Addendum #2

Bid Opportunity: T26-21 PROJECT # 20261044 - Window Replacement at Ajax High School Closing Date: Thursday, April 2, 2026, at 11:00 AM

Question 1:

please confirm bid submission method, as B&T notes Hard Copy Only

Answer 1: Due to a bids&tenders system issue, DDSB could not indicate "online" submission as the method. This has been resolved now, and only online submissions will be accepted for this project. No hard copy submissions will be accepted for this tendered project.

Question 2:

Due to our current workload and capacity, could we please request a two week extension on the closing date?

Answer 2:

Refer to Addendum No. 1.

Question 3:

Good morning,

Please change the submission type in Bids & Tenders from hard copy to online submission at your earliest convenience.

Thank you,

Answer 3: Please refer to answer #1

Question 4:

Please confirm if Separate Price Item #2 (Localized Repairs to Main Entrance Doors per R102) is required to be priced, as it does not appear in Appendix A – Separate Pricing in the Specifications."

Answer 4:

The note on R102 has been clarified. The localized repairs to the main entrance doors are part of base bid. Please refer to R602.

Separate price item no.4 covers the main entrance storefront and door replacement (refer to attached updated documents).

Question 5:

Window schedule reads 29 type W4 but elevation R202 show 31 please advise how to proceed?

Answer 5:

The elevation on R202 and window schedule on R400 have been updated. There are 30 W4 type windows.

Question 6:

Please clarify if roller shades are required at windows W5,W6,W7.

Answer 6:

Yes, new roller shades are to be installed at W5, W6, and W7.

Question 7:

Please clarify the specific window sizes or assembly types required for the first three (3) tests. As testing costs vary significantly based on unit dimensions, please confirm a representative typical size to be used for pricing. This will ensure all bidders are providing a consistent and comparable cost for this scope.

Answer 7:

Window testing costs shall be covered through the testing allowance. If window testing is completed, tests shall be initially completed at 3 locations (one of each base bid window type – W1, W2 or W3, and W4).

Question 8:

The window schedule identifies a total of 81 units for this project. Given that the specifications require testing of 3 assemblies for the first 100 installed, please clarify if the requirement for 1% of the remaining glazing assemblies is applicable to this contract.

Answer 8:

Refer to Question 7 response.

Question 9:

Please clarify if the mock-up should be included in the first 3 samples for testing?

Answer 9:

Refer to Question 7 response.

Question 10:

Based on the Designated Substances Survey included in the tender documents, black asbestos-containing caulking (CK-02) has been identified at window frames within the 1966 building addition.
Please confirm the following for bidding purposes:
1. Is the black asbestos-containing caulking located at both the interior and exterior perimeters of the windows, or is it limited to the interior window frames at the basement level of the 1966 addition as indicated in the survey?
2. Do the spandrel panel areas or joints associated with the window assemblies contain asbestos-containing caulking that will require abatement as part of this project?

Answer 10:

Black, Hard Caulking (CK-02 1%Chrysotile) was limited to the Basement Interior side of the windows of the 1966 building. Ground and Second Floor interior was Brown, Soft (CK-01 Non-asbestos).

Black, Soft (CK-09 Non-asbestos) was applied to the Basement Exterior frames of the 1966 building.

Brown, Soft (CK-08 Non-asbestos) was applied to the exterior Granex panels of the 1966 building.

In summary, the only asbestos-containing caulking was limited to the interior basement windows of the 1966 Building.

Question 11:

Window Type W4 Quantity Discrepancy
There is a discrepancy in the quantity of Window Type W4 across the drawings:
• Window Schedule (R400): 29 units
• Floor Plans (R102/R103): 30 units
• Elevations (R202): 31 units
Please confirm the correct quantity of Window Type W4 to be carried for bidding and confirm which drawing should govern.

Answer 11:

Floor plans on R102, R103, elevations on R202, and window schedule on R400 have been updated to reflect the correct window quantity. There are 30 W4 type windows.

Question 12:

Please confirm if Separate Price Item #2 (Localized Repairs to Main Entrance Doors per R102) is required to be priced, as it does not appear in Appendix A – Separate Pricing in the Specifications

Answer 12:

Refer to Question 4 response.

Question 13:

Subject: Clarification of Asbestos Caulking Locations

Question:
Based on the Designated Substances Survey included in the tender documents, black asbestos-containing caulking (CK-02) has been identified at window frames within the 1966 building addition.
Please confirm the following for bidding purposes:
1. Is the black asbestos-containing caulking located at both the interior and exterior perimeters of the windows, or is it limited to the interior window frames at the basement level of the 1966 addition as indicated in the survey?
2. Do the spandrel panel areas or joints associated with the window assemblies contain asbestos-containing caulking that will require abatement as part of this project?

Answer 13:

Refer to Question 10 response.

Question 14:

RE: The Submission Status for this tender is listed as Hard Copy. Is this correct?

Answer 14: Please refer to answer #1

End of Addendum #2

DIVISION 01 – GENERAL REQUIREMENTS

Section 01 11 13 – Work Covered by Contract Documents

1.1 GENERAL

.1 Bids shall be based on the materials and methods as outlined in the bid documents. If the contractor cannot meet the requirements, no bid shall be entered.

.2 Refer to the technical specifications and drawings sections for products, and technical requirements.

1.2 SCOPE OF WORK

.1 The work outlined herein is a general description. The specific requirements for the execution of the Work shall be as described in the bid documents. The itemized tasks of work outlined below correspond with the items outlined in the Schedule of Items, which shall be submitted by the winning bidder upon award of the Contract.

1.3 PURPOSE OF WORK

.1 The purpose of this project is to replace all punched windows at the north elevation of the original 1954 building, 1959 addition and 1966 addition at Ajax High School.

1.4 BASE BID

.1 Mobilization

.1 Mobilize on site all plant, tools, equipment and labour required to carry out this Work.

.2 Bonds and Permits

.1 Provide specified bonds to the Owner following the contract award. Work must not commence without the submission of the Performance Bond, and the Material and Labour Bond.

.2 Obtain and pay for all Federal, Provincial and Municipal permits necessary for this work, with the exception of the building permit, which will be obtained by the Owner if necessary.

.3 General Requirements

.1 Provide all the necessary labour, plant, equipment, and materials necessary to conform to all requirements as specified in the Contract Documents. This includes, but is not limited to temporary lighting, access (interior and exterior as required to facilitate work), shoring, etc. Install all necessary fencing, hoarding, barriers and signage to protect staff, building elements, vehicular and pedestrian traffic in accordance with the Occupational Health and Safety Act. Include all necessary construction signage and coordination. Signage is to be properly lettered and visible. In addition to preventing injury, all work areas must be protected from damage due to equipment. Provide temporary support to existing structural loads, where required, to ensure the building is maintained in a safe condition and damage is not caused to building elements. Any damage as a result

of inadequate shoring or support shall be rectified at no additional cost to the Owner.

.2 Make allowances during construction for down time made necessary for access to and review of the Work by Consultant.

.3 Include the manufacture and installation of all necessary material and performance of site mock-ups that will be required to the satisfaction of the Owner and Consultant.

.4 Maintain all building entrances as fire exits from the building at all times during construction. Post all necessary signage to indicate construction and erect all barricades/hoarding protection necessary to direct pedestrians through the construction area.

.5 If the Contractor deems it necessary to temporarily remove any permanent exterior furnishings such as fencing, benches, bollards, etc. in order to facilitate façade access, the cost to remove and reinstate or replace such elements shall be borne by the Contractor.

.6 Any part of the exterior façade (sills, brick, decorative stonework, doors, windows, etc.) that are damaged or removed during work or mobilization shall be replaced or repairs.

.7 If the Contractor deems it necessary to temporarily remove any permanent interior furnishings such as drywall, vent covers, shelving, etc. in order to facilitate access, the cost to remove and reinstate or replace such elements shall be borne by the Contractor.

.1 DDSB will coordinate the removal of desks, chairs, interior decorations, etc. away from the windows and walls to facilitate the work.

.8 A Designated Substances Report (DSR) is provided as part of this package. Carry out work in accordance with any recommendations. The following designated substances were detected:

.1 **0.5% chrysotile asbestos and 'low-level' lead concentrations were found to be present in the brick mortar of the 1966 building addition.**

.2 **'Low-level' lead concentrations were found to be present in the brick mortar of the 1954 building addition.**

.3 1% chrysotile asbestos was found to be present in the black caulking on basement window frames of the 1966 building addition.

.4 0.15% lead was found to be present in the off-white paint in classroom #2202 of the 1966 building addition.

.5 Crystalline silica is suspected to be present within masonry, mortar and concrete.

.6 0.5% chrysotile was found in the white plaster and 2% chrysotile in the grey plaster at the existing soffit and vestibule ceiling at the main entrance on the north elevation.

Disturbance of the above materials is anticipated as part of this work. Complete all removals in accordance with recommendations in the DSR and in accordance with EACO and Ministry of Labour guidelines.

.9 Include the supply, installation, maintenance, removal and disposal of full height interior dust protection enclosures within 6 feet of the exterior wall such that no construction dust penetrates into the interior of the building. Dust protection is to consist of 6 mil polyethylene sheeting with all seams and edges taped for a full seal.

.10 Include the supply, installation, maintenance, removal and disposal of ¾" plywood over rough openings secured with tamperproof screws. The plywood is to act as a security barrier to prevent unauthorized access to the school. Repair any holes in masonry upon installation of new windows.

.11 Should the construction schedule extend into the heating season, the Contractor shall at no cost to the DDSB insulate barriers at the Consultant's direction and modify the hoarding to allow the heat into the classroom without affecting the continuity of the dust barrier.

.12 The enclosures are to provide adequate control that meets DDSB requirements and the following:

.1 Under all circumstances:

.1 Security to prevent unlawful entry.

.2 Classroom thermal comfort when construction extends into October and beyond: If replacing the function of the original opaque wall assembly, the protection enclosure is to be constructed outboard of the classroom heat supply with a minimum R-Value of R13.

.3 Air barrier that is continuous to prevent the uncontrolled airflow between the interior and exterior.

.4 Dust/debris control.

.2 When classrooms are occupied by students, requirements are to achieve those as outlined in item 1.4.3.12.1 above, plus:

.1 Security – meet guard loads as outlined in current OBC.

.2 Interior surface flame spread that meet current OBC requirements.

.3 Lighting to meet DDSB classroom requirements and/or modification of the enclosures to provide adequate lighting.

.4 Demobilization and Site Cleanup

.1 Demobilize all plant, tools, equipment and labour for this Work from site. Upon completion of Work, and immediately before the Consultant's final review for Total Performance of the work, all areas of the building affected by this Contract shall be thoroughly cleaned. Include the dismantling and removal of the scaffolding (if any)

at the completion of the project. Remove all temporary protection, equipment, waste and surplus materials from site and leave in neat, tidy condition to the satisfaction of the Owner.

.2 Make good any landscaping and landscaping elements (asphalt, concrete sidewalk, sod, bushes, fencing, fence posts, artificial grass etc.) damaged or removed during repairs. Replace damaged asphalt with hot-mix asphalt and replace damaged grass with new sod. This includes the play area located within the fenced area at the north elevation.

.5 Window Replacement

.1 Submit shop drawings depicting the new window systems, prepared and sealed by a Professional Engineer licensed to practice in the Province of Ontario. Engineered shop drawings indicating anchorage for wood bucks at the sill and head shall also be submitted. Show clearances and dimensions for interior conditions, including window sills and blinds. Window replacement work shall not commence until the shop drawings are marked as reviewed by the Consultant.

.2 The Contractor shall provide all means as required to field measure the existing windows in a timely manner so as to avoid window manufacturing delays and ensure that construction can occur during the allotted period. All costs associated with measurement shall be borne by the Contractor.

.3 Supply and install a window mock-up, as per Specifications, to be reviewed and accepted by Consultant, prior to the start of window installation. The mock-up must convey the wood blocking, self-adhered membrane, new window, and metal flashings.

.4 All windows must be installed during summer months, or outside of regular school hours.

.5 Install new wood blocking and framing at the head and sill of window openings as indicated on the Drawings.

.6 At window jambs at the sides of window openings, include for patching existing masonry where existing fasteners were removed with the specified patching mortar. At window sills, include for patching the existing masonry to allow for a level surface to install new wood blocking. Loose concrete blocks are to be replaced on a unit rate basis.

.7 Allow for removal and reinstallation of all interior finishes, interior ceiling panels and framing, equipment, etc. for a minimum distance of 2 feet around the perimeter of the window openings.

.8 Any furniture that is not removed shall be protected by the Contractor. The Contractor must document the pre-construction condition of the furniture and ensure it is returned to the school in the same condition.

.9 The contractor shall remove all existing window coverings and either store in a location designated by the Owner or dispose from site. Supply and install new roller shades as per Section 12 24 00 for all windows.

.10 Supply and install new windows as shown on the plans, elevations and window schedule. The Contractor shall be responsible for removal and disposal of existing windows, and supply and installation of all new windows and their components to the standards and details described in the Drawings and Specifications provided.

.11 The contractor shall supply and install new stainless steel insect screens at all operable windows with tamperproof screws.

.12 The Contractor shall also be responsible for providing all other items and materials required in the Drawings and Specifications, including all exterior and interior sealant, aluminum trims, pre-finished aluminum flashing, laminated sills, and miscellaneous components etc., to the full extent of the work.

.13 **Contractor shall also be responsible for removal and reinstatement of all existing electrical and mechanical equipment requiring removal or relocation, as required to complete the window work.** Contractor shall provide cut-outs for all openings required with any new metal supports for the mechanical pipe penetrations.

.14 Contractor shall also be responsible for the localized removal and reinstatement of drywall and any other interior finishes (ie ceiling tiles, lights, plaster, etc.) to accommodate for the window replacement at localized areas, where required. Reinstate to match existing. Painting colour to match existing upon reinstatement (coordinate with DDSB for specific paint colour, which may vary between rooms).

.6 Door Restoration

.1 Repair main entrance door as indicated on the Drawings (Refer to 1/R602 to 3/R602).

.2 Prepare corroded surfaces and apply a corrosion inhibiting coating over the entire main entrance door.

.3 Replace the push-button activation system for the accessible door and include repairs to the door latch to accommodate the existing door.

.4 Replace the existing weather stripping and gaskets at four doors.

.5 Remove the existing corrosion and install a stainless steel post guard at two locations at the door bases. Include for sealing post guard edges.

.7 Sealant

.1 Install new single-stage sealant joints (including closed-cell backer rod and sealant) at all panel joints where the cladding returns are reinstated.

.2 Include submitting colour samples and install a mock-up for review by Consultant/Owner prior to proceeding with installation.

.3 Supply and install new sealants at all new metal to masonry joints and all metal-to-metal joints throughout the work area that were not previously sealed including at all new systems.

.4 Clean all surfaces and install new sealant complete with backer rod (where required).

.8 Mechanical and Electrical Allowance

.1 This includes a contingency for mechanical and electrical system repairs not specified in the Contract Documents that are made necessary by the Work, due to conditions that were not visible upon, or reasonably inferable from an examination of the site as determined by the Consultant. Unexpended portions of this allowance will be deducted from the Contract Price. Increase in allowance beyond the stipulated amount shall be authorized by a Change Order.

.2 Any electrical work completed on the project must be completed by one of the pre-qualified electrical contractors (refer to Front End Documents).

.9 Abatement Allowance

.1 This includes a contingency for abatement not included in the Contract Documents that are made necessary by the Work, due to conditions that were not visible upon, or reasonably inferable from an examination of the site as determined by the Consultant. Unexpended portions of this allowance will be deducted from the Contract Price. Increase in allowance beyond the stipulated amount shall be authorized by a Change Order.

.10 Testing Allowance

.1 Carry out independent window field testing to confirm that the window installation meets or exceeds the air and water infiltration performance requirements of the specifications. The first test at each location will be paid for through the testing allowance. Administer this allowance and do not arrange for testing beyond the stipulated amount without approval. No payment shall be made for costs incurred as a result of re-testing necessitated by work that has failed a previous test. Unexpended portions of the testing allowance will be deducted from the Contract Price. Increase in allowance beyond the stipulated amount shall be authorized by a Change Order

1.5 UNIT PRICES

.1 Provide a unit rate price (linear foot) for localized sealant replacement.

1.6 ALTERNATIVE PRICES

.1 There are no alternative price items.

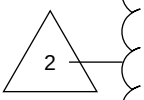
1.7 SEPARATE PRICES

.1 Replace existing window with W5, as indicated on the Drawings (Refer to 5/R400, 4/R601 and 5/R601). Details are similar to W4 replacement (Refer to R412 to R414). Include for removal and reinstatement of interior furniture and exterior access to the window.

.2 Replace existing window with W6, as indicated on the Drawings (Refer to 6/R400, 4/R601 and 6/R601). Details are similar to W4 replacement (Refer to R412 to R414). Include for removal and reinstatement of interior furniture and exterior access to the window.

.3 Replace existing window with W7, as indicated on the Drawings (Refer to 7/R400). Details are similar to W4 replacement (Refer to R412 to R414). Include for removal and reinstatement of interior furniture and exterior access to the window.

.4 Main Entrance Storefront Glazing, Framing, and Door Replacement



.1 Includes the full replacement of storefront windows and doors at the main entrance at the north elevation. Refer to Drawings R401 to R403.

.2 The Contractor shall provide all necessary interior and exterior access as required to field measure the existing windows in a timely manner so as to avoid window manufacturing delays and ensure that construction can occur during the allotted period.

.3 Temporarily remove and replace the existing soffit and ceiling in the vestibule area and other interior finishes to facilitate storefront window replacement. Replace any interior finishes damaged by the work.

.4 Within three (3) weeks after Contract Award, provide shop drawings of the proposed storefront window systems signed and stamped by a Professional Engineer licensed to practice in the Province of Ontario for the Consultant's review at the start of the project and prior to commencing with the window replacement work. In addition to typical requirements, shop drawings will require window framing layout dimensions to show coordination with all interfacing partition walls. Window replacement work shall not commence until the shop drawings are marked as reviewed/accepted by the Consultant.

.5 Remove, recycle and/or dispose of responsibly the existing glazing and frames, sealant, wood blocking, associated window hardware and window anchoring, interior and exterior mullion aluminum finish within the work area.

.6 Prior to installing the new storefront window system, survey and mark all spalled, scaled, cracked and unsound concrete curb and soffit areas. Supply and install new concrete where removed. The repairs are to include the construction (supply, install, dismantle) of wood formwork as needed to cast the new concrete. The contractor is to measure all areas and document quantities to the Consultant for verification. All dust and debris produced by the removal must be controlled.

.7 Supply and install new windows and door complete with new insulating glazing units within a thermally broken aluminum framed window wall system including all related parts and components. This includes, but is not limited to, the supply and installation of new angle supports, wood blocking, new extruded silicone sheet set in sealant, needle bead at interior head and sill, new interior aluminum head and sill, support shims, spray foam polyurethane insulation, self-adhered air/water barrier membrane at transitions, etc. as shown on the drawings.

END OF SECTION 01 11 13

DIVISION 08 11 17 – ALUMINUM DOORS

1. GENERAL

1.1 SUMMARY OF WORK

.1 This Section specifies aluminum swing doors, thermally broken aluminum swing doors and accessories.

.2 Section does not include framing of door opening.

.3 Refer to Section 01 11 13 – Work Covered By Contract Documents.

1.2 RELATED REQUIREMENTS

.1 Section 07 62 00 - Metal Flashing and Trim.

.2 Section 07 90 00 - Sealant.

.3 Section 08 44 13 – Aluminum-Framed Storefronts.

.4 Section 08 80 50 – Glazing.

1.3 REFERENCE STANDARDS

.1 Aluminum Association (AA) DAF 45 , Designation System For Aluminum Finishes.

.2 AAMA-2603, Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

.3 AAMA-2604, Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.

.4 AAMA-2605, Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.

.5 AAMA CW-10, Care and Handling of Architectural Aluminum From Shop to Site.

.6 AAMA 1503, Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections.

.7 AAMA TIR-A8, Structural Performance of Composite Thermal Barrier Framings Systems

.8 AAMA 1304, Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems.

.9 ASTM B209, Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

.10 ASTM B221, Specification for Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

.11 ASTM C612, Standard Specification for Mineral Fiber Block and Board Thermal Insulation.

.12 ASTM E283, Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

.13 ASTM D2240, Standard Test Method for Rubber Property—Durometer Hardness.

.14 CAN/CGSB-12.8, Insulating Glass Units.

.15 CAN/CGSB-12.20, Structural Design of Glass for Buildings.

.16 CAN/CGSB-19.13, Sealing Compound, One-Component, Elastomeric, Chemical Curing.

.17 CAN/CSA-S157, Strength Design in Aluminum.

.18 CAN/CSA W59.2, Welded Aluminum Construction.

.19 CSA A440

.20 CCD-45, Sealants and Caulking Compounds.

1.4 SUBMITTALS

.1 Product Data: Submit product data including manufacturer's literature for aluminum, panels, stiles, rails, components and accessories, indicating compliance with specified requirements and material characteristics.

