONTRACTOR TO EXPOSE EXISTING STRUCTURE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

SUBMITTALS

1. SUBMIT FOR REVIEW BY THE CONSULTANT, DETAILED SHOP DRAWINGS FOR ALL STRUCTURAL WORK INCLUDING, BUT NOT LIMITED TO: CONCRETE FORMWORK, CONCRETE MIX DESIGN, REINFORCING STEEL, STRUCTURAL STEEL, COLD-FORMED STEEL STUD AND TEMPORARY SHORING.
2. THE SCALE OF THE DRAWINGS SHALL BE SUCH THAT THE DETAILS OF THE STRUCTURAL WORK ARE CLEARLY SHOWN, AND IN NO CASE SMALLER THAN ¼"=1'-0" (1:50).
3. THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, FOR USE AS SHOP DRAWINGS.
4. EACH DRAWING SUBMITTED FOR CONCRETE FORMWORK, STRUCTURAL STEEL, COLD-FORMED STEEL STUD AND TEMPORARY SHORING SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
5. CONTRACTOR SHALL ALLOW FOR A 5 WORKING DAY TURN AROUND TIME FOR STRUCTURAL CONSULTANT TO REVIEW THE SHOP DRAWINGS.

CALCULATIONS

1. SUBMIT CALCULATIONS, BEARING THE SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO, FOR STRUCTURAL WORK, IF REQUESTED BY THE CONSULTANT.

CONCRETE NOTES

1. ALL STRUCTURAL CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD CAN/CSA A23.3. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH CSA STANDARD CAN/CSA A23.1.
2. MINIMUM CONCRETE STRENGTH AT 28 DAYS SHALL BE:
   - FOOTINGS * – 25 MPa TYPE N
   - FOUNDATION WALLS * – 25 MPa TYPE F2
   - SLAB ON GRADE – 25 MPa TYPE N
   - TOPPING – 25 MPa

   SLUMP SHALL BE 3" ± 1".
   AGGREGATE SHALL BE ¾" MAXIMUM.
   * PROVIDE CRYSTALLINE WATERPROOFING ADMIXTURE AT ELEVATOR PITS.
   AIR ENTRAINMENT TO BE 6% ± 1% WHEN EXPOSED TO EXTERIOR.
   CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN FOR REVIEW
3. THE DEFORMED REINFORCING STEEL SHALL CONFORM TO CSA STANDARD G30.18M-09 GRADE 300R FOR STIRRUPS AND TIES AND GRADE 400R FOR ALL OTHER REINFORCING. UNLESS OTHERWISE NOTED THE REINFORCING LAP LENGTH SHALL BE 'CLASS B' IN SPLICES. ALL REINFORCING HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH A23.1.
4. WELDED WIRE FABRIC SHALL BE IN ACCORDANCE WITH CSA G30.5. ALL MESH SHALL BE CHAIRED PRIOR TO THE CONCRETE POUR. LIFTING OF THE MESH DURING THE CONCRETE POUR WILL NOT PERMITTED. ALL SPLICES SHALL BE A MINIMUM OF TWO CROSSWIRE SPACINGS PLUS 2".
5. THE REINFORCING COVER FOR CONCRETE SHALL BE:
   - 3" FOR CONCRETE AGAINST EARTH
   - 1½" FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 15M OR SMALLER
   - 2" FOR FORMED CONCRETE EXPOSED TO EARTH OR WEATHER WHERE THE REINFORCING BAR IS 20M OR LARGER
   - 1" FOR INTERIOR CONCRETE. ALL CHAIRS, BOLSTERS, SPACERS AND BAR SUPPORTS SHALL BE IN ACCORDANCE WITH A23.1.
6. FOOTINGS SHALL BEAR ON NATIVE UNDISTURBED SOIL OR ENGINEERED FILL WITH A MINIMUM BEARING RESISTANCE OF:
   - 3000 psf (SLS)
   - 4000 psf (ULS).

   THE CONTRACTOR SHALL VERIFY THE CAPACITY PRIOR TO PLACEMENT OF CONCRETE.
7. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATION OR STEP DOWN FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. STEP HEIGHT SHALL NOT EXCEED 2'-0".
8. KEEP EXCAVATIONS DRY BEFORE CONCRETE IS PLACED. REMOVE ALL LOOSE MATERIAL, SOFT SOIL OR WATER PRIOR TO PLACING CONCRETE. PROVIDE A 3" MUD MAT FOR ALL FOOTINGS BELOW THE WATER TABLE.
9. ALL FOOTINGS SHALL BE CENTRED ON THE WALL UNLESS OTHERWISE NOTED.
10. THE FOOTING DESIGN IS BASED ON INFORMATION AVAILABLE AT THE TIME OF DESIGN. THE FOOTING DESIGN MAY BE ALTERED DURING CONSTRUCTION, IF THE SITE CONDITIONS WARRANT, BUT ONLY WITH THE EXPRESS PERMISSION OF THE ENGINEER.
11. PROTECT ALL FOOTINGS, WALLS AND SLABS AGAINST FROST ACTION DURING CONSTRUCTION. ALL EXTERIOR FOOTINGS SHALL FOUNDED BELOW THE FROST LINE, MINIMUM 5'-0" BELOW GRADE.
12. DO NOT BACKFILL AGAINST WALLS RETAINING EARTH UNTIL THE ELEMENTS PROVIDING LATERAL SUPPORT ARE COMPLETE. PLACE BACKFILL IN A MANNER WHERE THE ELEVATION DIFFERENCE ON EITHER SIDE OF THE WALL IS NO GREATER THAN 1'-6". PROVIDE TEMPORARY SHORING AS REQUIRED.
13. SLAB-ON-GRADE GRADE CONSTRUCTION SHALL BE CAPABLE OF SUPPORTING 500 lbs/ft² WITHOUT RELATIVE SETTLEMENT.
14. CONSTRUCT CONCRETE WALLS WITHOUT CONTROL JOINTS, UNLESS OTHERWISE NOTED. PROVIDE CHASES AND BEAMS POCKETS IN THE INTERIOR FACE OF THE WALL AS REQUIRED.
15. PROVIDE DOWELS TO WALLS AND COLUMNS TO SUIT THE REINFORCING IN THE WALL OR COLUMN ABOVE.
16. ALL ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE HILTI HIT-HY200 (OR APPROVED EQUAL) PROCEDURES.
17. PROVIDE DEWATERING AS REQUIRED FOR NEW FOUNDATIONS.

LOADING SUMMARY

DESIGN STANDARDS

- ONTARIO BUILDING CODE, 2024, PART 4: STRUCTURAL DESIGN
- CAN/CSA-A23.3-19, DESIGN OF CONCRETE STRUCTURES
- CAN/CSA-A23.4-16, DESIGN OF PRECAST CONCRETE STRUCTURES
- CAN/CSA-S304-14, MASONRY DESIGN FOR BUILDINGS
- CAN/CSA-S16-19, LIMIT STATES DESIGN OF STEEL STRUCTURES
- CAN/CSA-S136-16, DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS
- CAN/CSA-086-19, ENGINEERING DESIGN IN WOOD

SNOW, ICE AND RAIN LOADS

APPLIED PER OBC, PART 4, SECTION 4.1.6

– IMPORTANCE FACTOR, Is	0.9 (SLS) 1.15 (ULS)
– GROUND SNOW LOAD, Ss	0.9 kPa (18.80 PSF)
– ASSOCIATED RAIN LOAD, Sr,	0.4 kPa (8.35 PSF)
– WIND EXPOSURE FACTOR, Cw,	1.0
– ROOF SNOW LOAD, S,	1.47 kPa (30.70 PSF)

- DRIFT LOADS PER CLAUSE 4.1.6.2.8
- SLOPE FACTORS PER CLAUSE 4.1.6.2.(5) TO (7)

WIND LOADS

APPLIED PER OBC, PART 4, SECTION 4.1.7

- IMPORTANCE FACTOR, Iw — 0.75 (SLS) 1.15 (ULS)
- REFERENCE VELOCITY PRESSURE FOR STRUCTURAL MEMBERS
  0.46 kPa — 1/50 YEAR PROBABILITY — (9.61 PSF)
- REFERENCE VELOCITY PRESSURE FOR CLADDING & NON-STRUCTURAL MEMBERS
  0.36 kPa — 1/10 YEAR PROBABILITY — (7.52 PSF)
- GUST FACTORS Cg:
  2.0 FOR WHOLE & MAIN STRUCTURAL MEMBERS
  2.5 FOR SMALL ELEMENTS INCLUDING CLADDING
  2.0 FOR INTERNAL PRESSURES
- BUILDING INTERNAL PRESSURE CATEGORY _2_ PER 4.1.7.7

FLOOR LOADS

APPLIED PER OBC, PART 4, TABLE 4.1.5.3

– CLASSROOM	2.4 kPa	(50 PSF)
– CORRIDORS	4.8 kPa	(100 PSF)
– STAIRS AND EXITS	4.8 kPa	(100 PSF)
– WASHROOMS	2.4 kPa	(50 PSF)

SEISMIC SWAY BRACING

PER ARTICLE 4.1.8.18(2) OF THE ONTARIO BUILDING CODE SEISMIC SWAY BRACING DOES NOT APPLY TO NON-STRUCTURAL COMPONENTS AND EQUIPMENT, SHOULD THE BUILDING BE IN SEISMIC CATEGORY SC1 OR SC2. THIS EXEMPTION IS NOT APPLICABLE TO POST-DISASTER BUILDINGS. BUILDING SEISMIC CATEGORY IS SC3, THEREFORE SEISMIC SWAY BRACING OF NON-STRUCTURAL COMPONENTS AND EQUIPMENT IS REQUIRED.

DESIGN LOADS

NEW ROOF LOADS:

DEAD:

– ROOFING	0.35 kPa
– INSULATION & PROTECTION BOARD	0.16 kPa
– DECK	0.10 kPa
– FRAMING	0.14 kPa
– MECH. & ELECTRICAL	0.35 kPa
– CEILING	0.20 kPa
TOTAL	1.30 kPa

NEW FLOOR LOADS:

DEAD:

– 127 COMPOSITE DECK	2.50 kPa
– MISC. MECH. & ELECTRICAL	0.35 kPa
– FLOORING	0.25 kPa
– CEILING	0.20 kPa
– FRAMING	0.15 kPa
TOTAL	3.45 kPa

TYPICAL ANCHOR BOLT
SCALE: NTS

TYPICAL BLOCK WALL REINFORCING
SCALE: NTS

NOTE:
PROVIDE BRACING WALLS SPANNING MORE THAN 3600 HORIZONTALLY, FOR 140 WALLS SPANNING MORE THAN 5400 HORIZONTALLY, AND FOR 190 WALLS SPANNING MORE THAN 7200 HORIZONTALLY.

TYPICAL PARTITION WALL BRACING AT UNDERSIDE OF STEEL JOIST
SCALE: NTS

CLEAR SPAN	140 WALL		190 WALL		190 WALL		190 WALL	
UP to 1200	⅃L	2∠s 75x65x8	⅃L	2∠s 90x90x8	⅃L	2∠s 90x90x8	⅃LL	2∠s 90x90x8
1200 to 1800	⅃L	2∠s 90x65x8	⅃L	2∠s 125x90x8	⅃L	2∠s 125x90x8	⅃LL	2∠s 125x90x8
1800 to 2100	⅃L	2∠s 90x65x10	⅃L	2∠s 150x90x8	⅃L	2∠s 150x90x8	⅃LL	2∠s 150x90x8

FOR LINTELS IN 90 VENEER, USE 1 ANGLE OF THAT NOTED FOR 190 WALL ON SIMILAR SPAN.

DOUBLE ANGLES TO BE STITCH WELDED BACK TO BACK.

TYPICAL STEEL LINTEL DETAIL
SCALE: NTS

NOTES:
1. NEATLY EXCAVATED STAGE 1 AREAS
2. FORM AND PLACE CONCRETE IN STAGE 1, ENSURING CONCRETE IS FILLED TIGHT TO UNDERSIDE OF EXISTING FOOTING
3. REPEAT FOR STAGE 2 AREAS
4. REPEAT FOR STAGE 3 AREAS

TYPICAL UNDERPINNING DETAIL
SCALE: NTS

ELEVATIONS OF ADJACENT FOOTINGS AND EXCAVATIONS
SCALE: NTS

TYPICAL CAST-IN-PLACE STAIR REINFORCING
SCALE: NTS

TYPICAL PARTITION WALL BRACING AT UNDERSIDE OF PRECAST SLAB
SCALE: NTS

(REQUIRED BOTH SIDES OF ALL INTERIOR AND EXTERIOR FOUNDATION WALLS)
NOTE: NATIVE MATERIAL IS UNSUITABLE FOR BACKFILL

TYPICAL EXCAVATION AND BACKFILL AT FOUNDATION WALLS
SCALE: NTS

TYPICAL INTERSECTION OF CONCRETE BLOCK WALLS
SCALE: NTS

TYPICAL ANCHORAGE OF STEEL BEAM TO MASONRY WALL
SCALE: NTS

STEEL LINTEL SL1
SCALE: 1:10

TYPICAL CONCRETE BLOCK STRIP FOOTING
SCALE: NTS

TYPICAL CONCRETE BOND BEAM
SCALE: NTS

TYPICAL THICKENING OF SLAB ON GRADE UNDER PARTITION WALLS
SCALE: NTS

TYPICAL STEPPING OF WALL FOOTING DETAIL
SCALE: NTS

TYPICAL SLAB REPAIR DETAIL
SCALE: 1:10

TYPICAL DETAIL AT FLOOR DEPRESSION
SCALE: NTS

DRAWINGS CREATED USING INFORMATION FROM EX. DRAWINGS PREPARED BY:
(1955 ORIGINAL) SHORE & MOFFAT ARCHITECTS. PROJECT NO. 230 DATED 1956/02/06
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Project North — True North

No.	Revisions	Date

No.	Issue	Date
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3	ADDENDUM S1	2025-04-28
2	ISSUED FOR TENDER	2025-04-17
1	ISSUED FOR PERMIT	2025/04/10

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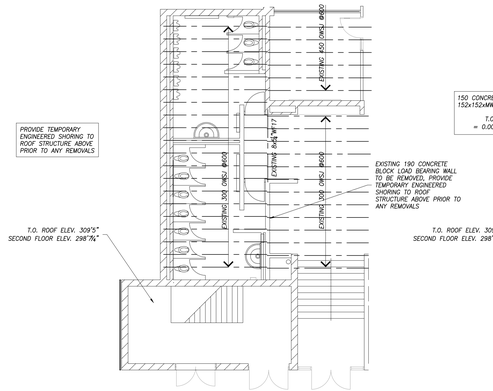
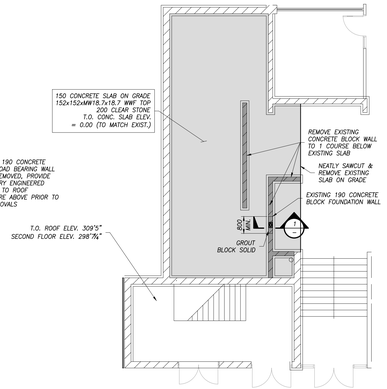
Drawing Title:
TYPICAL
NOTES

Scale: AS NOTED
Date: MARCH 2025
Drawn by:
Checked by:
Job No. 2215-C
Drawing No. S000



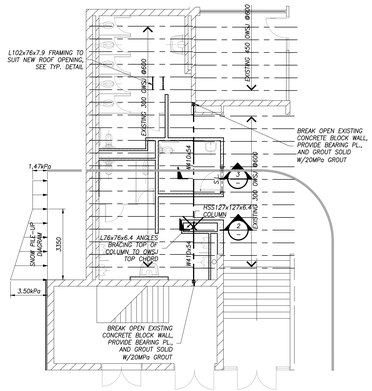
PART EXISTING/DEMO FRAMING PLAN

SCALE: 1:100



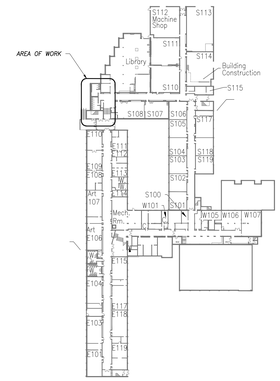
PART FOUNDATION PLAN

SCALE: 1:100

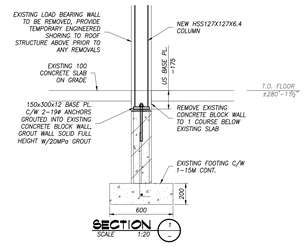


PART ROOF FRAMING PLAN

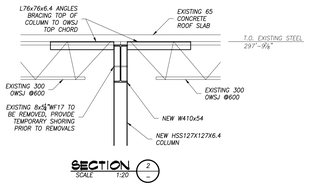
SCALE: 1:100



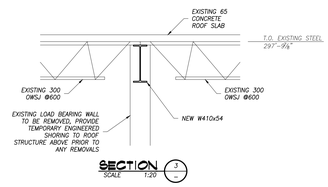
KEY PLAN - GROUND FLOOR FRAMING



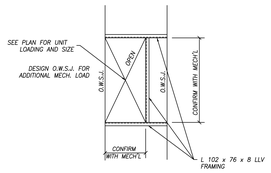
SECTION 1/- SCALE 1:20



SECTION 2/- SCALE 1:20



SECTION 3/- SCALE 1:20



TYPICAL MECHANICAL ROOF/FLOOR OPENING FRAMING

SCALE: NTS

SHORING NOTES

1. ALL FRAMES AND SHORING JACKS TO BE PLUMB AND LEVEL.
2. SHORING JACKS TO BE DESIGNED BY THE SUPPLIER FOR THE LOADS AND HEIGHTS SHOWN, INCLUDING BRACING.
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ADDITIONAL NOTES:

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- EXISTING FRAMING SHOWN IS ASSUMED BASED ON SITE REVIEW AND EXISTING DRAWINGS REFERENCED IN NOTES BELOW. CONTRACTOR TO EXPOSE EXISTING STRUCTURE AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

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(1989 ADDITION #3) SVEDAS KOYANAGI ARCHITECTS & PHILIPS ENGINEERING. PROJ. NO. 89802, DATED OCT. 1989

Unit: mm

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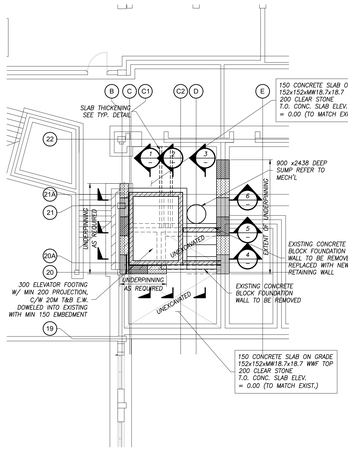
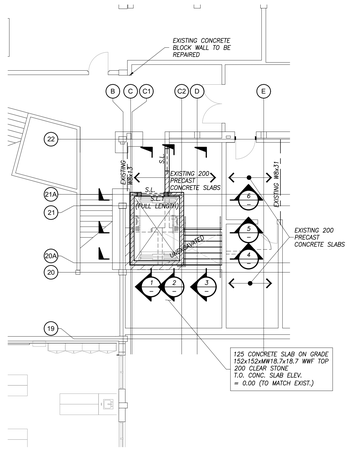
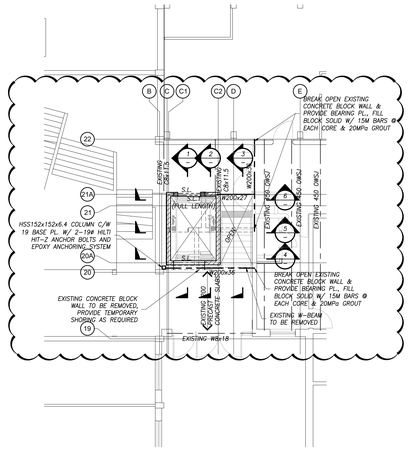
1	ISSUED FOR PERMIT	2025/04/10
No.	Issue	Date

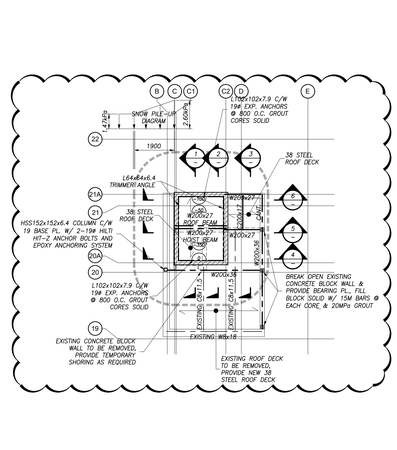
Drawing Title:
WASHROOM RENOVATION DETAILS

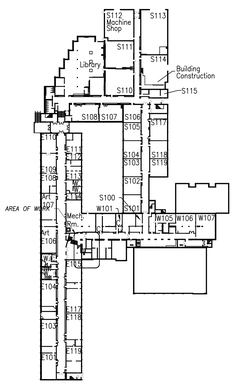
Scale:	AS NOTED	Date:	MARCH 2025
Drawn by:		Checked by:	
Job No.	2215-C	Drawing No.	S100











PART FOUNDATION PLAN

SCALE 1:100

PART GROUND FLOOR FRAMING PLAN

SCALE 1:100

PART SECOND FLOOR/LOW ROOF FRAMING PLAN

SCALE 1:100

HIGH ROOF FRAMING PLAN

SCALE 1:100

KEY PLAN - GROUND FLOOR FRAMING

SECTION 1

SCALE 1:50

SECTION 2

SCALE 1:50

SHORING NOTES

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SECTION 3

SCALE 1:50

SECTION 4

SCALE 1:50

SECTION 5

SCALE 1:50

SECTION 6

SCALE 1:50

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CAD File:

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Project North | True North

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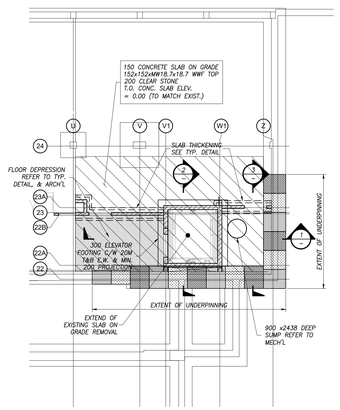
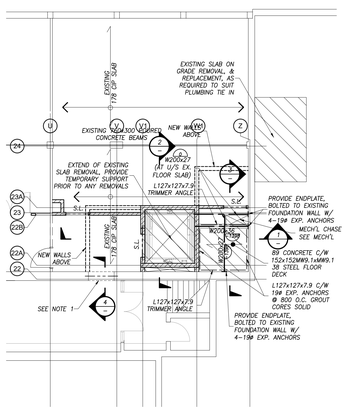
Drawing Title:
WEST ELEVATOR
DETAILS

Scale: AS NOTED | Date: MARCH 2025
Drawn by: | Checked by:
Job No. 2215-C | Drawing No. S200



PART FOUNDATION PLAN

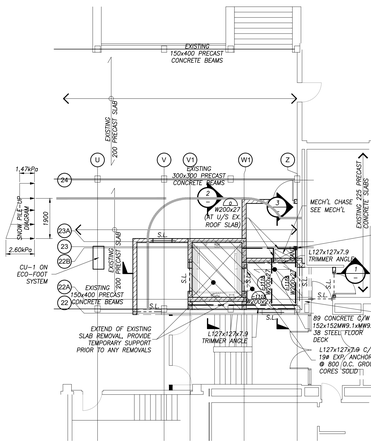
SCALE: 1:100



PART SECOND FLOOR FRAMING PLAN

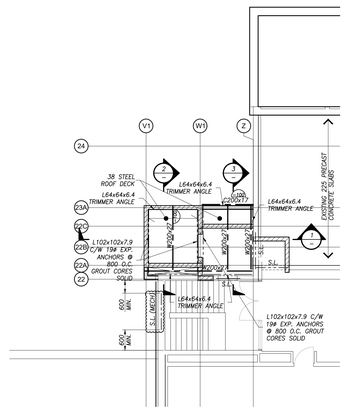
SCALE: 1:100

NOTE 1:
- PROVIDE REBAR SCAN REPORT AND MARK REBAR ARRANGEMENT ON WALL.
- PROVIDE SURVEY TO ENSURE NEW OPENING IS MINIMUM 400mm AWAY FROM EXISTING COLUMN ABOVE. (CENTRE OF COLUMN TO EDGE OF OPENING)
- SAW-CUT AND DISPOSE OF EXISTING CONCRETE WALL (TOP OF NEW LINTEL) TO CREATE NEW OPENING MAX. HEIGHT 2200 A.F.F., MAKE THE EDGE SMOOTH TO FORM NEW CLEAN EDGE. SCAN REBAR PRIOR TO DEMOLITION ENSURE MIN. 25mm COVER OF EXISTING REBAR PRIOR TO SAW-CUTTING. COORDINATE W/ ARCH, MECH., ELEC., DWGS FOR ADDITIONAL DEMOLITION SCOPE OF WORK. MAKE GOOD AFFECTED SURFACES.



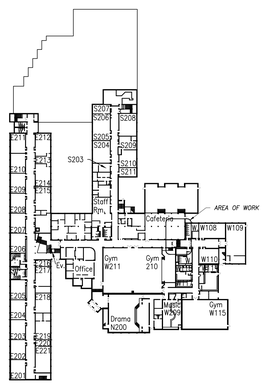
PART ROOF FRAMING PLAN

SCALE: 1:100

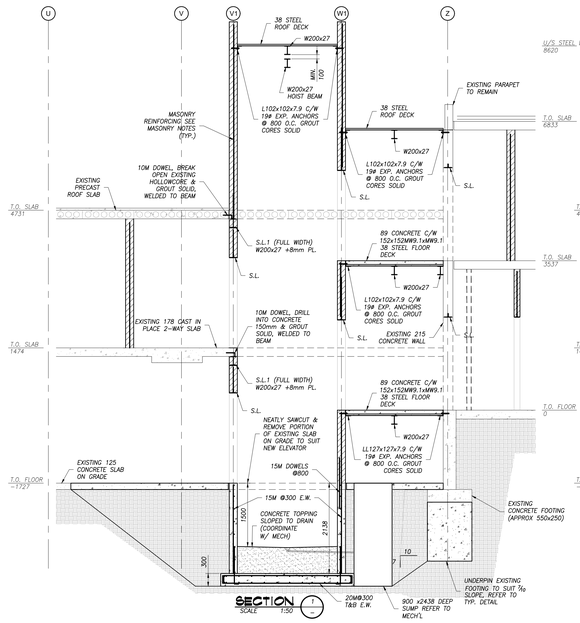


PART UPPER ROOF FRAMING PLAN

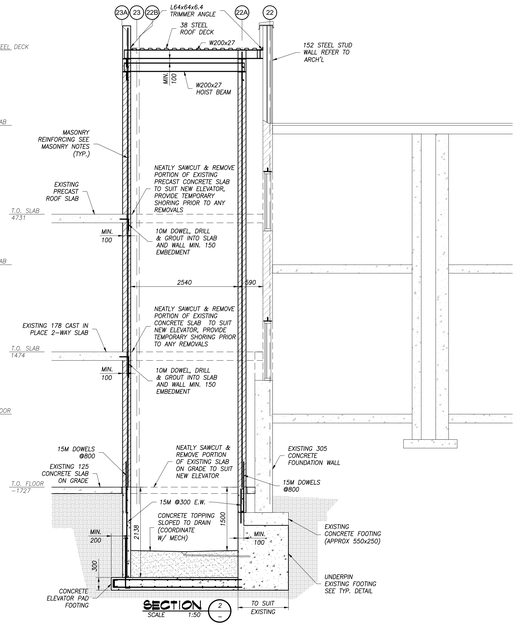
SCALE: 1:100



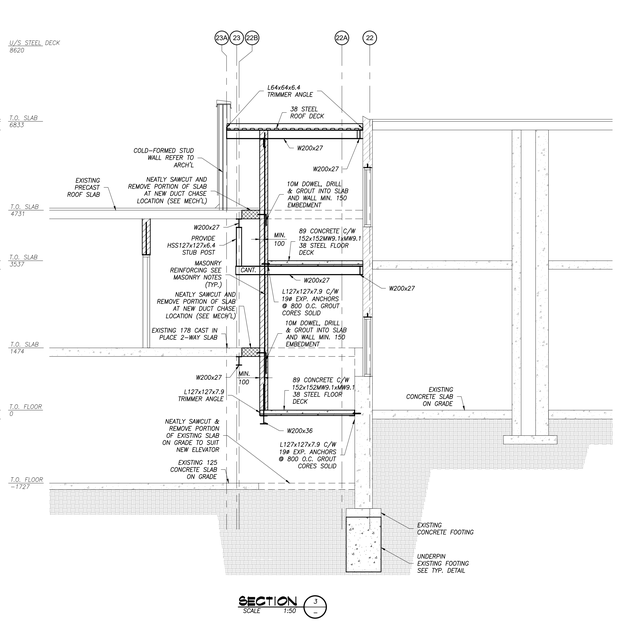
KEY PLAN - GROUND FLOOR FRAMING



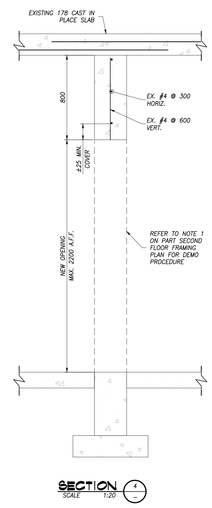
SECTION 1/A300 — SCALE 1:50



SECTION 2/A300 — SCALE 1:50



SECTION 3/A300 — SCALE 1:50



SECTION 4/A300 — SCALE 1:20

SHORING NOTES

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1	ISSUED FOR PERMIT	2025/04/10

No.	Issue	Date

Drawing Title:
EAST ELEVATOR DETAILS

Scale: AS NOTED	Date: MARCH 2025
Drawn by:	Checked by:
Job No. 2215-C	Drawing No. S300

Mechanical Addendum No. 02

EXP Project: ALL-22020201-A0 TA Blakelock HS Interior Renovation & Accessibility Upgrades, Phase III, 1160 Rebecca St, Oakville, ON L6L 1Y9

Date: May 5, 2025

Prepared By: EXP Services Inc.

Requirements:

The addendum forms part of the Contract Documents and amends the original Specifications and Drawings, as noted below.
Ensure that all parties submitting bids are aware of all items included in this Addendum.
This Addendum consists of one (1) page plus appended documents.

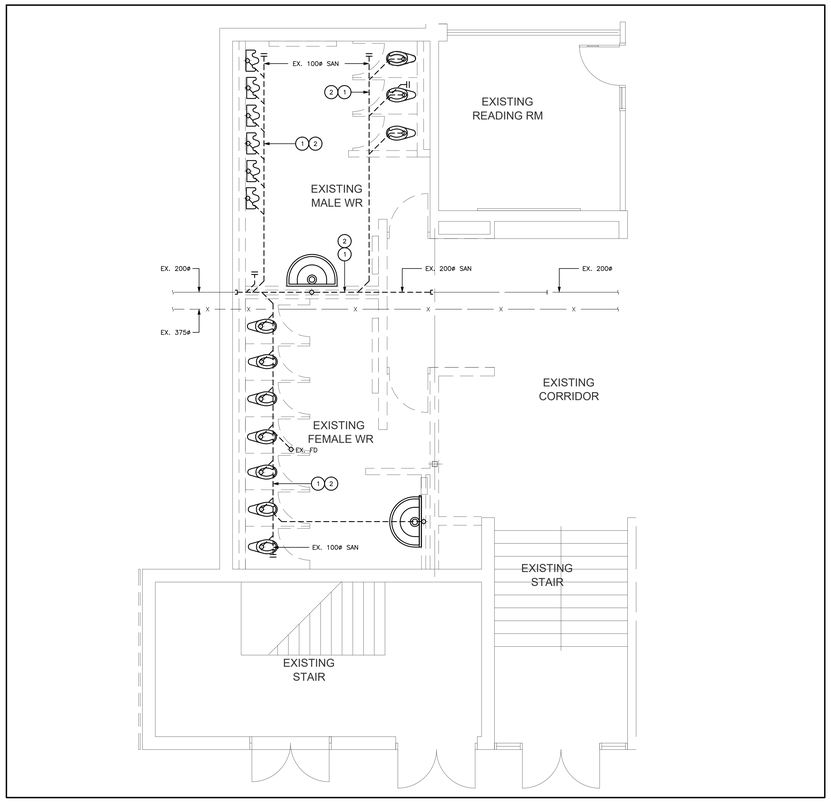
Amendments to Drawings

1. **Drawing M100 – LIBRARY WASHROOMS AND ELEVATORS DEMOLITION DRAINAGE AND PLUMBING PLANS**
   - .1 Drawing is issued with this addendum. Modifications include, but are not limited to the following:
   - .2 **Refer to Partial Level 0 Elevator 02 – Demolition Plumbing Plan:**
     - .1 **ADD** demolition of existing sink within millwork to be demolished.

