



Office of General Services

DESIGN & CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 6 TO PROJECT NO. 47572

CONSTRUCTION, HVAC AND ELECTRICAL WORK REPLACE WINDOWS, BUILDINGS 33, 34 & 36 INDUSTRY LIMITED SECURE CENTER 375 RUSH SCOTTSVILLE RD RUSH, NY

September 12, 2025

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

CONSTRUCTION WORK SPECIFICATIONS

1. SECTION 084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 084113 – 1 thru 084113 – 18) noted “Addendum No. 6”.

CONSTRUCTION WORK DRAWINGS

2. Revised Drawings:
 - a. Drawing Nos. A-133, A-143, A-136, A-601, A-602, A-603, A-604, S-100, S-101, S-102 and S-700, noted as "09/09/2025 ADDENDUM 6", accompany this Addendum and supersede the same numbered originally issued drawings.

HVAC WORK DRAWINGS

3. Revised Drawings:
 - a. Drawing No. M-001 and M-101, noted as “09/09/2025 ADDENDUM 6”, accompanies this Addendum and supersedes the same numbered originally issued drawing.

END OF ADDENDUM

Brady Sherlock, P.E.
Director, Division of Design
Design & Construction

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SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Aluminum-framed storefront systems.
2. Aluminum-framed entrance door systems.
3. Extruded aluminum muntin grid.

1.2 RELATED WORK SPECIFIED ELSEWHERE

A. Security Glazing: Section 088853

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Director's Representative of scheduled meeting dates and times a minimum of seven days prior to meeting.
 - a. To Include Director's Representative, Contractor, Installer, and Consultant Team.
2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees.
3. Minutes: Contractor will record significant discussions and agreements achieved. Distribute the meeting minutes to all attendees within three (23) days of the meeting.
4. Discuss items of significance that could affect progress, including the following:
 - a. Responsibilities and personnel assignments.
 - b. Access to site and facility.
 - 1) Security and population safety
 - 2) Working hours
 - 3) Other work restrictions
 - c. Tentative construction schedule.
 - d. Phasing.
 - e. Critical work sequencing and long lead items.
 - f. Maintaining weathertightness of building during construction.
 - g. Protection of adjacent spaces during construction.
 - h. Submittal procedures
 - i. Construction waste management.
 - j. Parking, materials staging and storage

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- k. Progress cleaning.
- l. Procedures for disruptions and shutdowns

1.4 SUBMITTALS

- A. Submittals for this section are subject to the re-evaluation fee identified in Article 4 of the General Conditions.
- B. Manufacturer's installation instructions shall be provided along with product data.
- C. Submittals shall be provided in the order in which they are specified and tabbed (for combined submittals).
- D. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- E. Shop Drawings: For aluminum-framed entrances and storefronts. Include plans, elevations, sections, full-size details, and attachments to other work.
 - 1. Include details of provisions for assembly expansion and contraction and for draining moisture occurring within the assembly to the exterior.
 - 2. Include full-size isometric details of each type of vertical-to-horizontal intersection of aluminum-framed entrances and storefronts, showing the following:
 - a. Joinery, including concealed welds.
 - b. Anchorage.
 - c. Expansion provisions.
 - d. Glazing.
 - e. Flashing and drainage.
 - 3. Show connection to and continuity with adjacent thermal, weather, air, and vapor barriers.
 - 4. Include point-to-point wiring diagrams showing the following:
 - a. Power requirements for each electrically operated door hardware.
 - b. Location and types of switches, signal device, conduit sizes, and number and size of wires.
- F. Samples for Initial Selection: For units with factory-applied color finishes.
- G. Samples for Verification: For each type of exposed finish required, in manufacturer's standard sizes.
- H. Fabrication Sample: Of each vertical-to-horizontal intersection of assemblies, made from 12-inch lengths of full-size components and showing details of the following:
 - 1. Joinery, including concealed welds.
 - 2. Anchorage.
 - 3. Expansion provisions.
 - 4. Glazing.