.1 Submit list on aluminum door manufacturer's letterhead of materials, components and accessories to be incorporated into Work.

.2 Include product names, types and series numbers.

.3 Include contact information for manufacturer and their representative for this Project.

.2 Shop Drawings: Submit drawings stamped and signed by Professional Engineer registered or licensed in the Province of Ontario. Include on shop drawings:

.1 Indicate materials and profiles and provide full-size, scaled details of components for each type of door. Indicate:

.2 Core thicknesses of components.

.3 Type and location of exposed finishes.

.4 Size of door opening and tolerances.

.5 Arrangement of hardware and required clearances.

.6 Provide shop drawing for custom gasket.

.3 Include catalogue details for each type of door illustrating profiles, dimensions and methods of assembly.

.4 Samples:

.1 Submit duplicate 12 x 12 inches (300 x 300 mm) sample sections showing prefinished aluminum surface, finish, colour and texture, and including section of infill panel.

1. Include corner sample of each type of door.

.5 Test Reports:

.1 Submit test reports showing compliance with specified performance characteristics and physical properties including air infiltration and water infiltration.

.6 Field Reports: Submit manufacturer's field reports within 3 days of manufacturer representatives site visit and inspection.

.7 Installer Qualifications:

.1 Submit letter verifying installer's experience with work similar to work of this Section.

.2 Provide a list of projects where the applicator has executed work similar to that described in this section.

.8 Record Documentation.

.1 List materials used in door work.

.2 Warranty: Submit warranty documents specified.

1.5 DELIVERY STORAGE AND HANDLING

.1 Deliver and store all materials in their original unopened containers. The manufacturer's label intact and visible for review.

.2 Store all materials in a safe, off ground, protected storage area to prevent damage. Limited material storage shall be provided on the site during the execution of the work. The storage locations shall be confirmed with the Owner.

.3 All materials must be tarped to protect from water damage and ultraviolet deterioration.

.4 Store all materials in strict accordance with the manufacturer's recommendations.

.5 Damaged materials shall be removed and replaced with new materials, unless otherwise agreed with the Consultant.

.6 Replace any materials damaged during manufacture, shipping, storage or installation.

1.6 WARRANTY

.1 Refer to General Terms and Conditions.

2. **PRODUCTS**

2.1 DESCRIPTION

.1 Aluminum-framed, thermally broken swing door with glass insert suitable for inclusion in or storefront system.

2.2 DESIGN CRITERIA

.1 Design aluminum components to CAN/CSA S157.

.2 Vision glass areas: Insulating Glass Unit centre of glass U 0.24.

.3 Air infiltration: 0.2 L/s/m^2 maximum of test area to ASTM E283 at differential pressure across assembly of 75 Pa.

2.3 MATERIALS

.1 Aluminum Door Components:

.1 Extruded aluminum: To ASTM B221, 6063 alloy with T5 and T6 temper.

.2 Thermal Break: To AAMA IIR-A8, Glass fibre reinforced polyamide porthole extrusion.

.3 Sheet aluminum: To ASTM B209, utility grade for unexposed surfaces, anodizing quality for exposed surfaces.

.4 Fasteners, screws and bolts: Cadmium plated stainless steel 300 series to meet curtain wall requirements and as recommended by manufacturer.

.5 Insulating glass units for exterior glazed door: Refer to Section 08 90 00 - Glazing

2.4 DOOR FABRICATION

.1 Do aluminum welding to CAN/CSA W59.2.

.2 Fabricate aluminum assemblies of extruded sections to sizes and profiles indicated.

.1 Ensure stiles and rails are tubular extrusions designed for mechanical shear block fastening in combination with SIGMA deep penetration plug welds and fillet welds at all stile/rail connections.

.2 Provide complete separation of interior and exterior components of door leaf by means of a porthole extruded structural thermal break.

.3 Door Thickness: 57 mm

.4 Construct doors square, plumb and free from distortion, waves, twists, buckles or other defects detrimental to performance or appearance.

.5 Fabricate infill panels of aluminum sheet laminated to marine grade plywood.

.1 Aluminum sheet minimum thickness 3mm.

.2 Marine grade plywood thickness 19mm.

.6 Accurately fit and secure joints and corners.

.1 Ensure joints are flush and hairline

.7 Use only concealed or semi-concealed fasteners

.1 Where fasteners cannot be concealed, countersunk screws finished to match adjacent material may be used.

.8 Install door hardware.

.9 Locate manufacturer's labels on exterior side of door bottom rail.

.10 Acceptable Material: Alumicor Limited; ThermaPorte 7700 - T600B, thermally broken doors or equivalent Windspec door for 655 Series storefront system.

.1 Stile width: 5.750 inches.

.2 Top rail: 5.625 inches.

.3 Centre rail: 6 inches.

.4 Bottom rail: 7.000 inches.

.5 Or as approved by Consultant and DDSB.

2.5 FINISHES

.1 See Specification Section 08 43 13 Aluminum Framed Storefronts.

2.6 HARDWARE

.1 Refer to door list:

.1 D01A – Set #1 (West Side Door and Operator / Accessible Door)

.2 D01B and D01C – Set #2 (Middle Doors)

.3 D01D – Set #3 (East Side Door)

.2 Hardware: Supply and factory-install hardware as follows (see hardware schedule attached at end of appendices):

.1 D01A – Set #1 (West Side Door and Operator / Accessible Door)

1. 1 SGLE. DR. # D01A EXTERIOR ENTRY TO MAIN VESTIBULE RHR
2. 1 - 3'2" x 7'0" x 2 1/4" x ALUM. FRAME x ALUM. DOOR
3. 110V POWER SUPPLY & LOW VOLTAGE WIRING TO ACTUATORS TO BE DONE BY ELECTRICAL DIVISION.
4. POWER OPERATOR & ACTUATORS TO BE SUPPLIED AND INSTALLED BY HARDWARE SUPPLIER.
5. FOB READER TO BE CONNECTED TO ELECTRIC STRIKE BY SECURITY

QTY			
4	EA	HINGE	BB1199-114 X 101-NRP- 630
1	EA	PANIC DEVICE	98EO X 4' X 630
1	EA	DOOR PULL WITH CYL. HOLE	120L X 85 X 404 X 630 X CFC
1	EA	RIM PRIMUS CYLINDER "0" BITTED	PRIMUS 20-709 X 626
DDSB TO DO FINAL KEYING OF CYLINDERS INTO EXISTING SYSTEM.			
1	EA	DOOR OPERATOR	SW200i X SINGLE HSG X 628
2	EA	PUSH TO OPEN BUTTON	#CM-45/4 X 630
1	EA	ELECTRIC STRIKE	9600 X 630
1	EA	FOB READER	SUPPLIED BY SECURITY
1	EA	CONCEALED STOP	104S X 630

1	EA	OVERHEAD STOP AT 110 DEG OPEN KICKPLATE	190S X 203 X 914 X 630
1	EA	WEATHERSTRIPPING	SUPPLIED BY ALUM. MANUFACTURER
1	EA	SWEEP	W13S X 4'-0" X 628
1	EA	THRESHOLDS	CT-45A X 4'-0" X 628
1	EA	DOOR CONTACT CONCEALED	#CX-MDH

.2 D01B and D01C – Set #2 (Middle Doors)

1. 1 SGLE. DR. # D01B EXTERIOR ENTRY TO MAIN VESTIBULE LHR
2. 1 SGLE. DR. # D01C EXTERIOR ENTRY TO MAIN VESTIBULE RHR
3. 2 - 3'2" x 7'0" x 2 1/4" x ALUM. FRAME x ALUM. DOOR

QTY			
8	EA	HINGE	BB1199-114 X 101-NRP- 630
2	EA	PANIC DEVICE	98EO X 4' X 630
2	EA	DOOR PULL	120L X 85 X 404 X 630
2	EA	CLOSER	4040XP X EDA X 689
2	EA	CONCEALED STOP	104S X 630
		OVERHEAD STOP @ 110 DEGREE OPEN	
2	EA	KICKPLATE	190S X 203 X 914 X 630
2	EA	WEATHERSTRIPPING	SUPPLIED BY ALUM. MANUFACTURER
2	EA	SWEEP	W13S X 4'-0" X 628
2	EA	THRESHOLDS	CT-45A X 4'-0" X 628
2	EA	DOOR CONTACT CONCEALED	#CX-MDH

.3 D01D – Set #3 (East Side Door)

1. 1 SGLE. DR. # D01D EXTERIOR ENTRY TO MAIN VESTIBULE LHR
2. 1 - 3'2" x 7'0" x 2 1/4" x ALUM. FRAME x ALUM. DOOR

QTY			
4	EA	HINGE	BB1199-114 X 101-NRP- 630
1	EA	PANIC DEVICE	98EO X 4' X 630
1	EA	DOOR PULL WITH CYL. HOLE	120L X 85 X 404 X 630 X CFC
1	EA	RIM PRIMUS CYLINDER "0" BITTED	PRIMUS 20-709 X 626
DDSB TO DO FINAL KEYING OF CYLINDER INTO EXISTING SYSTEM			
1	EA	CLOSER	4040XP X EDA X 689
1	EA	CONCEALED STOP	104S X 630
1	EA	OVERHEAD STOP @ 110 DEGREE OPEN KICKPLATE	190S X 203 X 914 X 630
1	EA	WEATHERSTRIPPING	SUPPLIED BY ALUM. MANUFACTURER
1	EA	SWEEP	W13S X 4'-0" X 628
1	EA	THRESHOLDS	CT-45A X 4'-0" X 628
1	EA	DOOR CONTACT CONCEALED	#CX-MDH

2.7 INSULATING GLASS UNIT

.1 Insulating glass units: To CAN/CGSB-12.8, double glazed, hermetically sealed, PIB primary seal, two component silicone secondary seal, argon filled insulating glass units with 13 mm low conductance stainless steel warm edge spacer.

.2 IGU (25mm thick): 6 mm tempered glass, both lites, with low-E coating (Solarban 60 by PPG) on surface #2.

2.8 OPAQUE INSULATING SANDWICH PANEL

.1 Refer to Glazing Type G5 in 08 80 00 Glass and Glazing.

2.9 ACCESSORIES

.1 Gasketing: To CCD-45 EPDM gaskets.

.2 Setting Blocks: To CCD-45 and [ASTM D2240], silicone, 80 - 90 Shore A Durometer hardness.

.3 Spacers: To CCD-45 and ASTM D2240, silicone, 50 - 60 Shore A Durometer hardness.

.4 Sealant: Refer to 07 90 00 – Sealant.

2.10 PRODUCT SUBSTITUTIONS

.1 Ensure components come from one manufacturer.

3. **EXECUTION**

3.1 INSTALLERS

.1 Use only manufacturer authorized installers for installers with 5 years minimum experience in work similar to work of this Section.

3.2 EXAMINATION

.1 Verification of Conditions: Verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for door installation in accordance with manufacturer's written instructions.

.1 Visually inspect substrate in presence of Consultant.

.2 Inform Consultant of unacceptable conditions immediately upon discovery.

.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

3.3 INSTALLATION

.1 Install aluminum swing doors in accordance with manufacturer's written instructions.

3.4 ADJUSTING

.1 Adjust operable parts for correct function.

.2 Ensure doors do not bind while opening and closing.

3.5 CLEANING

.1 Leave work area clean end of each day.

.2 Final leaning: Upon completion, remove surplus materials, rubbish, tools, and equipment.

3.6 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by aluminum door installation.

END OF SECTION 08 11 17

Rivett Architectural Hardware Ltd.

Door Listing

AJAX H.S - WINDOW REPLACEMENT - 105 BAYLY STREET EAST, AJAX

Schedule 200816
Date Mar 24/26

Door Number	Set Number
D01A	1
D01B	2
D01C	2
D01D	3

Rivett Architectural Hardware Ltd.

Hardware Schedule

AJAX H.S - WINDOW REPLACEMENT - 105 BAYLY STREET EAST, AJAX

Schedule **200816**
Date **Mar 24/26**

Set # **1**

1 SGLE. DR. # D01A EXTERIOR ENTRY TO MAIN VESTIBULE RHR

1 - 3'2" x 7'0" x 2 1/4" x ALUM. FRAME x ALUM. DOOR

		Qty			
:	:	4	EA	HINGE	BB1199-114 X 101-NRP- 630
:	:	1	EA	PANIC DEVICE	98EO X 4' X 630
:	:	1	EA	DOOR PULL WITH CYL. HOLE	120L X 85 X 404 X 630 X CFC
:	:	1	EA	RIM PRIMUS CYLINDER "0" BITTED	PRIMUS 20-709 X 626
				DDSB TO DO FINAL KEYING OF CYLINDERS INTO EXISTING SYSTEM.	
:	:	1	EA	DOOR OPERATOR	SW200i X SINGLE HSG X 628
:	:	2	EA	PUSH TO OPEN BUTTON	#CM-45/4 X 630
:	:	1	EA	ELECTRIC STRIKE	9600 X 630
:	:	1	EA	FOB READER	SUPPLIED BY SECURITY
:	:	1	EA	CONCEALED STOP	104S X 630
				OVERHEAD STOP AT 110 DEG OPEN	
:	:	1	EA	KICKPLATE	190S X 203 X 914 X 630
:	:	1	EA	WEATHERSTRIPPING	SUPPLIED BY ALUM. MANUFACTURER
:	:	1	EA	SWEEP	W13S X 4'-0" X 628
:	:	1	EA	THRESHOLDS	CT-45A X 4'-0" X 628
:	:	1	EA	DOOR CONTACT CONCEALED	#CX-MDH

110V POWER SUPPLY & LOW VOLTAGE WIRING TO ACTUATORS TO BE DONE BY ELECTRICAL DIVISION.

POWER OPERATOR & ACTUATORS TO BE SUPPLIED AND INSTALLED BY HARDWARE SUPPLIER

FOB READER TO BE CONNECTED TO ELECTRIC STRIKE BY SECURITY

Rivett Architectural Hardware Ltd.

Hardware Schedule

AJAX H.S - WINDOW REPLACEMENT - 105 BAYLY STREET EAST, AJAX

Schedule 200816
Date Mar 24/26

Set # 2

1 SGLE. DR. # D01B EXTERIOR ENTRY TO MAIN VESTIBULE LHR
1 SGLE. DR. # D01C EXTERIOR ENTRY TO MAIN VESTIBULE RHR

2 - 3'2" x 7'0" x 2 1/4" x ALUM. FRAME x ALUM. DOOR

		Qty			
:	:	8	EA	HINGE	BB1199-114 X 101-NRP- 630
:	:	2	EA	PANIC DEVICE	98EO X 4' X 630
:	:	2	EA	DOOR PULL	120L X 85 X 404 X 630
:	:	2	EA	CLOSER	4040XP X EDA X 689
:	:	2	EA	CONCEALED STOP	104S X 630
				OVERHEAD STOP @ 110 DEGREE OPEN	
:	:	2	EA	KICKPLATE	190S X 203 X 914 X 630
:	:	2	EA	WEATHERSTRIPPING	SUPPLIED BY ALUM. MANUFACTURER
:	:	2	EA	SWEEP	W13S X 4'-0" X 628
:	:	2	EA	THRESHOLDS	CT-45A X 4'-0" X 628
:	:	2	EA	DOOR CONTACT CONCEALED	#CX-MDH

Set # 3

1 SGLE. DR. # D01D EXTERIOR ENTRY TO MAIN VESTIBULE LHR

1 - 3'2" x 7'0" x 2 1/4" x ALUM. FRAME x ALUM. DOOR

		Qty			
:	:	4	EA	HINGE	BB1199-114 X 101-NRP- 630
:	:	1	EA	PANIC DEVICE	98EO X 4' X 630
:	:	1	EA	DOOR PULL WITH CYL. HOLE	120L X 85 X 404 X 630 X CFC
:	:	1	EA	RIM PRIMUS CYLINDER "0" BITTED	PRIMUS 20-709 X 626
				DDSB TO DO FINAL KEYING OF CYLINDER	INTO EXISTING SYSTEM
:	:	1	EA	CLOSER	4040XP X EDA X 689
:	:	1	EA	CONCEALED STOP	104S X 630
				OVERHEAD STOP @ 110 DEGREE OPEN	
:	:	1	EA	KICKPLATE	190S X 203 X 914 X 630
:	:	1	EA	WEATHERSTRIPPING	SUPPLIED BY ALUM. MANUFACTURER
:	:	1	EA	SWEEP	W13S X 4'-0" X 628
:	:	1	EA	THRESHOLDS	CT-45A X 4'-0" X 628
:	:	1	EA	DOOR CONTACT CONCEALED	#CX-MDH

DIVISION 8 – DOORS AND WINDOWS

1 GENERAL

1.1 GENERAL REQUIREMENTS

.1 All work necessary for completion of work of this section including, but not limited to, setting up suspended access equipment, hoists, permits, and authorization from utilities, etcetera. The cost associated with these items will not be paid for separately, but will be considered incidental to the work of this section.

.2 The Contractor shall take all reasonable measures and provide protection against damage to the building façade, structure, and interior finishes. All damage to the building resulting from this work will be repaired and/or rectified by the Contractor.

1.2 PERFORMANCE REQUIREMENTS

.1 Gaskets shall be installed to the standards of the Glass Association of North America (GANA) Glazing Manual.

.2 Fasteners shall, for a period of 10 years be free of defects and the formation of surface corrosion such that their tensile and pull-out strength is reduced.

.3 Comply with the requirements of the Workplace Hazardous Materials Information System (WHMIS) regarding use, storage, handling and disposal of hazardous materials, and regarding labeling and the provision of material safety data sheets.

1.3 SCOPE OF WORK

.1 This Section specifies glazed, thermally broken aluminum-framed storefronts and accessories.

.2 Refer to Section 01 11 13 – Work Covered By Contract Documents.

1.4 RELATED SECTIONS

.1 Section 07 62 00 - Metal Flashing and Trim.

.2 Section 07 90 00 - Sealant.

.3 Section 08 11 17 – Aluminum Doors.

.4 Section 08 80 50 – Glazing.

1.5 REFERENCES

.1 DAF 45, Designation System For Aluminum Finishes.

.2 AAMA-501, Methods of Test for Exterior Walls.

.3 AAMA-2603, Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

.4 AAMA-2604, Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.

.5 AAMA-2605, Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.

.6 AAMA CW-10, Care and Handling of Architectural Aluminum From Shop to Site.

.7 AAMA CW-11, Design Windloads for Buildings and Boundary Layer Wind Tunnel Testing.

.8 AAMA-TIR A1, Sound Control for Fenestration Products.

.9 ASTM A653 / A653M, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

.10 ASTM B209, Specification for Aluminum and Aluminum-Alloy Sheet and Plate.

.11 ASTM B221, Specification for Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

.12 ASTM C612, Standard Specification for Mineral Fiber Block and Board Thermal Insulation.

.13 ASTM E283, Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

.14 ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform Static Air Pressure Difference.

.15 ASTM E413, Classification for Rating Sound Insulation.

.16 ASTM E1105, Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference.

.17 ASTM D2240, Standard Test Method for Rubber Property—Durometer Hardness.

.18 LEED® Canada-NC Version 1.0, LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations including Addendum 2007.

.19 CAN/CGSB-12.8, Insulating Glass Units.

.20 CAN/CGSB-12.20, Structural Design of Glass for Buildings.

.21 CAN/CGSB-19.13, Sealing Compound, One-Component, Elastomeric, Chemical Curing.

.22 CAN/CSA-S157, Strength Design in Aluminum.

.23 CAN/CSA-S136, North American Specification for the Design of Cold-Formed Steel Structural Members.

.24 CAN/CSA W59.2, Welded Aluminum Construction.

.25 CCD-45, Sealants and Caulking Compounds.

.26 CAN/ULC-S710.1 [2005], Standard for Thermal Insulation – Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Materials Standard for Thermal Insulation - Bead - Applied One Component Polyurethane Air Sealant Foam, Part 1: Materials.

1.6 SUBMITTALS

.1 The contractor shall provide shop drawings stamped and signed by Professional Engineer registered or licensed in Ontario, Canada. Include on shop drawings:

.1 Aluminium-framed storefront panel and component dimensions, framed opening requirements and tolerances, adjacent construction, anchor details anticipated deflection under load, affected related Work, weep drainage network, expansion and contraction joint location and details, and field welding required.

.2 Include details of fasteners between interior and exterior extrusions ensuring no penetration of thermal break or thermal bridging.

.3 Show size and location of seismic restraints. Include seismic design calculations.

.2 Submit Product Data on Aluminum Framed Storefront: Submit product data including manufacturer's literature for glazed aluminum aluminum-framed storefront extruded members, panels, components and accessories, indicating compliance with specified requirements and material characteristics

.1 Submit list on aluminium-framed storefront manufacturer's letterhead of materials, components and accessories to be incorporated into Work.

.2 Include product names, types, and series numbers.

.3 Include contact information for manufacturer and their representative for this Project.

.3 Submit Product Data on gaskets: Provide chemical, functional, and environmental characteristics, limitations, special application requirements.