2. **Drawing M300 – LIBRARY WASHROOM AND ELEVATORS NEW HVAC PLANS**
   - .1 Drawing is issued with this addendum. Modifications include, but are not limited to the following:
   - .2 **Refer to Partial Level 0 Elevator 01 – New HVAC Plan:**
     - .1 **ADD** Transfer grille to new door.
   - .3 **Refer to Partial Level 0 Elevator 02 – New HVAC Plan:**
     - .1 **ADD** Transfer grille to new door.
   - .4 **Refer to Partial Level 1 Elevator 02 – New HVAC Plan:**
     - .1 **ADD** Fire rated transfer grille to new door.

3. **Drawing M400 – MECHANICAL DETAILS AND SCHEDULES**
   - .1 Drawing is issued with this addendum. Modifications include, but are not limited to the following:
   - .2 **Refer to Grilles and Diffusers Schedule**
     - .1 **ADD** DG-01 to schedule.
     - .2 **ADD** DG-02 to schedule.

1266 South Service Road, Suite C1-1, Stoney Creek ON L8E 5R9 | CANADA
t: +1.905.525.6069| exp.com



1 M100 PARTIAL LEVEL 0 LIBRARY WASHROOM - DEMOLITION UNDERGROUND DRAINAGE PLAN
1:50

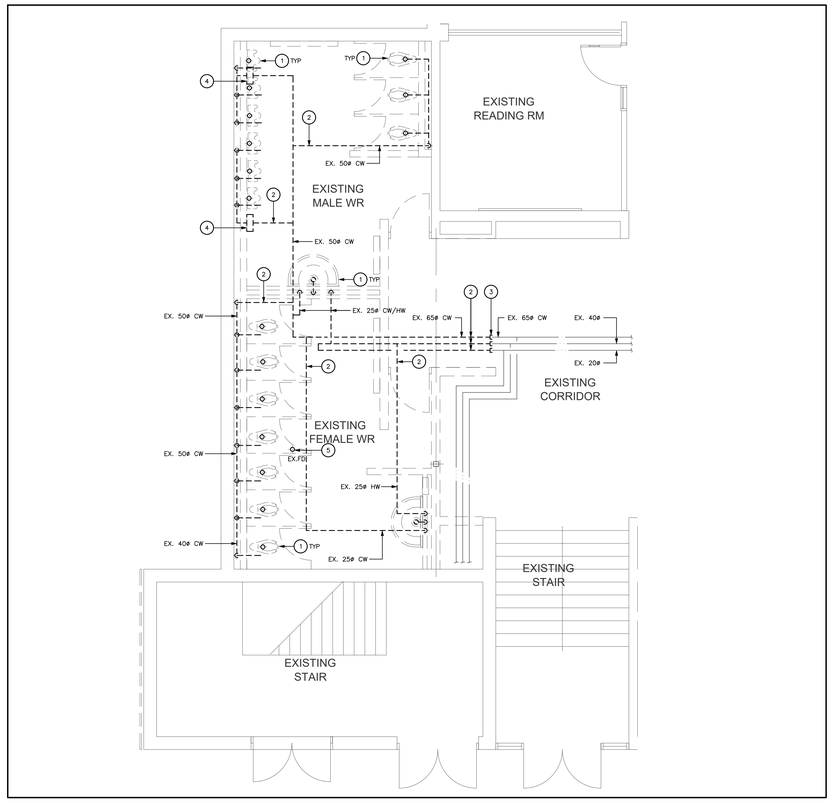
DRAWING NOTES

1. EXISTING UNDERGROUND DRAINAGE PIPING TO BE REMOVED AND DISPOSED OF. CAP EXISTING PIPING AND PREPARE FOR RECONNECTION. CONTRACTOR TO VERIFY ALL PIPE INVERTS PRIOR TO COMMENCEMENT OF WORK.
2. DEMOLISH EXISTING PLUMBING VENTING SERVING EACH DEMOLISHED PLUMBING FIXTURE. VENTING BRANCH PIPING FOR EACH PLUMBING FIXTURE AND VENTING MAIN PIPE SHALL BE DEMOLISHED UP TO ADJACENT CORRIDOR OUTSIDE OF WASHROOM.

GENERAL NOTES

A) THE EXISTING SERVICES SHOWN ON THIS FRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING M000.



2 M100 PARTIAL LEVEL 0 LIBRARY WASHROOM - DEMOLITION PLUMBING PLAN
1:50

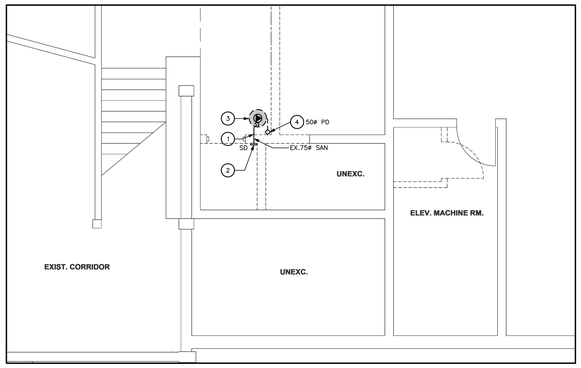
DRAWING NOTES

1. EXISTING PLUMBING FIXTURE SHALL BE REMOVED AND DISPOSED OF.
2. EXISTING PLUMBING PIPING TO BE REMOVED AND DISPOSED OF. CAP EXISTING PIPING AND PREPARE FOR RECONNECTION.
3. CUT AND CAP EXISTING DOMESTIC WATER LINES TEMPORARILY DURING CONSTRUCTION. UTILIZE PIPE FREEZING TO COMPLETE WORK. PROVIDE NEW ISOLATION VALVE TO FACILITATE NEW WORK.
4. EXISTING URINAL TANK TO BE DEMOLISHED AND DISPOSE OF.
5. EXISTING FLOOR DRAIN TO BE DEMOLISHED AND DISPOSED OF.

GENERAL NOTES

A) THE EXISTING SERVICES SHOWN ON THIS FRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING M000.



3 M100 PARTIAL LEVEL 0 ELEVATOR 01 - DEMOLITION UNDERGROUND DRAINAGE PLAN
1:50

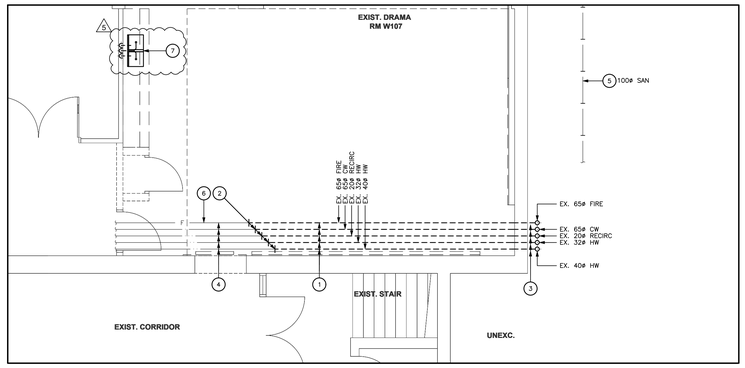
DRAWING NOTES

1. EXISTING UNDERGROUND DRAINAGE PIPING TO BE REMOVED AND DISPOSED OF. CONTRACTOR TO VERIFY ALL PIPE INVERTS PRIOR TO COMMENCEMENT OF WORK.
2. EXISTING ELEVATOR PIT SCUPPER DRAIN TO BE REMOVED AND DISPOSED OF.
3. EXISTING ELEVATOR SUMP PUMP AND IT TO BE DEMOLISHED AND DISPOSED OF.
4. EXISTING SANITARY PUMPED DISCHARGE TO BE DEMOLISHED AND DISPOSED OF.

GENERAL NOTES

A) THE EXISTING SERVICES SHOWN ON THIS FRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING M000.



4 M100 PARTIAL LEVEL 0 ELEVATOR 02 - DEMOLITION PLUMBING AND FIRE PROTECTION PLAN
1:50

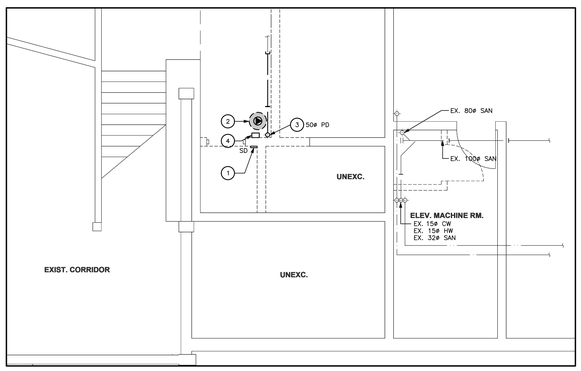
DRAWING NOTES

1. EXISTING PIPING TO BE REMOVED AND DISPOSED OF.
2. CUTBACK EXISTING PIPING TO EXTENT INDICATED AND PREPARE FOR REUSE. CONTRACTOR TO UTILIZE PIPE FREEZING TO COMPLETE WORK.
3. EXISTING PIPING WITHIN UNEXCAVATED AREA TO BE DEMOLISHED. CONTRACTOR TO DEMOLISH PIPING AS REQUIRED TO FACILITATE COMPLETION OF ELEVATOR INSTALLATION AND NEW WORK.
4. EXISTING PIPING TO REMAIN.
5. EXISTING SANITARY PIPING IN UNEXCAVATED AREA TO REMAIN.
6. DRAIN DOWN EXISTING FIRE LINE TO FACILITATE PIPE REROUTING. MECHANICAL CONTRACTOR TO COORDINATE FIRE WATCH WITH GENERAL CONTRACTOR.
7. EXISTING PLUMBING FIXTURE SHALL BE REMOVED AND DISPOSED OF COMPLETE WITH ALL ASSOCIATED PLUMBING AND DRAINAGE PIPING. CONTRACTOR TO CUTBACK PIPING TO WITHIN EXISTING WALL SPACE AND CAP PIPING.

GENERAL NOTES

A) THE EXISTING SERVICES SHOWN ON THIS FRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING M000.



5 M100 PARTIAL LEVEL 0 ELEVATOR 01 - DEMOLITION PLUMBING PLAN
1:50

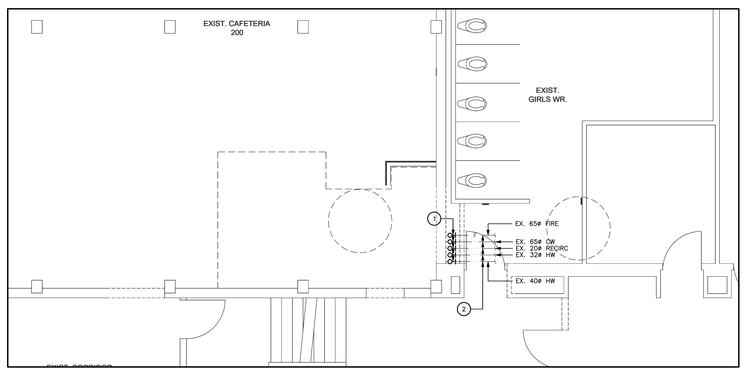
DRAWING NOTES

1. EXISTING ELEVATOR PIT SCUPPER DRAIN TO BE REMOVED AND DISPOSED OF.
2. EXISTING ELEVATOR SUMP PUMP AND IT TO BE DEMOLISHED AND DISPOSED OF.
3. EXISTING ABOVE GRADE SANITARY PUMP DISCHARGE AND SUMP PIT VENTING TO BE DEMOLISHED AND DISPOSED OF.
4. EXISTING SUMP PUMP CONTROL PANEL TO BE REMOVED AND DISPOSED OF.

GENERAL NOTES

A) THE EXISTING SERVICES SHOWN ON THIS FRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING M000.



6 M100 PARTIAL LEVEL 1 ELEVATOR 02 - DEMOLITION PLUMBING PLAN
1:50

DRAWING NOTES

1. DEMOLISH AND DISPOSE OF EXISTING PIPE RISERS WITHIN EXISTING PIPE CHASE. CONTRACTOR TO UTILIZE PIPE FREEZING TO COMPLETE WORK.
2. EXISTING PIPING WITHIN CORRIDOR TO REMAIN. CAP EXISTING PIPING AND PREPARE FOR RECONNECTION.

GENERAL NOTES

A) THE EXISTING SERVICES SHOWN ON THIS FRAWING HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION DRAWINGS, THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORKS

B) FOR DRAWINGS LEGENDS SEE DRAWING M000.

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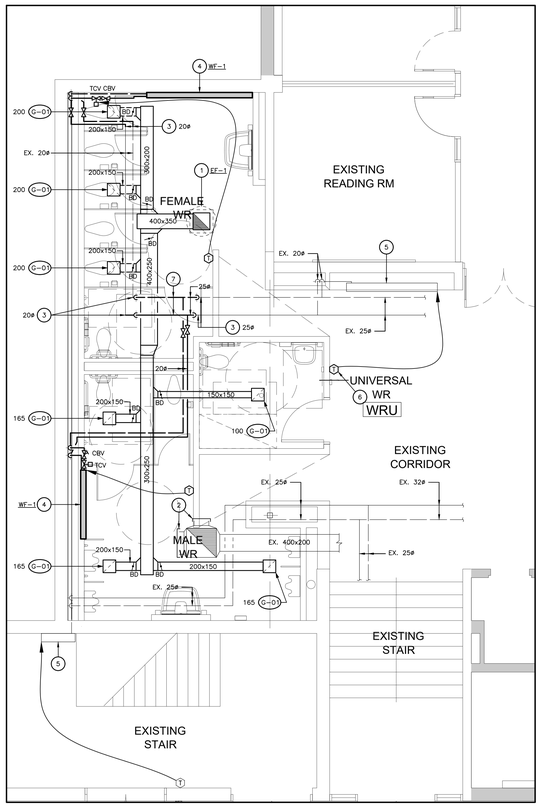
Project North / True North

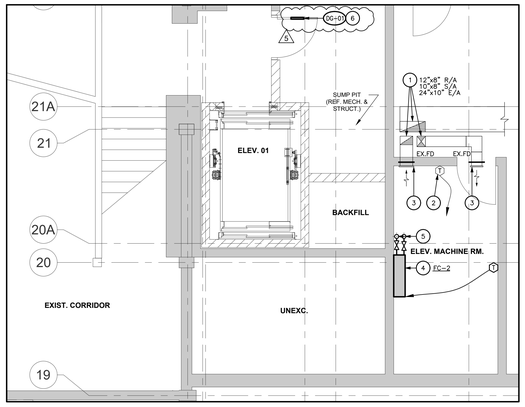
No.	Revisions	Date
5	ISSUED FOR ADDENDUM #2	2025 05 05
4	ISSUED FOR ADDENDUM #1	2025 04 25
3	ISSUED FOR TENDER	2025 04 17
2	ISSUED FOR PERMIT	2025 04 08
1	ISSUED FOR REVIEW	2025 03 21
No.	Issue	Date

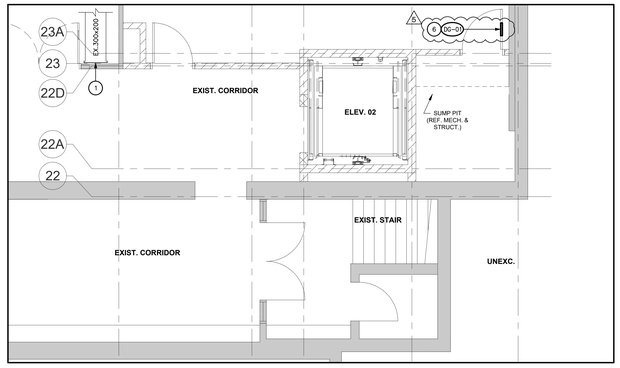
Drawing Title:
LIBRARY WASHROOMS AND ELEVATORS DEMOLITION DRAINAGE AND PLUMBING PLANS

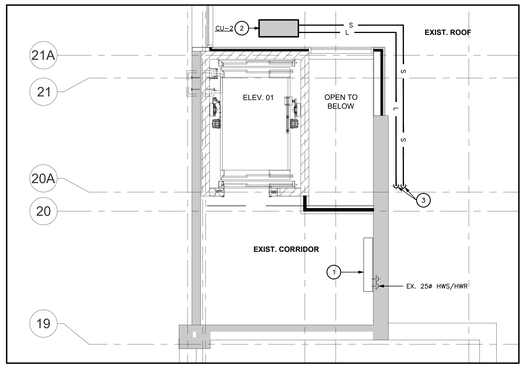
Scale:	AS NOTED	Date:	2025-03-03
Drawn by:	CC	Checked by:	WD
Job No.	ALL-22020201	Drawing No.	M100

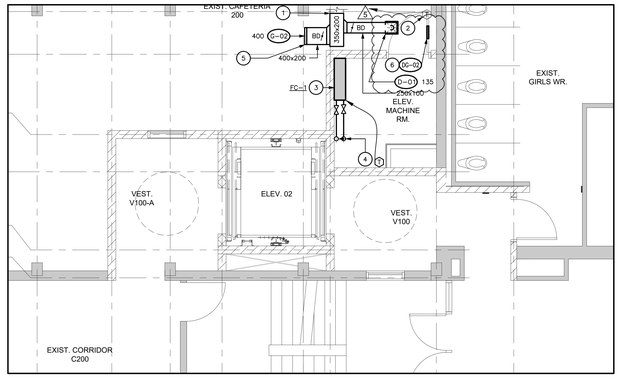
CAD File:

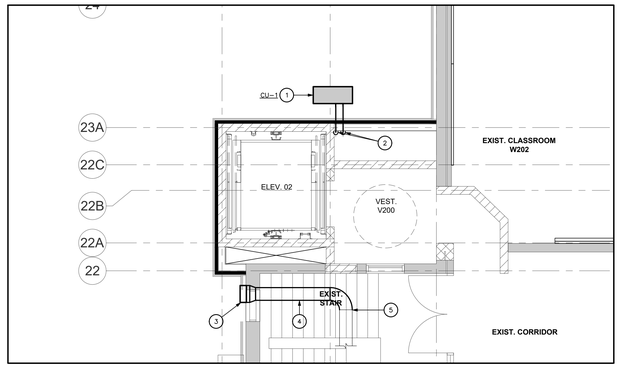












1 M300 PARTIAL LEVEL 0 LIBRARY WASHROOMS - NEW HVAC PLAN
1:50

DRAWING NOTES

1. OUTLINE OF NEW ROOF MOUNTED EXHAUST FAN ABOVE. INSTALL AS PER MANUFACTURERS INSTRUCTIONS COMPLETE WITH ROOF CURB AND BACK DRAFT DAMPER.
2. CAP EXISTING DUCTWORK AND SEAL AIR TIGHT.
3. CONNECT TO EXISTING HEATING WATER SUPPLY AND RETURN PIPING AT APPROXIMATE LOCATION.
4. INSTALL NEW WALL FIN CONVECTOR COMPLETE WITH CONTROL VALVE. REFER TO MECHANICAL DETAILS FOR PIPING ARRANGEMENTS.
5. EXISTING HEATING EQUIPMENT TO REMAIN.
6. EXISTING THERMOSTAT TO BE RE–INSTALLED AT NEW LOCATION. EXTEND EXISTING COMPRESSED AIR LINE FROM ORIGINAL THERMOSTAT LOCATION TO RELOCATED POSITION.
7. OFFSET HEATING PIPES TO CLEAR NEW DUCTWORK ABOVE.

GENERAL NOTES

A) MINIMUM PIPE SIZE TO BE 20mm (3/4") DIAMETER UNLESS OTHERWISE NOTED.
B) ALL PIPING, VALVES AND EQUIPMENT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
C) CO–ORDINATE PIPE RUNS WITH SHEETMETAL, PLUMBING, SPRINKLER AND ELECTRICAL DIVISIONS.
D) FOR EXACT LOCATION OF GRILLES AND DIFFUSERS REFER TO ARCHITECTURAL REFLECTED CEILING PLAN.
E) ALL DUCTWORK AND EQUIPMENT TO BE CONCEALED IN CEILING SPACE UNLESS NOTED OTHERWISE.
F) DUCT RUNOUTS TO MATCH GRILLE/DIFFUSER SIZE UNLESS OTHERWISE NOTED.
G) DUCTWORK LOCATIONS TO BE FULLY CO–ORDINATED WITH GENERAL, PLUMBING, SPRINKLER AND ELECTRICAL CONTRACTORS PRIOR TO FABRICATION OR INSTALLATION.
H) FOR DRAWING LEGENDS SEE DRAWING M000.
I) READ IN CONJUNCTION WITH SCHEMATICS AND DETAILS.

2 M300 PARTIAL LEVEL 0 ELEVATOR 01 - NEW HVAC PLAN
1:50

DRAWING NOTES

1. EXISTING DUCTWORK RISES UP TO FLOOR ABOVE.
2. EXISTING T–STAT TO REMAIN.
3. EXISTING AIR REGISTERS TO REMAIN.
4. OUTLINE OF FAN COIL. UNIT TO BE SUITABLY SUPPORTED FROM WALL. INSTALL UNIT TO MANUFACTURERS RECOMMENDATION. PROVIDE REFRIGERANT PIPES. COORDINATE WITH EQUIPMENT MANUFACTURER FOR PIPE SIZES. EXACT LOCATION TO BE COORDINATED WITH FINAL ELEVATOR MACHINE ROOM LAYOUT. ROUTE CONDENSATE TO NEAREST FLOOR DRAIN.
5. RISE REFRIGERANT UP TO ROOF ABOVE.
6. INSTALL NEW TRANSFER AIR GRILLE WITHIN DOOR FRAME. MECHANICAL DIVISION TO COORDINATE WITH DOOR SUPPLIER AND GENERAL CONTRACTOR FOR PROPER INSTALLATION.

3 M300 PARTIAL LEVEL 0 ELEVATOR 02 - NEW HVAC PLAN
1:50

DRAWING NOTES

1. CAP EXISTING DUCTWORK AS INDICATED. SEAL AND MAKE AIR TIGHT.
2. INSTALL NEW TRANSFER AIR GRILLE WITHIN DOOR FRAME. MECHANICAL DIVISION TO COORDINATE WITH DOOR SUPPLIER AND GENERAL CONTRACTOR FOR PROPER INSTALLATION.

4 M300 PARTIAL LEVEL 1 ELEVATOR 01 - NEW HVAC PLAN
1:50

DRAWING NOTES

1. EXISTING DUCTWORK CONTINUES DOWN TO FLOOR BELOW.
2. EXISTING RADIANT HEATER TO REMAIN.
3. REFRIGERANT PIPE DROPS DOWN FROM ROOF ABOVE TO LEVEL BELOW CONCEALED WITHIN FURRED OUT WALL.

5 M300 PARTIAL LEVEL 1 ELEVATOR 02 - NEW HVAC PLAN
1:50

DRAWING NOTES

1. RELOCATE EXISTING AIR GRILLES TO POSITION INDICATED. PATCH MODIFIED DUCTWORK AND SEAL AIR TIGHT. RE–BALANCE AIRFLOW TO PRE CONSTRUCTION LEVELS.
2. EXISTING THERMOSTAT TO REMAIN.
3. OUTLINE OF FAN COIL. UNIT TO BE SUITABLY SUPPORTED FROM WALL. INSTALL UNIT TO MANUFACTURERS RECOMMENDATION. PROVIDE REFRIGERANT PIPES. COORDINATE WITH EQUIPMENT MANUFACTURER FOR PIPE SIZES. EXACT LOCATION TO BE COORDINATED WITH FINAL ELEVATOR MACHINE ROOM LAYOUT.
4. RISE REFRIGERANT UP TO ROOF ABOVE.
5. INSTALL NEW AIR REGISTER WITHIN EXISTING BULKHEAD. MATCH ELEVATION WITH NEARBY EXISTING REGISTERS.
6. INSTALL NEW TRANSFER AIR GRILLE WITHIN DOOR FRAME. MECHANICAL DIVISION TO COORDINATE WITH DOOR SUPPLIER AND GENERAL CONTRACTOR FOR PROPER INSTALLATION.

6 M300 PARTIAL LEVEL 2 ELEVATOR 01 - NEW HVAC PLAN
1:50

DRAWING NOTES

1. EXISTING RADIANT HEATER TO REMAIN.
2. OUTLINE OF CONDENSING UNIT TO BE MOUNTED ON ECO–FOOT" SUPPORT KIT TO ACCEPT UNI–STRUTS FRAMING. SUPPORT KIT TO BE MOUNTED ON 450X450 NON–PENETRATIVE "UV" STAINLESS STEEL BASES AND FINISHED WITH PRE–FORMED BRACKETS. INSTALL CONDENSING UNIT TO MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE REFRIGERANT PIPING AS REQUIRED. COORDINATE WITH EQUIPMENT MANUFACTURER FOR PIPE SIZING. EXACT LOCATION TO BE COORDINATED ON SITE.
3. DROP REFRIGERANT PIPING DOWN THROUGH ROOF TO BELOW.

7 M300 PARTIAL LEVEL 2 ELEVATOR 02 - NEW HVAC PLAN
1:50

DRAWING NOTES

1. OUTLINE OF CONDENSING UNIT TO BE MOUNTED ON ECO–FOOT" SUPPORT KIT TO ACCEPT UNI–STRUTS FRAMING. SUPPORT KIT TO BE MOUNTED ON 450X450 NON–PENETRATIVE "UV" STAINLESS STEEL BASES AND FINISHED WITH PRE–FORMED BRACKETS. INSTALL CONDENSING UNIT TO MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE REFRIGERANT PIPING AS REQUIRED. COORDINATE WITH EQUIPMENT MANUFACTURER FOR PIPE SIZING.
2. DROP REFRIGERANT PIPING DOWN THROUGH ROOF TO BELOW.
3. REINSTALL EXISTING LOUVRE AT NEW LOCATION. SEAL TO BE WATER TIGHT WITH EXISTING WALL CONNECT DUCTWORK AND MAKE AIR TIGHT.
4. INSTALL NEW DUCTWORK WITH CEILING SPACE. CONTRACTOR TO VERIFY DUCT DIMENSION ON SITE AND MATCH NEW TO EXISTING.
5. CONNECT TO EXISTING DUCTWORK.

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N N
Project North True North

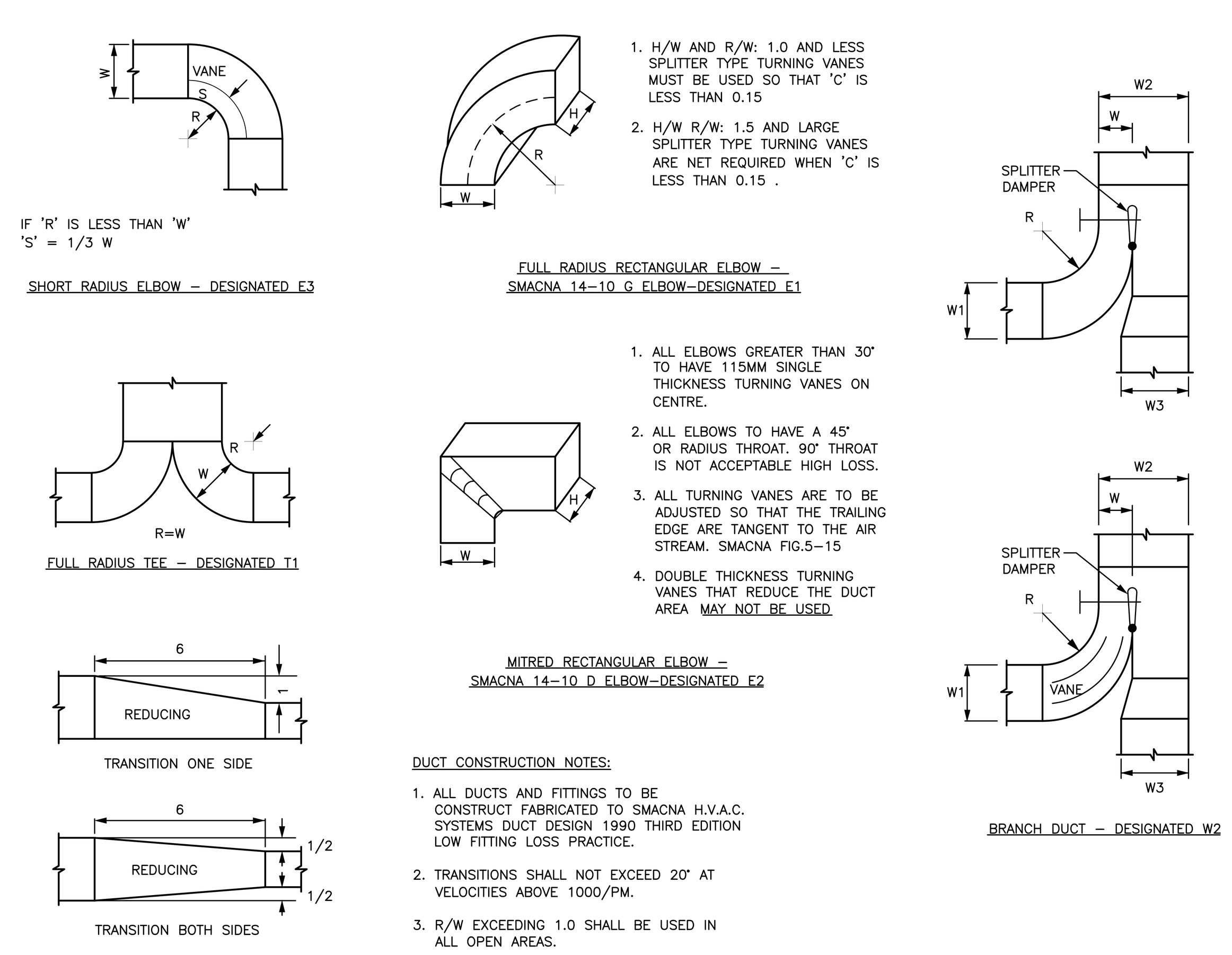
No.	Revisions	Date

No.	Issue	Date
5	ISSUED FOR ADDENDUM #2	2025 05 05
4	ISSUED FOR ADDENDUM #1	2025 04 25
3	ISSUED FOR TENDER	2025 04 17
2	ISSUED FOR PERMIT	2025 04 08
1	ISSUED FOR REVIEW	2025 03 21

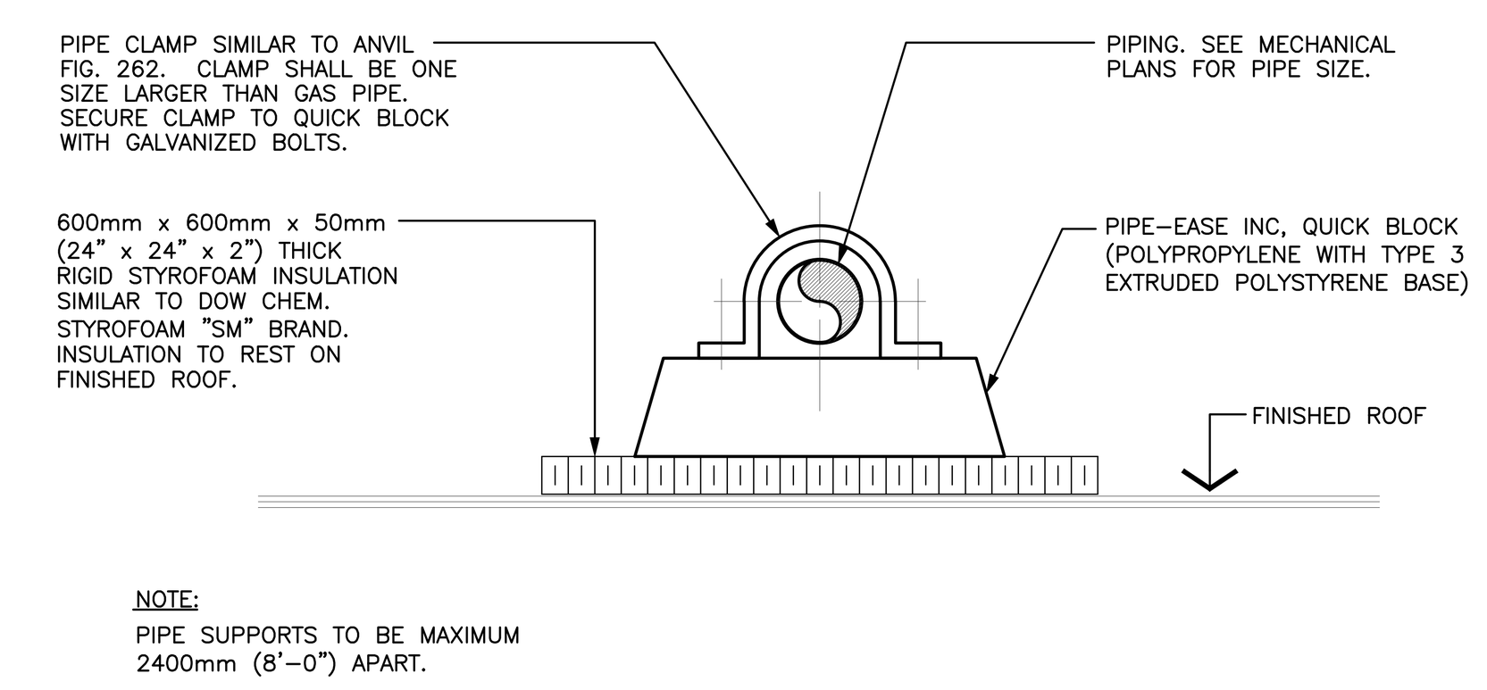
General Contractor shall check and verify all dimensions and report all errors and omissions to the Architect. Do not scale the drawings. Drawings shall not be used for construction purposes until issued by the Architect for construction.