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5. Flashing and drainage.
 6. Muntin attachment.
- I. Entrance Door Hardware Schedule: Prepared by or under supervision of supplier, detailing fabrication and assembly of entrance door hardware, as well as procedures and diagrams. Coordinate final entrance door hardware schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of entrance door hardware.
- J. Delegated-Design Submittal: For aluminum-framed entrances and storefronts including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- K. Quality Control Submittals:
1. Energy Performance Certificates: For aluminum-framed entrances and storefronts, accessories, and components, from manufacturer.
 - a. Basis for Certification: NFRC-certified energy performance values for each aluminum-framed entrance and storefront.
 - b. Manufacturer's certification that the overall U-factor of the Type S-10 insulated glazing sheet and the Aluminum Storefront framing system does not exceed U-0.38.
 - c. Manufacturer's Certification that the overall Solar Gain Coefficient (SHGC) of the Type S-10 insulated glazing sheet and the Aluminum Storefront framing system does not exceed
 2. Product Test Reports: For aluminum-framed entrances and storefronts, for tests performed by manufacturer and witnessed by a qualified testing agency.
 3. Quality-Control Program: Developed specifically for Project, including fabrication and installation, according to recommendations in ASTM C1401. Include periodic quality-control reports.
 4. Source quality-control reports.
 5. Field quality-control reports.
 6. Sample Warranties: For special warranties.
- L. Contract Closeout Submittals
1. Maintenance Data: For aluminum-framed entrances and storefronts to include in maintenance manuals.
 2. Maintenance Data for Structural Sealant: For structural-sealant-glazed storefront to include in maintenance manuals. Include ASTM C1401 recommendations for post-installation-phase quality-control program.
- 1.5 QUALITY ASSURANCE
- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
- B. Product Options: Information on Drawings and in Specifications establishes requirements for aesthetic effects and performance characteristics of assemblies. Aesthetic effects are indicated by dimensions, arrangements, alignment, and profiles of components and assemblies as they relate to sightlines, to one another, and to adjoining construction.

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1. Do not change intended aesthetic effects, as judged solely by Director's Representative, except with Director's Representative's approval. If changes are proposed, submit comprehensive explanatory data to Director's Representative for review.

1.6 BENCHMARK

- A. Build benchmark to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
 1. Build benchmark window and sill assembly as shown on Drawings.
 2. Testing shall be performed on benchmark according to requirements in "Field Quality Control" Article.
 3. Approval of benchmark does not constitute approval of deviations from the Contract Documents contained in benchmark unless Director's Representative specifically approves such deviations in writing.

1.7 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of aluminum-framed entrances and storefronts that do not comply with requirements or that fail in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Structural failures, including, but not limited to, excessive deflection.
 - b. Noise or vibration created by wind and thermal and structural movements.
 - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - d. Water penetration through fixed glazing and framing areas.
 - e. Failure of operating components.
 2. Warranty Period: 10 years from date of Substantial Completion.
- B. Special Finish Warranty, Factory-Applied Finishes: Standard form in which manufacturer agrees to repair finishes or replace aluminum that shows evidence of deterioration of factory-applied finishes within specified warranty period.
 1. Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Delta E units when tested according to ASTM D2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 2. Warranty Period: 20 years from date of Substantial Completion.