.4 Submit Product Data on sealants: Provide list of materials, manufacturer's product data and specifications, and sealant manufacturer's project recommendations.

.5 Provide written verification from the gasket material manufacturer that the new gasket materials are compatible with the glazing and sealants.

.6 Provide product data sheets and material Safety Data Sheets (MSDS) for all products to be used at the site and/or incorporated in the Work.

.7 Thermal Performance: Submit verification that Insulating Glass Units used in aluminum-framed storefront system meet RSI (R) values specified.

.8 Test Reports: Submit test reports showing compliance with specified performance characteristics and physical properties including air infiltration, water infiltration and structural performance.

.9 Field Reports: Submit manufacturer's field reports within 3 days of manufacturer representatives site visit and inspection

.10 Installer Qualifications: Submit letter verifying installer's experience with work similar to work of this Section

.11 Provide shop drawing for custom gasket.

.12 Provide a list of projects where the applicator has executed work similar to that described in this section.

1.7 QUALITY ASSURANCE

.1 Perform work in accordance with GANA Glazing Manual, GANA Sealant Manual, and IGMAC Glazing Recommendations for Sealed Insulating Glass Units.

.2 The installer shall be knowledgeable in the proper installation of curtain wall glazing and shall have a minimum of five (5) years of proven experience for projects of similar size and complexity.

.3 The Contractor shall provide the proper equipment, workers, and supervision on the job site to install the system in compliance with the project specifications.

.4 The Contractor must employ a full-time on-site foreman for this Work who will be responsible for all aspects of this Work. Once established, the foreman is not to change for the Work unless previously approved by the Owner's Representative.

1.8 STORAGE AND HANDLING

.1 Deliver and store all materials in their original unopened containers. The manufacturer's label intact and visible for review.

.2 Store all materials in a safe, off ground, protected storage area to prevent damage. Limited material storage shall be provided on the site during the execution of the work. The storage locations shall be confirmed with the Owner.

.3 All materials must be tarped to protect from water damage and ultraviolet deterioration.

.4 Store all materials in strict accordance with the manufacturer's recommendations.

.5 Damaged materials shall be removed and replaced with new materials, unless otherwise agreed with the Consultant.

.6 Replace any materials damaged during manufacture, shipping, storage or installation.

1.9 ALTERNATES

.1 All requests for alternates on specified products in this section must be submitted to the Consultant. These requests must be accompanied by technical data sheets describing proposed product equivalency.

1.10 EQUIPMENT

.1 Provide and maintain equipment such as swing stages, ladders, scaffolds, and the like as required for execution of the work.

.2 Assume complete responsibility for construction strength, placing, anchoring and other mechanical contrivances used for the work. Ensure that the loads carried can be safely supported and free from accidents to all persons.

.3 Comply with all safety regulations.

.4 Remove immediately such equipment when not required for the remaining work.

.5 Provide and maintain on site suitable fire extinguishers as required by the safety code.

1.11 WARRANTY

.1 Warranty letters shall be on official company letterhead, signed and sealed by the company's signing officer, and shall be original. Letters submitted via facsimile are not acceptable.

.2 Unless otherwise specified, all installation work (labour and materials) is to be warranted by the Contractor for a period of two (2) years from the date of payment for the work, during which time any imperfections, which may develop in the work, are to be made good without cost to the owner. Any other work affected, in making good such imperfections, shall also be made good.

.3 Manufacturer's warranty: Refer to General Terms and Conditions.

.4 Insulating Glass Unit Warranty Period: Refer to General Terms and Conditions.

1.12 CONSULTANT REVIEW

.1 All shop and field materials and workmanship shall be subject to review by the Owner or their Representative at all times. These reviews shall not relieve the Contractor from the obligations to provide materials conforming to all requirements of the Contract Documents.

.2 The Contractor shall provide access, permit inspection, correct any defects and obtain written approval to proceed from the Owner or their Representative prior to commencing with each phase of work.

1.13 SITE CONDITIONS

.1 The Contractor shall provide all required support to safely support all the loads during the Work. Do not overload any area of the roof or building structure.

.2 Report in writing to the Consultant any areas of deficiencies or changes in condition revealed that are not a part of this Work. Obtain the Consultant's approval and instruction prior to proceeding with the repair work in this area.

.3 Install Dutchmen to provide temporary support to glazing units during the performance of the work.

.4 Secure the Work in a safe and watertight fashion before the onset of inclement weather and at the end of each day's work.

.5 Protect walls where hoisting equipment and materials is necessary.

.6 Post warning signs and barriers. Maintain in good order until completion of work.

.7 Protect all public entrances to building.

2. **PRODUCTS**

2.1 DESCRIPTION

.1 Thermally broken, aluminum-framed glazed storefront constructed from prefinished aluminum extrusions and including swing type doors.

2.2 DESIGN CRITERIA

.1 Design curtain wall to AAMA CW-DG-1.

.2 Design the storefront system following rainscreen principles.

.3 Ensure horizontal members are sealed to vertical members to form individual compartments in accordance with rainscreen principles.

.4 Ventilate and pressure equalize air space outside the exterior surface of insulation to exterior.

.5 Design aluminum components to CAN/CSA S157.

.6 Design and size curtain wall components to withstand dead and live loads caused by pressure and suction of wind, acting normal to plane of wall using design pressure of 1.0 kPa (SLS) to ASTM E330.

.7 Design the system for expansion and contraction caused by cycling temperature range of 95 degrees C over 12 hour period without causing detrimental effect to system components.

.8 Thermal expansion: Ensure curtain wall system can withstand temperature differential of 85 degerees C and is able to accommodate interior and exterior system expansion and contraction without damage to components or deterioration of seals.

.9 Design vertical expansion joints with baffled overlaps and compressed resilient air seal laid between mullion ends.

.10 Ensure system is designed to accommodate:

1. Movement within curtain wall assembly.
2. Movement between system and perimeter framing components.
3. Dynamic loading and release of loads.
4. Deflection of structural support framing.

.11 Limit mullion deflection to L/175 maximum with full recovery of glazing materials.

.12 Glass dimensions: Size glass units to CAN/CGSB-12.20.

.13 Flatness criteria: 6 mm maximum in 6 m for each panel.

.14 Air infiltration: 0.3 L/s/m2 (0.63 cfm) maximum of wall area to ASTM E283 at differential pressure across assembly of 300 Pa (0.044 psi).

.15 Water infiltration: None to ASTM E331 at differential pressure across assembly of 600 Pa.

.16 Ensure interior surfaces have no condensation before exposed edges of sealed units reach dew point temperatures during testing to AAMA 501.

.17 Maintain continuous air barrier and vapour retarder throughout building envelope and curtain wall assembly.

.18 Ensure no vibration harmonics, wind whistles, noises caused by thermal movement, thermal movement transmitted to other building elements, loosening, weakening, or fracturing of attachments or components of system occur.

.19 Design sealant for structural glazing conforming to CAN/CGSB-19.13-M, Classification MCG-2-25-A-N and ASTM C1184 unless otherwise approved and/or directed. Sealant shall be UV resistant, ozone resistant, non-bleeding, non-staining and capable of supporting their own weight, structural glass units and all specified or referenced loads to meet design criteria and in conformance of OBC requirements.

.1 Ensure materials used for edge seals are compatible with other materials they come in contact within glazing system. If required, perform compatibility tests to ASTM C510, ASTM C794 and ASTM C1087, or others as applicable.

.2 Ensure a minimum of two (2) weeps per typical glass panel.

2.3 MATERIALS

.1 Aluminum-Framed Storefront System and Components:

.1 Extruded aluminium: To ASTM B221, 6063 alloy with T5 and T6 temper.

.2 Sheet Aluminum: To ASTM B209, utility grade for unexposed surfaces.

.3 Fasteners, screws and bolts: Cadmium plated stainless steel 300 series to meet aluminium-framed storefront requirements and as recommended by manufacturer.

.4 Aluminum panels: 3 mm thick factory formed panels.

.5 Finish after forming to match window system.

.6 Thermal Break: Glass fibre reinforced polyamide porthole extrusion.

.7 Acceptable systems: Alumicor Ltd. FlushGlaze BF 3400 Series Storefront or Windspec 655 Series.

.2 Insulating Glass Unit:

.1 Insulating glass units: To CAN/CGSB-12.8, double glazed, hermetically sealed, PIB primary seal, two component silicone secondary seal, argon filled insulating glass units with 13 mm low conductance stainless steel warm edge spacer.

.2 IGU (25mm thick): 6 mm tempered glass, both lites, with low-E coating (Solarban 60 by PPG) on surface #2.

.3 Opaque Insulating Sandwich Panel

.1 Refer to Glazing Type G5 in 08 80 00 Glass and Glazing.

.4 Aluminum Doors

.1 Aluminum-framed swing door with glass insert suitable for inclusion in aluminum -framed storefront system, constructed and finished to match storefront

.2 Refer to Section 08 11 17 – Aluminum Doors

2.4 ALUMINUM-FRAMED STOREFRONT SYSTEM FABRICATION

.1 Do aluminum welding to CAN/CSA W59.2.

.2 Fabricate aluminum assemblies of extruded sections to sizes and profiles indicated.

.1 Ensure verticals and horizontals are extrusions designed for shear block or screw spline corner construction.

.3 Construct units square, plumb and free from distortion, waves, twists, buckles or other defects detrimental to performance or appearance.

.4 Fabricate aluminum-framed storefront with minimum clearances and shim spacing around panel perimeter and ensure installation and dynamic movement of perimeter seal is enabled.

.5 Fabricate aluminum framed doors in accordance with Section 08 11 17 – Aluminum Doors.

.6 Accurately fit and secure joints and corners.

.1 Ensure joints are flush, hairline, and weatherproof.

.7 Prepare aluminum-framed storefront to receive anchor devices.

.8 Use only stainless steel or zinc plated concealed fasteners

.1 Ensure fasteners do not penetrate thermal break.

.2 Where fasteners cannot be concealed, countersunk screws finished to match adjacent material may be used upon receipt of written approval from Consultant.

.9 Prepare components to receive doors and openings as indicated.

.10 Reinforce framing members for exterior imposed loads where required.

.11 Visible manufacturer's labels are not permitted.

2.5 FINISHES

.1 Finish exposed surfaces of aluminum components in accordance with Aluminum Association Designation System for Aluminum Finishes.

.1 Anodized (Clear):

1. Type: Architectural Class I Clear Anodizing
2. AAMA Specification: Comply with AAMA 611
3. Aluminum Association Designation: AA-M10-C21-A41
4. Colour: Clear 215-R1

2.6 ACCESSORIES

.1 Gasketing: To CCD-45 Extruded EPDM gaskets.

.2 Setting Blocks: To CCD-45 and ASTM D2240 [silicone], 80 Shore A Durometer hardness.

.3 Spacers: To CCD-45 and ASTM D2240, silicone, 50 Shore A Durometer hardness.

.4 Sealant: To CAN/CGSB-19.13, Class 40, one-component, cold-applied, non-sagging silicone.

.1 Refer to 07 90 00 – Sealant.

.5 Sealant Bond Breaker: Open cell foam backer rod sized to suit project requirements.

.6 Flashings: 3 mm (0.125 inches) thick aluminum flashing to profiles indicated and in accordance with Section 07 62 00 - Sheet Metal Flashing and Trim.

.7 Liquid Foam Insulation: Single component, moisture cure, low expansion rate spray-in-place polyurethane liquid foam insulation to ULC-S710.1 and in accordance with manufacturer's written recommendations.

2.7 PRODUCT SUBSTITUTIONS

.1 Ensure components come from one manufacturer.

3. **EXECUTION**

3.1 INSTALLERS

.1 Use only manufacturer authorized installers for installers with 5 years minimum experience in work similar to work of this Section.

3.2 EXAMINATION

.1 Verification of Conditions: Verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for aluminum-framed storefront installation in accordance with manufacturer's written instructions.

.1 Visually inspect substrate in presence of Consultant.

.2 Inform Consultant of unacceptable conditions immediately upon discovery.

.3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Consultant.

3.3 INSTALLATION

.1 Install thermally broken aluminum-framed storefront in accordance with manufacturer's written recommendations.

.2 Do aluminum welding to CAN/CSA W59.2.

.3 Attach thermally broken aluminum-framed storefront assemblies to structure plumb and level, free from warp, and allow for sufficient adjustment to accommodate construction tolerances and other irregularities.

.1 Maintain dimensional tolerances and align with adjacent work.

.2 Use alignment attachments and shims to permanently fasten elements to building structure.

.3 Clean welded surfaces and apply protective primer to field welds and adjacent surfaces.

.4 Install thermal isolation where components penetrate or disrupt building insulation.

.5 Install sill flashings.

.6 Install liquid foam insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.

.7 Install insulating glass units in accordance with Section 08 90 00 – Inuslating Glazing Unit and to manufacturer's written instructions.

.8 Install perimeter sealant [to method required to achieve performance criteria, backing materials, and installation criteria in accordance with Section 07 92 00 - Sealant.

3.4 FIELD QUALITY CONTROL

.1 Site Installation Tolerances:

.1 Variation from plumb: 12 mm per 30 m maximum.

.2 Misalignment of two adjacent panels or members: 0.8 mm maximum.

.3 Sealant space between aluminum-framed storefront and adjacent construction: 13 mm maximum.

3.5 CLEANING

.1 Progress Cleaning: Leave work area clean end of each day.

.2 Final leaning: Upon completion, remove surplus materials, rubbish, tools, and equipment.

.3 Waste Management:

.1 Collect recyclable waste and dispose of or recycle field generated construction waste created during construction or final cleaning related to work of this Section.

.2 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.6 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by aluminum-framed storefront installation.

END OF SECTION 08 43 13

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

LIST OF DRAWINGS

DRAWING NO.	DRAWING TITLE
R000	TITLE PAGE
R100	SITE PLAN
R101	BASEMENT FLOOR PLAN
R102	FIRST FLOOR PLAN
R103	SECOND FLOOR PLAN
R201	NORTH ELEVATION (1954 BUILDING)
R202	NORTH ELEVATION (1966 BUILDING)
R301	WALL SECTIONS
R400	WINDOW ELEVATIONS AND SCHEDULE
R401	MAIN ENTRANCE STOREFRONT AND DOOR REPLACEMENT - SEPARATE PRICE ITEM NO.4
R402	MAIN ENTRANCE STOREFRONT AND DOOR REPLACEMENT - SEPARATE PRICE ITEM NO.4
R403	MAIN ENTRANCE STOREFRONT AND DOOR REPLACEMENT - SEPARATE PRICE ITEM NO.4
R411	WINDOW DETAILS (1966 BUILDING)
R412	WINDOW DETAILS (1966 BUILDING)
R413	WINDOW DETAILS (1966 BUILDING)
R414	WINDOW DETAILS (1954 BUILDING)
R500	TYPICAL DETAILS
R600	PHOTOGRAPHS
R601	PHOTOGRAPHS
R602	PHOTOGRAPHS

2

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

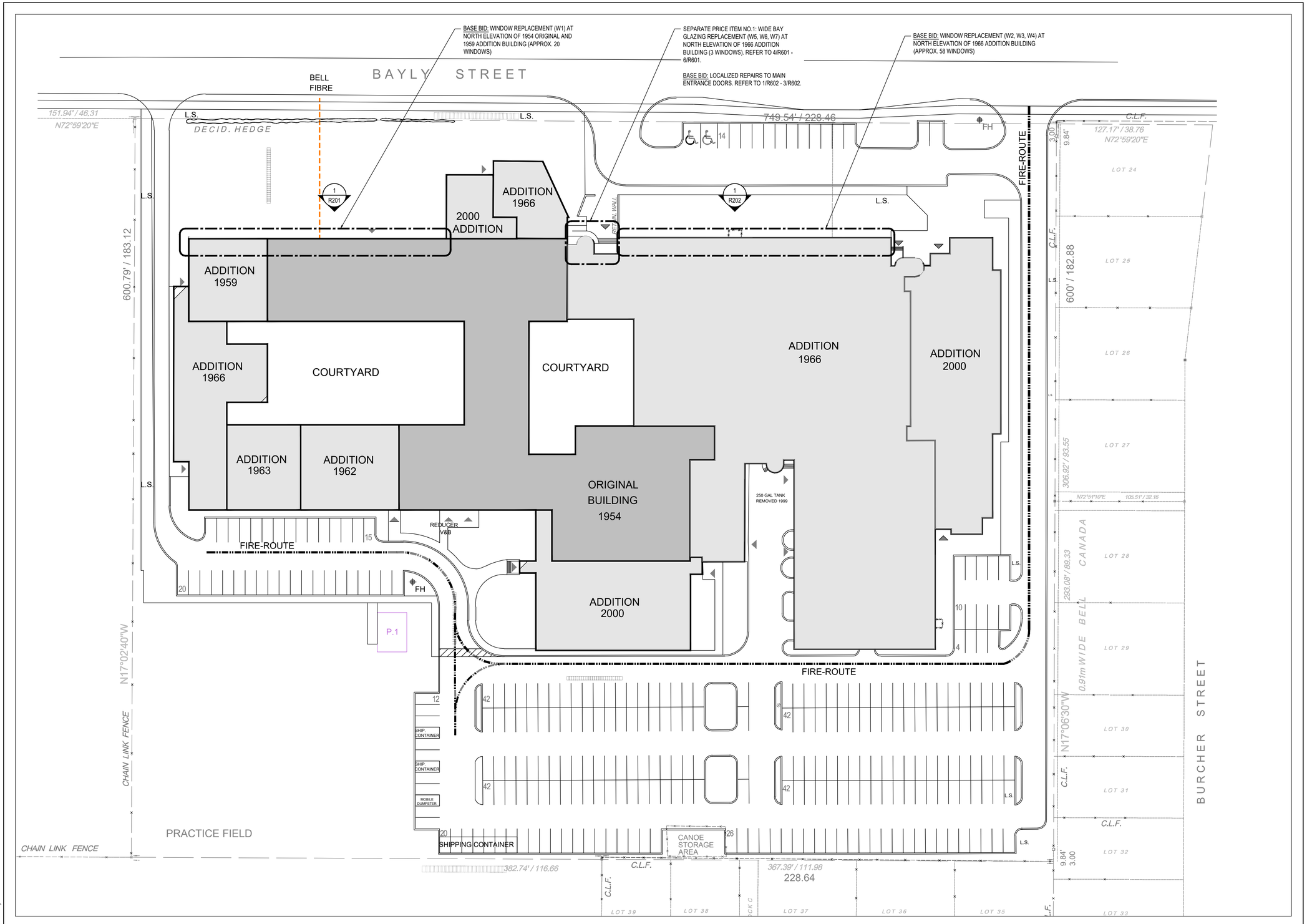
TITLE PAGE

Drawing Number

R000

2026-03-26 (11:43:31 AM)

Original drawing sheet is 22 x 34.



1 / R100 SITE PLAN
SCALE: N.T.S.

2026-03-26 (11:55:14 AM)

Original drawing sheet is 22 x 34.

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0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

North

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

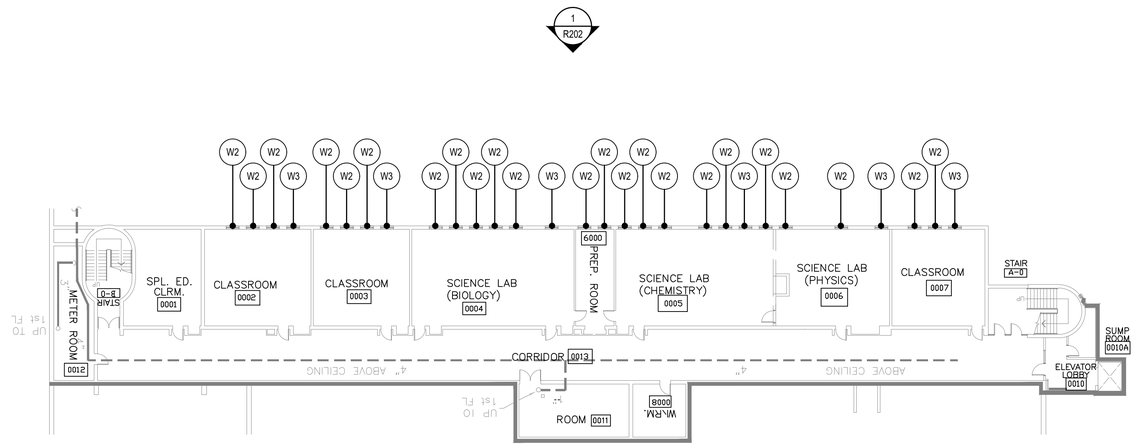
SITE PLAN

Drawing Number

R100

LEGEND

W# WINDOW REPLACEMENT, REFER TO R400



1 / R101 BASEMENT FLOOR PLAN
SCALE: N.T.S.

2026-03-26 (12:12:34 PM)

Original drawing sheet is 22 x 34.