Drawing Title:
LIBRARY WASHROOMS
AND ELEVATORS
NEW HVAC PLANS

Scale: AS NOTED
Date: 2025-03-03
Drawn by: JL
Checked by: WD
Job No. ALL-22020201
Drawing No. M300



SQUARE, RADIUS ELBOW AND TRANSITION FITTINGS
N.T.S.



TYPICAL PIPING SUPPORT ON ROOF
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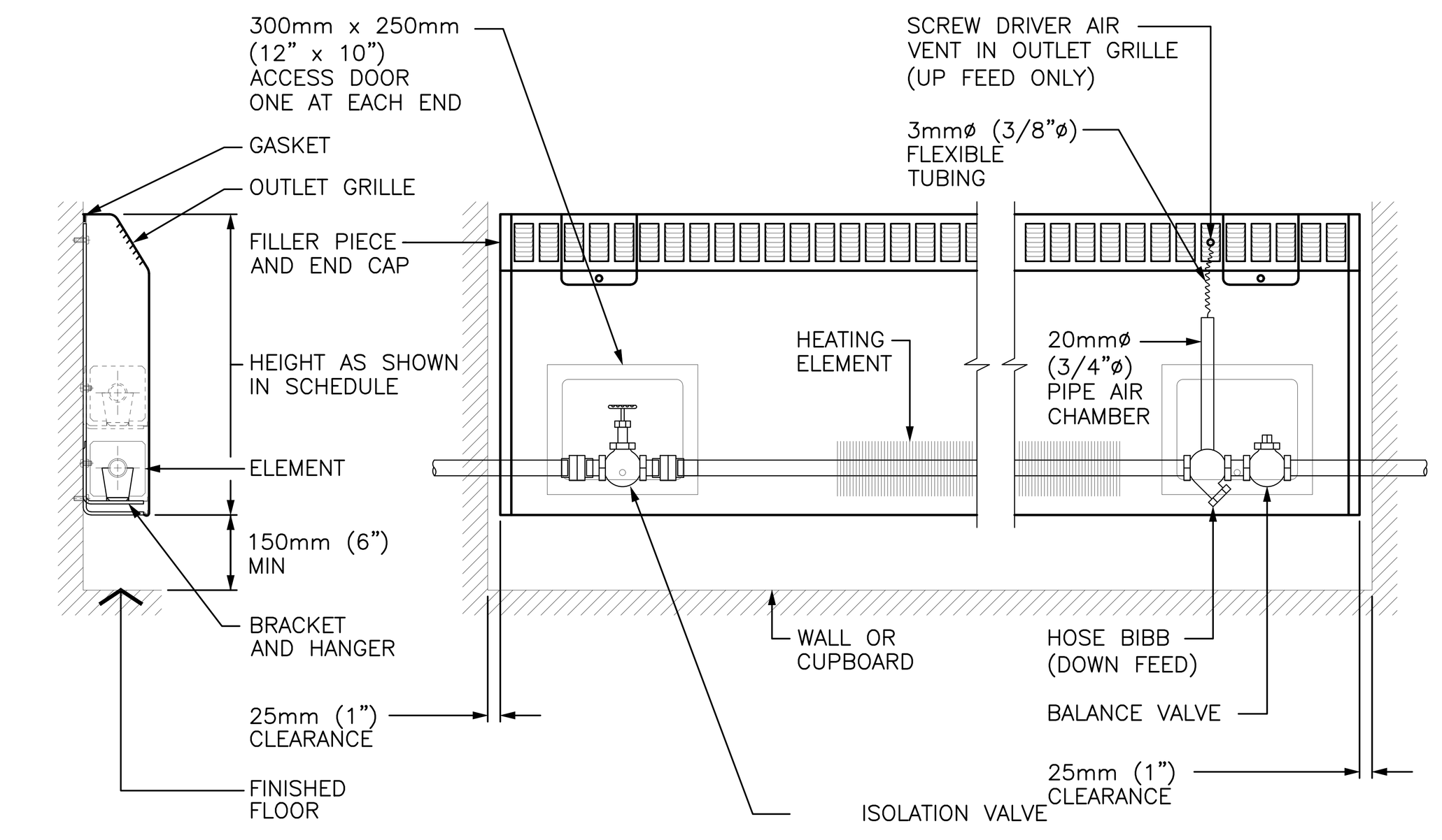

TYPICAL CONTINUOUS – CONVECTOR DETAIL
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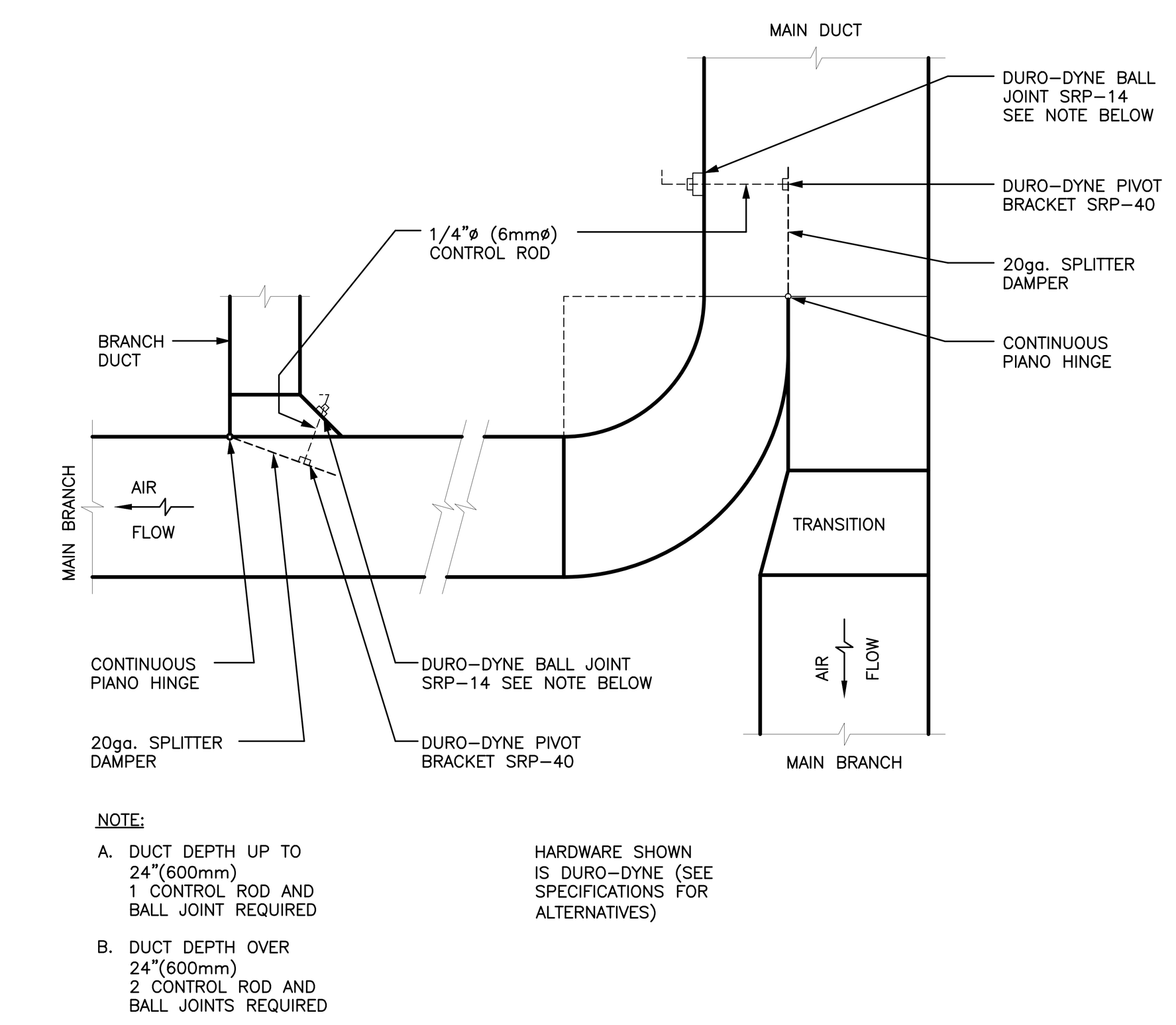

TYPICAL DUCT CONNECTION
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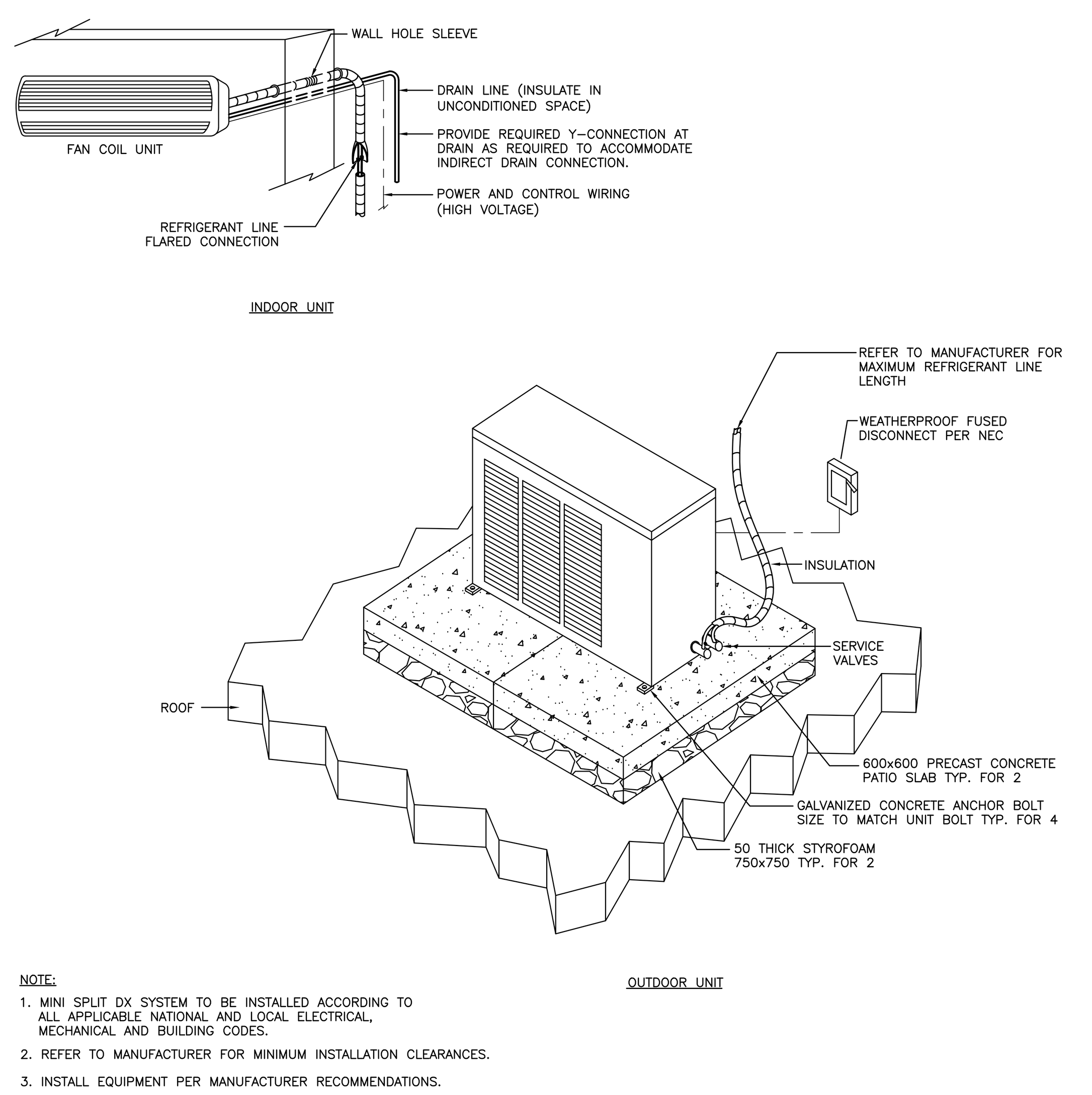

SPLIT DX SYSTEM INSTALLATION DETAIL
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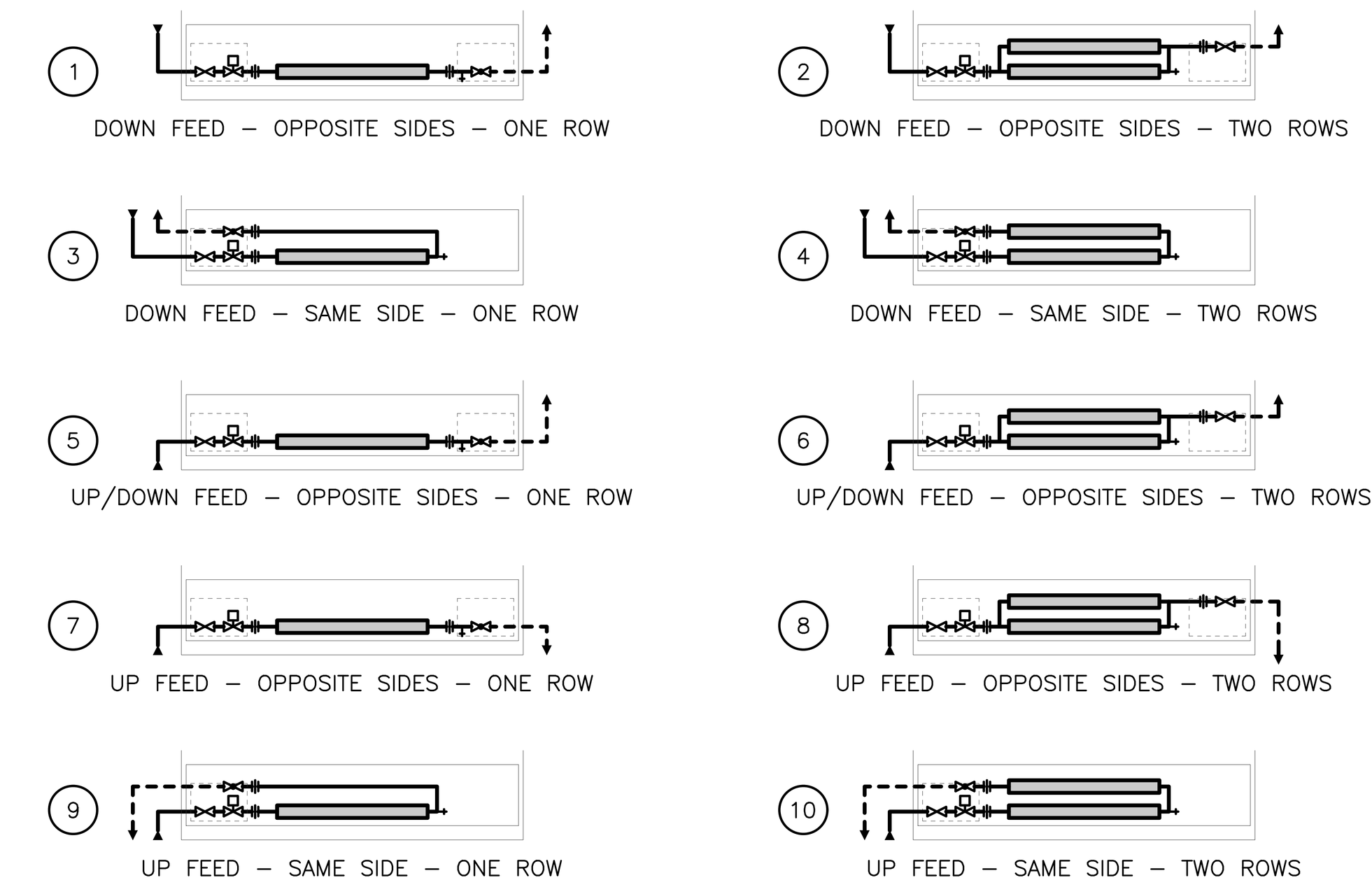

TYPICAL WALL FIN CONVECTOR PIPE CONNECTIONS
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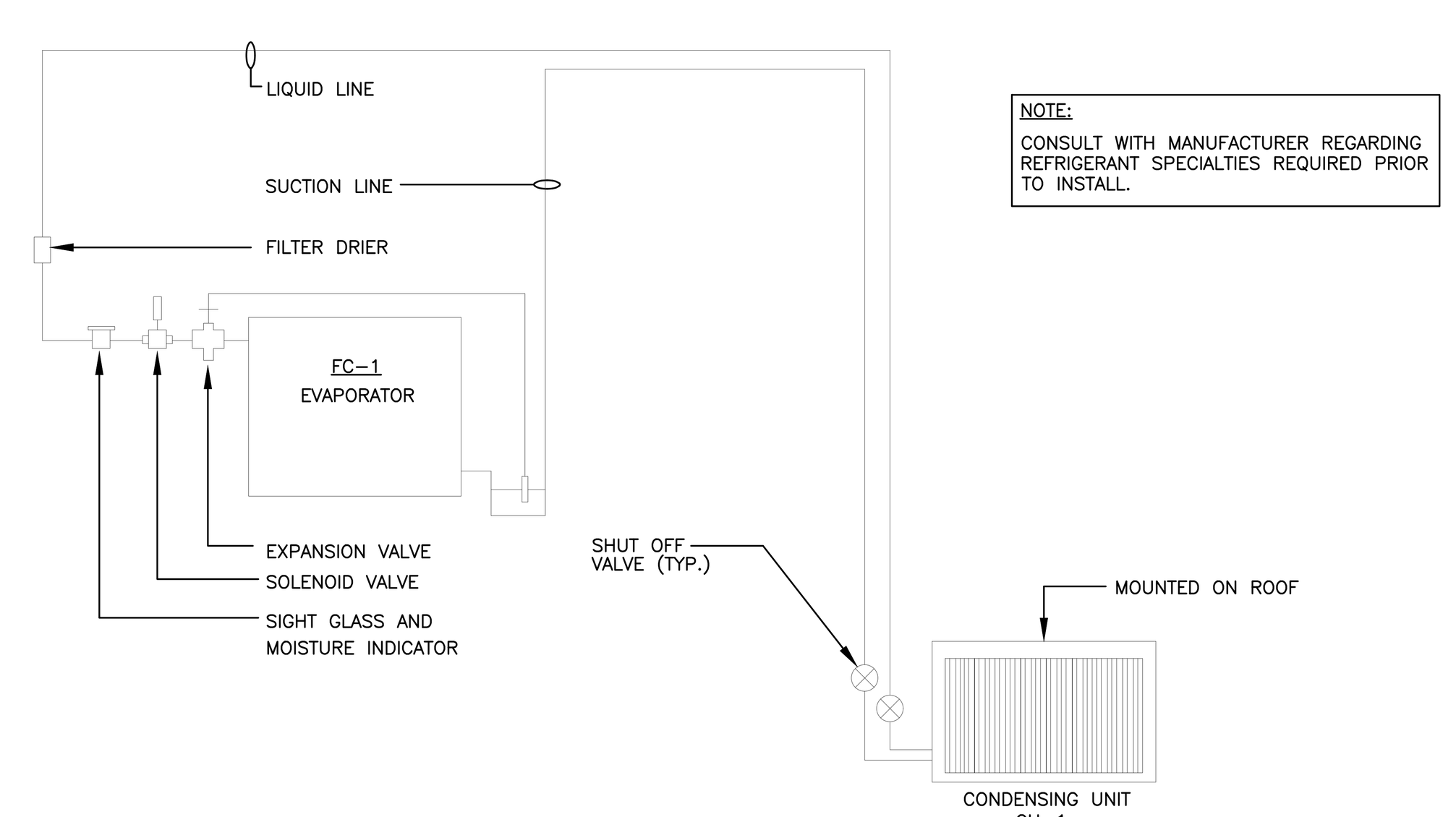

SPLIT VRF SYSTEM PIPING DETAIL
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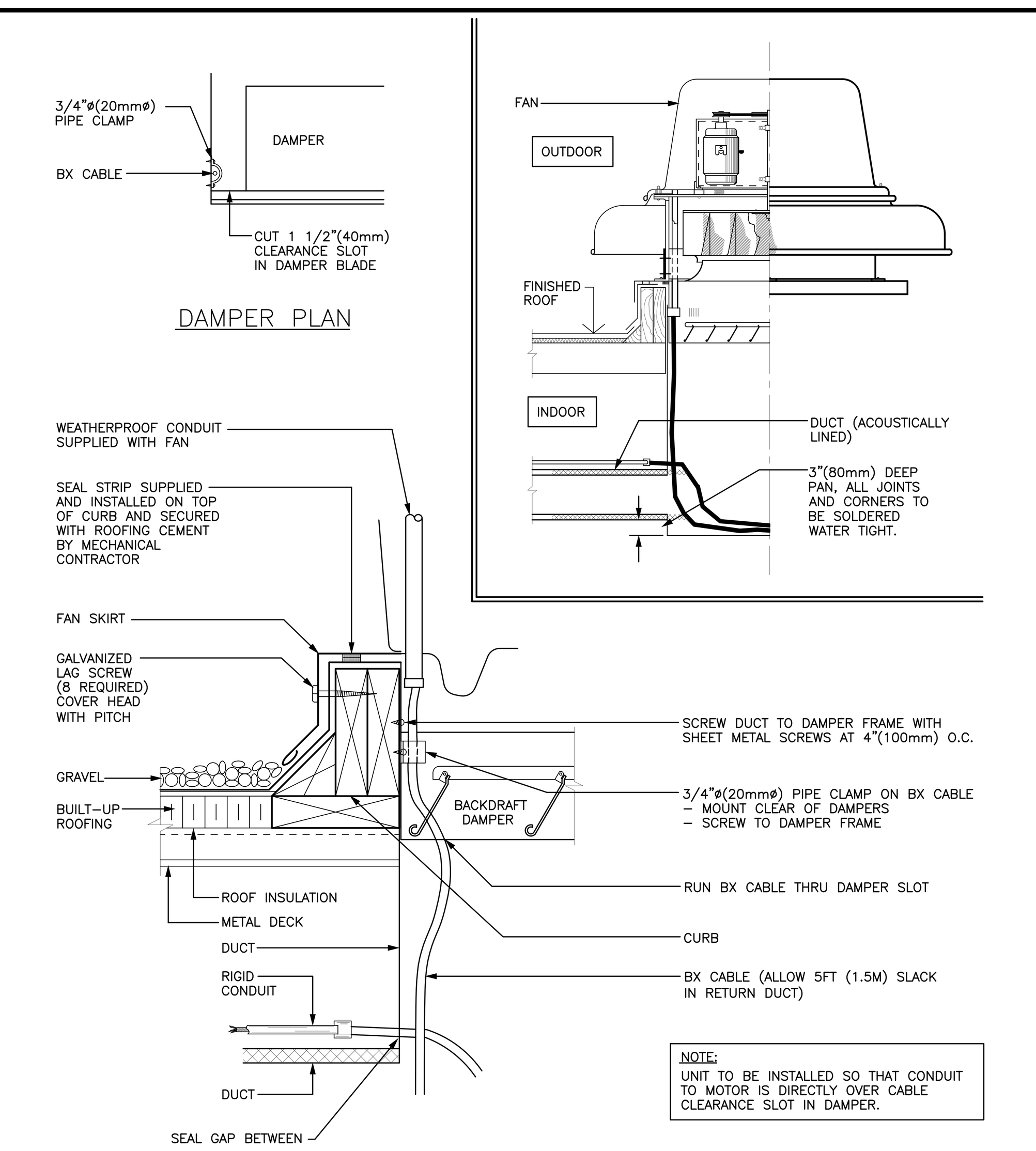

TYPICAL CURB MOUNTED FAN INSTALLATION
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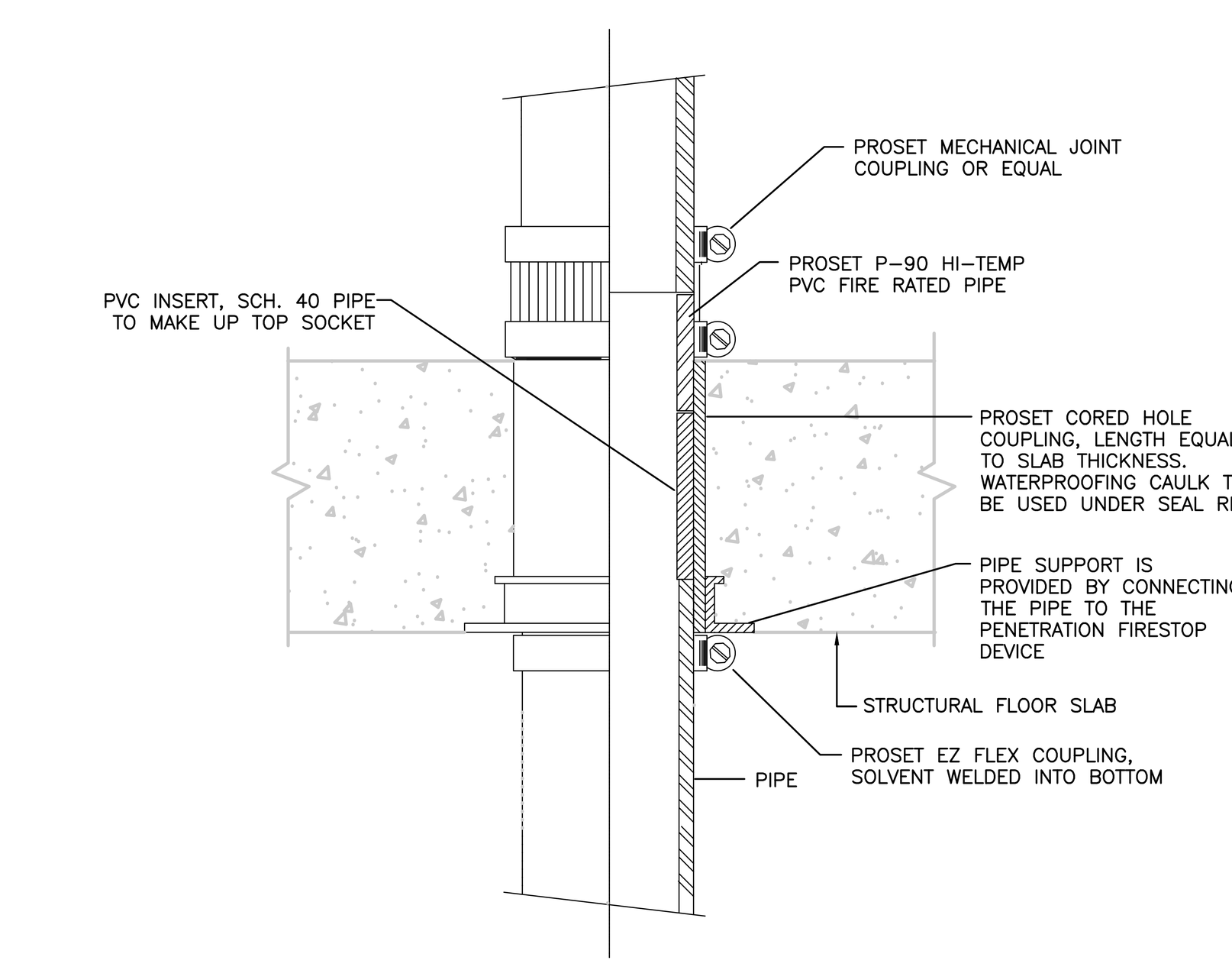

DETAIL OF PIPE THROUGH FLOOR SLAB
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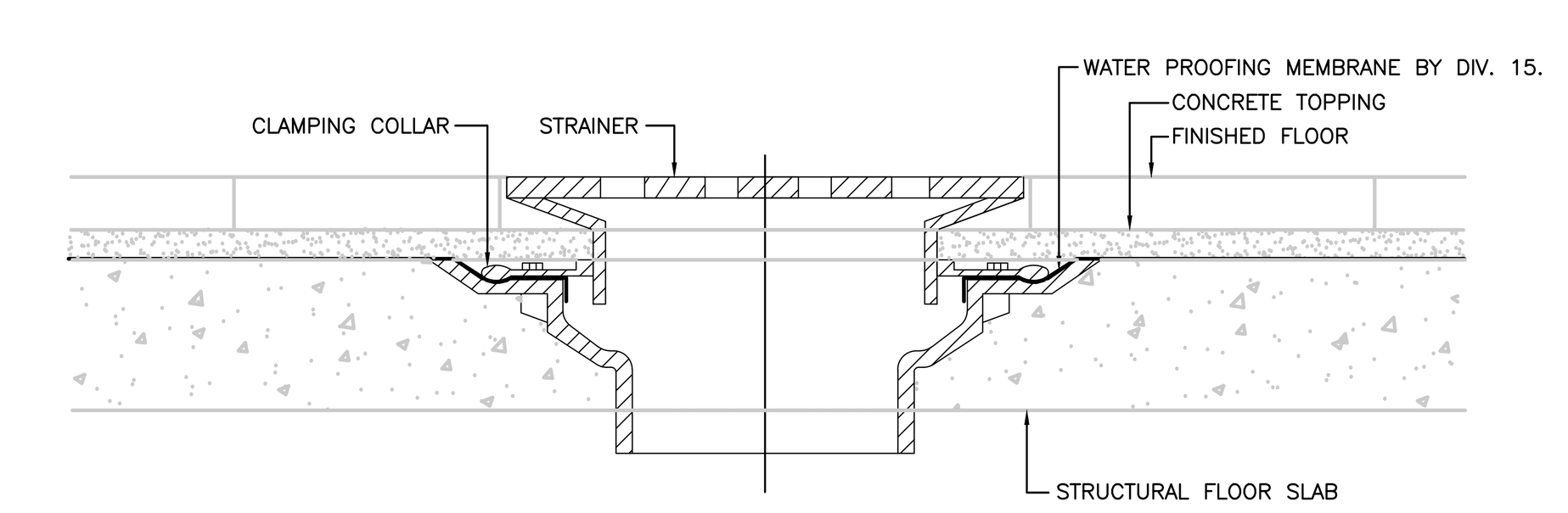

FLOOR DRAIN DETAIL
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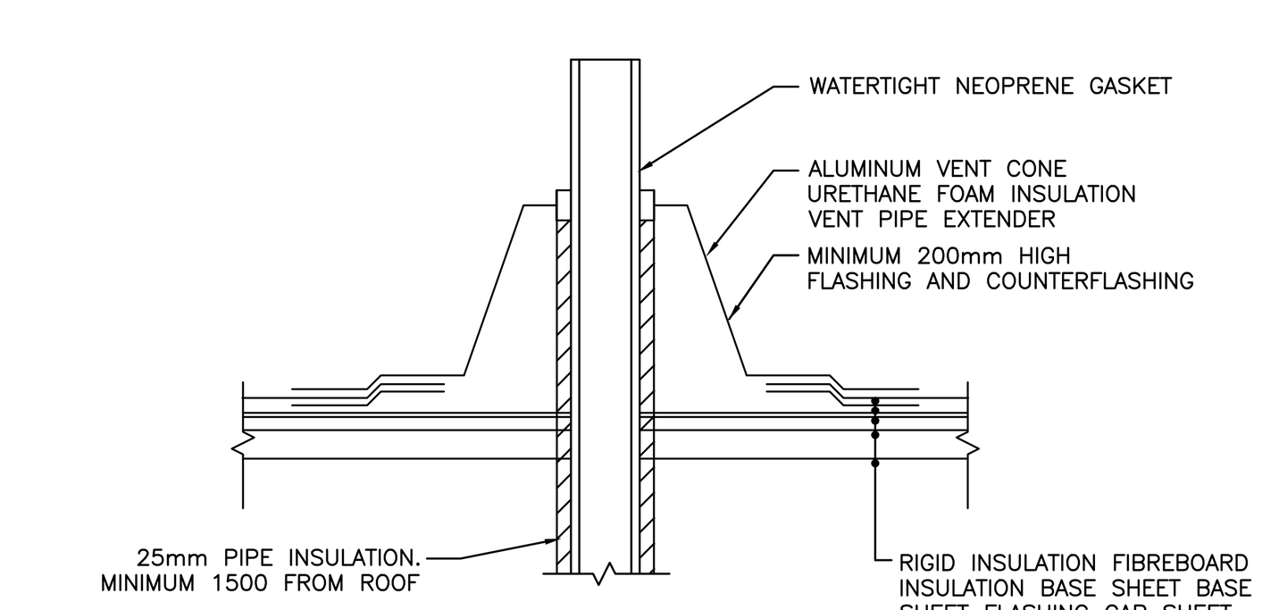