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PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain all components of aluminum-framed entrance and storefront system, including framing and accessories, from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Comply with performance requirements specified, as determined by testing of aluminum-framed entrances and storefronts representing those indicated for this Project without failure due to defective manufacture, fabrication, installation, or other defects in construction.
 - 1. Aluminum-framed entrances and storefronts shall withstand movements of supporting structure, including, but not limited to, twist, column shortening, long-term creep, and deflection from uniformly distributed and concentrated live loads.
 - 2. Failure also includes the following:
 - a. Thermal stresses transferring to building structure.
 - b. Glass breakage.
 - c. Noise or vibration created by wind and thermal and structural movements.
 - d. Loosening or weakening of fasteners, attachments, and other components.
 - e. Failure of operating units.
- B. Structural Loads:
 - 1. Wind Loads: As indicated on the Structural Drawings.
 - 2. Other Design Loads: As indicated on the Structural Drawings
- C. Deflection of Framing Members: At design wind pressure, as follows:
 - 1. Deflection Normal to Wall Plane: Limited to edge of glass in a direction perpendicular to glass plane not exceeding 1/175 of the glass edge length for each individual glazing lite or an amount that restricts edge deflection of individual glazing lites to 3/4 inch, whichever is less.
 - 2. Deflection Parallel to Glazing Plane: Limited to 1/360 of clear span or 1/8 inch, whichever is smaller.
 - 3. Cantilever Deflection: Where framing members overhang an anchor point, as follows:
 - a. Perpendicular to Plane of Wall: No greater than 1/240 of clear span plus 1/4 inch for spans greater than 11 feet 8-1/4 inches or 1/175 times span, for spans of less than 11 feet 8-1/4 inches.
- D. Structural: Test according to ASTM E330 as follows:
 - 1. When tested at positive and negative wind-load design pressures, storefront assemblies, including entrance doors, do not evidence deflection exceeding specified limits.

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2. When tested at 150 percent of positive and negative wind-load design pressures, storefront assemblies, including entrance doors and anchorage, do not evidence material failures, structural distress, or permanent deformation of main framing members exceeding 0.2 percent of span.
 3. Test Durations: As required by design wind velocity, but not less than 10 seconds.
- E. Water Penetration under Static Pressure: Test according to ASTM E331 as follows:
1. No evidence of water penetration through fixed glazing and framing areas, including entrance doors, when tested according to a minimum static-air-pressure differential of 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft.
- F. Water Penetration under Dynamic Pressure: Test according to AAMA 501.1 as follows:
1. No evidence of water penetration through fixed glazing and framing areas when tested at dynamic pressure equal to 20 percent of positive wind-load design pressure, but not less than 6.24 lbf/sq. ft.
 2. Maximum Water Leakage: No uncontrolled water penetrating assemblies or water appearing on assemblies' normally exposed interior surfaces from sources other than condensation. Water leakage does not include water controlled by flashing and gutters, or water that is drained to exterior.
- G. Seismic Performance: Aluminum-framed entrances and storefronts shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
1. Seismic Drift Causing Glass Fallout: Complying with criteria for passing based on building occupancy type when tested according to AAMA 501.6 at design displacement and 1.5 times the design displacement.
- H. Energy Performance: Certified and labeled by manufacturer for energy performance as follows:
1. Thermal Transmittance (U-factor):
 - a. Fixed Glazing and Framing Areas: Overall U-factor for the system of not more than 0.38 Btu/sq. ft. x h x deg F as determined according to NFRC 100.
 - 1) Overall U-Value for aluminum framing with Type S-10 insulated glazing sheet.
 - b. Entrance Doors: U-factor of not more than 0.37 Btu/sq. ft. x h x deg F as determined according to NFRC 100.
 2. Solar Heat-Gain Coefficient (SHGC):
 - a. Fixed Glazing and Framing Areas: SHGC for the system of not more than 0.38 as determined according to NFRC 200.
 - 1) Overall U-Value for aluminum framing with Type S-10 insulated glazing sheet.