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1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

North

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

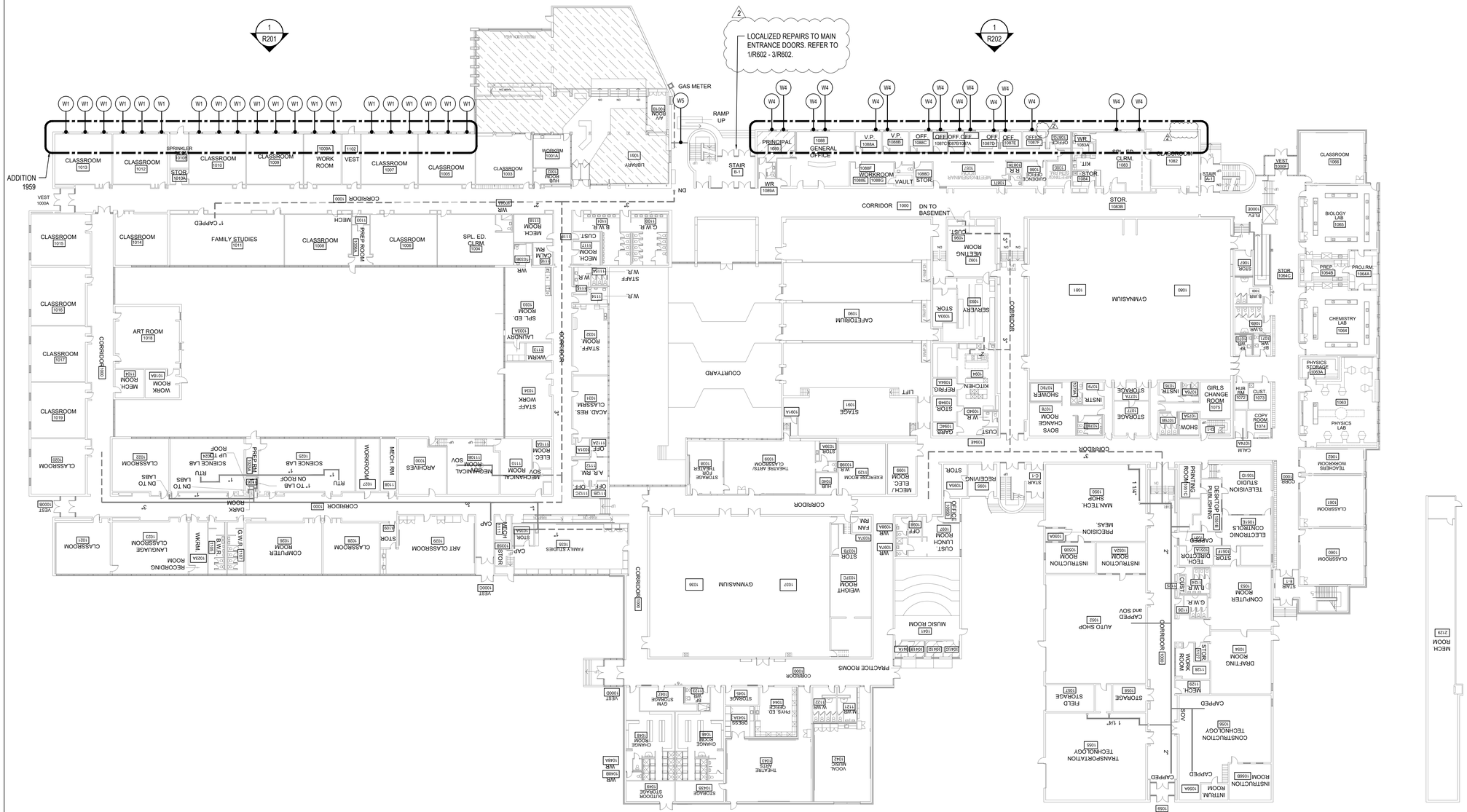
BASEMENT FLOOR PLAN

Drawing Number

R101

LEGEND

W# WINDOW REPLACEMENT, REFER TO R400



1 R102 FIRST FLOOR PLAN

SCALE: N.T.S.

2026-03-26 (11:51:36 AM)

Original drawing sheet is 22 x 34.

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No.	Issue Description	YYYY-MM-DD
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1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

North

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

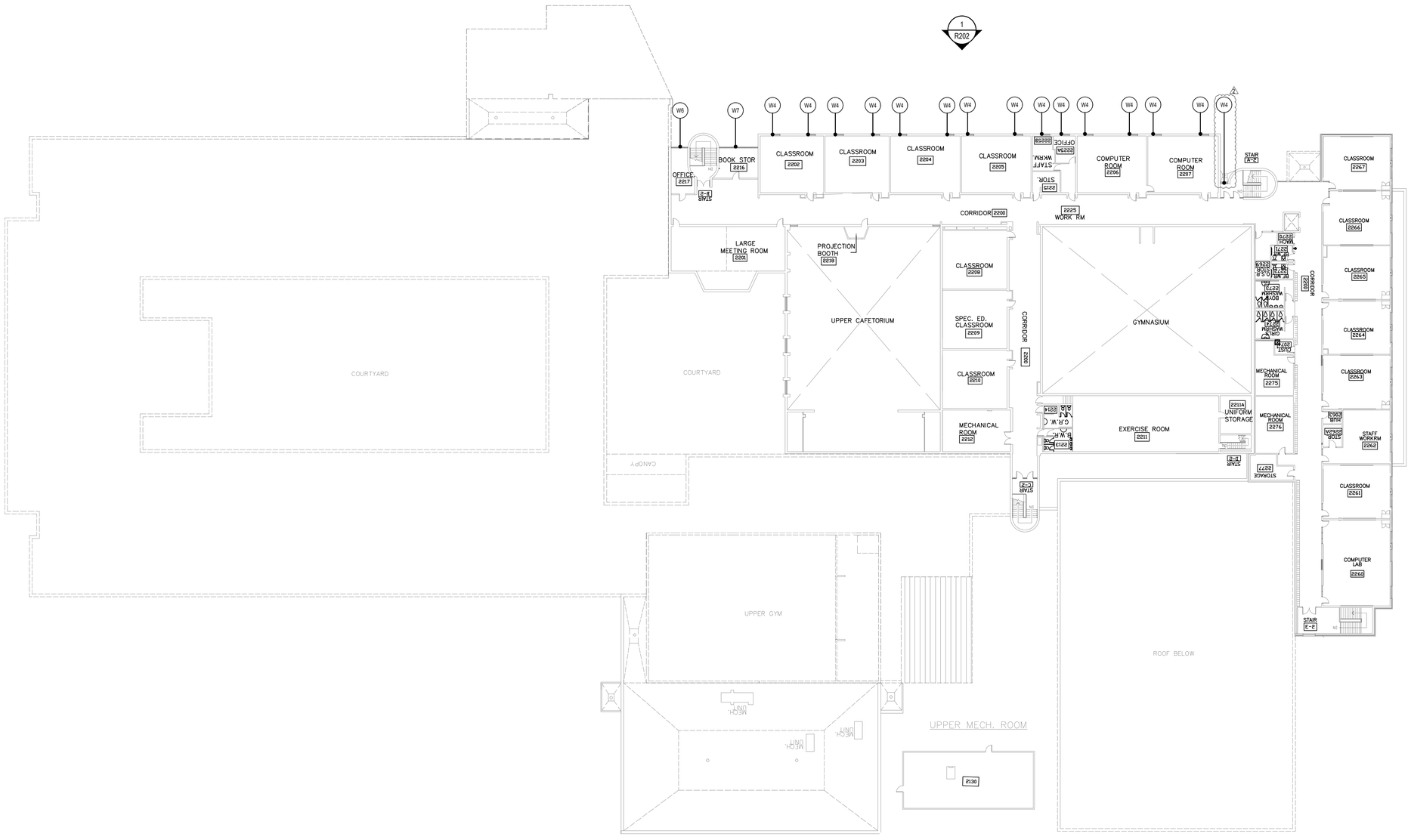
FIRST FLOOR PLAN

Drawing Number

R102

LEGEND

W# WINDOW REPLACEMENT, REFER TO R400



1 R103 SECOND FLOOR PLAN
SCALE: N.T.S.

2026-03-26 (12:01:30 PM)

Original drawing sheet is 22 x 34.

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Project No. 26-0509-003

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1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

North

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

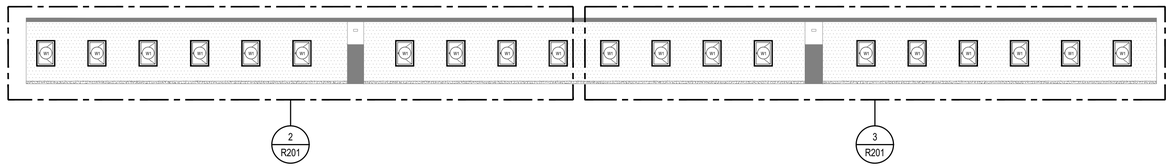
Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

SECOND FLOOR PLAN

Drawing Number

R103



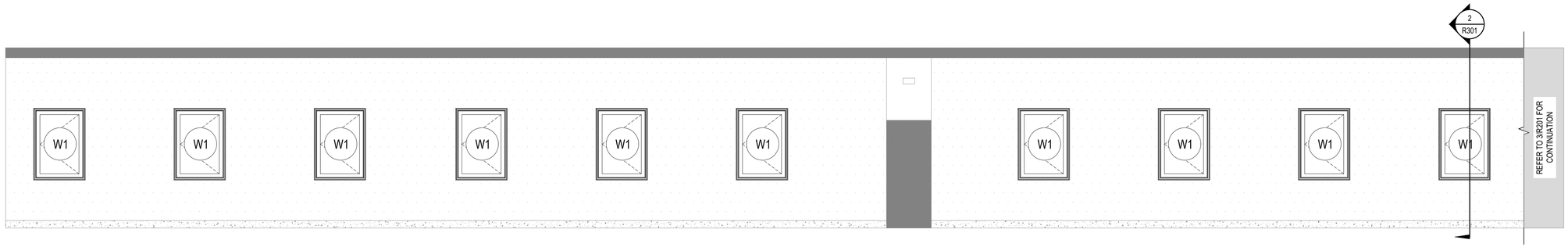
1 R201 **1954 BUILDING ELEVATION**
SCALE: N.T.S.

NOTES:

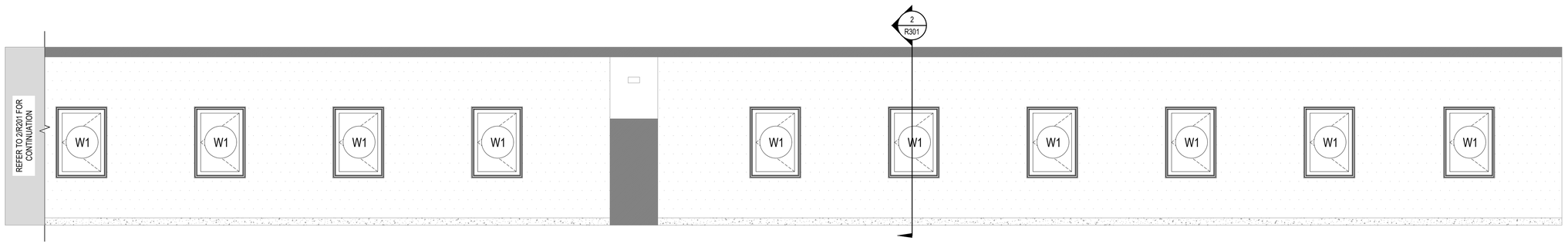
1. REFER TO THE SCOPE OF WORK AND SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS ON SITE. AND WHERE NONE ARE SHOWN, THE CONTRACTOR IS RESPONSIBLE TO TAKE SITE MEASURES WHERE REQUIRED TO COMPLETE THE WORK.

LEGEND

- W# — NEW WINDOW
- AGGREGATE PANEL CLADDING
- METAL PANEL CLADDING / FLASHING
- CONCRETE WALL



2 R201 **1954 BUILDING - PARTIAL ELEVATION**
SCALE: N.T.S.



3 R201 **1954 BUILDING - PARTIAL ELEVATION**
SCALE: N.T.S.

2026-03-26 (11:58:49 AM)

Original drawing sheet is 22 x 34.

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

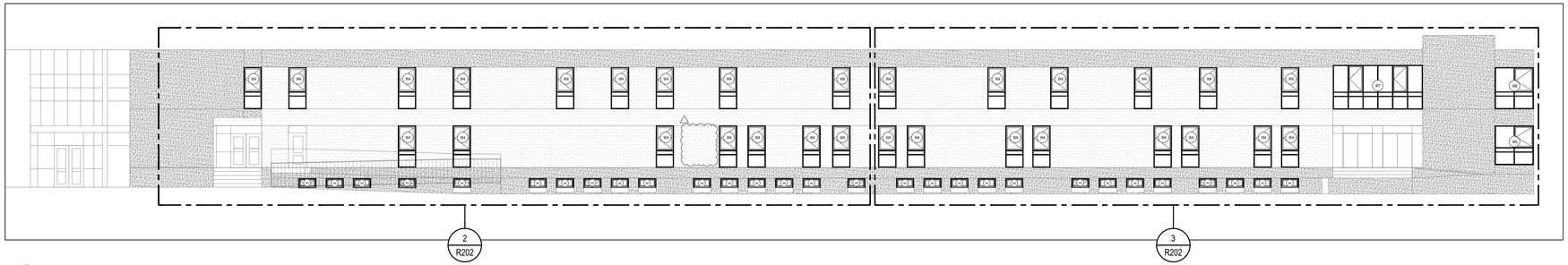
Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

NORTH ELEVATION (1954 BUILDING)

Drawing Number

R201



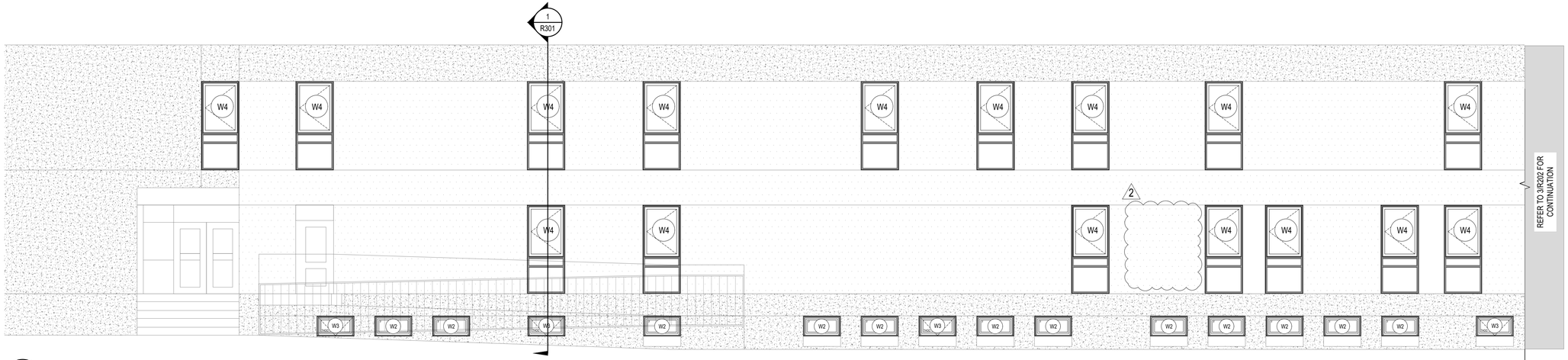
1 R202 **1954 BUILDING ELEVATION**
SCALE: N.T.S.

LEGEND

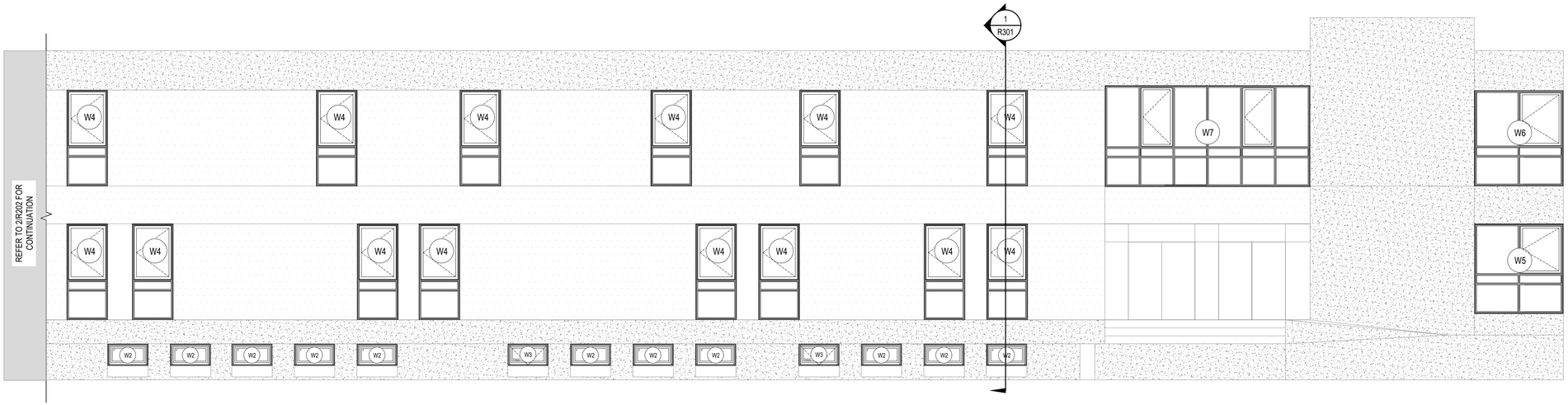
- W# — NEW WINDOW
- AGGREGATE PANEL CLADDING
- METAL PANEL CLADDING / FLASHING
- CONCRETE WALL

NOTES:

1. REFER TO THE SCOPE OF WORK AND SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS ON SITE. AND WHERE NONE ARE SHOWN, THE CONTRACTOR IS RESPONSIBLE TO TAKE SITE MEASURES WHERE REQUIRED TO COMPLETE THE WORK.



2 R202 **1954 BUILDING - PARTIAL ELEVATION**
SCALE: N.T.S.



3 R202 **1954 BUILDING - PARTIAL ELEVATION**
SCALE: N.T.S.

2026-03-26 (12:07:55 PM)

Original drawing sheet is 22 x 34.

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0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

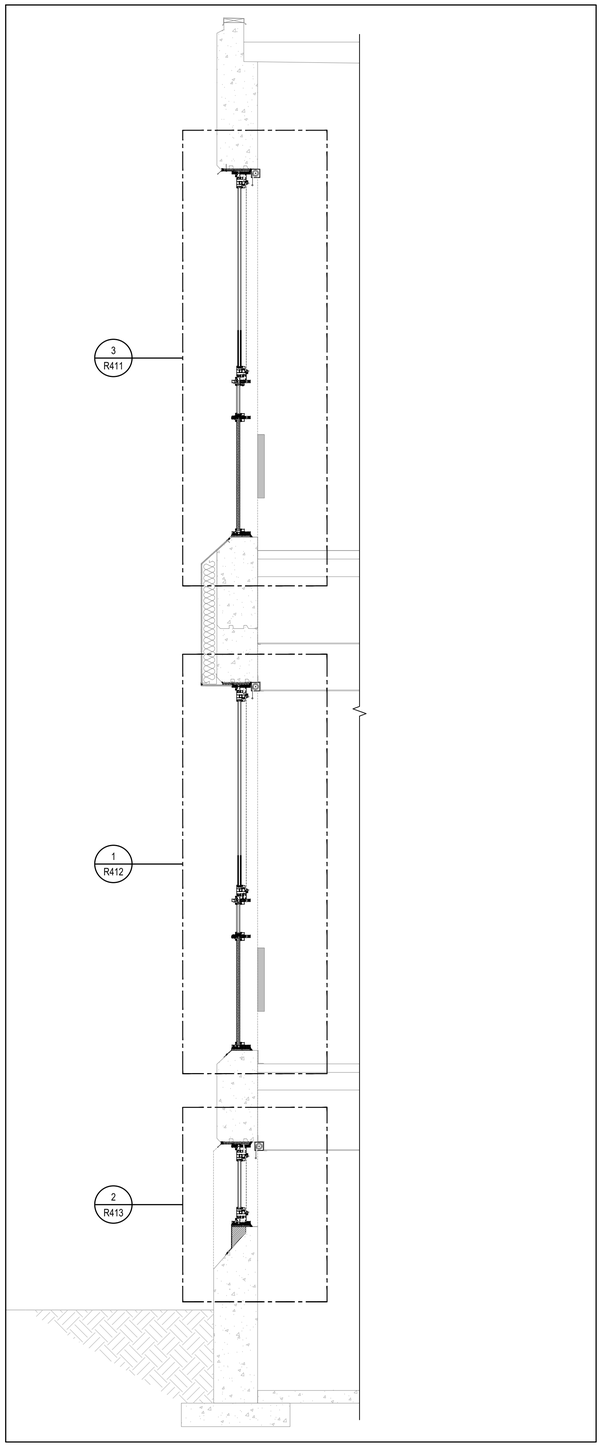
Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

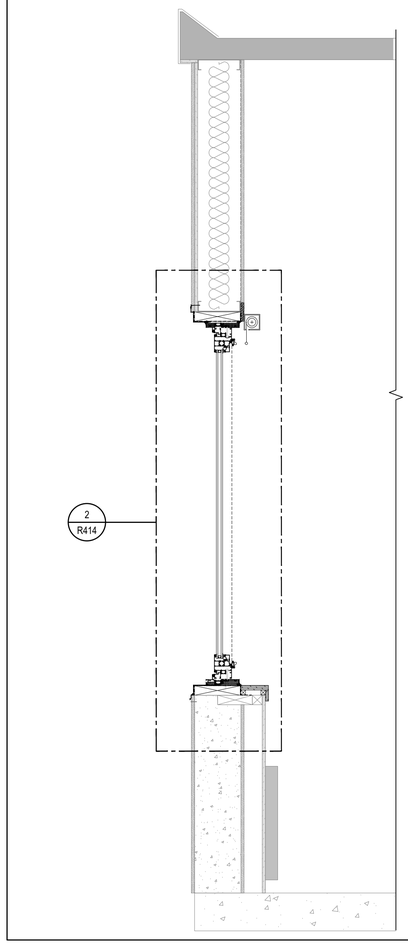
NORTH ELEVATION (1966 BUILDING)

Drawing Number

R202



1 R301 WALL SECTION 1966 ADDITION BUILDING
SCALE: N.T.S.



2 R301 WALL SECTION 1954 ADDITION BUILDING
SCALE: N.T.S.

2026-03-26 (11:54:22 AM)

Original drawing sheet is 22 x 34.