PLUMBING VENT DETAIL
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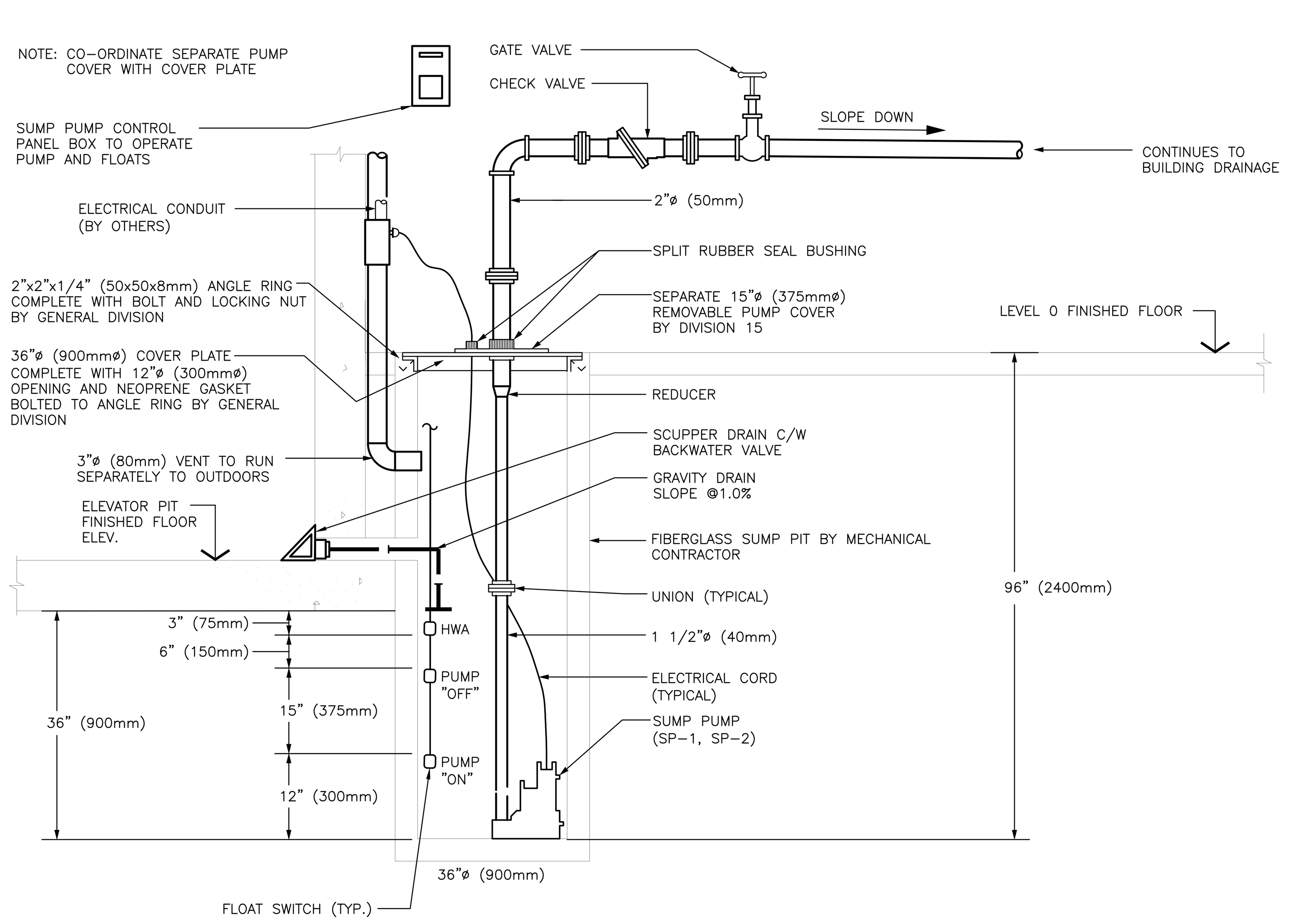

ELEVATOR SUMP PUMP DETAIL
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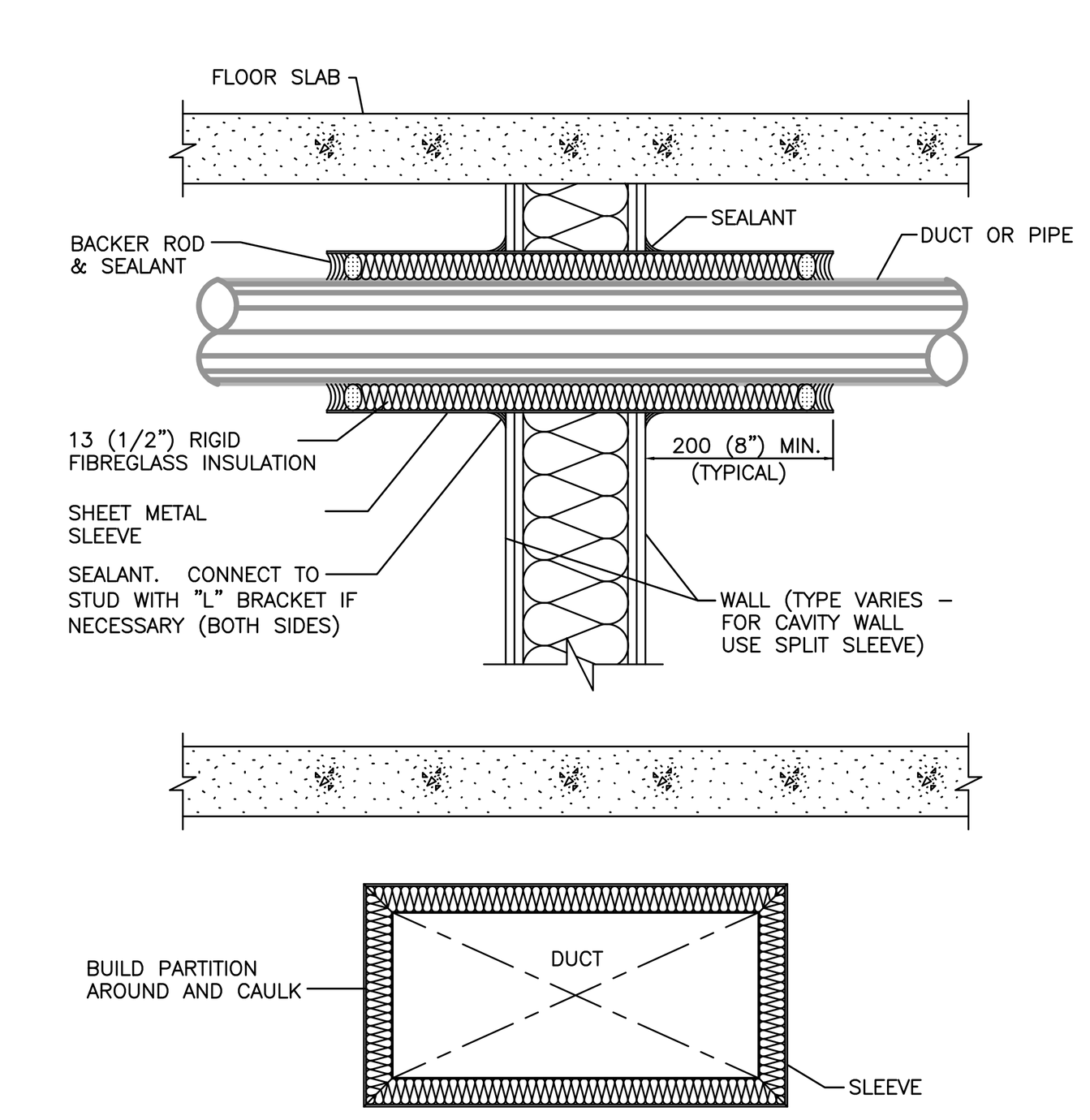
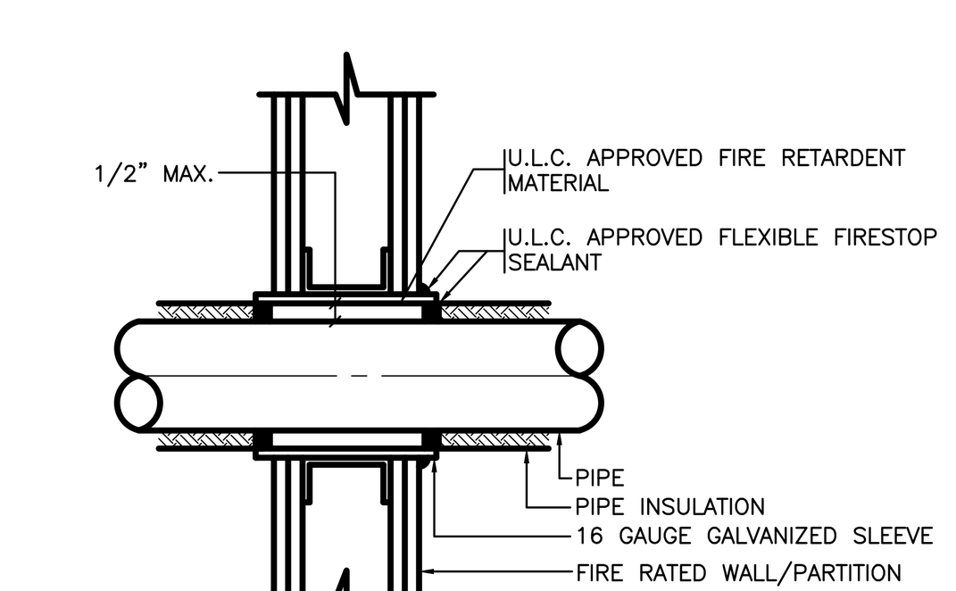
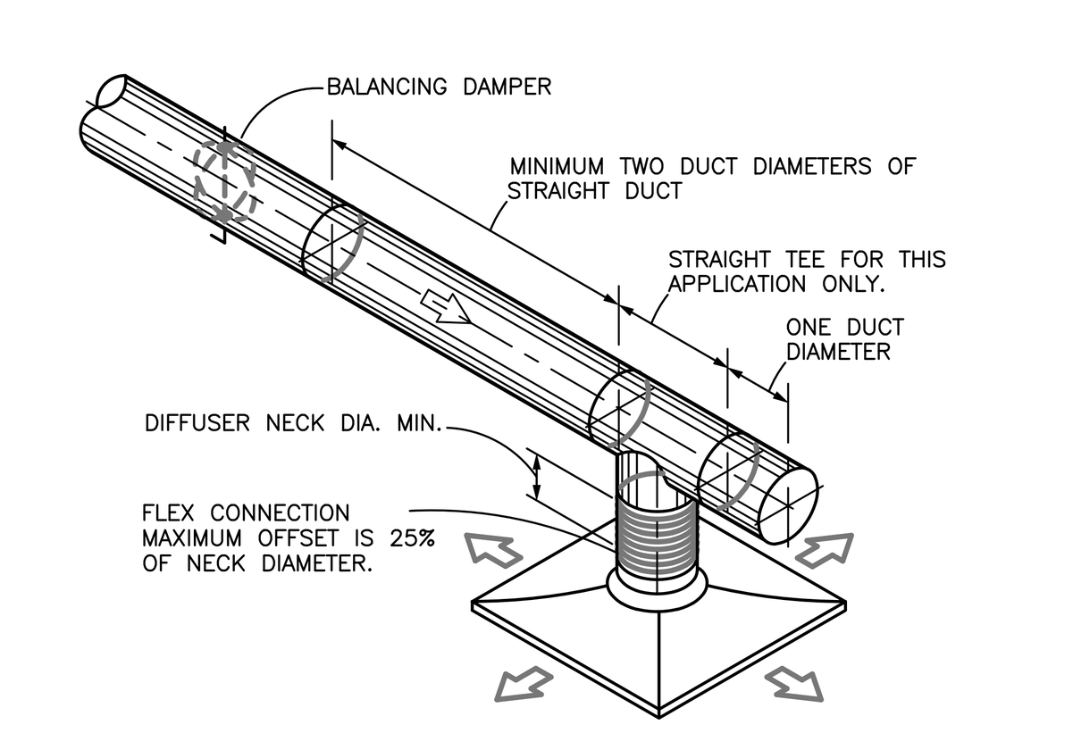


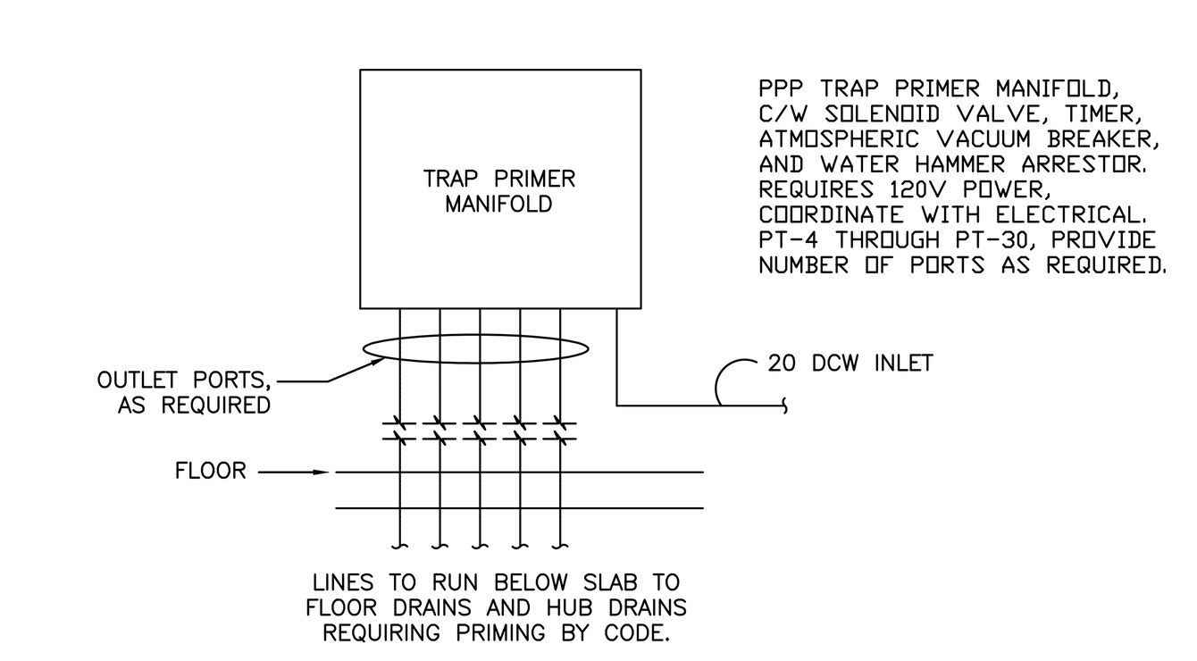
PIPE & DUCT PENETRATIONS DETAIL
N.T.S.



DETAIL OF PIPE SLEEVE THROUGH FIRE RATED WALL
N.T.S.



TYPICAL DIFFUSER CONNECTION DETAIL
N.T.S.



TRAP PRIMER MANIFOLD DETAIL
N.T.S.

JOB NAME: T.A. BLAKELOCK HIGH SCHOOL RENOVATIONS — JOB No. ALL-22020201

MECHANICAL SCHEDULE - GRILLES AND DIFFUSERS

DWG. DESIGNATION	MODEL		SIZE (L x W) (MM)	NECK SIZE (MM)	CFM		SP (IN W.G.)		MECHANICAL REMARKS
	SERIES	CORE			MIN	MAX	MIN	MAX	
D-01	PRICE SCB	3 CONE	300 x 300	150 DIA.	30	250	0.01	0.02	VCR DAMPER. ACOUSTICALLY LINED AND EXTERNALLY INSULATED PLENUM
G-01	PRICE 80-FR	-	300 x 300	-	30	700	0	0.08	WHITE POWDER COAT FINISH, FIRE RATED CONSTRUCTION
G-02	PRICE 610	-	400 x 200	-	250	600	0.006	0.03	WHITE POWDER COAT FINISH
DG-01	NAILOR 61DGD	-	300 x 300	-	0	215	0	0.033	SITE PROOF DOOR GRILLE, APPLIANCE WHITE FINISH
DG-02	NAILOR 61DGD-FR	-	300 x 300	-	0	215	0	0.033	FIRE RATED DOOR GRILLE, APPLIANCE WHITE FINISH

~~FRAME 31 IS FOR T-BAR CEILING~~
FRAME 31/SPF IS FOR PLASTER CEILING

4

JOB NAME: T.A. BLAKELOCK HIGH SCHOOL RENOVATIONS

MECHANICAL SCHEDULE - CONVECTION RADIATOR

DWG. DESIGNATION	SYSTEM and ROOM	MODEL	ROWS	ENCLOSURE HEIGHT (IN)	OUTPUT (BTU/HR/FT)	AVG WTR TEMP (F)	MECHANICAL REMARKS
WF-1	NEW WASHROOMS	ENGA WF-1A	2 at 300mm CENTER	24	2000	170	COPPER TUBE. ALUMINUM FIN. MOUNT AT 100MM A.F.F. FIELD MEASURE EXACT COVER LENGTH PRIOR TO ORDERING. C/W ACCESS DOOR, CORNER HOOK, BUTT JOINT AND ENCLOSURE BRACKETS, HANGERS AND END CAPS.

Client
Halton District School Board
2050 Guelph Line
Burlington, Ontario

T. A. BLAKELOCK H.S. RENOVATIONS

1160 Rebecca Street
Oakville, ON

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Stoney Creek, Ontario, L8E 5R9
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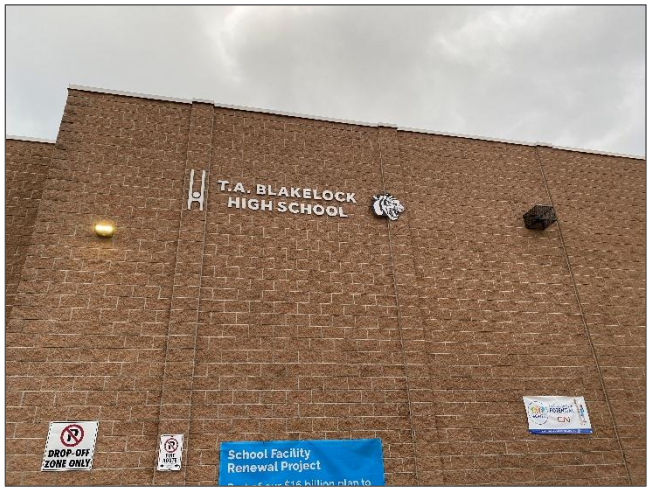
Project North — True North

No.	Revisions	Date

No.	Issue	Date
4	ISSUED FOR ADDENDUM #2	2025 05 05
3	ISSUED FOR TENDER	2025 04 17
2	ISSUED FOR PERMIT	2025 04 08
1	ISSUED FOR REVIEW	2025 03 21

Drawing Title:
MECHANICAL DETAILS AND SCHEDULES

Scale: N.T.S.	Date: 2025-03-03
Drawn by: JL	Checked by: WD
Job No. ALL-22020201	Drawing No. M400



Hazardous Building Materials Assessment (Pre-construction)

T.A. Blakelock High School
1160 Rebecca Street, Oakville, Ontario

Prepared for:

Halton District School Board

2050 Guelph Line
Burlington, Ontario, L7P 5A8

April 25, 2025

Pinchin File: 352316.006

Issued to:	**Halton District School Board**
Issued on:	**April 25, 2025**
Pinchin File:	**352316.006**
Issuing Office:	**Hamilton, ON**
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Author: Justin Appleby, ADip.T.(Arch)
Senior Project Technologist

Project Manager/Reviewer: Damian Palus, C.E.T.
Operations Manager

EXECUTIVE SUMMARY

Halton District School Board (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment at T.A. Blakelock High School located at 1160 Rebecca Street, Oakville, Ontario. Pinchin performed the assessment on April 15 and April 23, 2025.

The objective of the assessment was to identify specified hazardous building materials in preparation for building renovation. The proposed work as identified by the Client includes the library washroom renovations and new elevators.

The results of this assessment are intended for use with a properly developed scope of work or performance specifications and safe work procedures.

SUMMARY OF FINDINGS

The following is a summary of significant findings; refer to the body of the report for detailed findings:

Asbestos:

- Pipe insulation
- Ceiling tiles and mastic
- Drywall joint compound
- Caulking
- Roofing (presumed)
- Mastic
- Elevator brakes (presumed)

Lead:

- Lead is present in paints and coatings.
- Batteries of emergency lights contain solid lead.
- Caulking on cast iron pipe joints (bell and spigot) contains lead.

Silica: Crystalline silica is present in concrete and other materials such as masonry, and ceramic tiles.

Mercury: Mercury vapour is present in lamp tubes.

Polychlorinated Biphenyls (PCBs): Based on the date of construction, PCBs may be present in light ballasts.

Mould and Water Damage: Visible mould and water damage was not observed.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations.

1. Conduct further investigation of the following items, which was not completed during this assessment:
    a. Any items listed as exclusions in this report, prior to disturbance.
2. Prepare a scope of work or specifications and safe work procedures for the hazardous materials removal required for the planned work.
3. Do not disturb suspected hazardous building materials discovered during the planned work, which have not been identified in this report and arrange for further evaluation and testing.
4. Remove and properly dispose of asbestos-containing materials prior to demolition or renovation activities.
5. Remove and properly dispose of PCB ballasts when fixtures are decommissioned. All PCB lamp ballasts must be removed from service and properly disposed of by December 31, 2025.
6. Recycle mercury-containing lamp tubes and thermostats when removed from service.
7. Follow appropriate safe work procedures when handling or disturbing asbestos, lead and silica.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

TABLE OF CONTENTS

APPENDICES

1.0 INTRODUCTION AND SCOPE

Halton District School Board (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment at T.A. Blakelock High School located at 1160 Rebecca Street, Oakville, Ontario.

Pinchin performed the assessment on April 16, 2025, with return visits on April 23, 2025. The surveyor was unaccompanied during the assessment. The assessed area was occupied at the time of the assessment.

The objective of the assessment was to identify specified hazardous building materials in preparation for building renovation. The proposed renovations include the library washroom renovations and new elevators.

The results of this assessment are intended for use with a properly developed scope of work or performance specification.

1.1 Scope of Assessment

The **assessed area** is limited to the portion(s) of the building to be renovated, as described by the Client, and identified in the drawings in Appendix I.

The assessment was performed to establish the type of specified hazardous building materials, locations and approximate quantities incorporated in the structure(s) and its finishes.

For the purpose of the assessment and this report, hazardous building materials are defined as follows:

- Asbestos
- Lead
- Silica
- Mercury
- Polychlorinated Biphenyls (PCBs)
- Mould

The following Designated Substances are not typically found in building materials in a composition/state that is hazardous and were not included in this assessment:

- Arsenic
- Acrylonitrile
- Benzene
- Coke oven emissions
- Ethylene oxide
- Isocyanates

- Vinyl chloride monomer

2.0 METHODOLOGY

Pinchin conducted a room-by-room assessment to identify the hazardous building materials as defined in the scope.

The assessment included limited destructive testing of flooring where possible (under ceramic tiles, carpets, or multiple layers of flooring). Demolition of exterior building finishes, masonry walls (chases, shafts etc.), and structural surrounds was not conducted.

Limited demolition of masonry block walls (core holes) was conducted to investigate for loose fill vermiculite insulation. Sampling of roofing materials was not conducted.

For further details on the methodology including test methods, refer to Appendix III.

3.0 BACKGROUND INFORMATION

3.1 Building Description

Description Item	Details
Use	High School
Number of Floors	The building is 3 storeys.
Total Area	The total area of the building is approximately 75,000 square feet.
Year of Construction	The building was constructed in 1955 with additions in 1959, 1969 and 1989.
Structure	Structural steel and pre-cast concrete
Exterior Cladding	Brick
HVAC	Forced air and radiant heating
Roof	Built up roofing
Flooring	Terrazzo, vinyl floor tiles, carpet, ceramic tiles, and concrete
Interior Walls	Drywall and plaster
Ceilings	Acoustic ceiling tiles and drywall

3.2 Existing Reports

Pinchin was provided with the following reports

- *"T.A. Blakelock High School, Dated August 2013. Prepared by Arcadis".*

3.3 Inaccessible Locations

The following rooms or areas were not accessible and are therefore not included in the report.

Area or Room	Loc No.	Reason
Storage	268A	Locked- no access.
Corridor	209	Above solid ceilings.

4.0 FINDINGS

The following section summarizes the findings of the assessment and provides a general description of the hazardous building materials identified. For details on approximate quantities, condition, friability, accessibility, and locations of hazardous building materials; refer to the Hazardous Material Summary / Sample Log and All Data Report in Appendices V and VI.

Any quantities listed in this report or data tables are estimated based on visual approximations only and are subject to variation.

4.1 Asbestos

4.1.1 Texture Finishes (Decorative)

Texture finish on drywall ceilings in the assessed area does not contain asbestos (samples S0206A-C, photo 1).

Photo 1

4.1.2 Pipe Insulation

Parging cement, containing asbestos, is present on pipe fittings (elbows, valves, tees, hangers etc.), systems throughout the assessed area (samples S0111, S0114, and S0117, photos 1 and 2).

Remaining pipes in the assessed areaare either uninsulated or insulated with non-asbestos fibreglass or other non-asbestos insulation such as mineral fibre or elastomeric foam insulation.

Pipes insulated with asbestos-containing insulations will be present in inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts.

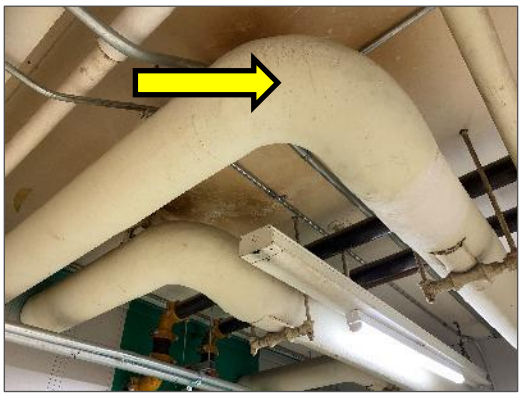


Photo 1

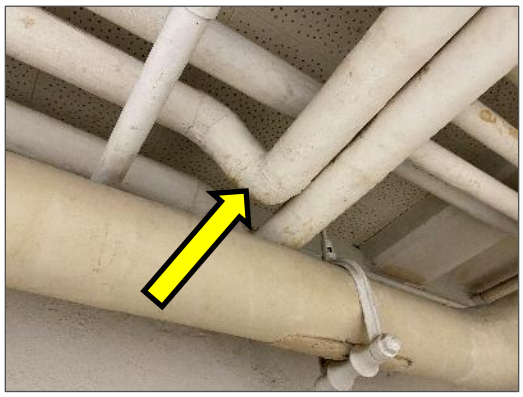


Photo 2

4.1.3 Duct Insulation and Mastic

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas jacketing).

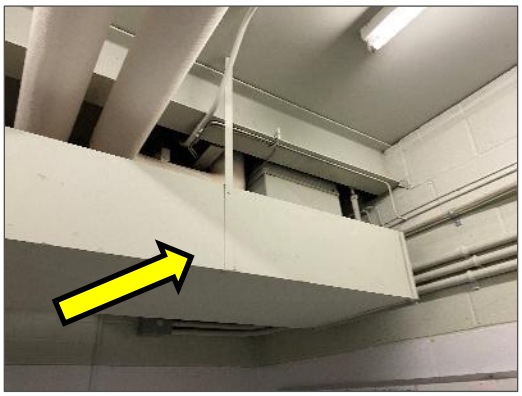


Photo 1

4.1.4 Mechanical Equipment Insulation

Mechanical equipment (furnace, hot water tanks, boilers) is either uninsulated or insulated with non-asbestos fibreglass.

4.1.5 Vermiculite

Destructive testing was conducted of a representative selection of masonry block walls, including creating penetrations at six locations. The locations of destructive testing have been indicated on the drawings in Appendix I.

Loose fill vermiculite was not observed within the cavities.

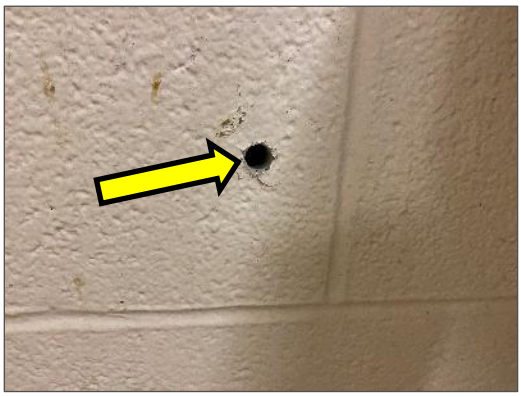
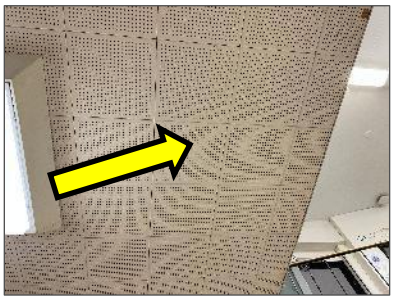
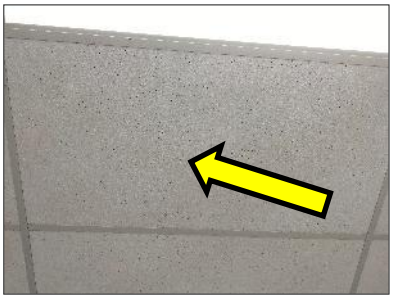


Photo 1

4.1.6 Acoustic Ceiling Tiles

The following is a summary of acoustic ceiling tiles sampled.

Description	Sample Location	Sample Number, Date Code or Material Composition	Asbestos	Photo
12”x12”, mechanically fastened, uniform holes	Previously sampled	S0099	No / None detected	
12”x12”, glue-on, small and large pinhole	Location 161	S0209A-C	Tile - None detected / Mastic - None detected	

Description	Sample Location	Sample Number, Date Code or Material Composition	Asbestos	Photo
12”x12”, mechanically fastened, pinhole	Previously sampled – Present in Location 235	S0100	Tile – Yes Mastic – Presumed	
24”x48”, lay-in, pinhole with fleck	Not sampled	2000’s	No*	
24”x48”, lay-in, pinhole with texture	Not sampled	2000’s	No*	
12”x12”, mechanically fastened, uniform holes on walls	Previously sampled	S0146	Tile - No Mastic - Presumed	

Description	Sample Location	Sample Number, Date Code or Material Composition	Asbestos	Photo
Residual ceiling tile and mastic above solid ceilings	Cafeteria (Location 251)	S0220A-C	Tile – Yes Mastic - No	

*Ceiling tiles are presumed to be non-asbestos based on the date of manufacture determined from the date stamp applied to the top of the tiles. The tiles were manufactured after asbestos stopped being used in acoustic ceiling tiles.

4.1.7 Plaster

Plaster present on walls and ceilings in the vestibule 123 and 171 does not contain asbestos (samples S0207A-C, photo 1).

Plaster present on ceilings in corridors 271 and 272 does not contain asbestos (samples S0212A-C, photo 2).

Photo 1

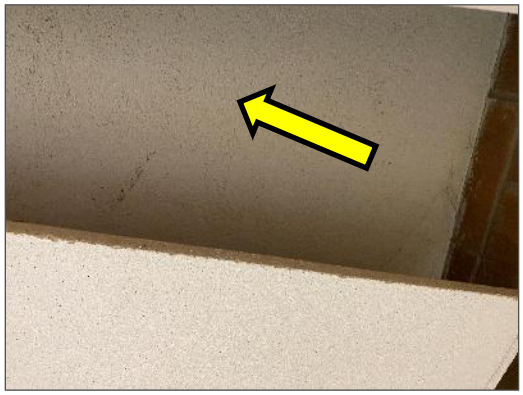


Photo 2

4.1.8 Drywall Joint Compound

Drywall joint compound does not contain asbestos in the following locations:

- On wall/ceiling finishes in Stairwell 171 Area, 1955 era (samples S0204A-C, photo 3).
- On walls and ceiling finishes throughout the 1959 era (samples S0091A-C, photo 6).
- On wall finishes in the elevator shaft of the 1989 era (samples S0200A-C, photo 1).

- On walls and ceiling finishes at the elevator of the 1989 era (samples S0218A-C, photo 5).

Drywall joint compound, containing asbestos, is present as follows:

- On wall and ceiling finishes throughout the Library Washroom Area, 1969 era (samples S0202A-C, photo 2).
- On wall and ceiling finishes throughout the Drama and Cafeteria Areas, 1955 era (samples S0213A-E, photo 4).