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- b. Entrance Doors: SHGC of not more than 0.22 as determined according to NFRC 200.
- 3. Air Leakage:
 - a. Fixed Glazing and Framing Areas: Air leakage for the system of not more than 0.06 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft. when tested according to ASTM E283.
 - b. Entrance Doors: Air leakage of not more than 1.0 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft.
- 4. Condensation Resistance Factor (CRF):
 - a. Fixed Glazing and Framing Areas: CRF for the system of not less than 35 determined according to AAMA 1503.
 - b. Entrance Doors: CRF of not less than 57 as determined according to AAMA 1503.
- I. Noise Reduction: Test according to ASTM E90, with ratings determined by ASTM E1332, as follows.
 - 1. Outdoor-Indoor Transmission Class: Minimum 26.
- J. Windborne-Debris Impact Resistance: Passes ASTM E1886 missile-impact and cyclic-pressure tests in accordance with ASTM E1996 for Wind Zone 3 for basic protection.
 - 1. Large-Missile Test: For glazing located within 30 feet of grade.
 - 2. Small-Missile Test: For glazing located between 30 feet and 60 feet above grade.
- K. Thermal Movements: Allow for thermal movements resulting from ambient and surface temperature changes.
 - 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.
 - 2. Thermal Cycling: No buckling; stress on glass; sealant failure; excess stress on framing, anchors, and fasteners; or reduction of performance when tested according to AAMA 501.5.
 - a. High Exterior Ambient-Air Temperature: That which produces an exterior metal-surface temperature of 180 deg F.
 - b. Low Exterior Ambient-Air Temperature: 0 deg F.
 - c. Interior Ambient-Air Temperature: 75 deg F.

2.3 STOREFRONT SYSTEMS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. EFCO Corporation.
 - 2. Kawneer North America, an Arconic company.
 - 3. Mapes Industries.
 - 4. Oldcastle Building Envelope (OBE); CRH Americas.

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5. Trulite Glass & Aluminum Solutions, LLC.
 6. Tubelite Inc.
 7. U.S. Aluminum; a brand of C.R. Laurence.
 8. YKK AP America Inc.
 9. Or comparable manufacturer.
- B. Framing Members: Manufacturer's extruded- or formed-aluminum framing members of thickness required and reinforced as required to support imposed loads.
1. Basis of Design Aluminum Storefront Framing System: Kawneer IR 501 UT thermally broke, outside glazed, impact resistant framing system to accept Type S-10 security glazing or a comparable product by one of the listed manufacturers, and as specified below:
 2. Exterior Framing Construction: Thermally broken
 3. Glazing System: Retained mechanically with gaskets on four sides.
 4. Glazing Plane: Center.
 5. Finish: Superior-performance organic finish.
 6. Fabrication Method: Field-fabricated stick system.
 7. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.
 8. Steel Reinforcement: As required by manufacturer.
- C. Backer Plates: Manufacturer's standard, continuous backer plates for framing members, if not integral, where framing abuts adjacent construction.
- D. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous shims for aligning system components.
- E. Insulated Spandrel Panels (Insulated Aluminum Panel Type IAP):
1. Laminated, metal-faced flat panels with no deviations in plane exceeding 0.8 percent of panel dimension in width or length.
 - a. Overall Panel Thickness: To match thickness of S-10 insulated glazing sheet
 - b. Exterior Skin: Aluminum.
 - 1) Thickness: Manufacturer's standard for finish and texture indicated.
 - 2) Finish: Match framing system.
 - 3) Texture: Smooth.
 - 4) Backing Sheet: 1/8-inch- thick Extruded Corrugated Polypropylene.
 - c. Interior Skin: Aluminum.
 - 1) Thickness: Manufacturer's standard for finish and texture indicated.
 - 2) Finish: Matching storefront framing.
 - 3) Texture: Smooth.
 - 4) Backing Sheet: 1/8-inch- thick Extruded Corrugated Polypropylene.
 - d. Thermal Insulation Core: Manufacturer's standard rigid, closed-cell, polyisocyanurate board.

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- e. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 - 1) Flame-Spread Index: 25 or less.
 - 2) Smoke-Developed Index: 50 or less.