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2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

WALL SECTIONS

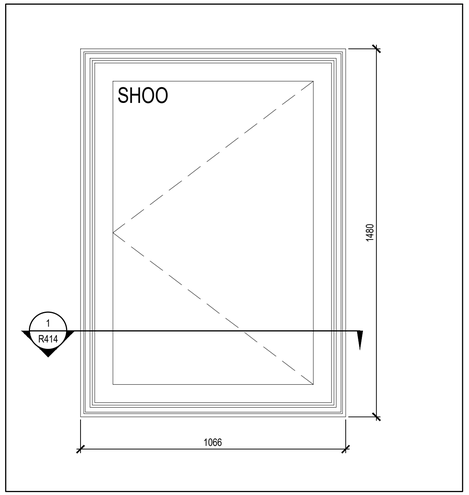
Drawing Number

R301

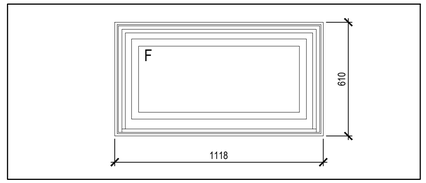
WINDOW REFERENCE	QTY.	DIMENSION WIDTH (INCHES)	DIMENSION HEIGHT (INCHES)	OPERATION	GLAZING TYPE	NOTES
W1	20	42	S8	CASEMENT	G1	ROTO-OPERATOR, FIXED HANDLE, STAINLESS STEEL INSECT SCREEN
W2	23	44	24	FIXED	G1	N/A
W3	6	44	24	AWNING	G1	ROTO OPERATOR, TELEFLEX OPERATOR, STAINLESS STEEL INSECT SCREEN
W4	30	44-1/2	104	SPANDREL/FIXED/CASEMENT	GS/G1/G1	ROTO-OPERATOR, FIXED HANDLE, STAINLESS STEEL INSECT SCREEN
W5	1	97	98	SPANDREL/FIXED/CASEMENT	GS/G1/G1	SEPARATE PRICE: ROTO-OPERATOR, FIXED HANDLE, STAINLESS STEEL INSECT SCREEN
W6	1	104	97	SPANDREL/FIXED/CASEMENT	GS/G1/G1	SEPARATE PRICE: ROTO-OPERATOR, FIXED HANDLE, STAINLESS STEEL INSECT SCREEN
W7	1	223	110	SPANDREL/FIXED/CASEMENT	GS/G1/G1	SEPARATE PRICE: ROTO-OPERATOR, FIXED HANDLE, STAINLESS STEEL INSECT SCREEN

* DIMENSIONS ARE FOR ROUGH OPENING AND ARE APPROXIMATE. ALL DIMENSIONS ARE TO BE VERIFIED BY THE CONTRACTOR ON SITE.

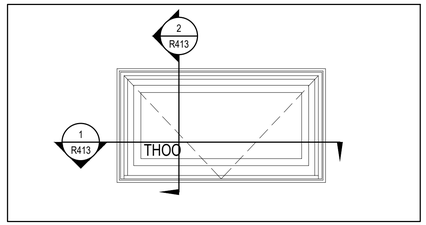
2



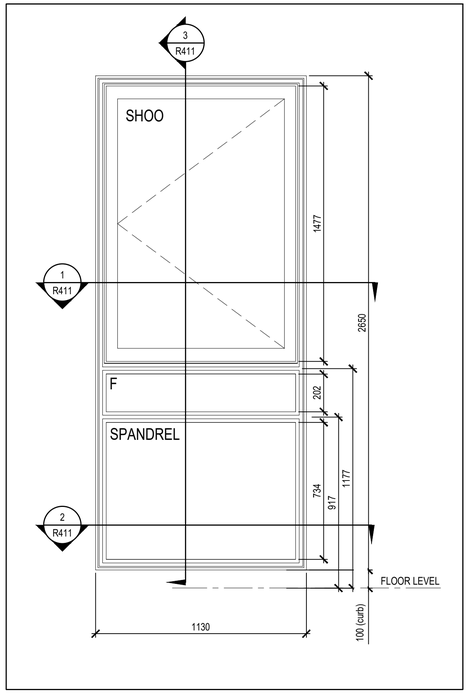
1 R400 WINDOW ELEVATION - W1
SCALE: N.T.S.



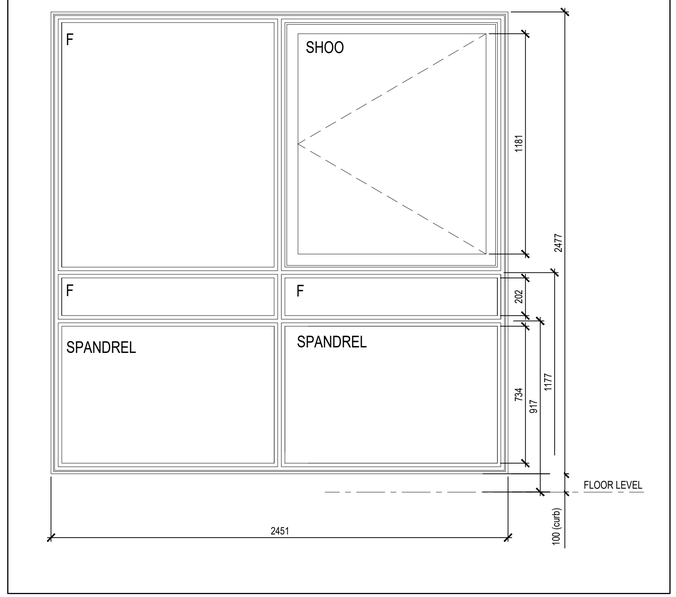
2 R400 WINDOW ELEVATION - W2
SCALE: N.T.S.



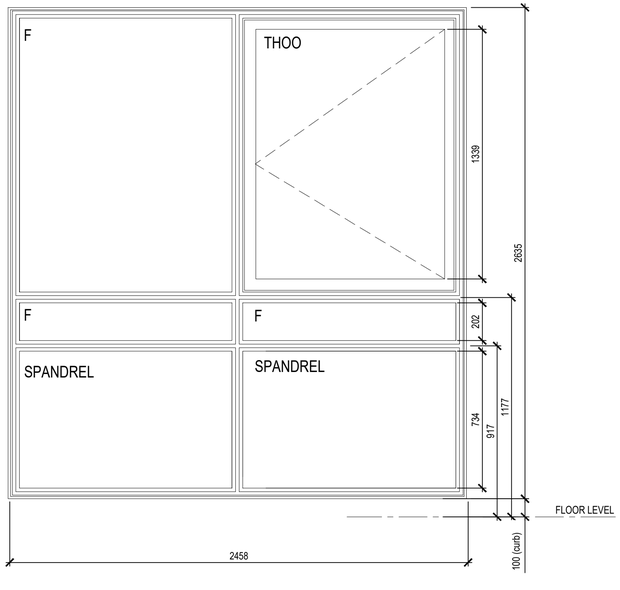
3 R400 WINDOW ELEVATION - W3
SCALE: N.T.S.



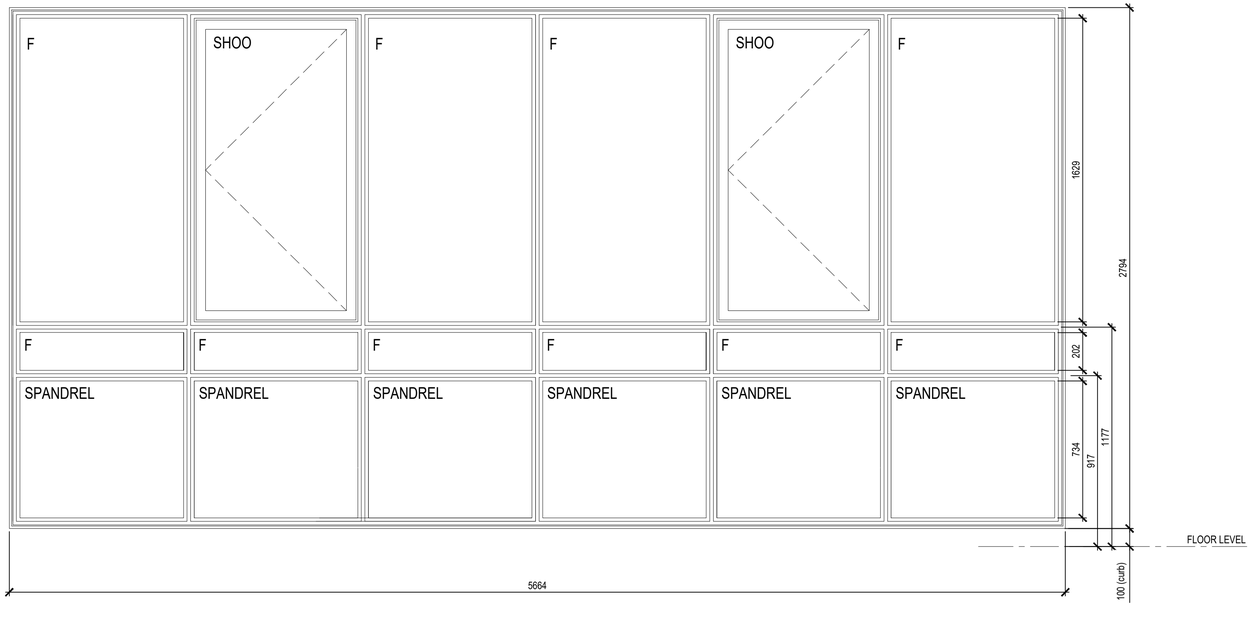
4 R400 WINDOW ELEVATION - W4
SCALE: N.T.S.



5 R400 WINDOW ELEVATION - W5 (SEPARATE PRICE ITEM NO.1)
SCALE: N.T.S.



6 R400 WINDOW ELEVATION - W6 (SEPARATE PRICE ITEM NO.2) 2
SCALE: N.T.S.



7 R400 WINDOW ELEVATION - W7 (SEPARATE PRICE ITEM NO.3) 2
SCALE: N.T.S.

2026-03-26 (11:49:41 AM)

Original drawing sheet is 22 x 34.

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Professional Seal

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Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

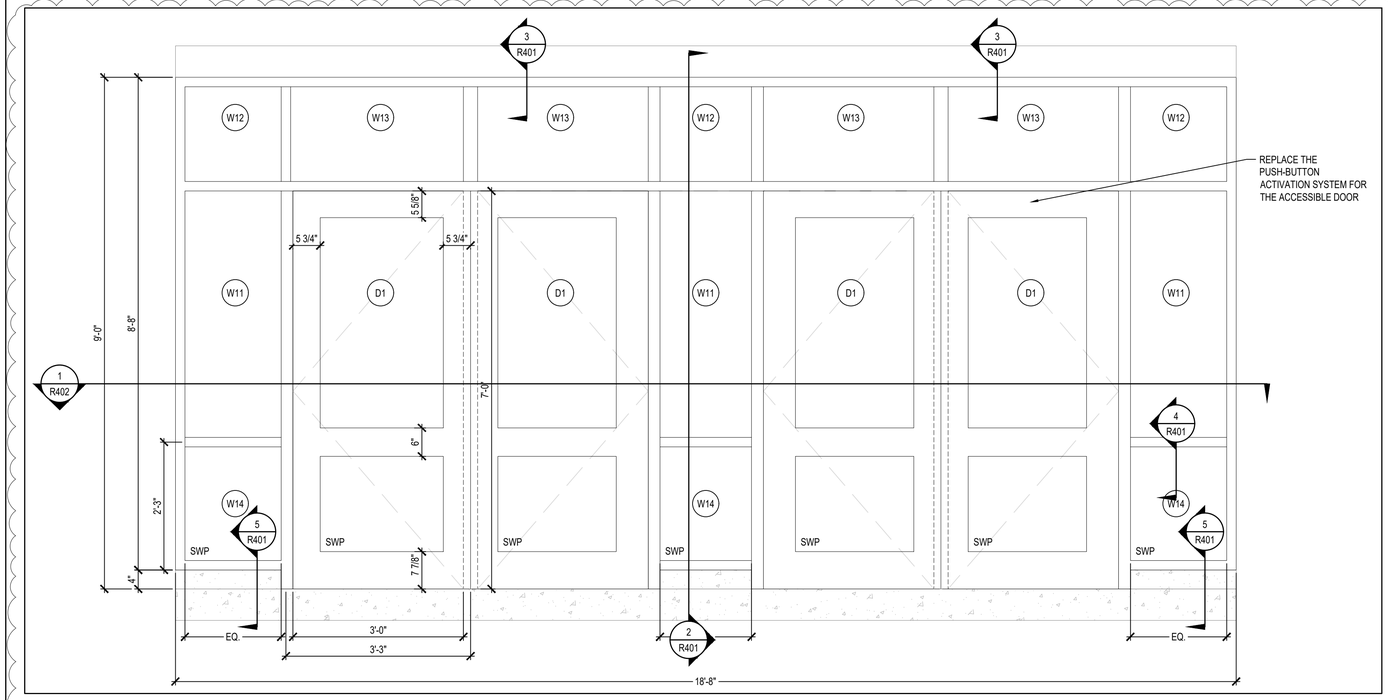
Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

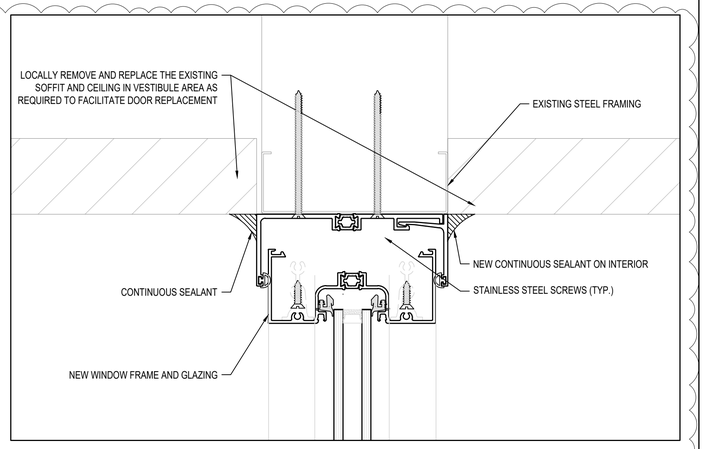
WINDOW ELEVATIONS AND SCHEDULE

Drawing Number

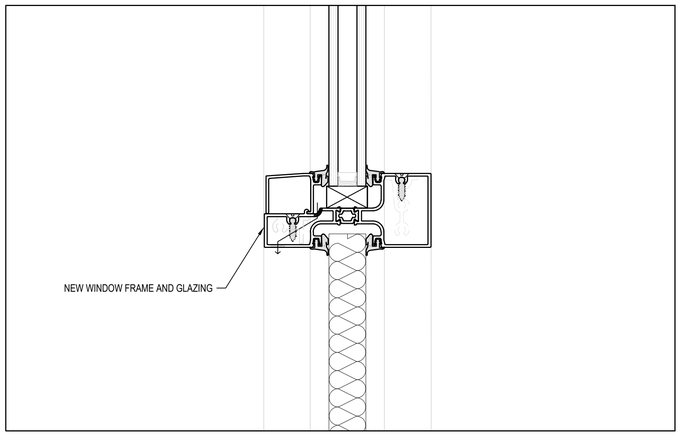
R400



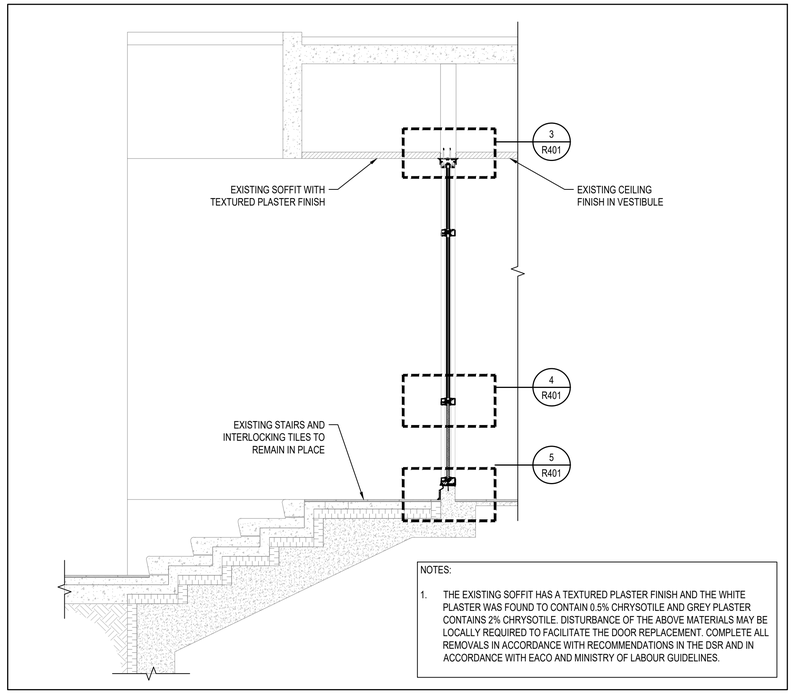
1 R401 NEW MAIN ENTRANCE DOORS ELEVATION
SCALE: N.T.S.



3 R401 HEAD SECTION
SCALE: N.T.S.



4 R401 HORIZONTAL TRANSOM DETAIL
SCALE: N.T.S.



NOTES:

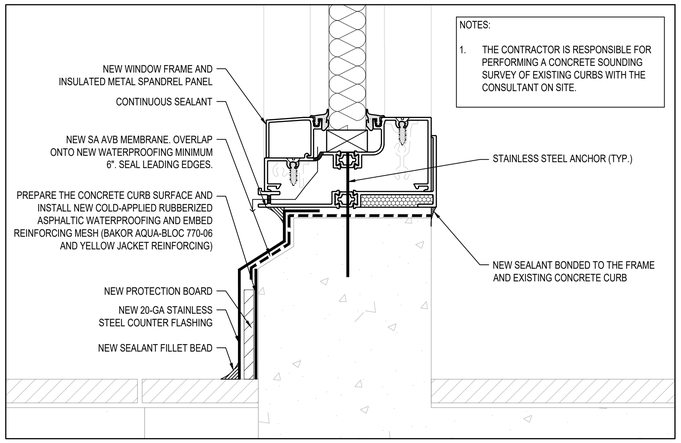
1. THE EXISTING SOFFIT HAS A TEXTURED PLASTER FINISH AND THE WHITE PLASTER WAS FOUND TO CONTAIN 0.5% CHRYSOTILE AND GREY PLASTER CONTAINS 2% CHRYSOTILE. DISTURBANCE OF THE ABOVE MATERIALS MAY BE LOCALLY REQUIRED TO FACILITATE THE DOOR REPLACEMENT. COMPLETE ALL REMOVALS IN ACCORDANCE WITH RECOMMENDATIONS IN THE DSR AND IN ACCORDANCE WITH EACO AND MINISTRY OF LABOUR GUIDELINES.

2 R401 NEW MAIN ENTRANCE DOORS SECTION
SCALE: N.T.S.

NOTES;

1. ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ON SITE.
2. CONTRACTOR TO ALLOW FOR VARIOUS TOLERANCES AND MULTIPLE INTERIOR TRIM SECTIONS.
3. NOT ALL MECHANICAL, LIGHT, PLUMBING, ELECTRICAL INTERFERENCES ARE SHOWN. CONTRACTOR TO VERIFY ON SITE.
4. CONTRACTOR TO PROVIDE HOARDING AS NEEDED TO MAINTAIN WEATHER TIGHT SEAL DURING CONSTRUCTION.
5. CONTRACTOR TO PROVIDE ENGINEERED SHOP DRAWINGS FOR ALL NEW DOORS AND STOREFRONT FRAMING AND GLAZING. SEE SPECS.