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

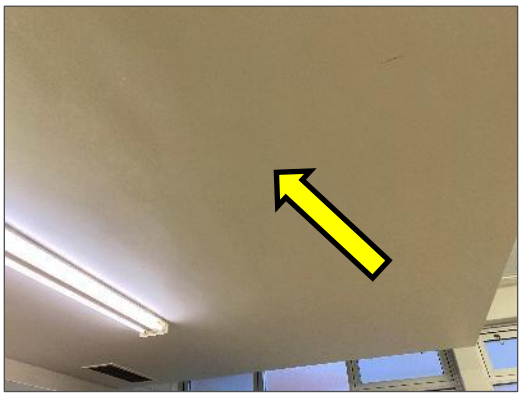
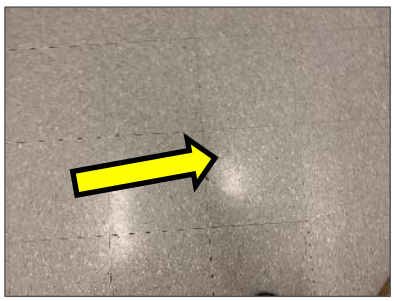
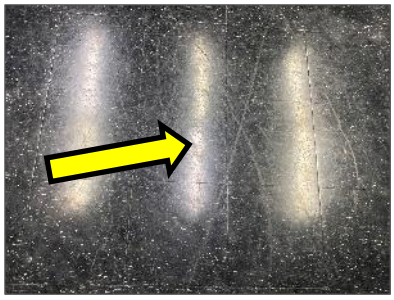
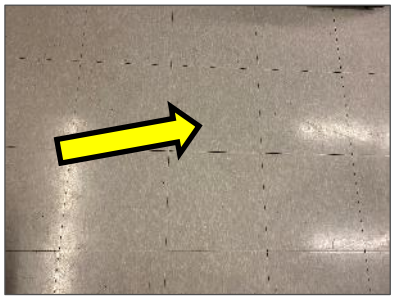
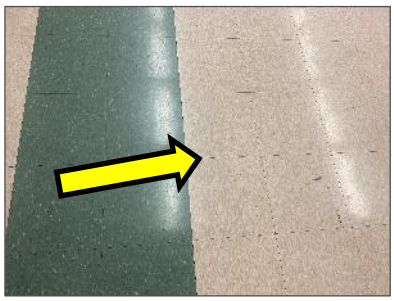
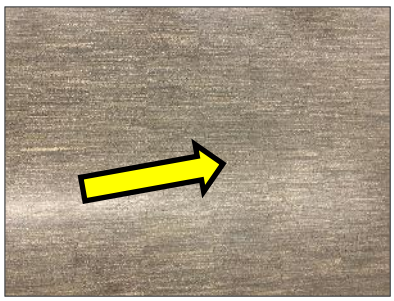


Photo 6

4.1.9 Vinyl Floor Tiles and Baseboards

The following is a summary of vinyl floor tiles sampled.

Description	Sample Location (Location #)	Sample Number	Asbestos (Tile / Adhesive)	Photo
Black baseboards	Previously sampled	S0013 S0014	No / No	
Grey baseboards	Previously sampled	S0015 S0016	No / No	
12”x12”, grey with white and grey fleck	Offices (Location 172)	S0208A-C	None / None	

Description	Sample Location (Location #)	Sample Number	Asbestos (Tile / Adhesive)	Photo
12”x12”, black with white fleck	Drama Room (Location 160)	S0210A-C	None / None	
12”x12”, grey with grey fleck	Drama Room (Location 160)	S0211A-C	None/ None	
12”x12”, grey with white fleck and beige with dark beige fleck	Cafeteria (Location 251)	S0214A-C	None/ None	
9”x9”, green wave pattern	Classroom (Location 208)	S0215A-C	None/ None	

4.1.10 Levelling Compound

The levelling compound associated with vinyl floor tiles in the Office 172 Cafeteria does not contain asbestos (samples S0208A-C and S0214A-C, phase c, photo 1).

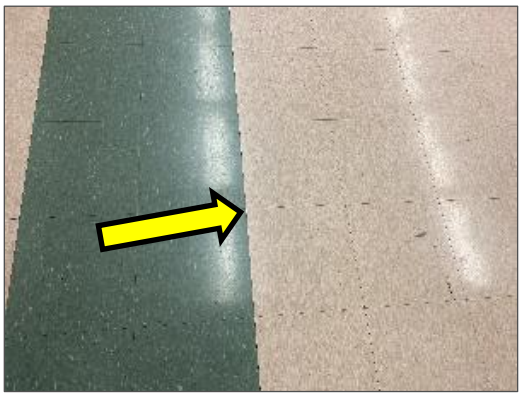
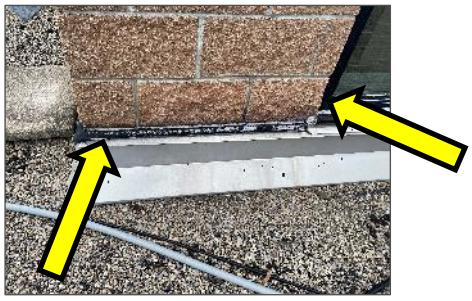


Photo 1

4.1.11 Caulking

The following is a summary of sealants, caulking, and putties sampled.

Material, Description and Application	Sample Location (Location #)	Sample Number	Asbestos	Photo
Caulking, grey around windows and flashing	Roof 201 (Location 300),	S0216A-C	None detected	
Caulking, grey around flashing, below non-asbestos caulking	Roof 306 (Location 300)	S0217A-C	Asbestos	

4.1.12 Roofing Products

The materials associated with the roof 308 and 401 do not contain asbestos (previously sampled, photo 1).

The materials associated with the roofs 201, 209 and 302 are presumed to contain asbestos (not sampled, photo 2).

Photo 1

Photo 2

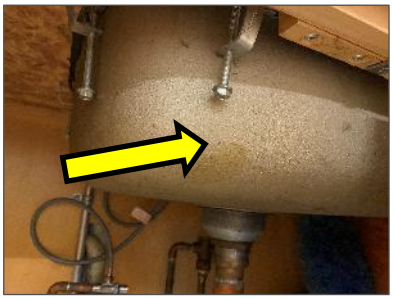
4.1.13 Other Building Materials

The following is a summary of other materials sampled.

Description	Sample Location (Location #)	Sample Number	Asbestos	Photo
Yellow, carpet mastic	Previously sampled	S0012	None detected	
Grout, 4”x4” white ceramic tiles	Previously sampled	S0020	None detected	
Thin-set, 4”x4” white ceramic tiles	Previously sampled	S0021	None detected	

Description	Sample Location (Location #)	Sample Number	Asbestos	Photo
Mortar, brick	Previously sampled	S0029	None detected	
Mortar, concrete block	Previously sampled	S0042	None detected	
Paint/filler, concrete block	Previously sampled	S0044	None detected	
Mortar, ceramic block	Previously sampled	S0045	None detected	
Paint/filler, concrete block	Previously sampled	S0047	None detected	

Description	Sample Location (Location #)	Sample Number	Asbestos	Photo
Mortar, concrete block	Previously sampled	S0071	None detected	
Terrazzo	Boys Washroom (Location 132) Closet (Location 133)	S0201A-C	None detected	
Yellow, mirror mastic	Library Washroom (Location 131, 132)	S0203A-C	Asbestos	
Terrazzo	Stairwell (Location 171)	S0205A-C	None detected	
Thin-set, 1”x1” white ceramic tiles	Boys Washroom (Location 132) Boys Washroom (Location 268)	S0219A-C	None detected	

Description	Sample Location (Location #)	Sample Number	Asbestos	Photo
Gold sink mastic	Not sampled – Location 280 (not expected to be disturbed)	N/A	Presumed	
Mastic	Behind chalkboards and tackboards	NA	Presumed	
Elevator brakes	Offices (Location 172)	NA	Presumed	

4.1.14 Excluded Materials

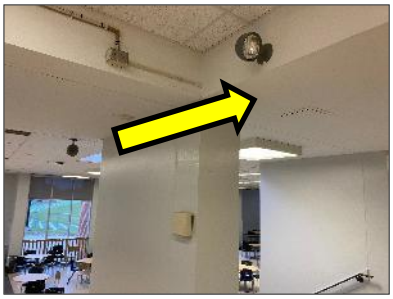
The following is a list of materials which may contain asbestos and was excluded from the assessment. These materials are presumed to contain asbestos until otherwise proven by sampling and analysis:

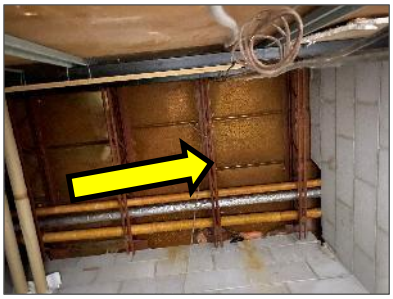
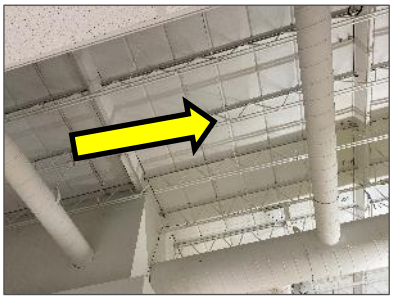
- Mechanical packing, ropes, and gaskets
- Vermiculite
- Fire resistant doors
- Ropes and gaskets in cast-iron bell and spigot joints
- Sealants on pipe threads

4.2 Lead

4.2.1 Paints and Surface Coatings

The following table summarizes the analytical results of paints sampled.

Sample Number	Colour, Substrate Description	Sample Location	Lead (%)	Photo
L0001	White, on concrete block	Closet (Location 133)	0.0033	
L0002	White, on drywall walls and ceilings	Stairwell (Location 130)	0.0048	
L0003	White, on concrete block	Stairwell (Location 171)	0.0037	
L0004	White, on drywall walls and ceilings	Stairwell (Location 171)	0.0076	

Sample Number	Colour, Substrate Description	Sample Location	Lead (%)	Photo
N/A	Red primer, on structural steel	Not sampled (Height restrictions)	>0.1 Presumed	
N/A	White, on structural steel	Not sampled (Height restrictions)	>0.1 Presumed	
NA	All paint not sampled	Throughout	>0.1 Presumed	

Results above 0.1% (1,000 mg/kg) are considered lead-containing.

Results less than or equal to 0.1% (1,000 mg/kg), but equal to or greater than 0.009% (90 mg/kg), are considered low-level lead paints or surface coatings in accordance with the EACC guideline.

4.2.2 Lead Products and Applications

Lead-containing batteries are present in emergency lighting.

4.2.3 Excluded Lead Materials

Lead is known to be present in several materials which were not assessed or sampled. The following materials, where found, should be presumed to contain lead.

- Electrical components, including wiring connectors, grounding conductors, and solder
- Solder on pipe connections
- Glazing on ceramic tiles

4.3 Silica

Crystalline silica is assumed to be a component of the following materials where present in the building.

- Concrete
- Masonry and mortar
- Ceramic tiles and grout
- Plaster

4.4 Mercury

4.4.1 Lamps

Mercury vapour is present in fluorescent lamp tubes.

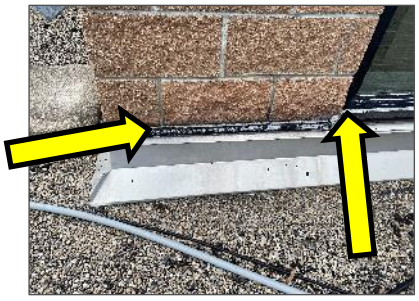
4.4.2 Mercury-Containing Devices

Mercury-containing devices were not found during the assessment.

4.5 Polychlorinated Biphenyls

4.5.1 Caulking and Sealants

The following table presents a summary of caulking sampled:

Material, Colour, Application	Sample Location (Location #)	Sample Number	PCB (mg/kg)	Photo
Caulking, grey around windows and flashing	Roof (Location 300)	P0001	<0.2	
Caulking, grey around flashing	Roof (Location 300)	P0002	<0.2	

The material is a non-PCB solid based on the threshold (50 mg/kg).

4.5.2 Lighting Ballasts

Based on date of construction the fixtures may contain PCB ballasts.

Based on the presence of Light Emitting Diode (LED) lamps, some fixtures will not contain PCB ballasts.

4.5.3 Transformers

Transformers were not found during the assessment.

4.5.4 Excluded PCB Materials

PCBs are known to be present in several materials and equipment which were not assessed or sampled. The following materials, where found, should be presumed to contain PCBs until sampling proves otherwise.

- Capacitors within or associated with electrical equipment
- Voltage regulators and capacitors

4.6 Mould and Water Damage

Visible mould growth and water damage was not found during the assessment.

5.0 RECOMMENDATIONS

5.1 General

1. Prepare scope of work or performance specifications for hazardous material removal required for the planned work. The specifications should include safe work practices, personal protective equipment, respiratory protection, and disposal of waste materials.
2. If suspected hazardous building materials are discovered during the planned work, which are not identified in this report, do not disturb, and arrange for further testing and evaluation.
3. Conduct further investigation of the following items, areas, or locations, which were not completed during this assessment:
    a. Any items listed as exclusions in this report, prior to disturbance.
4. Provide this report and the detailed plans and specifications to the contractor prior to bidding or commencing work.
5. Retain a qualified consultant to specify, observe and document the successful removal of hazardous materials.
6. Update the asbestos inventory upon completion of the abatement and removal of asbestos-containing materials and any other relevant findings.

5.2 Remedial Work

Remedial work is not recommended.

5.3 Building Renovation Work

The following recommendations are made regarding renovation involving the hazardous materials identified.

5.3.1 Asbestos

Remove asbestos-containing materials (ACM) prior to renovation, alteration, or maintenance if ACM may be disturbed by the work. If the identified ACM will not be removed prior to commencement of the work, any potential disturbance of ACM must follow asbestos precautions appropriate for the type of work being performed.

Asbestos-containing materials must be disposed of at a landfill approved to accept asbestos waste.

5.3.2 Lead

For lead-containing or lead-based paints (i.e., greater than the EACC guideline of 0.1% (1,000 mg/kg) for lead-containing paints, and 0.5% (5,000 mg/kg) for lead-based), construction disturbance may result in over-exposure to lead dust or fumes. The need for work procedures, engineering controls and personal protective equipment should be assessed on a site-specific basis to comply with Ministry of Labour, Training and Skills Development regulations and guidelines.

For paints identified as having low levels of lead (i.e., equal to or above 0.009% (90 mg/kg) but less than or equal to the EACC guideline of 0.1% (1,000 mg/kg) for lead-containing paints) special precautions are not recommended unless aggressive disturbance (grinding, blasting, torching) is planned. Exposure from construction disturbance of paints containing lead less than 0.009% (90 mg/kg) is assumed to be insignificant.

Items painted with paints containing elevated levels of lead may be a hazardous waste. Test lead-painted materials for leachable lead and other metals prior to disposal. Metallic components coated with lead paint do not require leachate testing and can be disposed of as non-hazardous construction and demolition (C&D) waste.

Lead-containing items should be recycled when taken out of service.

5.3.3 Silica

Construction disturbance of silica-containing products may result in excessive exposures to airborne silica, especially if performed indoors and dry. Cutting, grinding, drilling or demolition of materials containing silica should be completed only with proper respiratory protection and other worker safety precautions that comply with applicable regulations and guidelines.

5.3.4 Mercury

Do not break lamps. Recycle and reclaim mercury from fluorescent lamps when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable regulations.

5.3.5 PCBs

As light fixtures are removed from service, examine light ballasts for PCB content. If ballasts are not clearly labelled as “non-PCB” or are suspected to contain PCBs, package, and ship ballasts for destruction at a federally permitted facility. As per the PCB Regulation (SOR/2008-273), all PCB light ballasts must be removed from service and properly disposed of by December 31, 2025.

Remove PCB caulking if affected by the renovation work. PCB caulking is a hazardous waste, package, and ship for destruction at a federally permitted facility.

6.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

7.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.
2. Designated Substances, Ontario Regulation 490/09.
3. Lead on Construction Projects, Ministry of Labour Guidance Document.
4. The Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair.
5. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 347 as amended.
6. Ministry of the Environment Regulation, R.R.O. 1990 Reg. 362 as amended.
7. Silica on Construction Projects, Ministry of Labour Guidance Document.
8. Alert – Mould in Workplace Buildings, Ontario Ministry of Labour.

9. PCB Regulations, SOR/2008-273, Canadian Environmental Protection Act.
10. Surface Coating Materials Regulations, SOR/2016-193, Canada Consumer Product Safety Act.
11. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.
12. Mould Guidelines for the Canadian Construction Industry, Standard Construction Document CCA 82 – 2004 (Revised 2018), Canadian Construction Association.

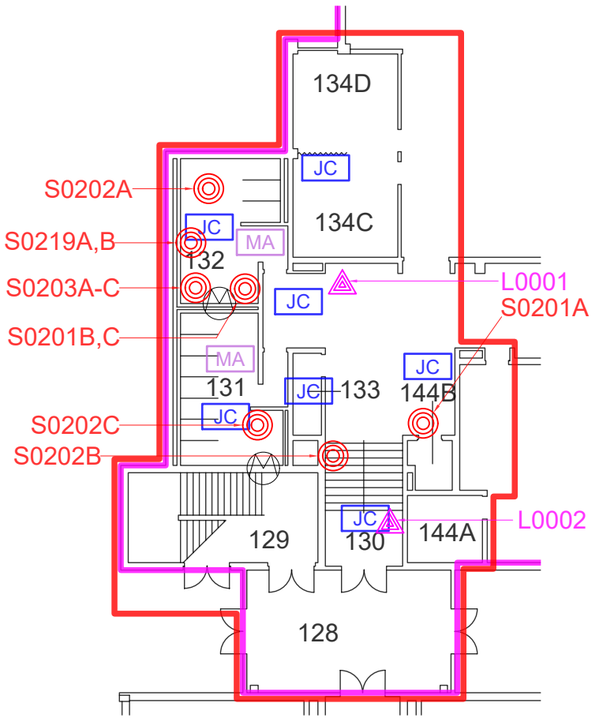
\\PIN-HAM-FS02\job\352000s\0352316.000 HALTONDISTRICT,2025Projects,HAZ,CONS\0352316.006 HDSB,TABlakelock,1160RebeccaSt,HAZ,ASSMT\Deliverables\HBMA\352316.006 HBMA Report TA Blakelock HS Oakville HDSB April 25 2025.docx

Template: Master Report for Hazardous Materials Assessment (Pre-Construction), HAZ, June 19, 2024

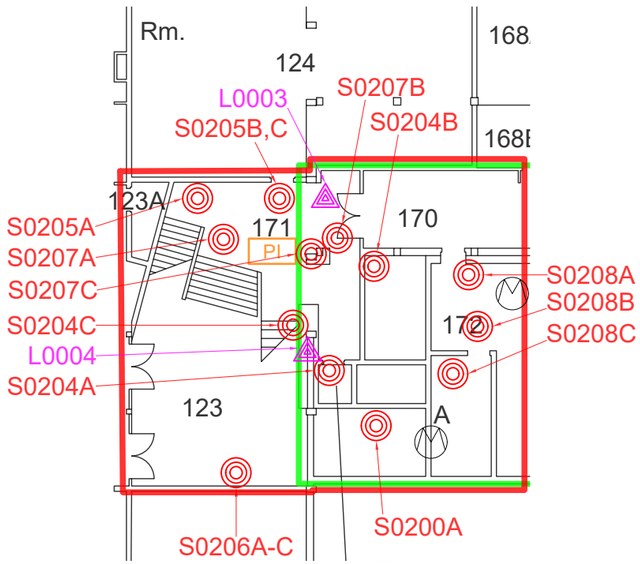
APPENDIX I

Drawings

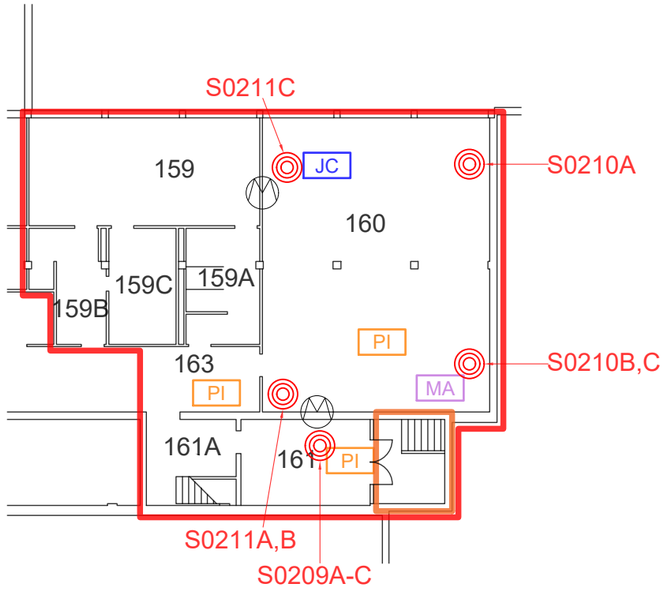
1955 ORIGINAL
1959 ADDITION
1969 ADDITION
1989 ADDITION



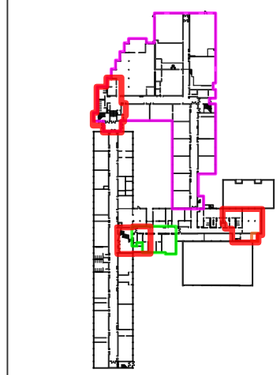
LIBRARY WASHROOM



ELEVATOR AT ENTRANCE



ELEVATOR AT DRAMA ROOM



KEY PLAN

N

LEGEND

XXX ROOM/PINCHIN LOCATION NUMBER
ASSESSED AREA
NAR NO ACCESS TO ROOM/AREA
ASBESTOS BULK SAMPLE
LEAD BULK SAMPLE
PCB BULK SAMPLE
VERMICULITE DRILLHOLE

ASBESTOS-CONTAINING MATERIALS:

PI PIPE INSULATION
PIPE INSULATION ABOVE CEILING
MA MASTIC
JC DRYWALL JOINT COMPOUND
CT CEILING TILE
CM CEILING TILE MASTIC
SM GOLD SINK MASTIC
CLK CAULKING
ROOFING MATERIAL (PRESUMED)

FOR CLARITY, THE FOLLOWING ASBESTOS-CONTAINING MATERIALS, ARE PRESENT IN THE ASSESSED AREA, BUT HAVE NOT BEEN HATCHED ON THE DRAWING:

- PIPE INSULATION (CONCEALED)
- ELEVATOR BREAKERS (PRESUMED)

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

BASE PLAN PROVIDED BY CLIENT.

PINCHIN

Halton District School Board

PROJECT NAME:
HAZARDOUS BUILDING MATERIALS ASSESSMENT

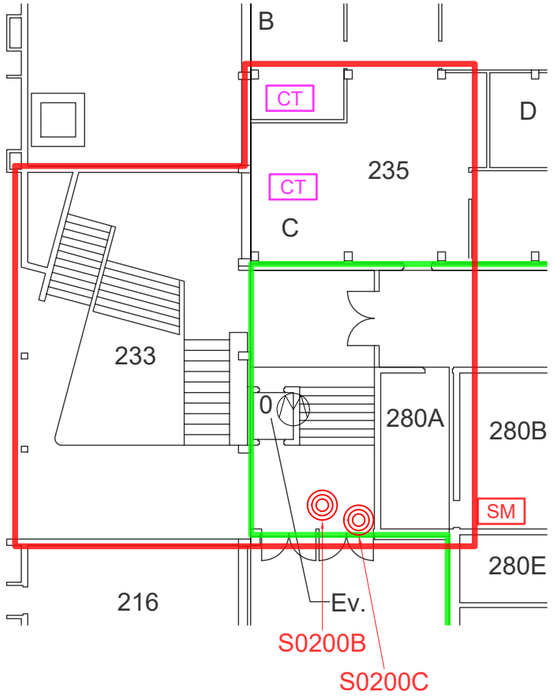
CLIENT NAME:
HALTON DISTRICT SCHOOL BOARD

PROJECT LOCATION:
T.A. BLAKELOCK HIGHSCHOOL
1160 REBECCA STREET,
OAKVILLE, ONTARIO

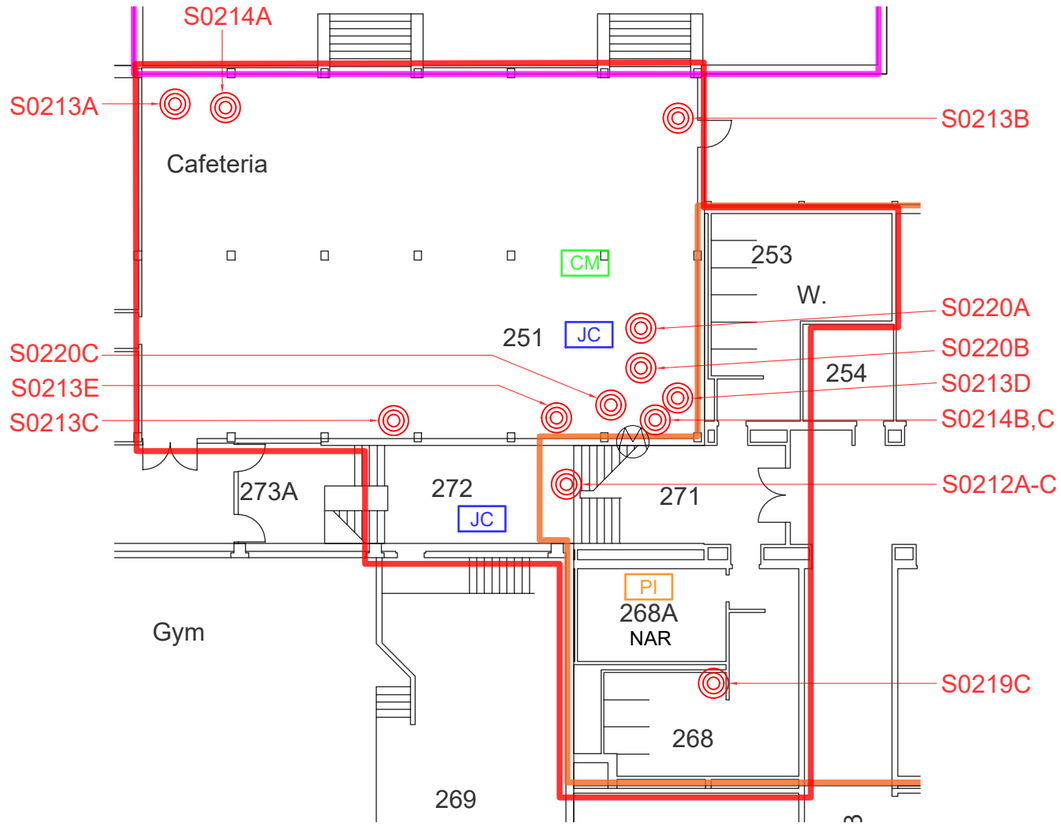
FIGURE NAME:
FIRST FLOOR
LEVEL 0

PROJECT NUMBER:	SCALE:
352316.006	NOT TO SCALE
DRAWN BY:	REVIEWED BY:
KU	DP
DATE:	FIGURE NUMBER:
APRIL 2025	1 OF 4

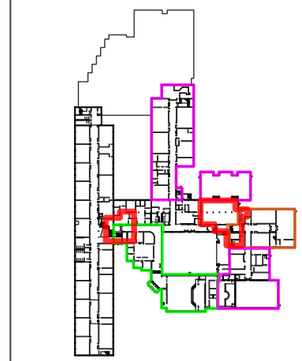
1955 ORIGINAL
1959 ADDITION
1969 ADDITION
1989 ADDITION



ELEVATOR AT ENTRANCE



STAIRS AT CAFETERIA



KEY PLAN

LEGEND

XXX ROOM/PINCHIN LOCATION NUMBER
ASSESSED AREA
NAR NO ACCESS TO ROOM/AREA
ASBESTOS BULK SAMPLE
LEAD BULK SAMPLE
PCB BULK SAMPLE
VERMICULITE DRILLHOLE

ASBESTOS-CONTAINING MATERIALS:

PI PIPE INSULATION
PIPE INSULATION ABOVE CEILING
MA MASTIC
JC DRYWALL JOINT COMPOUND
CT CEILING TILE
CM CEILING TILE MASTIC
SM GOLD SINK MASTIC
CLK CAULKING
ROOFING MATERIAL (PRESUMED)

FOR CLARITY, THE FOLLOWING ASBESTOS-CONTAINING MATERIALS, ARE PRESENT IN THE ASSESSED AREA, BUT HAVE NOT BEEN HATCHED ON THE DRAWING:

- PIPE INSULATION (CONCEALED)
- ELEVATOR BREAKERS (PRESUMED)

NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

BASE PLAN PROVIDED BY CLIENT.

PINCHIN

Halton District School Board

PROJECT NAME:
HAZARDOUS BUILDING MATERIALS ASSESSMENT

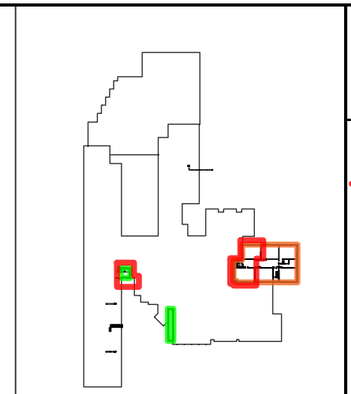
CLIENT NAME:
HALTON DISTRICT SCHOOL BOARD

PROJECT LOCATION:
T.A. BLAKELOCK HIGHSCHOOL
1160 REBECCA STREET,
OAKVILLE, ONTARIO

FIGURE NAME:
SECOND FLOOR
LEVEL 1

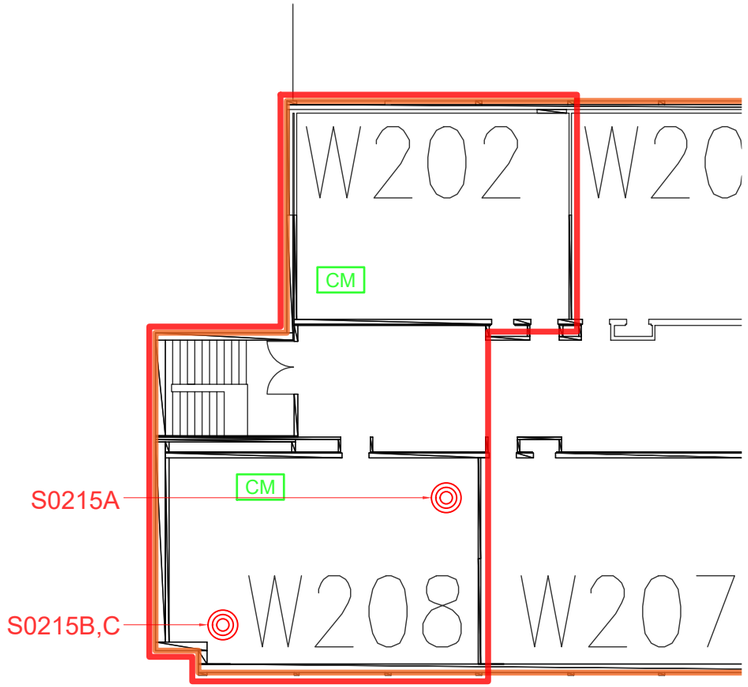
PROJECT NUMBER:	SCALE:
352316.006	NOT TO SCALE
DRAWN BY: KU	REVIEWED BY: DP
DATE: APRIL 2025	FIGURE NUMBER: 2 OF 4

1955 ORIGINAL
1959 ADDITION
1969 ADDITION
1989 ADDITION



KEY PLAN

ELEVATOR TO ROOF



STAIRS TO ROOF

N

LEGEND

XXX ROOM/PINCHIN LOCATION NUMBER
ASSESSED AREA
NAR NO ACCESS TO ROOM/AREA
ASBESTOS BULK SAMPLE
LEAD BULK SAMPLE
PCB BULK SAMPLE
VERMICULITE DRILLHOLE

ASBESTOS-CONTAINING MATERIALS:

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PIPE INSULATION ABOVE CEILING
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JC DRYWALL JOINT COMPOUND
CT CEILING TILE
CM CEILING TILE MASTIC
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Halton District School Board

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HAZARDOUS BUILDING MATERIALS ASSESSMENT

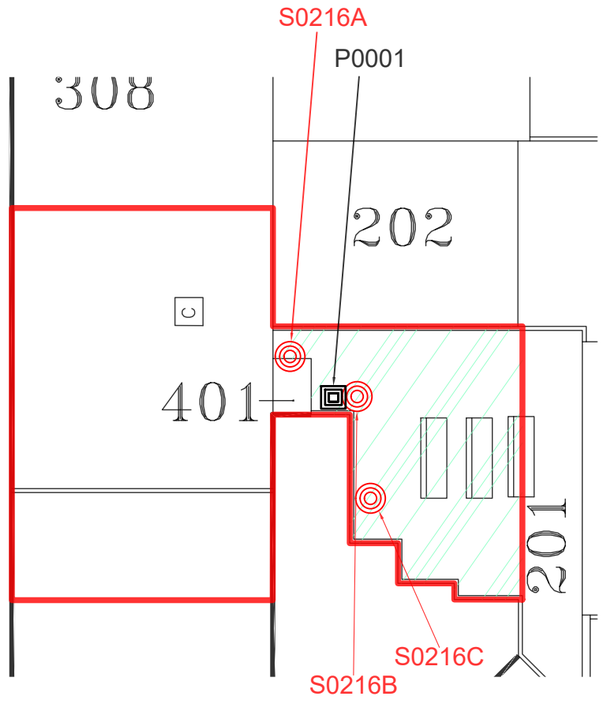
CLIENT NAME:
HALTON DISTRICT SCHOOL BOARD

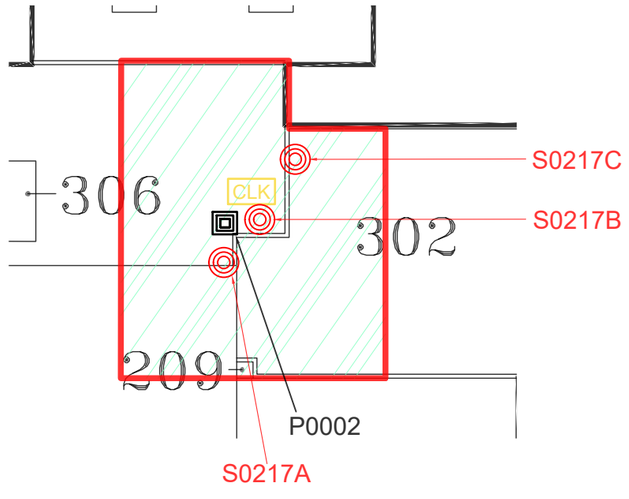
PROJECT LOCATION:
T.A. BLAKELOCK HIGHSCHOOL
1160 REBECCA STREET,
OAKVILLE, ONTARIO

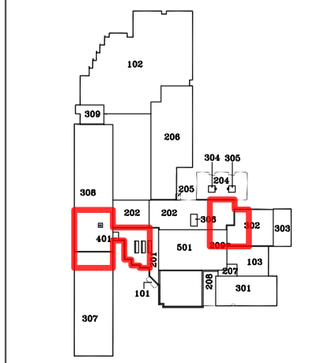
FIGURE NAME:
ROOF
LEVEL 2

PROJECT NUMBER:	SCALE:
352316.006	NOT TO SCALE
DRAWN BY:	REVIEWED BY:
KU	DP
DATE:	FIGURE NUMBER:
APRIL 2025	3 OF 4

1955 ORIGINAL
1959 ADDITION
1969 ADDITION
1989 ADDITION







KEY PLAN

N

LEGEND

XXX ROOM/PINCHIN LOCATION NUMBER
ASSESSED AREA
NAR NO ACCESS TO ROOM/AREA
ASBESTOS BULK SAMPLE
LEAD BULK SAMPLE
PCB BULK SAMPLE
VERMICULITE DRILLHOLE

ASBESTOS-CONTAINING MATERIALS:

PI PIPE INSULATION
PIPE INSULATION ABOVE CEILING
MA MASTIC
JC DRYWALL JOINT COMPOUND
CT CEILING TILE
CM CEILING TILE MASTIC
SM GOLD SINK MASTIC
CLK CAULKING
ROOFING MATERIAL (PRESUMED)

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- PIPE INSULATION (CONCEALED)
- ELEVATOR BREAKERS (PRESUMED)

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BASE PLAN PROVIDED BY CLIENT.