2.4 ENTRANCE DOOR SYSTEMS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. Special-Lite, Inc.
 - 2. FRP Architectural Doors, Inc.
 - 3. EFCO Corporation.
 - 4. Kawneer North America, an Arconic company.
 - 5. Oldcastle Building Envelope (OBE); CRH Americas.
 - 6. Trulite Glass & Aluminum Solutions, LLC.
 - 7. Tubelite Inc.
 - 8. U.S. Aluminum; a brand of C.R. Laurence.
 - 9. YKK AP America Inc.
 - 10. Or equal.
- B. Entrance Doors: Manufacturer's standard flush entrance doors for manual-swing.
 - 1. Entrance Door Basis of Design: Heavy duty hybrid insulated FRP fiberglass faced aluminum door; FD-25 Series door by FRP Architectural Doors or a comparative product by one of the listed manufacturers and as specified below:
 - 2. Door Construction: Minimum 1-3/4-inch overall thickness, with minimum 0.125-inch-thick, extruded-aluminum tubular rail and stile members. Mechanically fasten corners with reinforcing brackets that are deeply penetrated and fillet welded or that incorporate concealed tie rods.
 - 3. Thermal Construction: High-performance plastic connectors separate aluminum members exposed to the exterior from members exposed to the interior.
 - 4. Insulation: To meet thermal performance requirements.
 - 5. Door Design: Flush Door.
 - 6. Finish: Fiberglass Reinforced Plastic (FRP) finish panels.
 - a. Texture: Pebble Finish
 - b. Color: As selected by the Director's Representative from manufacturer's full range, including custom and premium colors.
 - 1) Provide samples for review to match storefront framing system.

2.5 ENTRANCE DOOR HARDWARE

- A. Entrance Door Hardware: See Entrance Door Hardware Sets at the end of this Section.

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- B. General: Provide entrance door hardware and entrance door hardware sets indicated in "Entrance Door Hardware Sets" Article for each entrance door, to comply with requirements in this Section.
1. Entrance Door Hardware Sets: Provide quantity, item, size, finish or color indicated, and products equivalent in function and comparable in quality to named products and that comply with BHMA standard referenced.
 2. Opening-Force Requirements:
 - a. Egress Doors: Not more than 15 lbf to release the latch and not more than 30 lbf to set the door in motion and not more than 15 lbf to open the door to its minimum required width.
- C. Designations: Requirements for design, grade, function, finish, quantity, size, and other distinctive qualities of each type of entrance door hardware are indicated in "Entrance Door Hardware Sets" Article. Products are identified by using entrance door hardware designations as follows:
1. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements. Manufacturers' names are abbreviated in "Entrance Door Hardware Sets" Article.
 2. References to BHMA Standards: Provide products complying with these standards and requirements for description, quality, and function.
- D. Continuous-Gear Hinges: Continuous Hinges: BHMA A156.26; minimum 0.120-inch thick, hinge leaves with minimum overall width of 4 inches; fabricated to full height of door and frame and to template screw locations; with components finished after milling and drilling are complete.
1. Gear-Type: Extruded-aluminum, pinless, geared hinge leaves joined by a continuous extruded-aluminum channel cap; with concealed, self-lubricating thrust bearings.
 2. Provide hospital type tip cap with 45-degree slope and no exposed edges or openings.
 3. With continuous integral door edge protection.
- E. Mechanical Locks and Latches
1. Lock Functions: As indicated in door hardware schedule.
 2. Lock Throw: Comply with testing requirements for length of bolts required for labeled fire doors, and as follows:
 - a. Mortise Locks: Minimum 3/4-inch latchbolt throw.
 - b. Deadbolts: Minimum 1.25-inch bolt throw.
 3. Lock Backset: 2-3/4 inches unless otherwise indicated
 4. Lock Trim: To match Facility standard.
 5. Levers: Wrought, to match facility standard.
 6. Escutcheons (Roses): Wrought.
 7. Dummy Trim: Match lever lock trim and escutcheons.
- F. Lock Cylinders: Tumbler type, constructed from brass or bronze, stainless steel, or nickel silver. Provide cylinder from same manufacturer of locking devices.