ID	QTY	HEIGHT	WIDTH	GLAZING	HARDWARE
W11	3	4'-5 1/2"	1'-11"	GL1	
W12	3	1'-10"	1'-9"	GL1	
W13	4	1'-10"	2'-9"	GL1	
W14	3	2'-0"	1'-9"	SWP	
D1	4	3'-0"	1'-11"	GL1 AND SWP	REFER TO SPECS



5 R401 SILL SECTION
SCALE: N.T.S.

2026-03-26 (11:56:55 AM)

Original drawing sheet is 22 x 34.

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Professional Seal

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2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

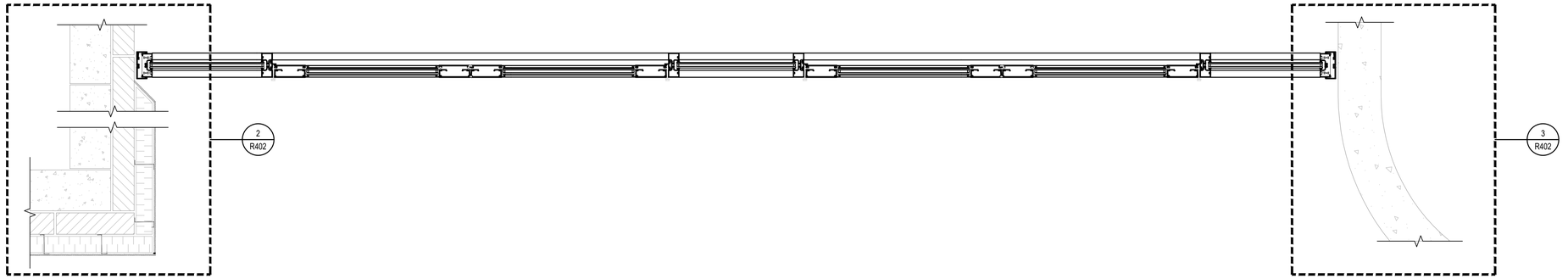
Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

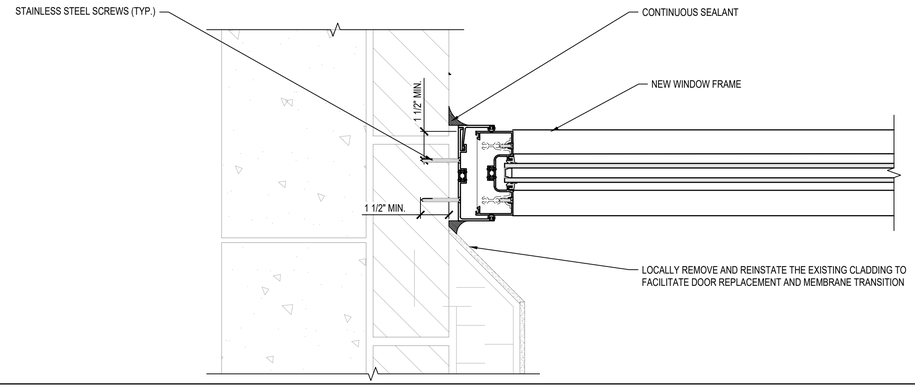
MAIN ENTRANCE STOREFRONT AND DOOR REPLACEMENT - SEPARATE PRICE ITEM NO.4

Drawing Number

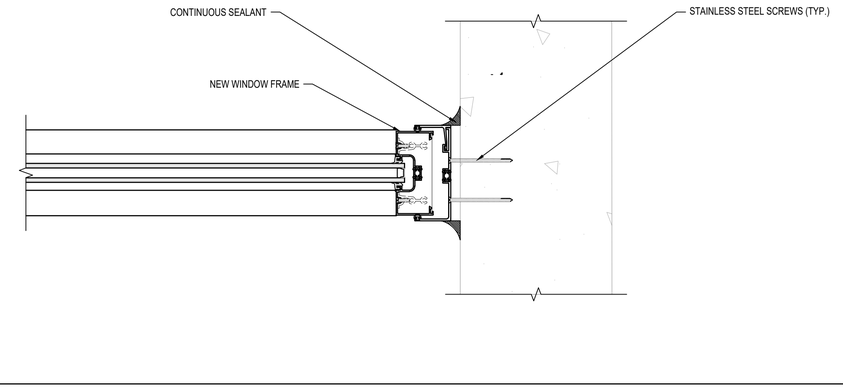
R401



1 R402 NEW MAIN ENTRANCE DOORS PLAN
SCALE: N.T.S.



2 R402 JAMB SECTION
SCALE: N.T.S.



3 R402 JAMB SECTION
SCALE: N.T.S.

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR ADDENDUM 1	2026-03-17

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY STREET EAST, AJAX, ON

Designed By:	S.R.	Scale:	AS NOTED
Drawn By:	Y.M.	Date:	2026-03-10

Drawing Title

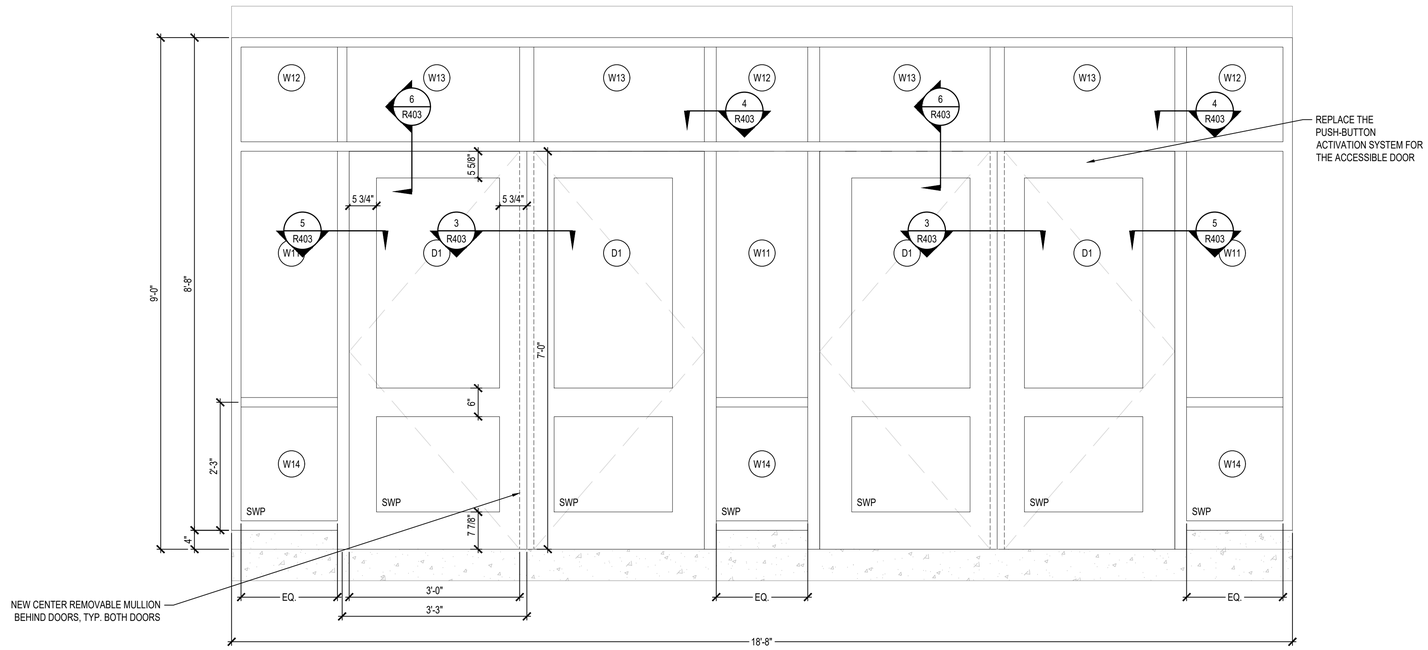
MAIN ENTRANCE STOREFRONT AND DOOR REPLACEMENT - SEPARATE PRICE ITEM NO.4

Drawing Number

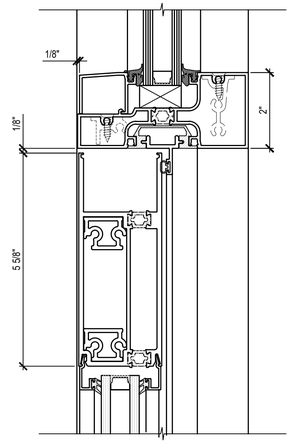
R402

2026-03-26 (12:06:05 PM)

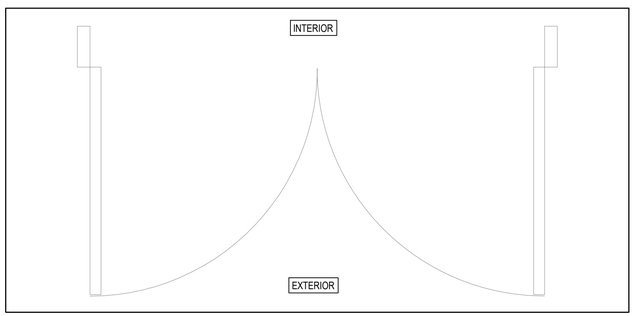
Original drawing sheet is 22 x 34.



1 R403 DOOR ELEVATION
SCALE: N.T.S.



6 R403 DOOR AT HORIZONTAL
SCALE: N.T.S.

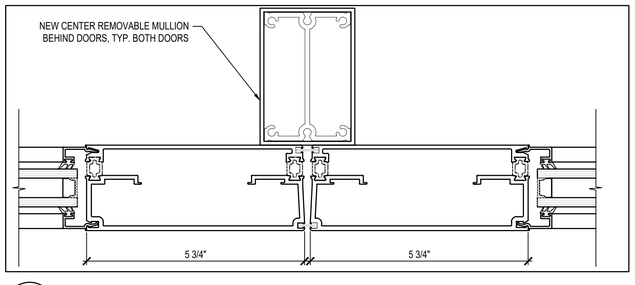


2 R403 DOOR HANDING
SCALE: N.T.S.

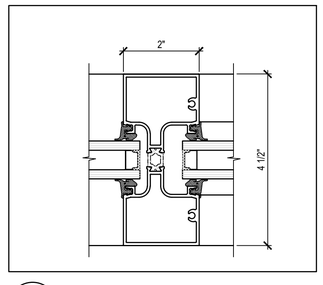
DOOR NUMBER	DOOR DIMENSIONS		DOOR THICKNESS	DOOR SWING	DOOR FRAME	DOOR MATERIAL	DOOR FINISH
	WIDTH	HEIGHT					
D1	3'-0"	7'-0"	2 1/4"	RHR/LHR	AL	AL	ANODIZED ALUMINUM

NOTES;

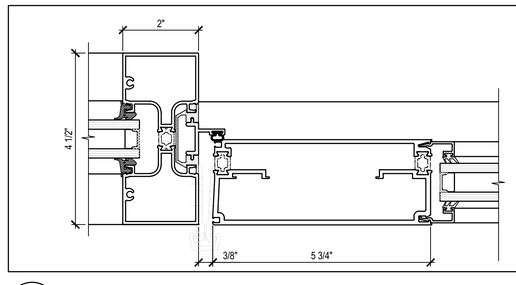
1. ALL DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY ON SITE.
2. CONTRACTOR TO ALLOW FOR VARIOUS TOLERANCES AND MULTIPLE INTERIOR TRIM SECTIONS.
3. NOT ALL MECHANICAL, LIGHT, PLUMBING, ELECTRICAL INTERFERENCES ARE SHOWN. CONTRACTOR TO VERIFY ON SITE.
4. CONTRACTOR TO PROVIDE HOARDING AS NEEDED TO MAINTAIN WEATHER TIGHT SEAL DURING CONSTRUCTION.



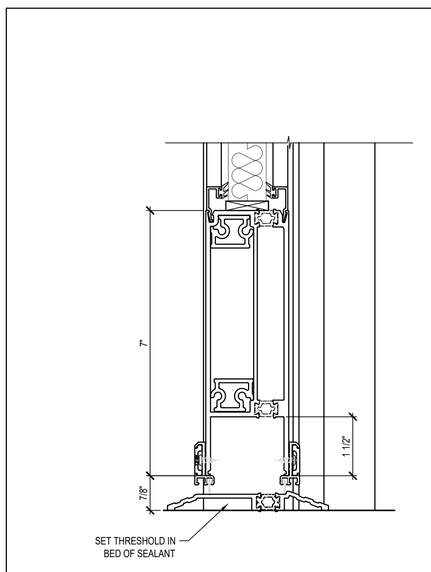
3 R403 STILE SECTION
SCALE: N.T.S.



4 R403 MULLION SECTION AT TRANSOM
SCALE: N.T.S.



5 R403 CONTINUOUS HINGE DETAIL
SCALE: N.T.S.



7 R403 SILL SECTION DETAIL
SCALE: N.T.S.

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

MAIN ENTRANCE STOREFRONT AND DOOR REPLACEMENT - SEPARATE PRICE ITEM NO.4

Drawing Number

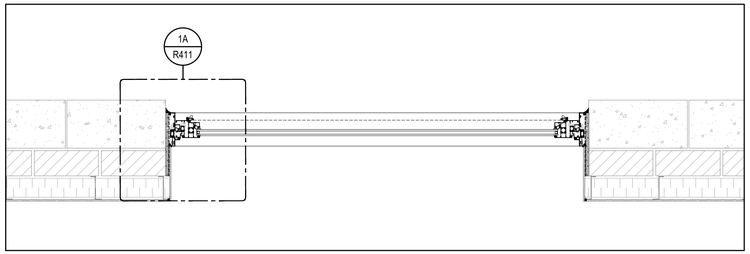
R403

2026-03-26 (11:57:59 AM)

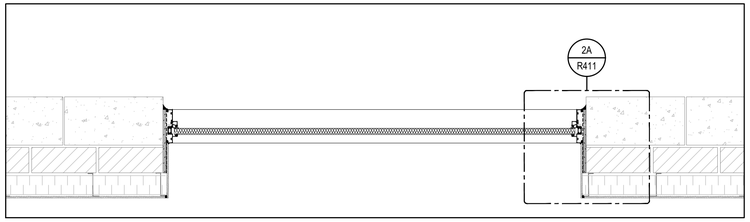
Original drawing sheet is 22 x 34.

NOTES:

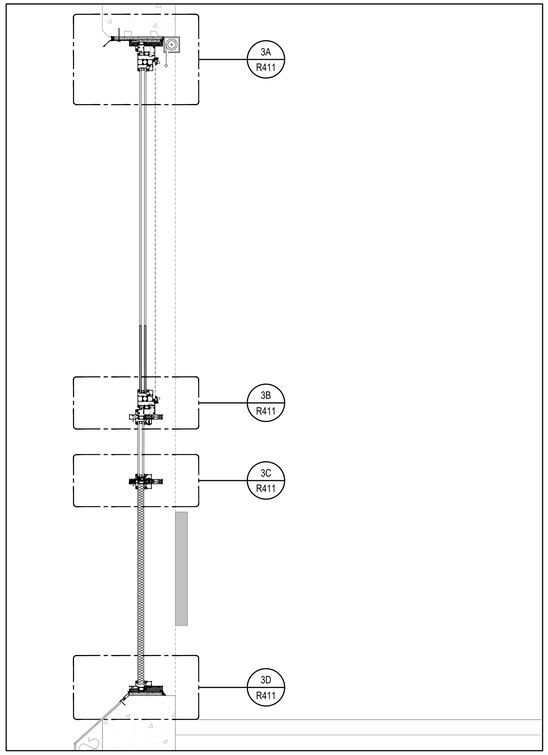
1. WINDOW MOCK-UP INSTALLATION TO BE COMPLETED WITH THE CONSULTANT ON SITE PRIOR TO WHOLESALE REPLACEMENT.
2. THE CONTRACTOR TO SITE VERIFY ALL DIMENSIONS.
3. NO FASTENERS ARE TO BE INSTALLED THROUGH THE WINDOW SILL FRAMING.
4. REPLACE ALL EXISTING ROLLER SHADES.



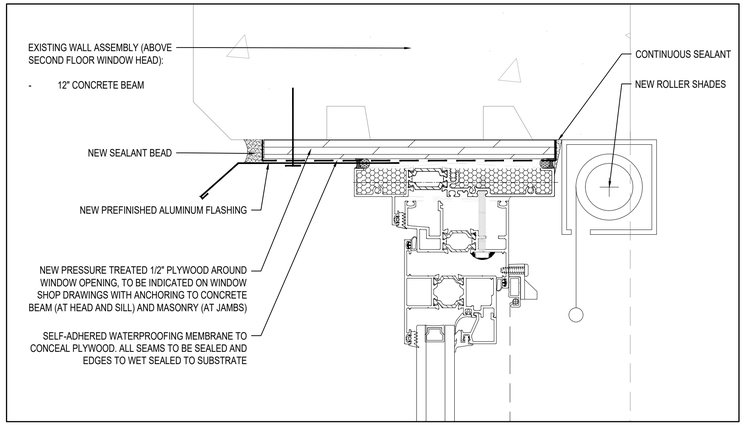
1 R411 1966 BUILDING - WINDOW PLAN AT CSMT
SCALE: N.T.S.



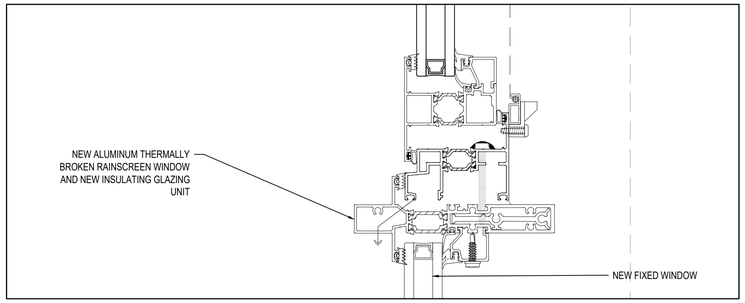
2 R411 1966 BUILDING - WINDOW PLAN AT SPANDREL
SCALE: N.T.S.



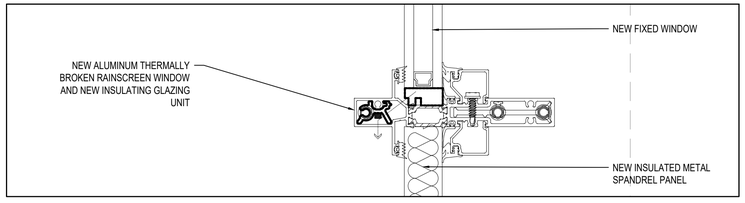
3 R411 W4 WINDOW SECTION AT SECOND FLOOR
SCALE: N.T.S.



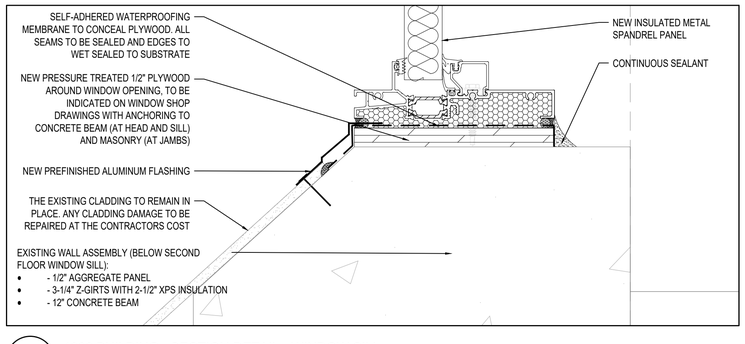
3A R411 1966 BUILDING - SECTION DETAIL - WINDOW HEAD
SCALE: N.T.S.



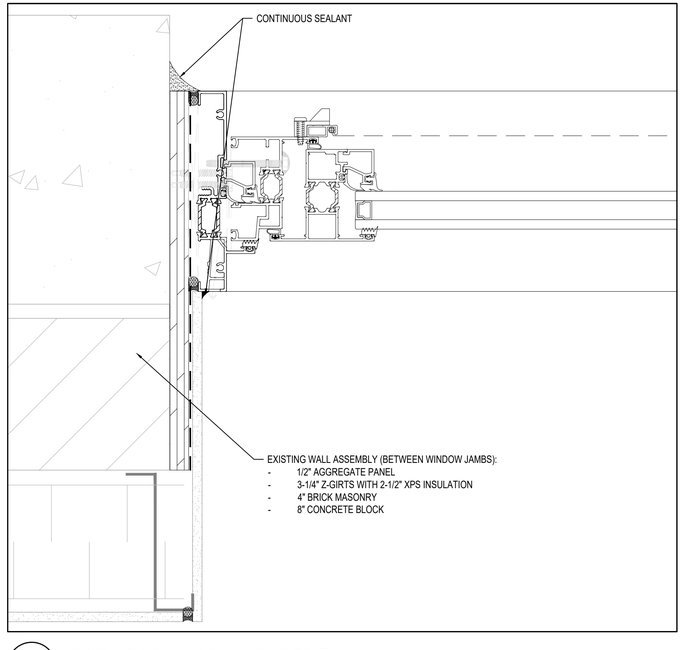
3B R411 1966 BUILDING - SECTION DETAIL - CASEMENT TO FIXED GLAZING
SCALE: N.T.S.