PINCHIN

Halton District School Board

PROJECT NAME:
HAZARDOUS BUILDING MATERIALS ASSESSMENT

CLIENT NAME:
HALTON DISTRICT SCHOOL BOARD

PROJECT LOCATION:
T.A. BLAKELOCK HIGHSCHOOL
1160 REBECCA STREET,
OAKVILLE, ONTARIO

FIGURE NAME:
ROOF

PROJECT NUMBER:	SCALE:
352316.006	NOT TO SCALE
DRAWN BY: KU	REVIEWED BY: DP
DATE: APRIL 2025	FIGURE NUMBER: 4 OF 4

APPENDIX II-A

Asbestos Analytical Certificates

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Halton District School Board, T.A. Blakelock SS**		
Project No.:	**0352316.006**		
Prepared For:	**J. Appleby**		
Lab Reference No.:	**b335989**		
Analyst(s):	**A. Di Giulio**		
Date Received:	**April 21, 2025**	**Samples Submitted:**	**6**
Date Analyzed:	**April 24, 2025**	**Phases Analyzed:**	**17**

The Pinchin Ltd. Mississauga asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis for all bulk materials. Please be advised that bulk materials do not include debris, dust, and tape-lift samples, and the analysis and reporting of these materials does not conform with Pinchin Ltd.'s NVLAP accreditation.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Halton District School Board, T.A. Blakelock SS**
Project No.: **0352316.006**
Prepared For: **J. Appleby**

Lab Reference No.: **b335989**
Date Analyzed: **April 24, 2025**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0216A Caulking,Grey,Loc:300,1955 Roof	2 Phases: a) Homogeneous, pale beige, caulking material. b) Homogeneous, grey, caulking material.	None Detected None Detected	Non-Fibrous Material > 75% Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
S0216B Caulking,Grey,Loc:300,1955 Roof	2 Phases: a) Homogeneous, pale beige, caulking material. b) Homogeneous, grey, caulking material.	None Detected None Detected	Non-Fibrous Material > 75% Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
S0216C Caulking,Grey,Loc:300,1955 Roof	2 Phases: a) Homogeneous, pale beige, caulking material. b) Homogeneous, grey, caulking material.	None Detected None Detected	Non-Fibrous Material > 75% Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Halton District School Board, T.A. Blakelock SS
Project No.: 0352316.006
Prepared For: J. Appleby

Lab Reference No.: b335989
Date Analyzed: April 24, 2025

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0217A Caulking,Grey,Loc:300,1955 Roof	5 Phases: a) Homogeneous, light grey, caulking material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, green-grey, caulking material.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, light grey, soft, caulking material.	None Detected	Non-Fibrous Material > 75%
	d) Homogeneous, grey, hard, caulking material.	None Detected	Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
	e) Homogeneous, grey, dry, caulking material.	Chrysotile 5-10%	Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Halton District School Board, T.A. Blakelock SS**
Project No.: **0352316.006**
Prepared For: **J. Appleby**

Lab Reference No.: **b335989**
Date Analyzed: **April 24, 2025**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0217B Caulking,Grey,Loc:300,1955 Roof	5 Phases: a) Homogeneous, light grey, caulking material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, green-grey, caulking material.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, light grey, soft, caulking material.	None Detected	Non-Fibrous Material > 75%
	d) Homogeneous, grey, hard, caulking material.	None Detected	Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
	e) Homogeneous, grey, dry, caulking material.		Not Analyzed
Comments:	Analysis of phase e) was stopped due to a previous positive result.		
S0217C Caulking,Grey,Loc:300,1955 Roof	2 Phases: a) Homogeneous, light grey, caulking material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, green-grey, caulking material.	None Detected	Non-Fibrous Material > 75%

Reviewed by: **Reporting Analyst:**

Analyzed by: AD 4/24/25
Reviewed by: KD
Report Sent by: AD

EGDC REQ 4/22

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Special Instructions:

Client Name:	Halton District School Board			**Project Address:**	ON		
Portfolio/Building No:	T.A. Blakelock SS			**Pinchin File:**	352316.006		
Submitted by:	Justin Appleby			**Email:**	jappleby@pinchin.com		
CC Email:	Damian Palus			**CC Email:**	dpalus@pinchin.com		
Date Submitted:	April	17	2025	**Required by:**	April	28	2025
# of Samples:	6			**Priority:**	~~5 Day Turnaround~~ 3day per Damian. via email.		
Year of Building Construction (*Mandatory, Years ONLY*):							
Do NOT Stop on Positive (Sample Numbers):							
Pinchin Group Company (*Mandatory Field*):					Pinchin		
HMIS2 Building Reference #:					148487/202531546609719		
To be Completed by Lab Personnel Only:							
Lab Reference #:	b335989			**Time:**	24 hour clock		
Received by:	Apr 21 2025			**Date:**	Month	Day	Year
Name(s) of Analyst(s):					17		

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0216	A	Caulking,Grey,Loc:300,1955 Roof a)ND b)ND.
S	0216	B	Caulking,Grey,Loc:300,1955 Roof a)ND b)ND
S	0216	C	Caulking,Grey,Loc:300,1955 Roof a)ND b)ND
S	0217	A	Caulking,Grey,Loc:300,1955 Roof a)ND b)ND c)ND d)ND e)CHRY-10%
S	0217	B	Caulking,Grey,Loc:300,1955 Roof a)ND b)ND c)ND d)ND e)NA-
S	0217	C	Caulking,Grey,Loc:300,1955 Roof a)ND b)ND

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Halton District School Board, T.A. Blakelock SS**		
Project No.:	**0352316.006**		
Prepared For:	**J. Appleby**		
Lab Reference No.:	**b336149**		
Analyst(s):	**A. Green / A. Di Giulio**		
Date Received:	**April 23, 2025**	**Samples Submitted:**	**9**
Date Analyzed:	**April 24, 2025**	**Phases Analyzed:**	**14**

The Pinchin Ltd. Mississauga asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis for all bulk materials. Please be advised that bulk materials do not include debris, dust, and tape-lift samples, and the analysis and reporting of these materials does not conform with Pinchin Ltd.'s NVLAP accreditation.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Halton District School Board, T.A. Blakelock SS**
Project No.: **0352316.006**
Prepared For: **J. Appleby**

Lab Reference No.: **b336149**
Date Analyzed: **April 24, 2025**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0218A Drywall joint comound, loc 209	Homogeneous, white, layered drywall joint compound.	None Detected	Non-Fibrous Material > 75%
S0218B Drywall joint comound, loc 209	Homogeneous, white, layered drywall joint compound.	None Detected	Non-Fibrous Material > 75%
S0218C Drywall joint comound, loc 209	Homogeneous, white, layered drywall joint compound.	None Detected	Non-Fibrous Material > 75%
S0219A Thinset, below 1x1 tiles in WC loc 132	2 Phases: a) Homogeneous, white, hard, cementitious material. b) Homogeneous, grey, hard, cementitious material.	None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%
S0219B Thinset, below 1x1 tiles in WC loc 132	2 Phases: a) Homogeneous, white, hard, cementitious material. b) Homogeneous, grey, hard, cementitious material.	None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Halton District School Board, T.A. Blakelock SS**
Project No.: **0352316.006**
Prepared For: **J. Appleby**

Lab Reference No.: **b336149**
Date Analyzed: **April 24, 2025**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0219C Thinset, below 1x1 tiles in WC loc 268	3 Phases: a) Homogeneous, white, hard, cementitious material. b) Homogeneous, grey, hard, cementitious material. c) Homogeneous, dark grey, hard, cementitious material.	None Detected None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75% Non-Fibrous Material > 75%
S0220A Mastic from structure, caf	Homogeneous, brown, mastic material.	None Detected	Other Non-Fibrous > 75%
S0220B Mastic from structure, caf	2 Phases: a) Homogeneous, brown, mastic material. b) Homogeneous, off-white, fibrous material.	Chrysotile < 0.5% Amosite 0.5-5% Chrysotile < 0.5%	Non-Fibrous Material > 75% Cellulose 25-50% Man-Made Vitreous Fibres 25-50% Non-Fibrous Material 10-25%
Comments:	The asbestos present in phase a) may be due to contamination.		
S0220C Mastic from structure, caf	Homogeneous, brown, mastic material.	None Detected	Non-Fibrous Material > 75%

Reviewed by: **Reporting Analyst:**

Analyzed by: A-G April 24, 2025

Reviewed by: [illegible] | KB

Report Sent by: RD

ecoc req 4/24

printed ecoc

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Special Instructions:

Client Name:	Halton District School Board			**Project Address:**	ON		
Portfolio/Building No:	T.A. Blakelock SS			**Pinchin File:**	352316.006		
Submitted by:	Justin Appleby			**Email:**	jappleby@pinchin.com		
CC Email:	Damian Palus			**CC Email:**	dpalus@pinchin.com		
Date Submitted:	April	23	2025	**Required by:**	April	24	2025
# of Samples:	9			**Priority:**	Rush Turnaround		
Year of Building Construction (*Mandatory, Years ONLY*):							
Do NOT Stop on Positive (Sample Numbers):							
Pinchin Group Company (*Mandatory Field*):					Pinchin		
HMIS2 Building Reference #:							
To be Completed by Lab Personnel Only:							
Lab Reference #:	b336149 CH.			**Time:**	24 hour clock		
Received by:	APR 23 2025			**Date:**	Month	Day	Year
Name(s) of Analyst(s):	A.G, A.D						

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0218	A	Drywall joint comound, loc 209 ND
S	0218	B	Drywall joint comound, loc 209 ND
S	0218	C	Drywall joint comound, loc 209 ND
S	0219	A	Thinset, below 1x1 tiles in WC loc 132 a) ND b) ND
S	0219	B	Thinset, below 1x1 tiles in WC loc 132 a) ND b) ND
S	0219	C	Thinset, below 1x1 tiles in WC loc 268 a) ND b) ND c) ND

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0220	A	Mastic from structure, caf NT)
S	0220	B	Mastic from structure, caf a) CH <0.5 b) AM 0.5-5%, CH <0.5%
S	0220	C	Mastic from structure, caf NT)

Your Project #: 352316.006
Site Location: ON
Your C.O.C. #: 1026633

Attention: Pinchin Asbestos Lab

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2025/04/23
Report #: R8524920
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C544358
Received: 2025/04/16, 10:22

Sample Matrix: Solid
Samples Received: 50

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Asbestos by PLM - 0.5 RDL (1)	27	N/A	2025/04/22	COR3SOP-00002	EPA 600R-93/116
Asbestos by PLM - 0.5 RDL (1)	23	N/A	2025/04/23	COR3SOP-00002	EPA 600R-93/116

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
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Bureau Veritas' Asbestos Laboratory is accredited by NVLAP for bulk asbestos analysis by polarized light microscopy, NVLAP Code 600136-0.

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Bureau Veritas' scope of accreditation includes EPA -- 40 CFR Appendix E to Subpart E of Part 763, "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" and EPA-600/R-93/116: "Method for the Determination of Asbestos in Bulk Building Materials".

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Your Project #: 352316.006
Site Location: ON
Your C.O.C. #: 1026633

Attention: Pinchin Asbestos Lab

Pinchin Ltd
2360 Meadowpine Blvd
Unit # 2
Mississauga, ON
CANADA L5N 6S2

Report Date: 2025/04/23
Report #: R8524920
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C544358
Received: 2025/04/16, 10:22
(1) P.O.B. - Percent of Bulk

When Asbestos data is reported with other data, this report contains data that are not covered by the NVLAP accreditation.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Nilushi Mahathantila, Project Manager
Email: Nilushi.Mahathantila@bureauveritas.com
Phone# (905) 817-5700
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This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0200A,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft

Bureau Veritas ID: AQCU46 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

S0200B,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft

Bureau Veritas ID: AQCU47 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

S0200C,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft

Bureau Veritas ID: AQCU48 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0201A,Floor,Terrazzo,Loc:133,Closet

Bureau Veritas ID: AQCU49 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous beige terrazzo flooring	Not Detected		Non-Fibrous

S0201B,Floor,Terrazzo,Loc:132,Boys Washroom

Bureau Veritas ID: AQCU50 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous beige terrazzo flooring	Not Detected		Non-Fibrous

S0201C,Floor,Terrazzo,Loc:132,Boys Washroom

Bureau Veritas ID: AQCU51 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous beige terrazzo flooring	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0202A,Ceiling,Drywall And Joint Compound,Loc:132,Boys Washroom

Bureau Veritas ID: AQCU52 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos		Other Fibres	Particulate
Layer 1	100	Homogeneous beige drywall joint compound	**Chrysotile**	0.5%		Non-Fibrous

S0202B,Wall,Drywall And Joint Compound,Loc:130,Stairwell

Bureau Veritas ID: AQCU53 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1			N/A		
	Comment:	Not Analyzed - Positive Stop			

S0202C,Ceiling,Drywall And Joint Compound,Loc:131,Girls Washroom

Bureau Veritas ID: AQCU54 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1			N/A		
	Comment:	Not Analyzed - Positive Stop			

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0203A,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom

Bureau Veritas ID: AQCU55 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos		Other Fibres	Particulate
Layer 1	70	Homogeneous yellow mastic	Not Detected			Non-Fibrous
Layer 2	30	Homogeneous grey mastic	**Chrysotile**	1%		Non-Fibrous

S0203B,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom

Bureau Veritas ID: AQCU56 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	70	Homogeneous yellow mastic	Not Detected		Non-Fibrous
Layer 2	30	Homogeneous grey mastic	N/A		
	Comment:	Not Analyzed - Positive Stop			

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0203C,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom

Bureau Veritas ID: AQCU57 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	80	Homogeneous yellow mastic	Not Detected		Non-Fibrous
Layer 2	20	Homogeneous grey mastic	N/A		
	Comment:	Not Analyzed - Positive Stop			

S0204A,Ceiling,Drywall And Joint Compound,Loc:171,Stairwell

Bureau Veritas ID: AQCU58 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0204B,Wall,Drywall And Joint Compound,Loc:171,Stairwell

Bureau Veritas ID: AQCU59 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	50	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous
Layer 2	50	Homogeneous light grey drywall joint compound	Not Detected		Non-Fibrous

S0204C,Ceiling,Drywall And Joint Compound,Loc:171,Stairwell

Bureau Veritas ID: AQCU60 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	60	Homogeneous white drywall joint compound	Not Detected		Non-Fibrous
Layer 2	40	Homogeneous light grey drywall joint compound	Not Detected		Non-Fibrous

S0205A,Floor,Terrazzo,Loc:171,Stairwell

Bureau Veritas ID: AQCU61 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous white terrazzo flooring	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0205B,Floor,Terrazzo,Loc:171,Stairwell

Bureau Veritas ID: AQCU62 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous white terrazzo flooring	Not Detected			Non-Fibrous

S0205C,Floor,Terrazzo,Loc:171,Stairwell

Bureau Veritas ID: AQCU63 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous white terrazzo flooring	Not Detected			Non-Fibrous

S0206A,Ceiling,Texture Coat,Loc:123,Vestibule

Bureau Veritas ID: AQCU64 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	100	Homogeneous white texture coat	Not Detected	Talc	0.5%	Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0206B,Ceiling,Texture Coat,Loc:123,Vestibule

Bureau Veritas ID:	AQCU65			Date Analyzed:	2025/04/22
	P.O.B	**Sample Morphology**	**Asbestos**	**Other Fibres**	**Particulate**
Layer 1	100	Homogeneous white texture coat	Not Detected	Talc 0.5%	Non-Fibrous

S0206C,Ceiling,Texture Coat,Loc:123,Vestibule

Bureau Veritas ID:	AQCU66			Date Analyzed:	2025/04/22
	P.O.B	**Sample Morphology**	**Asbestos**	**Other Fibres**	**Particulate**
Layer 1	100	Homogeneous white texture coat	Not Detected	Talc 0.5%	Non-Fibrous

S0207A,Ceiling,Plaster,Loc:171,Stairwell

Bureau Veritas ID:	AQCU67			Date Analyzed:	2025/04/22
	P.O.B	**Sample Morphology**	**Asbestos**	**Other Fibres**	**Particulate**
Layer 1	100	Homogeneous grey rough plaster	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0207B,Ceiling,Plaster,Loc:171,Stairwell

Bureau Veritas ID: AQCU68 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey rough plaster	Not Detected		Non-Fibrous

S0207C,Wall,Plaster,Loc:171,Stairwell

Bureau Veritas ID: AQCU69 — Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous grey rough plaster	Not Detected		Non-Fibrous

S0208A,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Offices

Bureau Veritas ID: AQCU70 — Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	90	Homogeneous grey vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous black mastic	Not Detected		Non-Fibrous
Layer 3	5	Homogeneous off-white cementitious material	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0208B,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Offices

Bureau Veritas ID: AQCU71 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	95	Homogeneous grey vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	3	Homogeneous black mastic	Not Detected		Non-Fibrous
Layer 3	2	Homogeneous off-white cementitious material	Not Detected		Non-Fibrous

S0208C,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Offices

Bureau Veritas ID: AQCU72 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	92	Homogeneous grey vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	4	Homogeneous black mastic	Not Detected		Non-Fibrous
Layer 3	4	Homogeneous off-white cementitious material	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0209A,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room

Bureau Veritas ID: AQCU73 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	15	Homogeneous light grey ceiling tile	Not Detected	Mineral Wool	70%	Non-Fibrous
Layer 2	85	Homogeneous brown mastic	Not Detected	Talc	3%	Non-Fibrous

S0209B,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room

Bureau Veritas ID: AQCU74 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	40	Homogeneous light grey ceiling tile	Not Detected	Mineral Wool	70%	Non-Fibrous
Layer 2	60	Homogeneous brown mastic	Not Detected	Talc	3%	Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0209C,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room

Bureau Veritas ID: AQCU75 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	90	Homogeneous light grey ceiling tile	Not Detected	Mineral Wool	70%	Non-Fibrous
Layer 2	10	Homogeneous brown mastic	Not Detected	Talc	3%	Non-Fibrous

S0210A,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room

Bureau Veritas ID: AQCU76 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	97	Homogeneous black vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	3	Non-homogeneous black mastic	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0210B,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room

Bureau Veritas ID: AQCU77 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	97	Homogeneous black vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	3	Non-homogeneous black mastic	Not Detected		Non-Fibrous

S0210C,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room

Bureau Veritas ID: AQCU78 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	97	Homogeneous black vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	3	Non-homogeneous black mastic	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0211A,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room

Bureau Veritas ID: AQCU79 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	97	Homogeneous grey vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	3	Homogeneous black mastic	Not Detected		Non-Fibrous

S0211B,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room

Bureau Veritas ID: AQCU80 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	95	Homogeneous grey vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous black mastic	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0211C,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room

Bureau Veritas ID: AQCU81 Date Analyzed: 2025/04/22

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	95	Homogeneous grey vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous black mastic	Not Detected		Non-Fibrous

S0212A,Ceiling,Plaster,Textured,Loc:271,Corridor

Bureau Veritas ID: AQCU82 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	30	Homogeneous white textured plaster	Not Detected		Non-Fibrous
Layer 2	70	Homogeneous grey plaster	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0212B,Ceiling,Plaster,Textured,Loc:271,Corridor

Bureau Veritas ID: AQCU83 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	30	Homogeneous white textured plaster	Not Detected		Non-Fibrous
Layer 2	70	Homogeneous grey plaster	Not Detected		Non-Fibrous

S0212C,Ceiling,Plaster,Textured,Loc:271,Corridor

Bureau Veritas ID: AQCU84 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	30	Homogeneous white textured plaster	Not Detected		Non-Fibrous
Layer 2	70	Homogeneous grey plaster	Not Detected		Non-Fibrous

S0213A,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria

Bureau Veritas ID: AQCU85 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	100	Homogeneous beige drywall joint compound	**Chrysotile** 1%		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0213B,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria

Bureau Veritas ID:	AQCU86			Date Analyzed:	2025/04/23
	P.O.B	**Sample Morphology**	**Asbestos**	**Other Fibres**	**Particulate**
Layer 1			N/A		
	Comment:	Not Analyzed - Positive Stop			

S0213C,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria

Bureau Veritas ID:	AQCU87			Date Analyzed:	2025/04/23
	P.O.B	**Sample Morphology**	**Asbestos**	**Other Fibres**	**Particulate**
Layer 1			N/A		
	Comment:	Not Analyzed - Positive Stop			

S0213D,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria

Bureau Veritas ID:	AQCU88			Date Analyzed:	2025/04/23
	P.O.B	**Sample Morphology**	**Asbestos**	**Other Fibres**	**Particulate**
Layer 1			N/A		
	Comment:	Not Analyzed - Positive Stop			

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0213E,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria

Bureau Veritas ID: AQCU89 — Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1			N/A		

Comment: Not Analyzed - Positive Stop

S0214A,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Beige Fleck,Loc:251,Cafeteria

Bureau Veritas ID: AQCU90 — Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	85	Homogeneous pink vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous black mastic	Not Detected		Non-Fibrous
Layer 3	10	Homogeneous grey levelling compound	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0214B,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Beige Fleck,Loc:251,Cafeteria

Bureau Veritas ID: AQCU91 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	85	Homogeneous pink vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous black mastic	Not Detected		Non-Fibrous
Layer 3	10	Homogeneous grey levelling compound	Not Detected		Non-Fibrous

S0214C,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Beige Fleck,Loc:251,Cafeteria

Bureau Veritas ID: AQCU92 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres	Particulate
Layer 1	85	Homogeneous pink vinyl floor tile	Not Detected		Non-Fibrous
Layer 2	5	Homogeneous black mastic	Not Detected		Non-Fibrous
Layer 3	10	Homogeneous grey levelling compound	Not Detected		Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0215A,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom

Bureau Veritas ID: AQCU93 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	70	Homogeneous green vinyl flooring	Not Detected	Cellulose	10%	Non-Fibrous
Layer 2	30	Homogeneous black vinyl backing	Not Detected	Cellulose	50%	Non-Fibrous

S0215B,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom

Bureau Veritas ID: AQCU94 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	70	Homogeneous green vinyl flooring	Not Detected	Cellulose	10%	Non-Fibrous
Layer 2	30	Homogeneous black vinyl backing	Not Detected	Cellulose	50%	Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, “<0.50%”. “Not Detected” indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

Asbestos Analytical Results

EPA/600R-93/116 by Polarized Light Microscopy

S0215C,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom

Bureau Veritas ID: AQCU95 Date Analyzed: 2025/04/23

	P.O.B	Sample Morphology	Asbestos	Other Fibres		Particulate
Layer 1	70	Homogeneous green vinyl flooring	Not Detected	Cellulose	10%	Non-Fibrous
Layer 2	30	Homogeneous black vinyl backing	Not Detected	Cellulose	50%	Non-Fibrous

The limit of quantitation is 0.50%, although asbestos may be qualitatively detected at concentrations less than 0.50%. Samples for which asbestos is detected at <0.50% are reported as trace, "<0.50%". "Not Detected" indicates that no asbestos fibres were observed.

Calibrated Visual Estimate (%)
Date Format : yyyy/mm/dd

TEST SUMMARY

Bureau Veritas ID: AQCU46 **Collected:** 2025/04/15
Sample ID: S0200A,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU47 **Collected:** 2025/04/15
Sample ID: S0200B,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU48 **Collected:** 2025/04/15
Sample ID: S0200C,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU48 Dup **Collected:** 2025/04/15
Sample ID: S0200C,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU49 **Collected:** 2025/04/15
Sample ID: S0201A,Floor,Terrazzo,Loc:133,Closet **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU50 **Collected:** 2025/04/15
Sample ID: S0201B,Floor,Terrazzo,Loc:132,Boys Washroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU51 **Collected:** 2025/04/15
Sample ID: S0201C,Floor,Terrazzo,Loc:132,Boys Washroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

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Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

TEST SUMMARY

Bureau Veritas ID: AQCU52 **Collected:** 2025/04/15
Sample ID: S0202A,Ceiling,Drywall And Joint Compound,Loc:132,Boys Washroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU53 **Collected:** 2025/04/15
Sample ID: S0202B,Wall,Drywall And Joint Compound,Loc:130,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU54 **Collected:** 2025/04/15
Sample ID: S0202C,Ceiling,Drywall And Joint Compound,Loc:131,Girls Washroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU55 **Collected:** 2025/04/15
Sample ID: S0203A,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU56 **Collected:** 2025/04/15
Sample ID: S0203B,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU57 **Collected:** 2025/04/15
Sample ID: S0203C,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU58 **Collected:** 2025/04/15
Sample ID: S0204A,Ceiling,Drywall And Joint Compound,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

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TEST SUMMARY

Bureau Veritas ID: AQCU58 Dup **Collected:** 2025/04/15
Sample ID: S0204A,Ceiling,Drywall And Joint Compound,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU59 **Collected:** 2025/04/15
Sample ID: S0204B,Wall,Drywall And Joint Compound,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU60 **Collected:** 2025/04/15
Sample ID: S0204C,Ceiling,Drywall And Joint Compound,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU61 **Collected:** 2025/04/15
Sample ID: S0205A,Floor,Terrazzo,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU62 **Collected:** 2025/04/15
Sample ID: S0205B,Floor,Terrazzo,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU63 **Collected:** 2025/04/15
Sample ID: S0205C,Floor,Terrazzo,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU64 **Collected:** 2025/04/15
Sample ID: S0206A,Ceiling,Texture Coat,Loc:123,Vestibule **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

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Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

TEST SUMMARY

Bureau Veritas ID: AQCU65 **Collected:** 2025/04/15
Sample ID: S0206B,Ceiling,Texture Coat,Loc:123,Vestibule **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU66 **Collected:** 2025/04/15
Sample ID: S0206C,Ceiling,Texture Coat,Loc:123,Vestibule **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU67 **Collected:** 2025/04/15
Sample ID: S0207A,Ceiling,Plaster,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU68 **Collected:** 2025/04/15
Sample ID: S0207B,Ceiling,Plaster,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU68 Dup **Collected:** 2025/04/15
Sample ID: S0207B,Ceiling,Plaster,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU69 **Collected:** 2025/04/15
Sample ID: S0207C,Wall,Plaster,Loc:171,Stairwell **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU70 **Collected:** 2025/04/15
Sample ID: S0208A,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Ot **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

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Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

TEST SUMMARY

Bureau Veritas ID: AQCU71 **Collected:** 2025/04/15
Sample ID: S0208B,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Office **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU72 **Collected:** 2025/04/15
Sample ID: S0208C,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Office **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU73 **Collected:** 2025/04/15
Sample ID: S0209A,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU74 **Collected:** 2025/04/15
Sample ID: S0209B,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU75 **Collected:** 2025/04/15
Sample ID: S0209C,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU76 **Collected:** 2025/04/15
Sample ID: S0210A,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU77 **Collected:** 2025/04/15
Sample ID: S0210B,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

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Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

TEST SUMMARY

Bureau Veritas ID: AQCU78 **Collected:** 2025/04/15
Sample ID: S0210C,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU78 Dup **Collected:** 2025/04/15
Sample ID: S0210C,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU79 **Collected:** 2025/04/15
Sample ID: S0211A,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU80 **Collected:** 2025/04/15
Sample ID: S0211B,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU81 **Collected:** 2025/04/15
Sample ID: S0211C,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU82 **Collected:** 2025/04/15
Sample ID: S0212A,Ceiling,Plaster,Textured,Loc:271,Corridor **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU83 **Collected:** 2025/04/15
Sample ID: S0212B,Ceiling,Plaster,Textured,Loc:271,Corridor **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

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Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

TEST SUMMARY

Bureau Veritas ID: AQCU84 **Collected:** 2025/04/15
Sample ID: S0212C,Ceiling,Plaster,Textured,Loc:271,Corridor **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU85 **Collected:** 2025/04/15
Sample ID: S0213A,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU85 Dup **Collected:** 2025/04/15
Sample ID: S0213A,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU86 **Collected:** 2025/04/15
Sample ID: S0213B,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU87 **Collected:** 2025/04/15
Sample ID: S0213C,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU88 **Collected:** 2025/04/15
Sample ID: S0213D,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914164	N/A		Rodel Ligoyligoy

Bureau Veritas ID: AQCU89 **Collected:** 2025/04/15
Sample ID: S0213E,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914166	N/A	2025/04/23	Rodel Ligoyligoy

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Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

TEST SUMMARY

Bureau Veritas ID: AQCU90 **Collected:** 2025/04/15
Sample ID: S0214A,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Speck Fleck,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914166	N/A	2025/04/23	Rodel Ligoyligoy

Bureau Veritas ID: AQCU91 **Collected:** 2025/04/15
Sample ID: S0214B,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Speck Fleck,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914166	N/A	2025/04/23	Rodel Ligoyligoy

Bureau Veritas ID: AQCU92 **Collected:** 2025/04/15
Sample ID: S0214C,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Speck Fleck,Loc:251,Cafeteria **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914166	N/A	2025/04/23	Rodel Ligoyligoy

Bureau Veritas ID: AQCU93 **Collected:** 2025/04/15
Sample ID: S0215A,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914166	N/A	2025/04/23	Rodel Ligoyligoy

Bureau Veritas ID: AQCU94 **Collected:** 2025/04/15
Sample ID: S0215B,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914166	N/A	2025/04/23	Rodel Ligoyligoy

Bureau Veritas ID: AQCU95 **Collected:** 2025/04/15
Sample ID: S0215C,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom **Shipped:**
Matrix: Solid **Received:** 2025/04/16

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Asbestos by PLM - 0.5 RDL	MIC	9914166	N/A	2025/04/23	Rodel Ligoyligoy

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GENERAL COMMENTS

Results relate only to the items tested.