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1. High-Security Lock Cylinders: BHMA A156.30; Grade 1 permanent cores that are removable; face finished to match lockset.
 - a. Lock cylinders to match Facility system and standards; Best 6 pin cylinder with K blank keyway. No substitutions will be accepted.
 2. Type: M, mechanical.
- G. Construction Master Keys: Provide cylinders with feature that permits voiding of construction keys without cylinder removal. Provide 15 construction master keys.
- H. Keying System: Factory registered, complying with guidelines in BHMA A156.28, appendix. Provide one extra key blank for each lock. Coordinate requirements with Director's Representative.
1. Existing System:
 - a. Master key or grand master key locks to match Facility's existing system.
 2. Keys: Nickel silver.
 - a. Stamping: Permanently inscribe each key with a visual key control number and include the following notation:
 - 1) Notation: "DO NOT DUPLICATE."
- I. Strikes: Provide strike with black-plastic dust box for each latch or lock bolt; fabricated for aluminum framing.
1. To accept strike and deadbolt of lockset.
- J. Surface Closers: BHMA A156.4; rack-and-pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm. Comply with manufacturer's written instructions for size of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Provide factory-sized closers, adjustable to meet field conditions and requirements for opening force.
1. Contractor shall be responsible for handing of door and corresponding selection of closer arm.
 2. Metal Cover.
 3. Integral adjustable stop.
 4. Delayed action type.
- K. Weather Stripping: Manufacturer's standard replaceable components.
1. Aluminum Framing manufacturer's standard applied stops with continuous compression seals, full height both jambs and full length of head.
 2. Compression Type: Made of ASTM D2000 molded neoprene or ASTM D2287 molded PVC.
- L. Weather Sweeps: Manufacturer's standard exterior-door bottom sweep, neoprene or EPDM, with concealed fasteners on mounting strip.

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M. Thresholds: BHMA A156.21 raised thresholds beveled with a slope of not more than 1:2, with maximum height of 1/2 inch.

1. Thermally broken with integral continuous neoprene or epdm compression weather seal.

2.6 GLAZING

A. Glazing: Comply with Section 088853.0 "Security Glazing."

B. Glazing Gaskets: Manufacturer's standard sealed-corner pressure-glazing system of black, resilient elastomeric glazing gaskets, setting blocks, and shims or spacers unless otherwise specified in Section 088853.0 "Security Glazing."]

C. Glazing Sealants: As recommended by manufacturer.

2.7 MATERIALS

A. Sheet and Plate: ASTM B209.

B. Extruded Bars, Rods, Profiles, and Tubes: ASTM B221.

C. Extruded Structural Pipe and Tubes: ASTM B429.

D. Structural Profiles: ASTM B308.

E. Steel Reinforcement:

1. Structural Shapes, Plates, and Bars: ASTM A36.

2. Cold-Rolled Sheet and Strip: ASTM A1008.

3. Hot-Rolled Sheet and Strip: ASTM A1011.

F. Steel Reinforcement Primer: Manufacturer's standard zinc-rich, corrosion-resistant primer complying with SSPC-PS Guide No. 12.00; applied immediately after surface preparation and pretreatment. Select surface preparation methods according to recommendations in SSPC-SP COM and prepare surfaces according to applicable SSPC standard.

2.8 ACCESSORIES

A. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials.

1. Use self-locking devices where fasteners are subject to loosening or turning out from thermal and structural movements, wind loads, or vibration.

2. Reinforce members as required to receive fastener threads.

3. Use exposed fasteners with countersunk tamperproof security screw heads, finished to match framing system, fabricated from 300 series stainless steel.

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- B. Anchors: Three-way adjustable anchors with minimum adjustment of 1 inch that accommodate fabrication and installation tolerances in material and finish compatible with adjoining materials and recommended by manufacturer.
 - 1. Concrete and Masonry Inserts: Hot-dip galvanized cast-iron, malleable-iron, or steel inserts complying with ASTM A123 or ASTM A153 requirements.
- C. Concealed Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.
- D. Bituminous Paint: Cold-applied asphalt-mastic paint containing no asbestos, formulated for 30-mil thickness per coat.
- E. Rigid PVC Filler.
- F. Extruded Aluminum Muntin Grid: Located on exterior of windows as shown on drawings. Finish to match storefront finish.