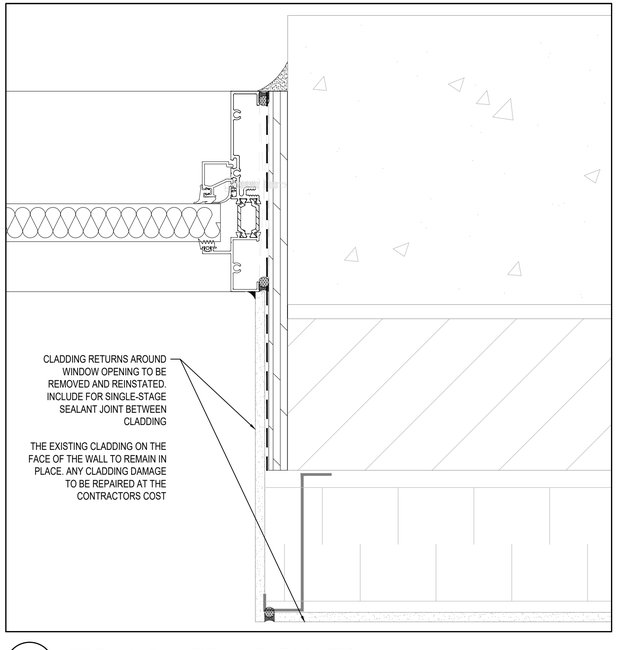
3C R411 1966 BUILDING - SECTION DETAIL - FIXED GLAZING TO SPANDREL
SCALE: N.T.S.



3D R411 1966 BUILDING - SECTION DETAIL - WINDOW SILL
SCALE: N.T.S.



1A R411 1966 BUILDING - WINDOW JAMB AT CSMT
SCALE: N.T.S.



2A R411 1966 BUILDING - WINDOW JAMB AT SPANDREL
SCALE: N.T.S.

2026-03-26 (11:47:28 AM)

Original drawing sheet is 22 x 34.

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

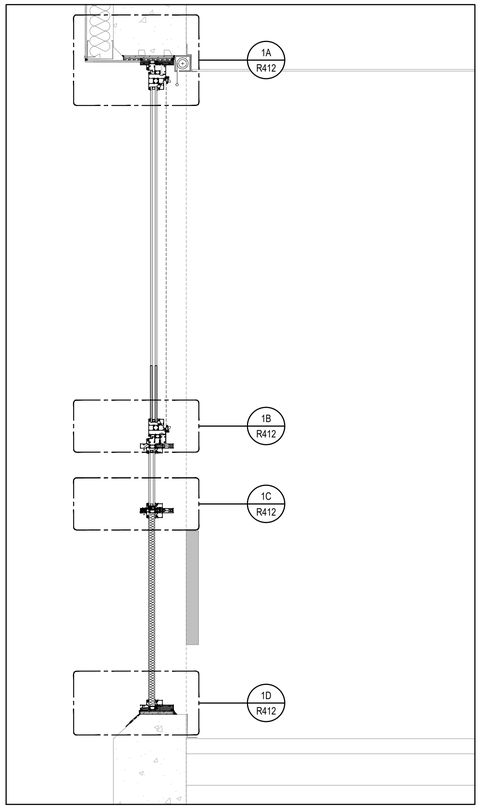
WINDOW DETAILS (1966 BUILDING)

Drawing Number

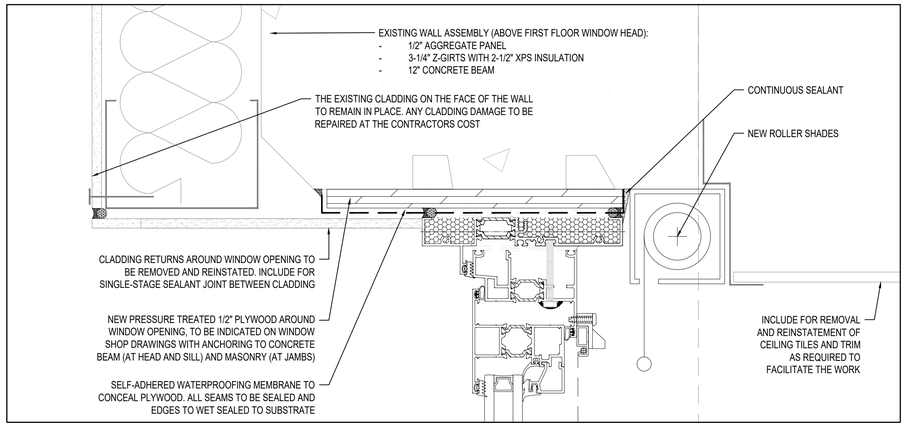
R411

NOTES:

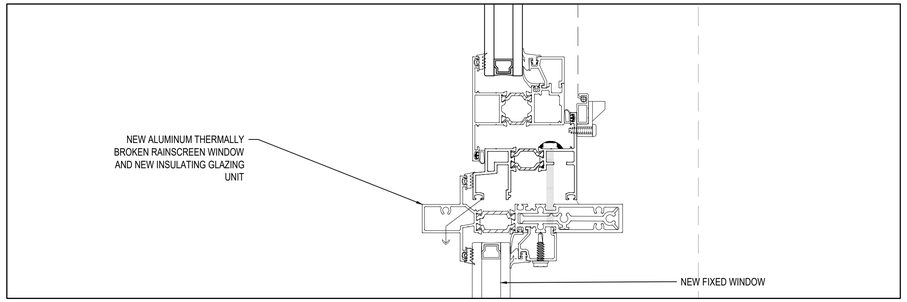
1. WINDOW MOCK-UP INSTALLATION TO BE COMPLETED WITH THE CONSULTANT ON SITE PRIOR TO WHOLESALE REPLACEMENT.
2. THE CONTRACTOR TO SITE VERIFY ALL DIMENSIONS.
3. NO FASTENERS ARE TO BE INSTALLED THROUGH THE WINDOW SILL FRAMING.
4. REPLACE ALL EXISTING ROLLER SHADES.



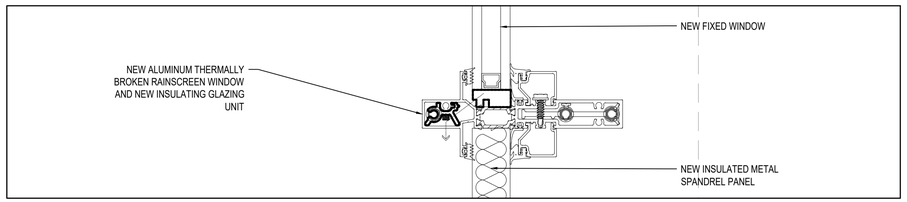
1 / R412 W4 WINDOW SECTION AT FIRST FLOOR
SCALE: N.T.S.



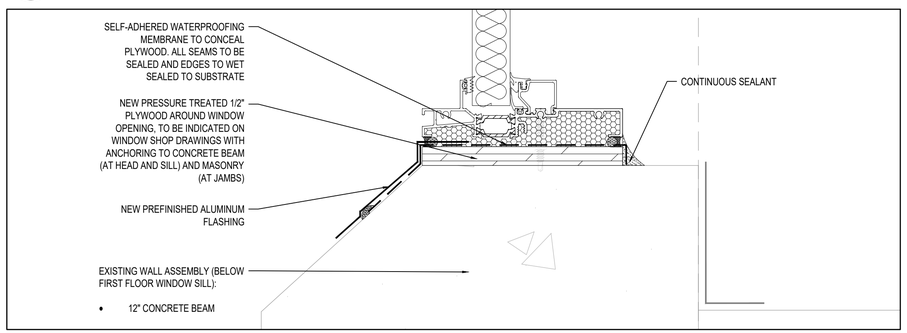
1A / R412 1966 BUILDING - SECTION DETAIL - WINDOW HEAD
SCALE: N.T.S.



1B / R412 1966 BUILDING - SECTION DETAIL - CASEMENT TO FIXED GLAZING
SCALE: N.T.S.



1C / R412 1966 BUILDING - SECTION DETAIL - FIXED GLAZING TO SPANDREL
SCALE: N.T.S.



1D / R412 1966 BUILDING - SECTION DETAIL - WINDOW SILL
SCALE: N.T.S.

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Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

WINDOW DETAILS (1966 BUILDING)

Drawing Number

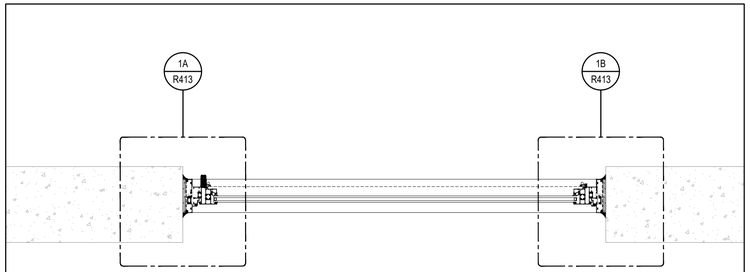
R412

2026-03-26 (11:44:27 AM)

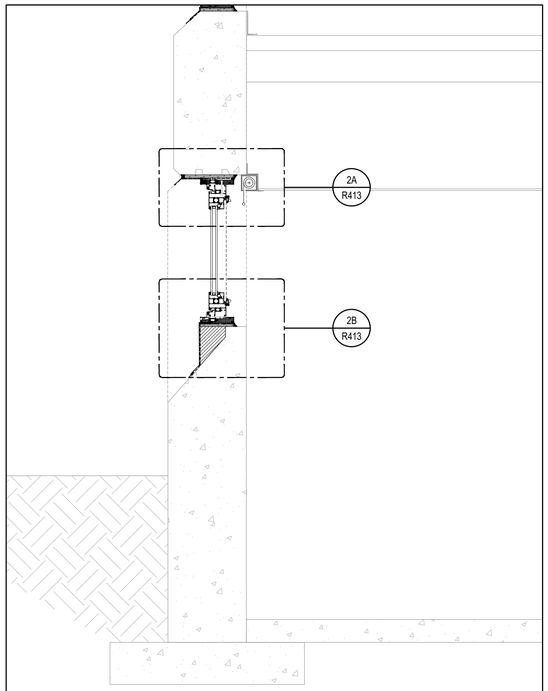
Original drawing sheet is 22 x 34.

NOTES:

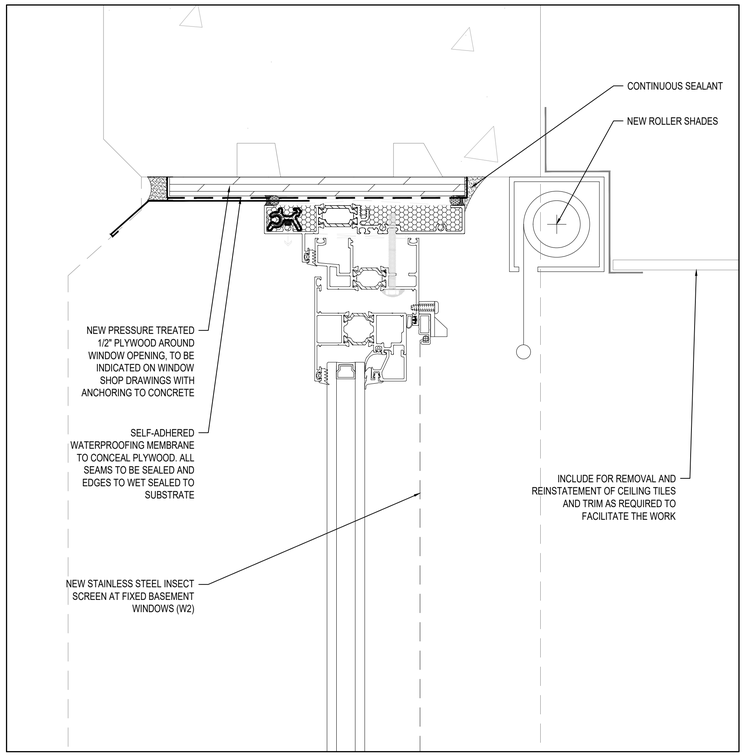
1. WINDOW MOCK-UP INSTALLATION TO BE COMPLETED WITH THE CONSULTANT ON SITE PRIOR TO WHOLESALE REPLACEMENT.
2. THE CONTRACTOR TO SITE VERIFY ALL DIMENSIONS.
3. NO FASTENERS ARE TO BE INSTALLED THROUGH THE WINDOW SILL FRAMING.
4. REPLACE ALL EXISTING ROLLER SHADES.
5. DETAILS FOR W2 WINDOWS ARE SIMILAR; HOWEVER, W2 IS FIXED GLAZING.



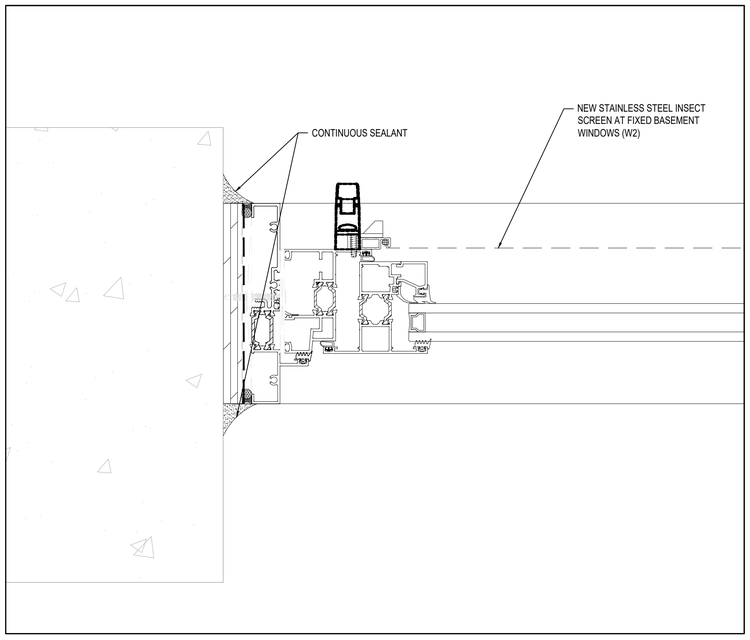
1 / R413 1966 BUILDING - WINDOW PLAN AT W3
SCALE: N.T.S.



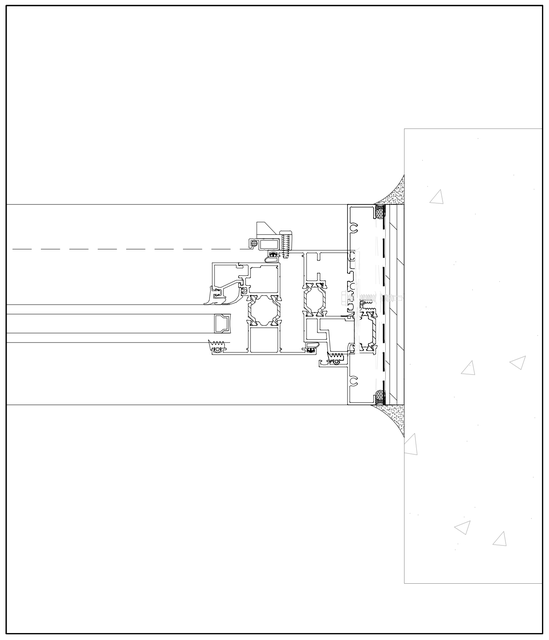
2 / R413 W3 WINDOW SECTION AT BASEMENT
SCALE: N.T.S.



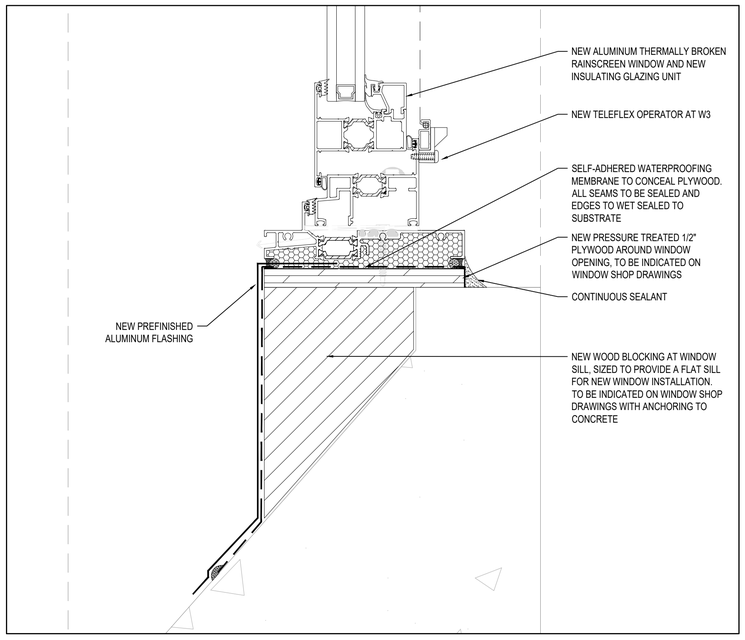
2A / R413 1966 BUILDING - SECTION DETAIL - W3 WINDOW HEAD
SCALE: N.T.S.



1A / R413 1966 BUILDING - WINDOW JAMB AT W3
SCALE: N.T.S.



1B / R413 1966 BUILDING - WINDOW JAMB AT W3
SCALE: N.T.S.



2B / R413 1966 BUILDING - SECTION DETAIL - W3 WINDOW SILL
SCALE: N.T.S.

2026-03-26 (12:10:46 PM)

Original drawing sheet is 22 x 34.

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

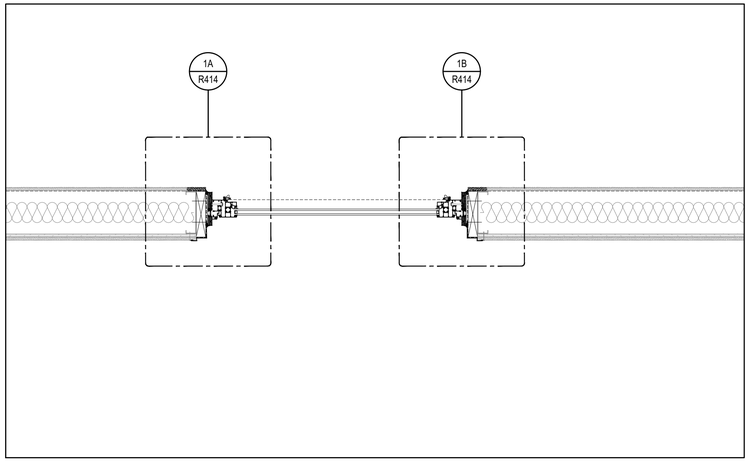
WINDOW DETAILS (1966 BUILDING)

Drawing Number

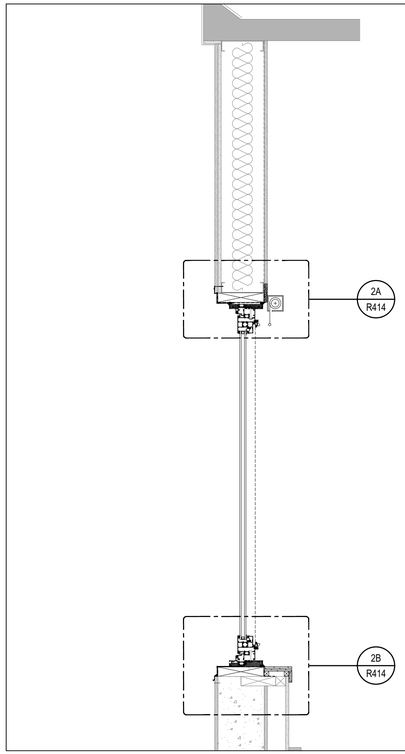
R413

NOTES:

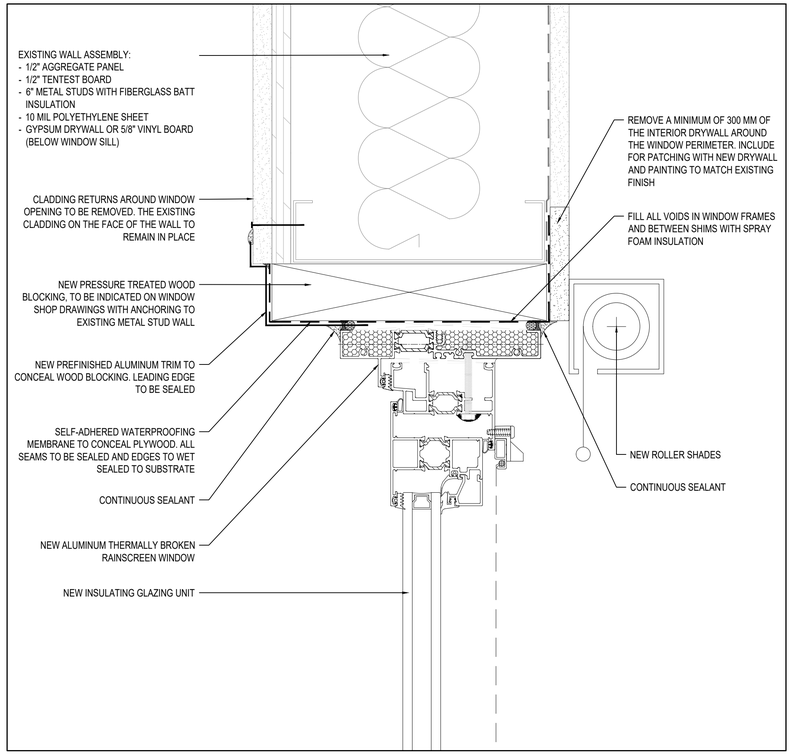
1. WINDOW MOCK-UP INSTALLATION TO BE COMPLETED WITH THE CONSULTANT ON SITE PRIOR TO WHOLESALE REPLACEMENT.
2. THE CONTRACTOR TO SITE VERIFY ALL DIMENSIONS.
3. NO FASTENERS ARE TO BE INSTALLED THROUGH THE WINDOW SILL FRAMING.
4. REMOVE THE EXISTING CLADDING RETURNS AROUND THE WINDOW OPENING.
5. REPAIR CORRODED STEEL STUDS AROUND THE WINDOW OPENING.
6. REMOVE A MINIMUM OF 300 MM OF THE INTERIOR DRYWALL AROUND THE WINDOW PERIMETER. INCLUDE FOR PATCHING WITH NEW DRYWALL AND PAINTING TO MATCH EXISTING FINISH.
7. REPLACE ALL EXISTING ROLLER SHADES.