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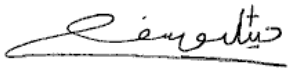
Bureau Veritas Job #: C544358
Report Date: 2025/04/23

Pinchin Ltd
Client Project #: 352316.006
Site Location: ON
Sampler Initials: JA

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Dina Yousif, Analyst 2

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C544358
2025/04/16 10:22

JOB #

CLIENT NAME: Pinchin

T1026633

Internal Sample Receipt Form

	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Bottles	Comments
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

NONT-2025-04-4792

Received by (Signature & Print):	Date	Time	Cooler ID	Temperature	Custody seal Present		Custody Seal Intact		Ice Present	
					YES	NO	YES	NO	YES	NO
						✓		—		—

BUREAU VERITAS

eCOC Offline Template:Asbestos

This is not intended to be a paper COC. To complete your submis:
Please use the Customer Portal for Comp

T 1026633

INVOICE TO	
Company Name	Pinchin Ltd
Invoice Attention	Accounts Payable
Phone	
Email	ap@pinchin.com
Address	2360 Meadowpine Blvd
Address 2	Unit # 2
City	Mississauga
Province	ON
Postal Code	L5N 6S2
Country	CANADA

PROJECT INFORMATION	
Submission Type	Environmental, General
PO/AFE #	
Project #	352316.006
Site Location	ON
Site #	
Task Order	
Line Item	
Cost Object	

SELECT CRITERIA 1	
CRITERIA 1	Select
Included on CofA?	No

COMMENTS

C544358
2025/04/16 10:22

Sample ID	Matrix	Bottles	Date Sampled (yyyy/mm/dd)	Time Sampled (hh:mm)	SOLID	SOLID	SOLID	SOLID
S0200A,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft	Solid	1	4/15/2025	6:00pm				X
S0200B,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft	Solid	1	2025-04-15	6:00pm				X
S0200C,Wall,Drywall And Joint Compound,Loc:0,Elevator Shaft	Solid	1	2025-04-15	6:00pm				X
S0201A,Floor,Terrazzo,Loc:133,Closet	Solid	1	2025-04-15	6:00pm				X
S0201B,Floor,Terrazzo,Loc:132,Boys Washroom	Solid	1	2025-04-15	6:00pm				X
S0201C,Floor,Terrazzo,Loc:132,Boys Washroom	Solid	1	2025-04-15	6:00pm				X
S0202A,Ceiling,Drywall And Joint Compound,Loc:132,Boys Washroom	Solid	1	2025-04-15	6:00pm				X
S0202B,Wall,Drywall And Joint Compound,Loc:130,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0202C,Ceiling,Drywall And Joint Compound,Loc:131,Girls Washroom	Solid	1	2025-04-15	6:00pm				X
S0203A,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom	Solid	1	2025-04-15	6:00pm				X
S0203B,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom	Solid	1	2025-04-15	6:00pm				X
S0203C,Wall,Mastic, Yellow,Residual Mirror Mastic,Loc:132,Boys Washroom	Solid	1	2025-04-15	6:00pm				X
S0204A,Ceiling,Drywall And Joint Compound,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0204B,Wall,Drywall And Joint Compound,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0204C,Ceiling,Drywall And Joint Compound,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0205A,Floor,Terrazzo,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0205B,Floor,Terrazzo,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0205C,Floor,Terrazzo,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0206A,Ceiling,Texture Coat,Loc:123,Vestibule	Solid	1	2025-04-15	6:00pm				X
S0206B,Ceiling,Texture Coat,Loc:123,Vestibule	Solid	1	2025-04-15	6:00pm				X
S0206C,Ceiling,Texture Coat,Loc:123,Vestibule	Solid	1	2025-04-15	6:00pm				X
S0207A,Ceiling,Plaster,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0207B,Ceiling,Plaster,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0207C,Wall,Plaster,Loc:171,Stairwell	Solid	1	2025-04-15	6:00pm				X
S0208A,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Offices	Solid	1	2025-04-15	6:00pm				X
S0208B,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Offices	Solid	1	2025-04-15	6:00pm				X
S0208C,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With White And Grey Fleck,Loc:172,Offices	Solid	1	2025-04-15	6:00pm				X
S0209A,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room	Solid	1	2025-04-15	6:00pm				X
S0209B,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room	Solid	1	2025-04-15	6:00pm				X
S0209C,Ceiling,Acoustic Tile,Mastic,12x12 Pinhole,Loc:161,Stairwell and Room	Solid	1	2025-04-15	6:00pm				X
S0210A,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room	Solid	1	2025-04-15	6:00pm				X
S0210B,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room	Solid	1	2025-04-15	6:00pm				X
S0210C,Floor,Vinyl Floor Tile And Mastic,12x12 Black With White Fleck,Loc:160,Drama Room	Solid	1	2025-04-15	6:00pm				X
S0211A,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room	Solid	1	2025-04-15	6:00pm				X
S0211B,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room	Solid	1	2025-04-15	6:00pm				X
S0211C,Floor,Vinyl Floor Tile And Mastic,12x12 Grey With Grey Fleck,Loc:160,Drama Room	Solid	1	2025-04-15	6:00pm				X
S0212A,Ceiling,Plaster,Textured,Loc:271,Corridor	Solid	1	2025-04-15	6:00pm				X
S0212B,Ceiling,Plaster,Textured,Loc:271,Corridor	Solid	1	2025-04-15	6:00pm				X
S0212C,Ceiling,Plaster,Textured,Loc:271,Corridor	Solid	1	2025-04-15	6:00pm				X
S0213A,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria	Solid	1	2025-04-15	6:00pm				X
S0213B,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria	Solid	1	2025-04-15	6:00pm				X
S0213C,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria	Solid	1	2025-04-15	6:00pm				X
S0213D,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria	Solid	1	2025-04-15	6:00pm				X
S0213E,Ceiling,Drywall And Joint Compound,Loc:251,Cafeteria	Solid	1	2025-04-15	6:00pm				X
S0214A,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Beige Fleck,Loc:251,Cafeteria	Solid	1	2025-04-15	6:00pm				X
S0214B,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Beige Fleck,Loc:251,Cafeteria	Solid	1	2025-04-15	6:00pm				X
S0214C,Floor,Vinyl Floor Tile And Mastic,12x12 Green With White Fleck And Beige With Dark Beige Fleck,Loc:251,Cafeteria	Solid	1	2025-04-15	6:00pm				X
S0215A,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom	Solid	1	2025-04-15	6:00pm				X
S0215B,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom	Solid	1	2025-04-15	6:00pm				X
S0215C,Floor,Vinyl Floor Tile And Mastic,9x9 Green Wave Pattern,Loc:208,Classroom	Solid	1	2025-04-15	6:00pm				X

APPENDIX II-B

Lead Analytical Certificates

Your Project #: 352316.006
Your C.O.C. #: N/A

Attention: Justin Appleby

Pinchin Ltd
151 York Boulevard
Suite 200
Hamilton, ON
CANADA L8R 3M2

Report Date: 2025/04/22
Report #: R8524411
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C542295
Received: 2025/04/16, 10:22

Sample Matrix: Bulk
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Metals in Paint	4	2025/04/22	2025/04/22	CAM SOP-00408	EPA 6010D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: 352316.006
Your C.O.C. #: N/A

Attention: Justin Appleby

Pinchin Ltd
151 York Boulevard
Suite 200
Hamilton, ON
CANADA L8R 3M2

Report Date: 2025/04/22
Report #: R8524411
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C542295
Received: 2025/04/16, 10:22

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Nilushi Mahathantila, Project Manager
Email: Nilushi.Mahathantila@bureauveritas.com
Phone# (905) 817-5700

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Bureau Veritas Job #: C542295
Report Date: 2025/04/22

Pinchin Ltd
Client Project #: 352316.006
Sampler Initials: JA

ELEMENTS BY ATOMIC SPECTROSCOPY (BULK)

Bureau Veritas ID		APYK19		APYK20		APYK21		
Sampling Date		2025/04/15 18:00		2025/04/15 18:00		2025/04/15 18:00		
COC Number		N/A		N/A		N/A		
	UNITS	L0001, WALL,MASONRY,WHITE, LOC:133,CLOSET	RDL	L0002, WALL,DRYWALL AND JOINT COMPOUND,WHITE,LOC:130.STAIRWELL	RDL	L0003, WALL,MASONRY,WHITE,LOC:171 ,STAIRWELL	RDL	QC Batch
Metals								
Lead (Pb)	%	0.0033	0.00013	0.0048	0.00010	0.0037	0.00020	9913546

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas ID		APYK22		
Sampling Date		2025/04/15 18:00		
COC Number		N/A		
	UNITS	L0004, CEILING,DRYWALL AND JOINT COMPOUND,WHITE,LOC:171,STAIRWELL	RDL	QC Batch
Metals				
Lead (Pb)	%	0.0076	0.00022	9913546

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Bureau Veritas Job #: C542295
Report Date: 2025/04/22

Pinchin Ltd
Client Project #: 352316.006
Sampler Initials: JA

GENERAL COMMENTS

Sample APYK19 [L0001, WALL,MASONRY,WHITE,LOC:133,CLOSET] : Metals Analysis: Due to limited amount of sample available for analysis, a smaller than usual portion of the sample was used. Detection limits were adjusted accordingly.

Sample APYK21 [L0003, WALL,MASONRY,WHITE,LOC:171,STAIRWELL] : Metals Analysis: Due to limited amount of sample available for analysis, a smaller than usual portion of the sample was used. Detection limits were adjusted accordingly.

Sample APYK22 [L0004, CEILING,DRYWALL AND JOINT COMPOUND,WHITE,LOC:171,STAIRWELL] : Metals Analysis: Due to limited amount of sample available for analysis, a smaller than usual portion of the sample was used. Detection limits were adjusted accordingly.

Results relate only to the items tested.

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Bureau Veritas Job #: C542295
Report Date: 2025/04/22

Pinchin Ltd
Client Project #: 352316.006
Sampler Initials: JA

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
9913546	MEN	Matrix Spike	Lead (Pb)	2025/04/22		92	%	75 - 125
9913546	MEN	QC Standard	Lead (Pb)	2025/04/22		103	%	75 - 125
9913546	MEN	Method Blank	Lead (Pb)	2025/04/22	<0.00010		%	
9913546	MEN	RPD	Lead (Pb)	2025/04/22	15		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

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Client Project #: 352316.006
Sampler Initials: JA

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Louise Harding, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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C542295
2025/04/16 10:22

BUREAU VERITAS

6740 Campobello Road, Mississauga, Ontario L5N 2L8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAM FCD-01191/6

CHAIN OF CUSTODY RECORD

Invoice Information	Report Information (if differs from invoice)	Project Information (where applicable)	Turnaround Time (TAT) Required
Company Name: Pinchin Ltd.	Company Name:	Quotation #:	[X] Regular TAT (5-7 days) Most analyses
Contact Name: Justin Appleby / Damian Palus	Contact Name:	P.O. #/ AFE#:	PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS
Address:	Address:	Project #: 352316.006	Rush TAT (Surcharges will be applied)
Phone: Fax:	Phone: Fax:	Site Location:	[ ] 1 Day [ ] 2 Days [ ] 3-4 Days
Email: jappleby@pinchin.com / dpalus@pinchin.com	Email:	Site #:	Date Required: April 24th 2025
MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS DRINKING WATER CHAIN OF CUSTODY		Site Location Province: ____ ON Sampled By:	Rush Confirmation #:

Regulation 153	Other Regulations
[ ] Table 1 [ ] Res/Park [ ] Med/ Fine	[ ] CCME [ ] Sanitary Sewer Bylaw
[ ] Table 2 [ ] Ind/Comm [ ] Coarse	[ ] MISA [ ] Storm Sewer Bylaw
[ ] Table 3 [ ] Agri/ Other	[ ] PWQO Region
[ ] Table ____	[ ] Other (Specify)
FOR RSC (PLEASE CIRCLE) Y / N	[ ] REG 558 (MIN. 3 DAY TAT REQUIRED)
	[ ] REG 406 Table

Include Criteria on Certificate of Analysis: Y / N

SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMS METALS	REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)	Lead (Pb) in Paints	PCBs	HOLD- DO NOT ANALYZE
L0001, Wall, Masonry, White,Loc:133,Closet	(2025/04/15)	6:00pm	BULK									X		
L0002, Wall, Drywall and joint compound, White,Loc:130,Sta	(2025/04/15)	6:00pm	BULK									X		
L0003, Wall, Masonry, White,Loc:171,Stairwell	(2025/04/15)	6:00pm	BULK									X		
L0004, Ceiling, Drywall and joint compound, White,Loc:171,S	(2025/04/15)	6:00pm	BULK									X		

LABORATORY USE ONLY		
CUSTODY SEAL Y / N		COOLER TEMPERATURES
Present	Intact	
~	W	

COOLING MEDIA PRESENT: Y / N

COMMENTS

RELINQUISHED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)	DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV JOB #
				2025/04/16	10:22	

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas' standard Terms and Conditions. Signing of this Chain of Cu acceptance of our terms available at https://www.bvna.com/coc-terms-and-conditions

NONT-2025-04-3709

APPENDIX II-C

PCB Analytical Certificates

AEVITAS INC. (AYR)
ANALYTICAL CHEMISTRY DEPARTMENT
75 WANLESS COURT, AYR, ONTARIO, N0B 1E0, CANADA
WWW.AEVITAS.CA

Certificate of Analysis

Justin Appleby / Damian Palus

Pinchin Ltd. (Hamilton)
151 York Blvd., Suite 200, Hamilton, ON L8R 3L4

Date of Issue: Apr 25, 2025

Report Description: ***2 solid samples were submitted for the following chemical analysis***

Project Name:		**Date Sampled:**	
Project No.:	352316.006	**Date Tested:**	Apr 25, 2025
Site Location:		**Sampled by:**	

Report Number: 25-0464

No.	Analyte	Result	Units	MDL	Comments	Technique / Test Method
1	*Sample ID.:* ***P0001 - Caulking, Grey, Loc: 300, 1955 Roof***					
	PCBs in Solid	**<0.2**	mg/Kg	0.2		LAB-M06 (EPA 3550C/8082A modified)
2	*Sample ID.:* ***P0002 - Caulking, Grey, Loc: 300, 1955 Roof***					
	PCBs in Solid	**<0.2**	mg/Kg	0.2		LAB-M06 (EPA 3550C/8082A modified)

Results apply to the sample(s) as received.

Approved By:

Son C.H. Le, *(Chem.)*
Lab Manager
Phone: (519) 740-1333 Ext.: 1030
Fax: (519) 740-2320
Email: SonLe@aevitas.ca

The Analytical Chemistry Laboratory of Aevitas Inc. (Ayr) is accredited for specific tests in accordance with the recognized International Standard ISO/IEC 17025:2017, by the Canadian Association for Laboratory Accreditation (CALA) Inc. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017). The laboratory quality management system of Aevitas Inc. (Ayr) also operates in accordance with the principles of ISO 9001.

All Analytical data is subject to uncertainty which, may vary with sample matrices, sample preparation techniques and instrumental parameters. As a general guideline, uncertainty may be expressed as approximately +/- 50% of the reported value at or near the Method Detection Limit (MDL) and +/-10% or less, of the reported result that is greater than 10 times the MDL. Method Detection Limits are defined as approximately 3 times the standard deviation value (at 99% confidence level), which is obtained from replicate analysis of a low-level standard as per the Ontario MOE - MISA Protocol for the Sampling and Analysis of Industrial / Municipal Wastewater (2016). MDL determination is based on undiluted samples with relatively low matrix interferences. Where dilutions are required, the reported MDL value will be scaled proportionally.

All testing procedures follow strict guidelines and quality assurance / quality control (QA/QC) protocols. QA/QC data is available for review at any time upon client's request.

APPENDIX III
Methodology

1.0 GENERAL

An investigation was conducted to identify the type of Hazardous Building Materials incorporated in the structure and its finishes.

Information regarding the location and condition of hazardous building materials encountered and visually estimated quantities were recorded. The locations of any samples collected were recorded on small-scale plans. As-built drawings and previous reports were referenced where provided.

Sample collection was conducted in accordance with our Standard Operating Procedures.

1.1 Asbestos

The investigation for asbestos included friable and non-friable asbestos-containing materials (ACM). A friable material is a material that when dry can be crumbled, pulverized or powdered by hand pressure, or a material that has already become crushed, pulverized, or powdered.

A separate set of samples was collected of each type of homogenous material suspected to contain asbestos. A homogenous material is defined by the US EPA as material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type or formulation of material. The homogeneous materials were determined by visual examination and available information on the phases of construction and prior renovations.

Samples were collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy was also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM. In some cases, manufactured products such as asbestos cement pipe were visually identified without sample confirmation.

The asbestos analysis of select materials was completed using a stop-positive approach. Only one result meeting the regulated criteria was required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stopped analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material were analyzed if no asbestos is detected. In some cases, all samples were analyzed in the sample set regardless of result.

The analysis was performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, July 1993.

Analytical results were compared to the following criteria:

Jurisdiction*	Friable	Non-Friable
BC	0.5%[1]	0.5%
Alberta	Any Amount[2]	Any Amount[2]
Saskatchewan	>0.5%[1]	>1%
Manitoba	0.1%[1]	1%
Ontario	**0.5%**	**0.5%**
Nova Scotia	0.5%[1]	0.5%
New Brunswick	1%	1%
Prince Edward Island	1%	1%
Newfoundland and Labrador	1%	1%
Yukon	1%	1%
Nunavut	1%	1%
Northwest Territories	1%	1%
Federal	1%	1%

* If there is a conflict between federal and provincial criteria, the more stringent will apply.

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation. Additionally, these terms are used for materials which historically are known to not include asbestos in their manufacturing.

Asbestos materials were evaluated in order to make recommendations regarding any remedial work. The priority for remedial action was based on several factors:

- Friability (friable or non-friable)
- Condition (good, fair, poor, debris)
- Accessibility (ranking from accessible to all building users to inaccessible)
- Visibility (whether the material is obscured by other building components)
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition)

[1] Or any amount if vermiculite
[2] The Government of Alberta in their guideline document entitled the “Alberta Asbestos Abatement Manual” (August 2019), defines an Asbestos-Containing Material as a product or building material that contains asbestos in any quantity or percentage.

1.2 Lead

Samples of distinctive paint finishes, and surface coatings present in more than a limited application, where removal of the paint is possible were collected. The samples were collected by scraping the painted finish to include base and covering applications.

Analysis for lead in paints or surface coatings was performed in accordance with EPA Method No. 3050B/Method No. 7420; flame atomic absorption.

Analytical results were compared to the following criteria.

Jurisdiction*	Units (%)	Units (ppm) / (mg/kg)
British Columbia**	0.009	90
Alberta	0.009	90
Saskatchewan	0.009	90
Manitoba	0.009	90
Ontario	**0.009**	**90**
Nova Scotia	0.009	90
New Brunswick	0.009	90
Prince Edward Island	0.009	90
Newfoundland	0.009	90
Yukon	0.009	90
Nunavut	0.1	1,000
Northwest Territories	0.1	1,000
Federal	0.009	90

* If there is a conflict between federal and provincial criteria, the more stringent will apply.

Other lead building products (e.g. batteries, lead sheeting, flashing) were identified by visual observation only.

1.3 Silica

Building materials known to contain crystalline silica (e.g. concrete, cement, tile, brick, masonry, mortar) were identified by visual inspection only. Pinchin did not perform sampling of these materials for laboratory analysis of crystalline silica content.

1.4 Mercury

Building materials, products or equipment (e.g. thermostats, barometers, pressure gauges, lamp tubes), suspected to contain mercury were identified by visual inspection only. Dismantling of equipment suspected of containing mercury was not performed. Sampling of these materials for laboratory analysis of mercury content was not performed.

1.5 Polychlorinated Biphenyls

The potential for light ballast and oil filled transformers to contain PCBs was based on the age of the building, a review of maintenance records, and examination of labels or nameplates on equipment, where present and accessible. The information was compared to known ban dates of PCBs and Environment Canada publications.

Dry type transformers were presumed to be free of dielectric fluids and hence non-PCB.

Fluids (mineral oil, hydraulic, Aroclor or Askarel) in transformers or other equipment were not sampled for PCB content.

Caulking, sealants, or paints were sampled and submitted for PCB analysis following EPA 3550C/8082A.

Sample results are compared to the criteria of 50 mg/kg for solids as stated in the PCB Regulation, SOR/2008-273.

1.6 Visible Mould

The presence of mould or water damage was determined by visual inspection of exposed building surfaces. If any mould growth or water damage was concealed within building cavities it was not addressed in this assessment.

Template: Methodology for Hazardous Building Materials Assessment, HAZ, November 13 2024

APPENDIX IV

Location Summary Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

LOCATIONS LIST

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON**
Building Name: T.A. Blakelock Secondary School
Survey Date: **Last Re-Assessment:**
Building Phases: A: 1955 , B: 1959 , C: 1969 , D: 1989

Location No.	Name or Description	Area ft²	Floor No.	Bldg. Phase	Notes
0	Elevator Shaft	100		A	
123	Vestibule, room no. 123	800	1	A	
128	Vestibule, room no. 128	500	1	C	
129	Stairwell, room no. 129	300	1	C	
130	Stairwell, room no. 130	180	1	C	
131	Girls Washroom, room no. 131	200	1	C	
132	Boys Washroom, room no. 132	200	1	C	
133	Closet, room no. 133	50	1	C	
134	Library, room no. 134-134A-134B-134C-134D	2500	1	C	
144	Classroom and Closets, room no. 144-144A-144B	2000	1	C	
159	Offices, room no. 159-159A-159B-159C	1000	1	A	
160	Drama Room, room no. 160	800	1	A	
161	Stairwell and Room, room no. 107	400	1	A	
163	Corridor, room no. 163	1600		A	Entire corridor was not assessed. Only small section near rooms 159 and 160.
170	Corridor, room no. 170	800	1	A	
171	Stairwell, room no. 171	800	1	A	
172	Offices, room no. 172-172A-172B	1000	1	D	
202	Classroom, room no. W202	800	3	B	
208	Classroom, room no. W208	800	3	B	
209	Corridor, room no. 209	400	2	D	
233	Stairwell, room no. 233	800	2	A	
235	Offices, room no. 235-235A-235B-235C-235D-235E-235F-235G-235H-235I-2	1000	2	A	
251	Cafeteria, room no. 200	2000	2	A	
253	Girls Washroom, room no. 253	600	2	B	
268	Boys Washroom, room no. 268-268A	650	2	B	No access to 268A.
271	Corridor, room no. 271	200	2	B	
272	Corridor, room no. 200	200	1	A	
280	Offices, room no. 280A-280B-280C-280D-280E-280F-280G-280H-280I	1500	2	D	
300	Roof	0		A	

APPENDIX V

Hazardous Materials Summary Report / Sample Log

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

HAZARDOUS MATERIALS SUMMARY / SAMPLE LOG

PINCHIN
1.855.PINCHIN www.pinchin.com

Client:Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School** **Survey Date:**

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
Asbestos	V0012	Floor | | Mastic, Yellow |	134,235,280	A,C,D	0	0	0	100	None Detected	No	
Asbestos	V0013	Wall | | Rubber | Black Baseboards	134,144	C	0	0	0	100	None Detected	No	
Asbestos	V0014	Wall | | Mastic, Yellow | Black Baseboards	134,144	C	0	0	0	100	None Detected	No	
Asbestos	V0015	Wall | | Rubber | Grey Baseboards	170,172,251	A,D	0	0	0	100	None Detected	No	
Asbestos	V0016	Wall | | Mastic, Brown | Grey Baseboards	170,172,251	A,D	0	0	0	100	None Detected	No	
Asbestos	V0020	Wall | | Grout | 4x4 White	132,268	B,C	0	0	0	100	None Detected	No	
Asbestos	V0021	Wall | | Thin-set | 4x4 White	132,268	B,C	0	0	0	100	None Detected	No	
Asbestos	V0029	Wall | | Mortar | Brick	128	C	0	0	0	100	None Detected	No	
Asbestos	V0042	Wall | | Mortar | Concrete Block	129,130,131,132,133,134,144,251,272	A,C	0	0	0	100	Chrysotile	No	
Asbestos	V0044	Wall | | Paint | Concrete Block	123,159,163,171,233	A	0	0	0	100	None Detected	No	
Asbestos	V0045	Wall | | Mortar | Ceramic Block Mortar	123,159,163,171,233,251,272	A	0	0	0	100	None Detected	No	
Asbestos	V0047	Wall | | Paint | Concrete Block	128,129,130,131,132,133,134,144,251,272	A,C	0	0	0	100	None Detected	No	
Asbestos	V0071	Wall | | Mortar | Concrete Block	123,159,163,171,233	A	0	0	0	100	None Detected	No	
Asbestos	V0089	Wall | | Drywall And Joint Compound |	133	C	0	200	0	0	Chrysotile	Yes	NF
Asbestos	V0091	Ceiling | | Drywall And Joint Compound |	253	B	0	600	0	0	None Detected	No	
Asbestos	V0099	Ceiling | Acoustic Tile | Ceiling Tiles (glue-on) | 12x12 Small And Large Pinhole	160,161	A	0	700	0	0	None Detected	No	
Asbestos	V0100	Ceiling | Acoustic Tile | Ceiling Tile (mechanically Fastened) | 12x12 Small And Large Pinhole	235	A	0	200	0	0	Amosite	Yes	PF
Asbestos	V0111	Piping | | Parging Cement |	160,161,163,171	A	0	26	4	0	Chrysotile	Yes	F
Asbestos	V0114	Piping | Rain Water Leader | Parging Cement |	161,163,171	A	0	0	11	0	Chrysotile	Yes	F
Asbestos	V0117	Piping | Rain Water Leader | Parging Cement |	161,163,171	A	0	0	20	0	Chrysotile	Yes	F
Asbestos	V0146	Wall | Acoustic Tile | Ceiling Tiles (glue-on) | 12x12 Uniform Holes	202,208	B	0	0	0	100	None Detected	No	
Asbestos	S0200 ABC	Wall | | Drywall And Joint Compound |	0	A	0	150	0	0	None Detected	No	
Asbestos	S0201 ABC	Floor | | Terrazzo |	128,129,130,131,132,133	C	0	1630	0	0	None Detected	No	
Asbestos	S0202 ABC	Ceiling, Wall, Ceiling, Wall | | Drywall And Joint Compound |	130,131,132,134,144	C	0	1800	0	0	Chrysotile	Yes	NF
Asbestos	S0203 ABC	Wall | | Mastic, Yellow | Residual Mirror Mastic	131,132	C	0	4	0	0	Chrysotile	Yes	NF
Asbestos	S0204 ABC	Ceiling, Wall, Ceiling, Wall | | Drywall And Joint Compound |	123,163,171,233,235	A	0	2600	0	0	None Detected	No	
Asbestos	S0205 ABC	Floor | | Terrazzo |	123,159,160,161,163,171,209,233,253,268,271 272	A,B,D	0	7450	0	0	None Detected	No	
Asbestos	S0206 ABC	Ceiling | | Texture Coat |	123	A	0	200	0	0	None Detected	No	
Asbestos	S0207 ABC	Ceiling, Wall, Ceiling, Wall | | Plaster |	123,160,161,171	A	0	800	0	0	None Detected	No	
Asbestos	S0208 ABC	Floor | | Vinyl Floor Tile And Mastic | 12x12 Grey With White And Grey Fleck	172	D	0	1000	0	0	None Detected	No	
Asbestos	S0209 ABC	Ceiling | Acoustic Tile | Mastic | 12x12 Pinhole	160,161,272	A	0	0	0	100	None Detected	No	
Asbestos	S0210 ABC	Floor | | Vinyl Floor Tile And Mastic | 12x12 Black	160	A	0	600	0	0	None Detected	No	

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
		With White Fleck									
Asbestos	S0211 ABC	Floor | | Vinyl Floor Tile And Mastic | 12x12 Grey With Grey Fleck	160	A	0	200	0	0	None Detected	No	
Asbestos	S0212 ABC	Ceiling | | Plaster | Textured	271,272	A,B	0	100	0	0	None Detected	No	
Asbestos	S0213 ABCDE	Ceiling, Wall | | Drywall And Joint Compound |	160,251,272	A	0	2400	0	0	Chrysotile	Yes	NF
Asbestos	S0214 ABC	Floor | | Vinyl Floor Tile And Mastic | 12x12 Green With White Fleck And Beige With Dark Beige Fleck	251	A	0	2000	0	0	None Detected	No	
Asbestos	S0215 ABC	Floor | | Vinyl Floor Tile And Mastic | 9x9 Green Wave Pattern	202,208	B	0	1600	0	0	None Detected	No	
Asbestos	S0216 ABC	Other | | Caulking | Grey	300	A	40	0	0	0	None Detected	No	
Asbestos	S0217 ABC	Other | | Caulking | Grey	300	A	60	0	0	0	Chrysotile	Yes	NF
Asbestos	S0218 ABC	Ceiling, Wall | | Drywall And Joint Compound |	172,209,280	D	0	400	0	100	None Detected	No	
Asbestos	S0219 ABC	Floor | | Thin-set | 1x1 Grey Square Pattern	132,268	B,C	0	40	0	0	None Detected	No	
Asbestos	S0220 ABC	Ceiling | Acoustic Tile | Mastic |	251	A	0	0	0	100	Chrysotile	Yes	NF
Asbestos	V9500	Other | Sink | Mastic, Gold |	280	D	0	0	1	0	Presumed Asbestos	Yes	NF
Asbestos	V9500	Other | | Roofing Material |	300	A	0	0	0	100	Presumed Asbestos	Yes	NF
Asbestos	V9500	Wall | Acoustic Tile | Mastic | Behind Chalkboards And Tackboards, 12x12 Uniform Holes	160,202,208	A,B	0	0	0	100	Presumed Asbestos	Yes	NF
Asbestos	V0000	Ceiling | Acoustic Tile | Ceiling Tile (mechanically Fastened) | 12x12 Uniform Pinhole	123	A	0	0	0	0	Non Asbestos	No	
Asbestos	V0000	Ceiling | Acoustic Tile | Ceiling Tiles (lay-in) | 24x48 Pinhole With Fleck	130,131,133,134,144,251,271,272	A,B,C	0	0	0	0	Non Asbestos	No	
Asbestos	V0000	Ceiling | Acoustic Tile | Ceiling Tiles (lay-in) | 24x48 Pinhole With Texture	128,129,271	B,C	0	0	0	0	Non Asbestos	No	
Asbestos	V0000	Other | | Roofing Material |	300	A	0	0	0	0	Non Asbestos	No	
Paint	L0001	Wall | Masonry | White	128,129,130,131,132,133,134,144	C	0	14800	0	0		No	-
Paint	L0002	Wall | Drywall And Joint Compound | White	130,131,132,134,144,251,253	A,B,C	0	3600	0	0		No	-
Paint	L0003	Wall | Masonry | White	123,159,160,161,163,170,171,172,209,233,280	A,D	0	12500	0	0		No	-
Paint	L0004	Ceiling | Drywall And Joint Compound | White	123,159,163,170,171,209,233,235,280	A,D	0	7900	0	0		No	-
Paint	V9500	Structure | Metal | Red primer, White primer	134,144	C	0	0	0	100	Presumed Lead	Yes	-
PCB	P0001	Caulking |	300	A	40	0	0	0	-	No	-
PCB	P0002	Caulking |	300	A	60	0	0	0	-	No	-
PCB	V9500	Light Ballasts	123,128,129,130,131,132,133,134,144,159,160 161,163,170,171,172,202,208,233,235,251,253 268,271,272,280	A,B,C,D	0	0	0	100	Presumed PCB	Yes	-
Hg	V9500	Light Fixture	123,128,129,130,131,132,133,160,161,163,170	A,B,C,D	0	0	0	100	Presumed Hg	Yes	-

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
			171,172,209,233,235,251,253,268,271,272,280								
Hg	V0000	Light Fixture	134,144,159	A,C	0	0	0	100	-	No	-

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material visually similar to numbered sample collected
V0000	Known non Hazardous Material
V9000	Material is visually identified as Hazardous Material
V9500	Material is presumed to be Hazardous Material
[Loc. No.]	Abated Material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage

NF	Non Friable material.
F	Friable material
PF	Potentially Friable material

APPENDIX VI

HMIS All Data Report

HMIS
HAZARDOUS MATERIALS INVENTORY SYSTEM

ALL DATA REPORT

PINCHIN
1.855.PINCHIN www.pinchin.com

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #0 : Elevator Shaft **Floor:** **Room #:** **Area (sqft): 100**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Not Found															
Floor		Concrete (poured)			A	Y										
Mechanical Equipment		Not Insulated			A	Y										
Piping		Not Insulated			A	Y										
Structure	Deck	Metal			C	Y										
Wall		Drywall and joint compound			A	Y		150			SF	S0200ABC	None Detected	N.D.	None	
Wall		Masonry			A	Y										
Wall		Vermiculite Investigation			A	Y										