2.9 FABRICATION

- A. Form or extrude aluminum shapes before finishing.
- B. Weld in concealed locations to greatest extent possible to minimize distortion or discoloration of finish. Remove weld spatter and welding oxides from exposed surfaces by descaling or grinding.
- C. Fabricate components that, when assembled, have the following characteristics:
 - 1. Profiles that are sharp, straight, and free of defects or deformations.
 - 2. Accurately fitted joints with ends coped or mitered.
 - 3. Physical and thermal isolation of glazing from framing members.
 - 4. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
 - 5. Provisions for field replacement of glazing from exterior.
 - 6. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- D. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
- E. Storefront Framing: Fabricate components for assembly using screw-spline system.
- F. Entrance Door Frames: Reinforce as required to support loads imposed by door operation and for installing entrance door hardware.
 - 1. At exterior doors, provide compression weather stripping at fixed stops.
- G. Entrance Doors: Reinforce doors as required for installing entrance door hardware.
 - 1. At pairs of exterior doors, provide sliding-type weather stripping retained in adjustable strip and mortised into door edge.
 - 2. At exterior doors, provide weather sweeps applied to door bottoms.

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- H. Entrance Door Hardware Installation: Factory install entrance door hardware to the greatest extent possible. Cut, drill, and tap for factory-installed entrance door hardware before applying finishes.
- I. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

J. Extruded Aluminum Muntin Grid:

1. Perimeter members shall be mitered together at corners to create "picture frame".
2. Intermediate verticals shall run between perimeter members and be mitered at each end to fit with perimeter.
3. Intermediate horizontals shall run between verticals and be mitered at each end to fit with verticals.
4. Intermediate horizontals shall be attached to verticals first by drilling a 1/8" dia. hole in vertical and inserting spring pin, then pushing horizontals on.
5. Once intermediate is assembled, the perimeter members can be attached. Drill 0.149" dia. holes at each muntin centerline and at corners. Fasten the perimeter to each muntin with a #6 flat-head screw.
6. See MUNTIN GRID ASSEMBLY DETAIL at end of section. Drawing not to scale.

2.10 ALUMINUM FINISHES

- A. Superior-Performance Organic Finish, Three-Coat PVDF: Fluoropolymer finish complying with AAMA 2605 and containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat.
 1. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions severe environments.
 2. Color and Gloss: Green to match original building steel window system. Semi-gloss finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Comply with manufacturer's written instructions.
- B. Do not install damaged components.
- C. Fit joints to produce hairline joints free of burrs and distortion.

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- D. Rigidly secure nonmovement joints.
- E. Install anchors with separators and isolators to prevent metal corrosion and electrolytic deterioration and to prevent impeding movement of moving joints.
- F. Seal perimeter and other joints watertight unless otherwise indicated.
- G. Metal Protection:
 - 1. Where aluminum is in contact with dissimilar metals, protect against galvanic action by painting contact surfaces with materials recommended by manufacturer for this purpose or by installing nonconductive spacers.
 - 2. Where aluminum is in contact with concrete or masonry, protect against corrosion by painting contact surfaces with bituminous paint.
- H. Set continuous sill members and flashing in full sealant bed, as specified in Section 079200 "Joint Sealants," to produce weathertight installation.
- I. Install joint filler behind sealant as recommended by sealant manufacturer.
- J. Install components plumb and true in alignment with established lines and grades.

3.3 INSTALLATION OF GLAZING

- A. Install glazing as specified in Section 088530 "Security Glazing."

3.4 INSTALLATION OF ALUMINUM-FRAMED ENTRANCE DOORS

- A. Install entrance doors to produce smooth operation and tight fit at contact points.
 - 1. Exterior Doors: Install to produce weathertight enclosure and tight fit at weather stripping.
 - 2. Field-Installed Entrance Door Hardware: Install surface-mounted entrance door hardware according to entrance door hardware manufacturers' written instructions using concealed fasteners to greatest extent possible.