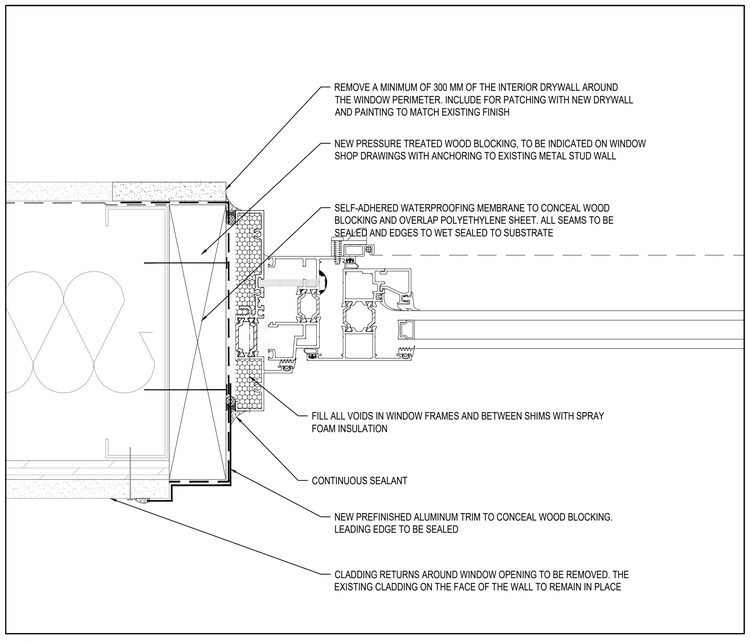
1 R414 1954 BUILDING - W1 WINDOW PLAN
SCALE: N.T.S.



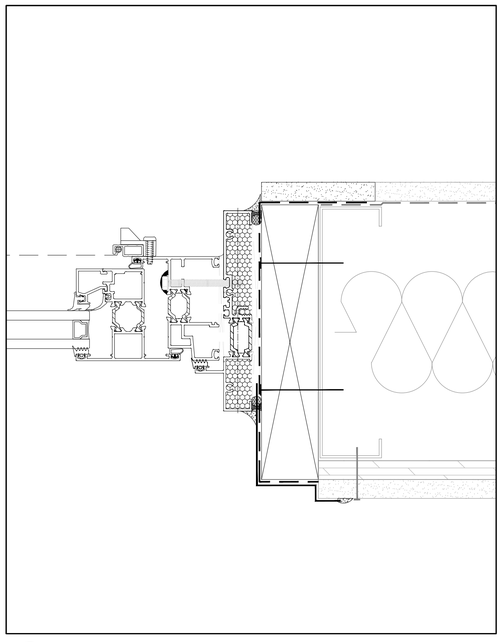
2 R414 1954 BUILDING - W1 WINDOW SECTION
SCALE: N.T.S.



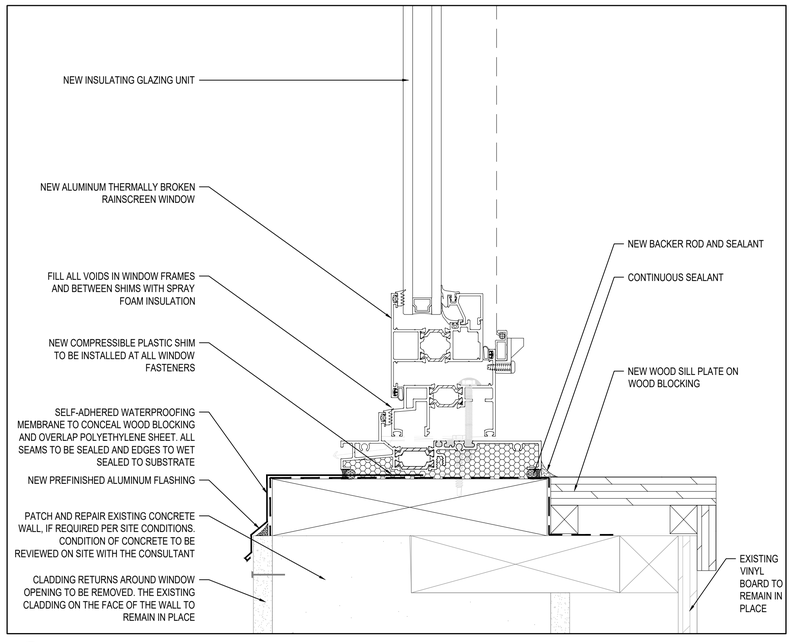
2A R414 1954 BUILDING - SECTION DETAIL - W1 WINDOW HEAD
SCALE: N.T.S.



1A R414 1954 BUILDING - WINDOW JAMB AT W1
SCALE: N.T.S.



1B R414 1954 BUILDING - WINDOW JAMB AT W1
SCALE: N.T.S.



2B R414 1954 BUILDING - SECTION DETAIL - W1 WINDOW SILL
SCALE: N.T.S.

2026-03-26 (11:45:36 AM)

Original drawing sheet is 22 x 34.

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

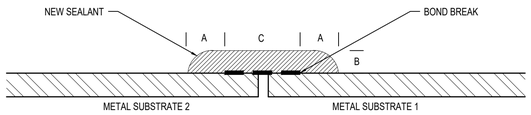
Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

WINDOW DETAILS (1954 BUILDING)

Drawing Number

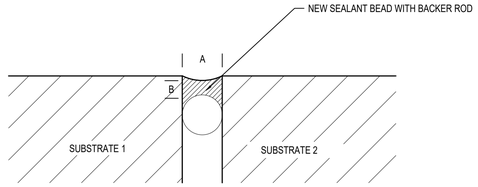
R414



NOTES:

1. DIMENSIONS A AND B MUST BE MINIMUM $\frac{1}{4}$" (6mm)
2. DIMENSION C MUST BE MIN.$\frac{1}{2}$" (12mm) CENTERED ON JOINT
3. CLEAN SUBSTRATES WITH SOLVENT WIPE (2 CLOTH METHOD)
4. PRIME PER MANUFACTURER'S REQUIREMENTS

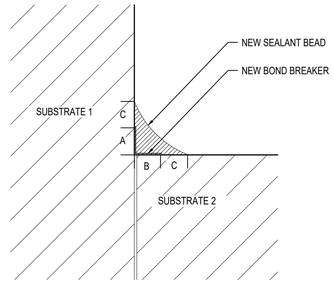
1 R500 TYPICAL METAL TO METAL SEALANT DETAIL
SCALE: N.T.S.



NOTES:

1. DIMENSIONS A AND B MUST BE AT LEAST $\frac{1}{4}$"
2. RATIO OF A:B MUST BE 2:1 MINIMUM

2 R500 TYPICAL SEALANT BUTT JOINT DETAIL
SCALE: N.T.S.



NOTES:

1. DIMENSIONS A, B, AND C MUST BE AT LEAST $\frac{1}{4}$"

3 R500 TYPICAL SEALANT FILLET BEAD
SCALE: N.T.S.

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Project No. 26-0509-003

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0	ISSUED FOR CLIENT REVIEW	2026-01-23
1	ISSUED FOR TENDER	2026-02-23
2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

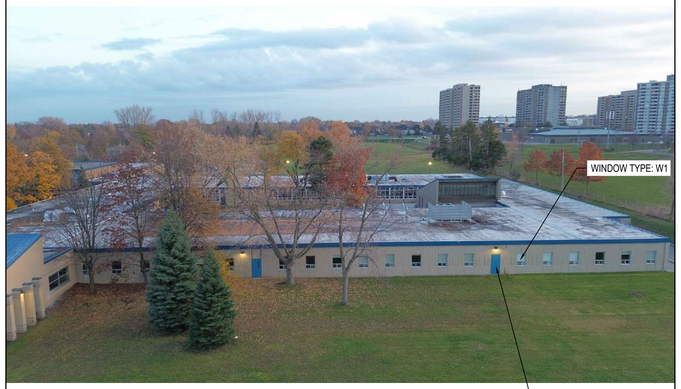
TYPICAL DETAILS

Drawing Number

R500

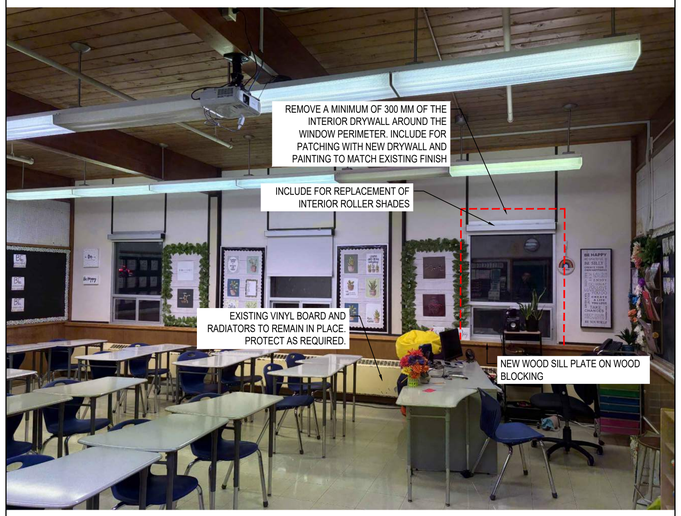
2026-03-26 (11:56:01 AM)

Original drawing sheet is 22 x 34.

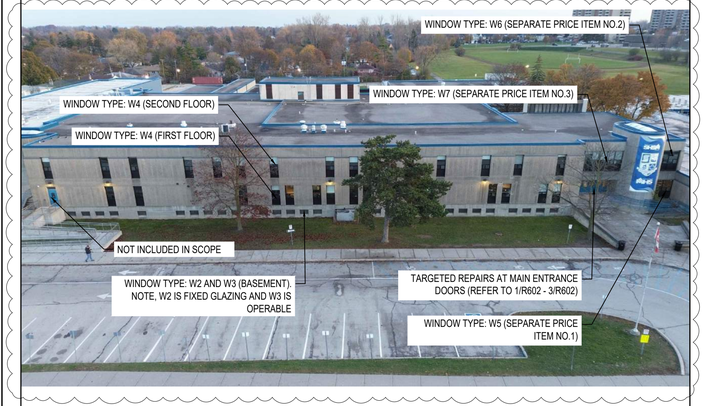


1 R600 NORTH ELEVATION OF 1954 BUILDING

2 R600 EXTERIOR VIEW OF W1



3 R600 INTERIOR VIEW OF W1



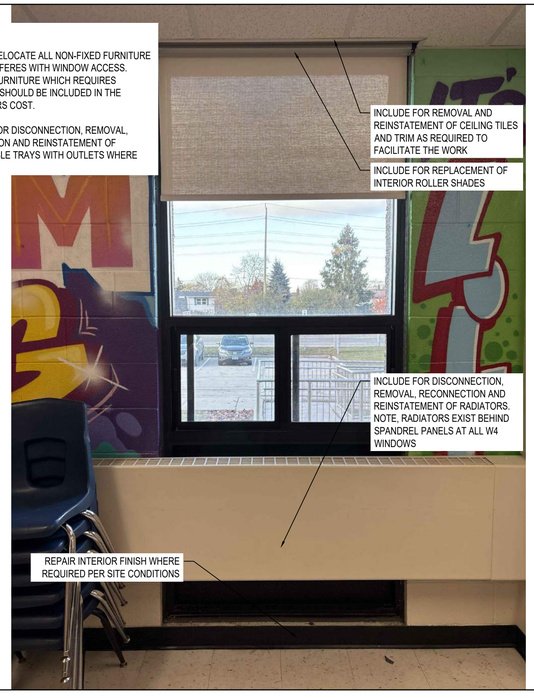
4 R600 NORTH ELEVATION OF 1966 BUILDING

5 R600 EXTERIOR VIEW OF W4

NOTES:

1. DDSB TO RELOCATE ALL NON-FIXED FURNITURE WHICH INTERFERES WITH WINDOW ACCESS. REMAINING FURNITURE WHICH REQUIRES RELOCATING SHOULD BE INCLUDED IN THE CONTRACTORS COST.

2. INCLUDE FOR DISCONNECTION, REMOVAL, RECONNECTION AND REINSTATEMENT OF CONDUIT/CABLE TRAYS WITH OUTLETS WHERE APPLICABLE.



6 R600 INTERIOR VIEW OF W4

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
0	ISSUED FOR CLIENT REVIEW	2026-01-23
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Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

PHOTOGRAPHS

Drawing Number

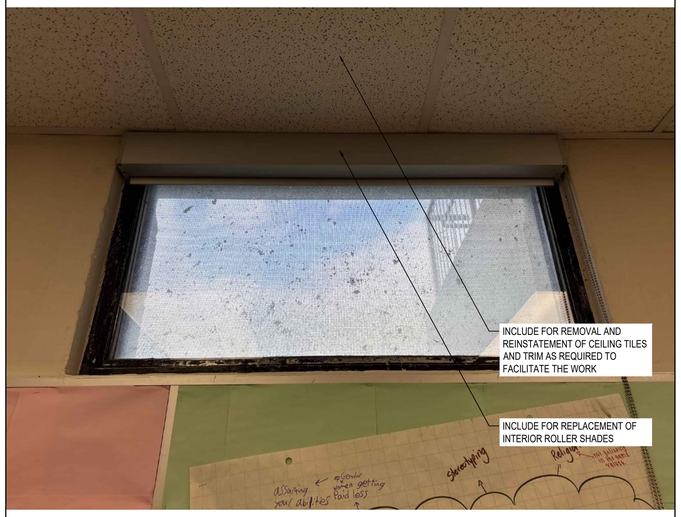
R600

2026-03-26 (11:48:26 AM)

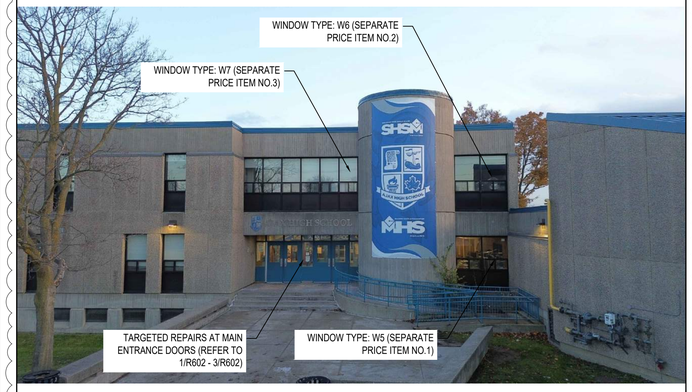
Original drawing sheet is 22 x 34.

1 R601 EXTERIOR VIEW OF W2 AND W3

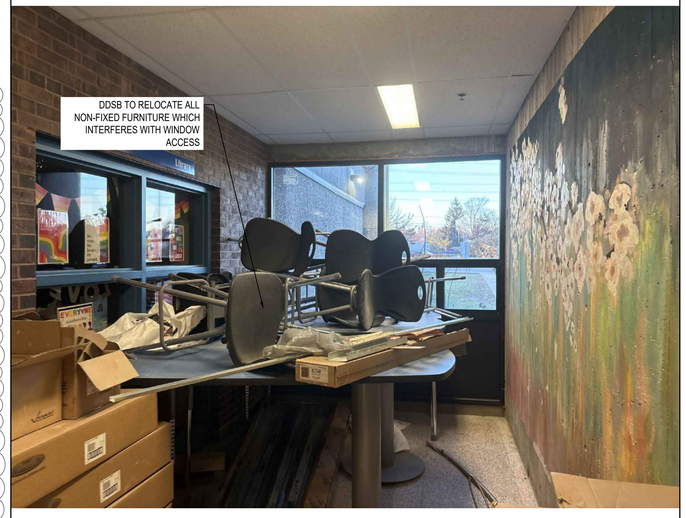
2 R601 INTERIOR VIEW OF W2 AND W3



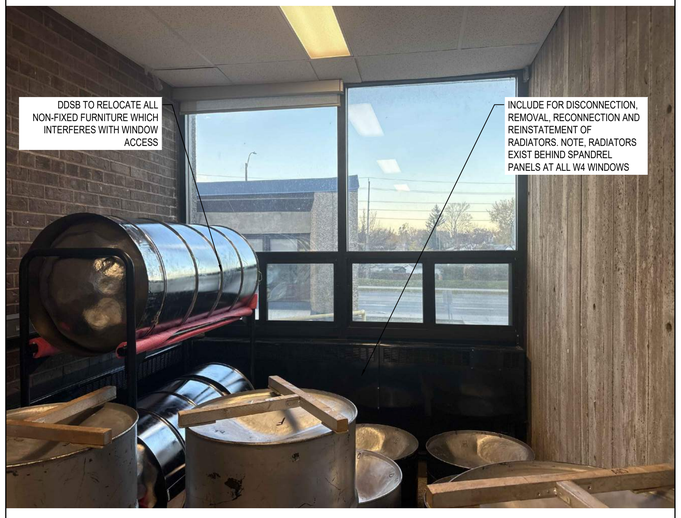
3 R601 INTERIOR VIEW OF W2



4 R601 NORTH ELEVATION OF 1966 BUILDING



5 R601 INTERIOR VIEW OF W5 (SEPARATE PRICE ITEM NO.1)



2
6 R601 INTERIOR VIEW OF W6 (SEPARATE PRICE ITEM NO.2)

2026-03-26 (12:11:33 PM)

Original drawing sheet is 22 x 34.

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Project No. 26-0509-003

Professional Seal

No.	Issue Description	YYYY-MM-DD
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2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

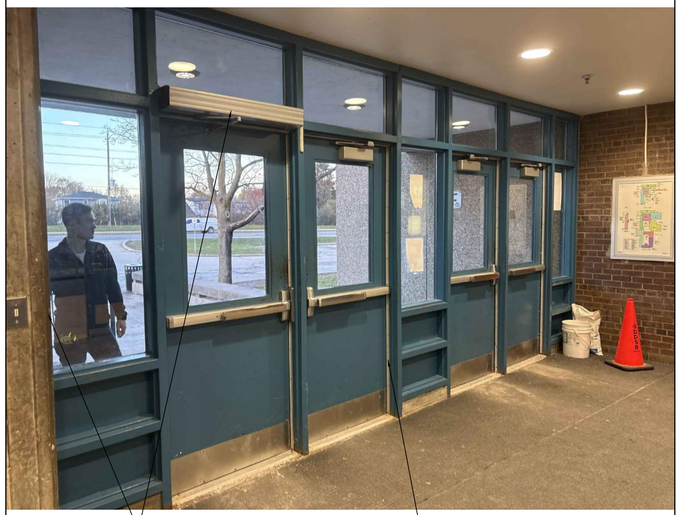
Drawing Title

PHOTOGRAPHS

Drawing Number

R601

1 R602 EXTERIOR VIEW OF MAIN ENTRANCE DOORS



2 R602 INTERIOR VIEW OF MAIN ENTRANCE DOORS

3 R602 TYPICAL VIEW OF CORROSION AT DOOR BASES

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No.	Issue Description	YYYY-MM-DD
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2	ISSUED FOR ADDENDUM NO.2	2026-03-25

Project Title:

AJAX HIGH SCHOOL

WINDOW REPLACEMENT

105 BAYLY ST. E., AJAX, ON

Designed By:	A.L.	Scale:	AS NOTED
Drawn By:	S.R.	Date:	2025-11-12

Drawing Title

PHOTOGRAPHS

Drawing Number

R602

2025-03-26 (11:46:13 AM)

Original drawing sheet is 22 x 34.