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #123 : Vestibule **Floor: 1** **Room #: 123** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		200			SF	V0204	None Detected	N.D.	None	
Ceiling		Drywall and joint compound			C	Y						V0204	None Detected	N.D.	None	
Ceiling		Plaster			C	Y		200			SF	V0207	None Detected	N.D.	None	
Ceiling		Texture Coat			C	Y		200			SF	S0206ABC	None Detected	N.D.	None	
Ceiling[1]	Acoustic Tile	Ceiling Tile (mechanically fastened), 12x12 Uniform pinhole			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			C	Y										
Floor		Terrazzo			A	Y		800			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Structure		Concrete (precast)			C	Y										
Wall		Drywall and joint compound			C	Y		800				V0204	None Detected	N.D.	None	
Wall		Plaster			C	Y		100			SF	V0207	None Detected	N.D.	None	
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0044	None Detected	N.D.	None	
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0045	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0071	None Detected	N.D.	None	

1 - Wood fibre

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #123 : Vestibule **Floor: 1** **Room #: 123** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT							
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1400		SF	V0003	White	Pb: 0.0037 %	No

Wall	Drywall and joint compound	200		SF	V0004	White	Pb: 0.0076 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #123 : Vestibule **Floor: 1** **Room #: 123** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	**Quantity**	**Unit**	**Sample**	**Hazard**
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #123 : Vestibule **Floor: 1** **Room #: 123** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	**Good**	**Poor**	**Unit**	**Sample**	**Sample Description**	**Amount**	**PCB**
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #128 : Vestibule **Floor: 1** **Room #: 128** **Area (sqft): 500**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling[1]	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with texture			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			C	N										
Floor		Terrazzo			A	Y		500			SF	V0201	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure	Deck	Metal			C	N										
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mortar, Brick			A	Y		100			%	V0029	None Detected	N.D.	None	

1 - 2000s

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #128 : Vestibule **Floor: 1** **Room #: 128** **Area (sqft): 500**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1000		SF	V0001	White	Pb: 0.0033 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #128 : Vestibule **Floor: 1** **Room #: 128** **Area (sqft): 500**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #128 : Vestibule **Floor: 1** **Room #: 128** **Area (sqft): 500**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #129 : Stairwell **Floor: 1** **Room #: 129** **Area (sqft): 300**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling[1]	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with texture			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			C	N										
Floor		Terrazzo			A	Y		300			SF	V0201	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure	Deck	Metal			C	N										
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	

1 - 2000s

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #129 : Stairwell **Floor: 1** **Room #: 129** **Area (sqft): 300**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1000		SF	V0001	White	Pb: 0.0033 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #129 : Stairwell **Floor: 1** **Room #: 129** **Area (sqft): 300**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #129 : Stairwell **Floor: 1** **Room #: 129** **Area (sqft): 300**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #130 : Stairwell **Floor: 1** **Room #: 130** **Area (sqft): 180**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling[1]	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with fleck			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			C	N										
Floor		Terrazzo			A	Y		180			SF	V0201	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure	Deck	Metal			C	N										
Wall		Drywall and joint compound			C	Y		200(7)			SF	S0202B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	

1 - 2000s

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #130 : Stairwell **Floor: 1** **Room #: 130** **Area (sqft): 180**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1000		SF	V0001	White	Pb: 0.0033 %	No
Wall	Drywall and joint compound	200		SF	L0002	White	Pb: 0.0048 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #130 : Stairwell **Floor: 1** **Room #: 130** **Area (sqft): 180**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #130 : Stairwell **Floor: 1** **Room #: 130** **Area (sqft): 180**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #131 : Girls Washroom **Floor: 1** **Room #: 131** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		200(7)			SF	S0202C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Ceiling[1]	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with fleck			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			D	N										
Duct		Not Insulated			C	N										
Floor		Terrazzo			A	Y		200			SF	V0201	None Detected	N.D.	None	
Floor		Terrazzo			A	Y		200			SF	V0201	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Mechanical Equipment	Not Found															
Piping		Fibreglass			D	N										
Piping		Fibreglass			C	N										
Structure	Deck	Metal			D	N										
Structure	Deck	Metal			C	N										
Wall		Drywall and joint compound			C	Y		200(7)			SF	V0202	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mastic, Yellow, Residual mirror mastic			A	Y		2(7)			SF	V0203	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	
Wall		Vermiculite Investigation			A	Y										

1 - 2000s

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #131 : Girls Washroom **Floor: 1** **Room #: 131** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	400		SF	V0001	White	Pb: 0.0033 %	No
Wall	Masonry	1000		SF	V0001	White	Pb: 0.0033 %	No
Ceiling	Drywall and joint compound	200		SF	V0002	White	Pb: 0.0048 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #131 : Girls Washroom **Floor: 1** **Room #: 131** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #131 : Girls Washroom **Floor: 1** **Room #: 131** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #132 : Boys Washroom **Floor: 1** **Room #: 132** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		200(7)			SF	S0202A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Duct		Not Insulated			D	N										
Floor		Terrazzo			A	Y		200			SF	S0201BC	None Detected	N.D.	None	
Floor		Thin-set, 1x1 grey square pattern			D	N		20			SF	S0219AB	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			D	N										
Structure	Deck	Metal			D	N										
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mastic, Yellow, Residual mirror mastic			A	Y		2(7)			SF	S0203ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	
Wall		Grout, 4x4 white		Ceramic Tiles	D	N		100			%	V0020	None Detected	N.D.	None	
Wall		Thin-set, 4x4 white		Ceramic Tiles	D	N		100			%	V0021	None Detected	N.D.	None	
Wall		Vermiculite Investigation			A	Y										

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #132 : Boys Washroom **Floor: 1** **Room #: 132** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	400		SF	V0001	White	Pb: 0.0033 %	No
Ceiling	Drywall and joint compound	200		SF	V0002	White	Pb: 0.0048 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #132 : Boys Washroom **Floor: 1** **Room #: 132** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #132 : Boys Washroom **Floor: 1** **Room #: 132** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #133 : Closet **Floor: 1** **Room #: 133** **Area (sqft): 50**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling[1]	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with fleck			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			C	N										
Floor		Terrazzo			A	Y		50			SF	S0201A	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure	Deck	Metal			C	N										
Wall		Drywall and joint compound			C	Y		200(7)			SF	V0089	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	

1 - 2000s

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #133 : Closet **Floor: 1** **Room #: 133** **Area (sqft): 50**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1000		SF	L0001	White	Pb: 0.0033 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #133 : Closet **Floor: 1** **Room #: 133** **Area (sqft): 50**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #133 : Closet **Floor: 1** **Room #: 133** **Area (sqft): 50**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #134 : Library **Floor: 1** **Room #: 134-134A-134B-134C-134D** **Area (sqft): 2500**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		400(7)			SF	V0202	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Ceiling[1]	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with fleck			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			C	N										
Floor		Concrete (poured)			A	Y										
Floor		Carpet			A	Y										
Floor		Mastic, Yellow		Carpet	D	N		100			%	V0012	None Detected	N.D.	None	
Floor		Laminate			A	Y										
Mechanical Equipment	Not Found															
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure	Deck	Metal			C	Y										
Wall		Drywall and joint compound			C	Y		200(7)			SF	V0202	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mastic, Yellow, Black baseboards		Rubber	D	N		100			%	V0014	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	
Wall		Rubber, Black baseboards			A	Y		100			%	V0013	None Detected	N.D.	None	

1 - 2000s

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #134 : Library **Floor: 1** **Room #: 134-134A-134B-134C-134D** **Area (sqft): 2500**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	5000		SF	V0001	White	Pb: 0.0033 %	No
Structure	Metal	100		%	V9500	Red primer		Presumed Lead
Ceiling	Drywall and joint compound	800		SF	V0002	White	Pb: 0.0048 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #134 : Library **Floor: 1** **Room #: 134-134A-134B-134C-134D** **Area (sqft): 2500**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture[1]	100	%	V0000	

1 - LEDs

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #134 : Library **Floor: 1** **Room #: 134-134A-134B-134C-134D** **Area (sqft): 2500**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #144 : Classroom and Closets **Floor: 1** **Room #: 144-144A-144B** **Area (sqft): 2000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		400(7)			SF	V0202	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Ceiling[1]	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with fleck			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			C	Y										
Floor		Concrete (poured)			A	Y										
Floor		Laminate			A	Y										
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Piping[2]	Not Accessible															
Structure	Deck	Metal			C	Y										
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mastic, Yellow, Black baseboards		Rubber	D	N		100			%	V0014	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	
Wall		Rubber, Black baseboards			A	Y		100			%	V0013	None Detected	N.D.	None	

1 - 2000s
2 - In 144A due to height restrictions.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #144 : Classroom and Closets **Floor: 1** **Room #: 144-144A-144B** **Area (sqft): 2000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	4000		SF	V0001	White	Pb: 0.0033 %	No
Structure	Metal	100		%	V9500	Red primer		Presumed Lead
Structure	Metal	100		%	V9500	White primer		Presumed Lead
Ceiling	Drywall and joint compound	400		SF	V0002	White	Pb: 0.0048 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #144 : Classroom and Closets **Floor: 1** **Room #: 144-144A-144B** **Area (sqft): 2000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture[1]	100	%	V0000	

1 - LEDs

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #144 : Classroom and Closets **Floor: 1** **Room #: 144-144A-144B** **Area (sqft): 2000**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #159 : Offices **Floor: 1** **Room #: 159-159A-159B-159C** **Area (sqft): 1000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Not Found															
Duct		Fibreglass			C	Y										
Floor		Terrazzo			A	Y		1000			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Structure		Concrete (precast)			C	Y										
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0044	None Detected	N.D.	None	
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0045	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0071	None Detected	N.D.	None	

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #159 : Offices **Floor: 1** **Room #: 159-159A-159B-159C** **Area (sqft): 1000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	400		SF	V0003	White	Pb: 0.0037 %	No
Wall	Drywall and joint compound	800		SF	V0004	White	Pb: 0.0076 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #159 : Offices **Floor: 1** **Room #: 159-159A-159B-159C** **Area (sqft): 1000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture[1]	100	%	V0000	

1 - LEDs

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #159 : Offices **Floor: 1** **Room #: 159-159A-159B-159C** **Area (sqft): 1000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #160 : Drama Room **Floor: 1** **Room #: 160** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Acoustic Tile	Ceiling tiles (glue-on), 12x12 pinhole			C	Y		350			SF	V0099	None Detected	N.D.	None	
Ceiling	Acoustic Tile	Mastic, 12x12 pinhole		Ceiling tiles (glue-on)	C	N		100			%	V0209	None Detected	N.D.	None	
Duct		Not Insulated			C	Y										
Floor		Vinyl Floor Tile and Mastic, 12x12 black with white fleck			A	Y		600			SF	S0210ABC	None Detected	N.D.	None	
Floor		Vinyl Floor Tile and Mastic, 12x12 Grey with Grey fleck			A	Y		200			SF	S0211ABC	None Detected	N.D.	None	
Floor		Terrazzo			A	Y		800			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Piping		Parging Cement	Fitting		C	Y		4(7)			EA	V0111	Chrysotile	>75%	Confirmed Asbestos	F
Structure		Concrete (precast)			C	Y										
Wall		Concrete (poured)			A	Y										
Wall		Drywall and joint compound			C	Y		200(7)			SF	V0213	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Plaster			C	Y		100			SF	V0207	None Detected	N.D.	None	
Wall		Mastic, Behind chalkboards and tackboards			D	N		100(7)			%	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall		Vermiculite Investigation			A	Y										

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #160 : Drama Room **Floor: 1** **Room #: 160** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT

System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	800		SF	V0003	White	Pb: 0.0037 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #160 : Drama Room **Floor: 1** **Room #: 160** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY

Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #160 : Drama Room **Floor: 1** **Room #: 160** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	**Good**	**Poor**	**Unit**	**Sample**	**Sample Description**	**Amount**	**PCB**
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #161 : Stairwell and Room **Floor: 1** **Room #: 107** **Area (sqft): 400**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Acoustic Tile	Ceiling tiles (glue-on), 12x12 small and large pinhole			C	Y		350			SF	V0099	None Detected	N.D.	None	
Ceiling	Acoustic Tile	Mastic, 12x12 pinhole		Ceiling tiles (glue-on)	C	N		100			%	S0209ABC	None Detected	N.D.	None	
Duct		Not Insulated			C	Y										
Floor		Terrazzo			A	Y		400			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Piping		Parging Cement	Fitting		C	Y		22(7)			SF	V0111	Chrysotile	>75%	Confirmed Asbestos	F
Piping	Rain Water Leader	Parging Cement	Fitting		C	Y		1(7)			EA	V0114	Chrysotile	25-50%	Confirmed Asbestos	F
Piping	Rain Water Leader	Parging Cement	Hanger (support)		C	Y		2(7)			EA	V0117	Chrysotile	50-75%	Confirmed Asbestos	F
Structure		Concrete (precast)			C	Y										
Wall		Concrete (poured)			A	Y										
Wall		Plaster			C	Y		100			SF	V0207	None Detected	N.D.	None	
Wall		Vermiculite Investigation			A	Y										

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #161 : Stairwell and Room **Floor: 1** **Room #: 107** **Area (sqft): 400**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	800		SF	V0003	White	Pb: 0.0037 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #161 : Stairwell and Room **Floor: 1** **Room #: 107** **Area (sqft): 400**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #161 : Stairwell and Room **Floor: 1** **Room #: 107** **Area (sqft): 400**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #163 : Corridor **Floor:** **Room #: 163** **Area (sqft): 1600**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Not Found															
Floor		Terrazzo			A	Y		800			SF	V0205	None Detected	N.D.	None	
Piping		Fibreglass			C	Y										
Piping		Parging Cement	Fitting		C	Y		2(7)			SF	V0111	Chrysotile	>75%	Confirmed Asbestos	F
Piping	Rain Water Leader	Parging Cement	Fitting		C	Y		8(7)			EA	V0114	Chrysotile	25-50%	Confirmed Asbestos	F
Piping	Rain Water Leader	Parging Cement	Hanger (support)		C	Y		15(7)			EA	V0117	Chrysotile	50-75%	Confirmed Asbestos	F
Structure		Concrete (precast)			C	Y										
Wall		Drywall and joint compound			C	Y		800				V0204	None Detected	N.D.	None	
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0044	None Detected	N.D.	None	
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0045	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0071	None Detected	N.D.	None	

Entire corridor was not assessed. Only small section near rooms 159 and 160.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #163 : Corridor **Floor:** **Room #: 163** **Area (sqft): 1600**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1600		SF	V0003	White	Pb: 0.0037 %	No
Wall	Drywall and joint compound	800		SF	V0004	White	Pb: 0.0076 %	No

Entire corridor was not assessed. Only small section near rooms 159 and 160.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #163 : Corridor **Floor:** **Room #: 163** **Area (sqft): 1600**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Entire corridor was not assessed. Only small section near rooms 159 and 160.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #163 : Corridor **Floor:** **Room #: 163** **Area (sqft): 1600**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Entire corridor was not assessed. Only small section near rooms 159 and 160.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #170 : Corridor **Floor: 1** **Room #: 170** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Not Found															
Duct		Not Insulated			C	Y										
Mechanical Equipment		Not Insulated			A	Y										
Piping		Fibreglass			C	Y										
Piping		Fibreglass			C	Y										
Structure		Concrete (precast)			C	Y										
Wall		Masonry			A	Y										
Wall		Rubber, Grey baseboards			A	Y		100			%	V0015	None Detected	N.D.	None	
Wall		Mastic, Brown, Grey baseboards		Rubber	D	N		100			%	V0016	None Detected	N.D.	None	

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #170 : Corridor **Floor: 1** **Room #: 170** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1600		SF	V0003	White	Pb: 0.0037 %	No
Wall	Drywall and joint compound	800		SF	V0004	White	Pb: 0.0076 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #170 : Corridor **Floor: 1** **Room #: 170** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #170 : Corridor **Floor: 1** **Room #: 170** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #171 : Stairwell **Floor: 1** **Room #: 171** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		200			SF	S0204AC	None Detected	N.D.	None	
Ceiling		Plaster			C	Y		200			SF	S0207AB	None Detected	N.D.	None	
Duct		Not Insulated			C	Y										
Floor		Terrazzo			A	Y		800			SF	S0205ABC	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Piping		Parging Cement	Fitting		C	Y		2(7)			SF	V0111	Chrysotile	>75%	Confirmed Asbestos	F
Piping	Rain Water Leader	Parging Cement	Fitting		C	Y		2(7)			EA	V0114	Chrysotile	25-50%	Confirmed Asbestos	F
Piping	Rain Water Leader	Parging Cement	Hanger (support)		C	Y		3(7)			EA	V0117	Chrysotile	50-75%	Confirmed Asbestos	F
Structure		Concrete (precast)			C	Y										
Wall		Drywall and joint compound			C	Y		800				S0204B	None Detected	N.D.	None	
Wall		Plaster			C	Y		100			SF	S0207C	None Detected	N.D.	None	
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0044	None Detected	N.D.	None	
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0045	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0071	None Detected	N.D.	None	

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #171 : Stairwell **Floor: 1** **Room #: 171** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1000		SF	L0003	White	Pb: 0.0037 %	No
Wall	Drywall and joint compound	800		SF	V0004	White	Pb: 0.0076 %	No
Ceiling	Drywall and joint compound	200		SF	L0004	White	Pb: 0.0076 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #171 : Stairwell **Floor: 1** **Room #: 171** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #171 : Stairwell **Floor: 1** **Room #: 171** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	**Good**	**Poor**	**Unit**	**Sample**	**Sample Description**	**Amount**	**PCB**
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #172 : Offices **Floor: 1** **Room #: 172-172A-172B** **Area (sqft): 1000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Not Found															
Duct		Not Insulated			C	Y										
Floor		Vinyl Floor Tile and Mastic, 12x12 Grey with white and Grey fleck			A	Y		1000			SF	S0208ABC	None Detected	N.D.	None	
Mechanical Equipment		Not Insulated			A	Y										
Piping		Fibreglass			C	Y										
Piping		Fibreglass			C	Y										
Structure		Concrete (precast)			C	Y										
Wall		Drywall and joint compound			A	Y		100			%	V0218	None Detected	N.D.	None	
Wall		Masonry			A	Y										
Wall		Rubber, Grey baseboards			A	Y		100			%	V0015	None Detected	N.D.	None	
Wall		Mastic, Brown, Grey baseboards		Rubber	D	N		100			%	V0016	None Detected	N.D.	None	
Wall		Vermiculite Investigation			A	Y										

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #172 : Offices **Floor: 1** **Room #: 172-172A-172B** **Area (sqft): 1000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	2000		SF	V0003	White	Pb: 0.0037 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #172 : Offices **Floor: 1** **Room #: 172-172A-172B** **Area (sqft): 1000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #172 : Offices **Floor: 1** **Room #: 172-172A-172B** **Area (sqft): 1000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #202 : Classroom **Floor: 3** **Room #: W202** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Not Found															
Duct	Not Found															
Floor		Vinyl Floor Tile and Mastic, 9x9 green wave pattern			A	Y		800			SF	V0215	None Detected	N.D.	None	
Floor		Vinyl Floor Tile and Mastic, 9x9 green wave pattern			A	Y						V0215	None Detected	N.D.	None	
Floor		Vinyl Floor Tile and Mastic, 9x9 green wave pattern			A	Y						V0215	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Structure		Concrete (precast)			C	Y										
Wall		Concrete (poured)			A	Y										
Wall		Wood			A	Y										
Wall		Masonry			A	Y										
Wall	Acoustic Tile	Ceiling tiles (glue-on), 12x12 uniform holes			C	Y		100			%	V0146	None Detected	N.D.	None	
Wall	Acoustic Tile	Mastic, 12x12 uniform holes		Ceiling tiles (glue-on)	D	N		100(7)			%	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #202 : Classroom **Floor: 3** **Room #: W202** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #208 : Classroom **Floor: 3** **Room #: W208** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Not Found															
Duct	Not Found															
Floor		Vinyl Floor Tile and Mastic, 9x9 green wave pattern			A	Y		800			SF	S0215ABC	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Structure		Concrete (precast)			C	Y										
Wall		Concrete (poured)			A	Y										
Wall		Wood			A	Y										
Wall		Masonry			A	Y										
Wall	Acoustic Tile	Ceiling tiles (glue-on), 12x12 uniform holes			C	Y		100			%	V0146	None Detected	N.D.	None	
Wall	Acoustic Tile	Mastic, 12x12 uniform holes		Ceiling tiles (glue-on)	D	N		100(7)			%	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #208 : Classroom **Floor: 3** **Room #: W208** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #209 : Corridor **Floor: 2** **Room #: 209** **Area (sqft): 400**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		400			SF	S0218ABC	None Detected	N.D.	None	
Floor		Terrazzo			A	Y		400			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Accessible															
Piping	Not Accessible				C	Y										
Structure	Not Accessible															
Wall		Masonry			A	Y										

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #209 : Corridor **Floor: 2** **Room #: 209** **Area (sqft): 400**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	200		SF	V0003	White	Pb: 0.0037 %	No
Ceiling	Drywall and joint compound	400		SF	V0004	White	Pb: 0.0076 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #209 : Corridor **Floor: 2** **Room #: 209** **Area (sqft): 400**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #233 : Stairwell **Floor: 2** **Room #: 233** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		200			SF	V0204	None Detected	N.D.	None	
Duct		Not Insulated			C	Y										
Floor		Terrazzo			A	Y		800			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Structure		Concrete (precast)			C	Y										
Wall		Drywall and joint compound			C	Y		400				V0204	None Detected	N.D.	None	
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0044	None Detected	N.D.	None	
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0045	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0071	None Detected	N.D.	None	

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #233 : Stairwell **Floor: 2** **Room #: 233** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1200		SF	V0003	White	Pb: 0.0037 %	No
Wall	Drywall and joint compound	400		SF	V0004	White	Pb: 0.0076 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #233 : Stairwell **Floor: 2** **Room #: 233** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #233 : Stairwell **Floor: 2** **Room #: 233** **Area (sqft): 800**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**

Location: #235 : Offices **Floor: 2** **Room #: 235-235A-235B-235C-235D-235E-235F-235G-235H-235I-2** **Area (sqft): 1000**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Acoustic Tile	Ceiling Tile (mechanically fastened), 12x12 small and large square		Ceiling Tiles (lay-in)	C	N		200(7)			SF	V0100	Amosite	0.5-5%	Confirmed Asbestos	PF
Duct		Not Insulated			C	N										
Floor		Carpet			A	Y										
Floor		Mastic, Yellow		Carpet	D	N		100			%	V0012	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure		Concrete (precast)			C	N										
Wall		Drywall and joint compound			A	Y		2000			SF	V0204	None Detected	N.D.	None	

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**

Location: #235 : Offices **Floor: 2** **Room #: 235-235A-235B-235C-235D-235E-235F-235G-235H-235I-2** **Area (sqft): 1000**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT

System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Drywall and joint compound	2000		SF	V0004	White	Pb: 0.0076 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**

Location: #235 : Offices **Floor: 2** **Room #: 235-235A-235B-235C-235D-235E-235F-235G-235H-235I-2** **Area (sqft): 1000**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY

Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**

Location: #235 : Offices **Floor: 2** **Room #: 235-235A-235B-235C-235D-235E-235F-235G-235H-235I-2** **Area (sqft): 1000**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB

Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #251 : Cafeteria **Floor: 2** **Room #: 200** **Area (sqft): 2000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		1500(7)			SF	S0213ABCDE	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Ceiling	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with fleck			C	Y						V0000	Non-Asbestos		None	
Ceiling	Acoustic Tile	Mastic		Ceiling Tiles (lay-in)	C	N		100(7)			%	S0220ABC	Amosite	0.5-5%	Confirmed Asbestos	NF
Duct		Not Insulated			C	N										
Floor		Vinyl Floor Tile and Mastic, 12x12 green with white fleck and beige with dark beige fleck			A	Y		2000			SF	S0214ABC	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure		Concrete (precast)			C	N										
Wall		Drywall and joint compound			C	Y		500(7)			SF	V0213	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0045	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	
Wall		Rubber, Grey baseboards			A	Y		100			%	V0015	None Detected	N.D.	None	
Wall		Mastic, Brown, Grey baseboards		Rubber	D	N		100			%	V0016	None Detected	N.D.	None	
Wall		Vermiculite Investigation			A	Y										

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #251 : Cafeteria **Floor: 2** **Room #: 200** **Area (sqft): 2000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Ceiling	Drywall and joint compound	1500		SF	V0002	White	Pb: 0.0048 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #251 : Cafeteria **Floor: 2** **Room #: 200** **Area (sqft): 2000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #251 : Cafeteria **Floor: 2** **Room #: 200** **Area (sqft): 2000**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	**Good**	**Poor**	**Unit**	**Sample**	**Sample Description**	**Amount**	**PCB**
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #253 : Girls Washroom **Floor: 2** **Room #: 253** **Area (sqft): 600**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling[1]		Drywall and joint compound			C	Y		600			SF	V0091	None Detected	N.D.	None	
Duct		Not Insulated			C	N										
Floor		Terrazzo			A	Y		600			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure		Concrete (precast)			C	N										
Wall		Masonry			A	Y										
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0073				

1 - Installed after 2020.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #253 : Girls Washroom **Floor: 2** **Room #: 253** **Area (sqft): 600**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT								
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Ceiling	Drywall and joint compound	300		SF	V0002	White	Pb: 0.0048 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #253 : Girls Washroom **Floor: 2** **Room #: 253** **Area (sqft): 600**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #253 : Girls Washroom **Floor: 2** **Room #: 253** **Area (sqft): 600**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #268 : Boys Washroom **Floor: 2** **Room #: 268-268A** **Area (sqft): 650**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling	Not Found															
Duct		Not Insulated			C	Y										
Floor		Terrazzo			A	Y		650			SF	V0205	None Detected	N.D.	None	
Floor		Thin-set, 1x1 grey square pattern			D	N		20			SF	S0219C	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	Y										
Structure		Concrete (precast)			C	Y										
Wall		Masonry			A	Y										
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0073				
Wall		Grout, 4x4 white		Ceramic Tiles	D	N		100			%	V0020	None Detected	N.D.	None	
Wall		Thin-set, 4x4 white		Ceramic Tiles	D	N		100			%	V0021	None Detected	N.D.	None	

No access to 268A.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #268 : Boys Washroom **Floor: 2** **Room #: 268-268A** **Area (sqft): 650**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

No access to 268A.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #268 : Boys Washroom **Floor: 2** **Room #: 268-268A** **Area (sqft): 650**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

No access to 268A.

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #271 : Corridor **Floor: 2** **Room #: 271** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Plaster, Textured			C	N		50			SF	S0212ABC	None Detected	N.D.	None	
Ceiling	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with fleck			C	Y						V0000	Non-Asbestos		None	
Ceiling	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with texture			C	Y						V0000	Non-Asbestos		None	
Duct		Not Insulated			C	N										
Floor		Terrazzo			A	Y		200			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure		Concrete (precast)			C	N										
Wall		Masonry			A	Y										
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0073				

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #271 : Corridor **Floor: 2** **Room #: 271** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #271 : Corridor **Floor: 2** **Room #: 271** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #272 : Corridor **Floor: 1** **Room #: 200** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		200(7)			SF	V0213	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Ceiling		Plaster, Textured			C	N		50			SF	V0212	None Detected	N.D.	None	
Ceiling	Acoustic Tile	Ceiling Tiles (lay-in), 24x48 pinhole with fleck			C	Y						V0000	Non-Asbestos		None	
Ceiling	Acoustic Tile	Mastic, 12x12 pinhole		Ceiling Tiles (lay-in)	C	N		100			%	V0209	None Detected	N.D.	None	
Duct		Not Insulated			C	N										
Floor		Terrazzo			A	Y		200			SF	V0205	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Piping		Fibreglass			C	N										
Structure		Concrete (precast)			C	N										
Wall		Masonry			A	Y										
Wall		Paint, Concrete block			A	Y		100			%	V0047	None Detected	N.D.	None	
Wall		Mortar, Ceramic block mortar			A	Y		100			%	V0045	None Detected	N.D.	None	
Wall		Mortar, Concrete block			A	Y		100			%	V0042	Chrysotile	<0.5%	None	

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #272 : Corridor **Floor: 1** **Room #: 200** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #272 : Corridor **Floor: 1** **Room #: 200** **Area (sqft): 200**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**

Location: #280 : Offices **Floor: 2** **Room #: 280A-280B-280C-280D-280E-280F-280G-280H-280I** **Area (sqft): 1500**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Duct		Not Insulated			C	N										
Floor		Carpet			A	Y										
Floor		Terrazzo			A	Y										
Floor		Mastic, Yellow		Carpet	D	N		100			%	V0012	None Detected	N.D.	None	
Mechanical Equipment	Not Found															
Other	Sink	Mastic, Gold			A	Y		1(7)			EA	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping		Fibreglass			C	N										
Structure		Concrete (precast)			C	N										
Wall		Drywall and joint compound			A	Y		100			%	V0218	None Detected	N.D.	None	
Wall		Masonry			A	Y										

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**

Location: #280 : Offices **Floor: 2** **Room #: 280A-280B-280C-280D-280E-280F-280G-280H-280I** **Area (sqft): 1500**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PAINT

System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard
Wall	Masonry	1500		SF	V0003	White	Pb: 0.0037 %	No
Wall	Drywall and joint compound	1500		SF	V0004	White	Pb: 0.0076 %	No

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**

Location: #280 : Offices **Floor: 2** **Room #: 280A-280B-280C-280D-280E-280F-280G-280H-280I** **Area (sqft): 1500**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

MERCURY

Component	Quantity	Unit	Sample	Hazard
Light Fixture	100	%	V9500	Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**

Location: #280 : Offices **Floor: 2** **Room #: 280A-280B-280C-280D-280E-280F-280G-280H-280I** **Area (sqft): 1500**

Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB

Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	100		%	V9500			Presumed

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #300 : Roof **Floor:** **Room #:** **Area (sqft): 0**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

ASBESTOS															
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Other		Caulking, Grey			A	Y		40			LF	S0216ABC	None Detected	N.D.	None	
Other		Caulking, Grey			A	Y		60(7)			LF	S0217ABC	Chrysotile	5-10%	Confirmed Asbestos	NF
Other[1]		Roofing material			A	Y						V0000	Non-Asbestos		None	
Other[2]		Roofing material			A	Y		100(7)			%	V9500	Presumed Asbestos		Presumed Asbestos	NF

1 - Roofs 308 and 401
2 - Roofs 209 and 302

Client: Halton District School Board **Site: 1160 Rebecca Street, Oakville, ON** **Building Name: T.A. Blakelock Secondary School**
Location: #300 : Roof **Floor:** **Room #:** **Area (sqft): 0**
Survey Date: 2025-04-23 **Last Re-Assessment: 0000-00-00**

PCB							
Component	Good	Poor	Unit	Sample	Sample Description	Amount	PCB
Caulking	40		LF	P0001		<0.2 mg/kg	No
Caulking	60		LF	P0002		<0.2 mg/kg	No

Legend:

Sample number	
S####	Asbestos sample collected
L####	Paint sample collected
P####	PCB sample collected
M####	Mould sample collected
V####	Material is visually identified to be identical to S####
V0000	Known non hazardous material
V9000	Material visually identified as a Hazardous Material
V9500	Material is presumed to be a hazardous material

Units	
SF	Square feet
LF	Linear feet
EA	Each
%	Percentage
LF	Linear feet

Other	
A	Access
V	Visible
AP	Air Plenum
F	Friable material
NF	Non Friable material
PF	Potentially Friable material
Pb	Lead
Hg	Mercury
As	Arsenic
Cr	Chromium

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Visible	
Y	The material is visible when standing on the floor of the room, without the removal or opening of other building components (e.g. ceiling tiles or access panels).
N	The material is not visible to view when standing on the floor of the room and requires the removal of a building component (e.g. ceilings tiles or access panels) to view and access. Includes rarely entered crawlspaces, attic spaces, etc. Observations will be limited to the extent visible from the access points.
L	The material is partially visible to view when standing on the floor of the room and requires the removal of a building component (e.g. ceiling system or access panels) to view completely and access. Includes partially viewed access points to crawlspaces, attic spaces, etc. without entering. Observations are limited to the extent visible from the access points.

Air Plenum	
Yes or No	The material is in a return air plenum or in a direct airstream or there is evidence of air erosion (e.g. duct for heating or cooling blowing directly on or across an ACM). This field is only completed where Air Plenum consideration is required by regulation.

Colour Coding	
	The material is a hazardous material, either by analytical results or by visible identification.
	The material is presumed to be a hazardous material, based on visual appearance, and was not sampled due to limited access or the non-destructive nature of sampling.

Action					
(1)	Clean up of ACM Debris	(2)	Precautions for Access Which may Disturb ACM Debris	(3)	ACM removal
(4)	Precautions for Work Which may Disturb ACM in Poor Condition	(5)	Proactive ACM removal (Minimum repair required for fair condition)	(6)	ACM repair

(7) Management program and surveillance