3.5 ERECTION TOLERANCES

- A. Install aluminum-framed entrances and storefronts to comply with the following maximum tolerances:
 - 1. Plumb: 1/8 inch in 10 feet; 1/4 inch in 40 feet.
 - 2. Level: 1/8 inch in 20 feet; 1/4 inch in 40 feet.
 - 3. Alignment:
 - a. Where surfaces abut in line or are separated by reveal or protruding element up to 1/2 inch wide, limit offset from true alignment to 1/16 inch.
 - b. Where surfaces are separated by reveal or protruding element from 1/2 to 1 inch wide, limit offset from true alignment to 1/8 inch.

ADDENDUM #6

- c. Where surfaces are separated by reveal or protruding element of 1 inch wide or more, limit offset from true alignment to 1/4 inch.
- 4. Location: Limit variation from plane to 1/8 inch in 12 feet; 1/2 inch over total length.

3.6 FIELD QUALITY CONTROL

- A. Testing Agency: Director's Representative will engage a qualified testing agency to perform tests and inspections.
- B. Field Quality-Control Testing: Perform the following test on representative areas of aluminum-framed entrances and storefronts.
 - 1. Water-Spray Test: Before installation of interior finishes has begun, areas designated by Director's Representative shall be tested according to AAMA 501.2 and shall not evidence water penetration.
 - a. Perform a minimum of two tests in areas as directed by Director's Representative.
 - b. Perform tests in each test area as directed by Director's Representative. Perform at least three tests, prior to 10, 35, and 70 percent completion.
 - 2. Air Leakage: ASTM E783 at 1.5 times the rate specified for laboratory testing in "Performance Requirements" Article but not more than 0.09 cfm/sq. ft. at a static-air-pressure differential of 1.57 lbf/sq. ft.
 - a. Perform a minimum of two tests in areas as directed by Director's Representative.
 - b. Perform tests in each test area as directed by Director's Representative. Perform at least three tests, prior to 10, 35, and 70 percent completion.
 - 3. Water Penetration: ASTM E1105 at a minimum uniform and cyclic static-air-pressure differential of 0.67 times the static-air-pressure differential specified for laboratory testing in "Performance Requirements" Article, but not less than 6.24 lbf/sq. ft., and shall not evidence water penetration.
- C. Aluminum-framed entrances and storefronts will be considered defective if they do not pass tests and inspections.
- D. Prepare test and inspection reports.

3.7 ENTRANCE DOOR HARDWARE SETS

- A. Manufacturers: Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
 - 1. Mortise Locksets:
 - a. Schlage (SCH)
 - b. Best Door Hardware
 - c. Sargent

ADDENDUM #6

- d. Corbin-Russwin
 - e. Acceptable equivalent
2. Lock Cylinders and Core:
- a. To match Facility standards and requirements.
 - b. Best Door Hardware
 - 1) 6 pin with K blank keyway
 - c. No substitutions will be accepted.
3. Continuous Hinges
- a. Ives (IVE)
 - b. Markar
 - c. Stanley
 - d. National Guard Products
 - e. Acceptable Equivalent
4. Surface Mounted Closers:
- a. LCN (LCN)
 - b. Rixson
 - c. Dorma
 - d. Acceptable equivalent
5. Threshold
- a. Pemko (PEM)
 - b. Zero
 - c. National Guard Products
 - d. Acceptable equivalent.

B. Named Manufacturers' Products: Manufacturer and product designation are listed for each door hardware type required for the purpose of establishing minimum requirements.

C. Hardware Set 1: Door 36.1

1. To have the following:

Qty		Type	Description	Mfr.	Finish
1	EA	HINGE	Continuous full height continuous geared hinge 224XY series with door edge protector and hospital tip	IVE	ME
1	EA	CYLINDER AND CORE	To match Facility's standard system	BEST	ME
1	EA	LOCKSET	Best 6 pin Cylinder with K blank keyway Entrance /Office Lock with deadbolt	SCH	ME
2	EA	LOCKSET TRIM	L9080 Storeroom Lockset To match type and style of adjacent buildings	SCH	ME

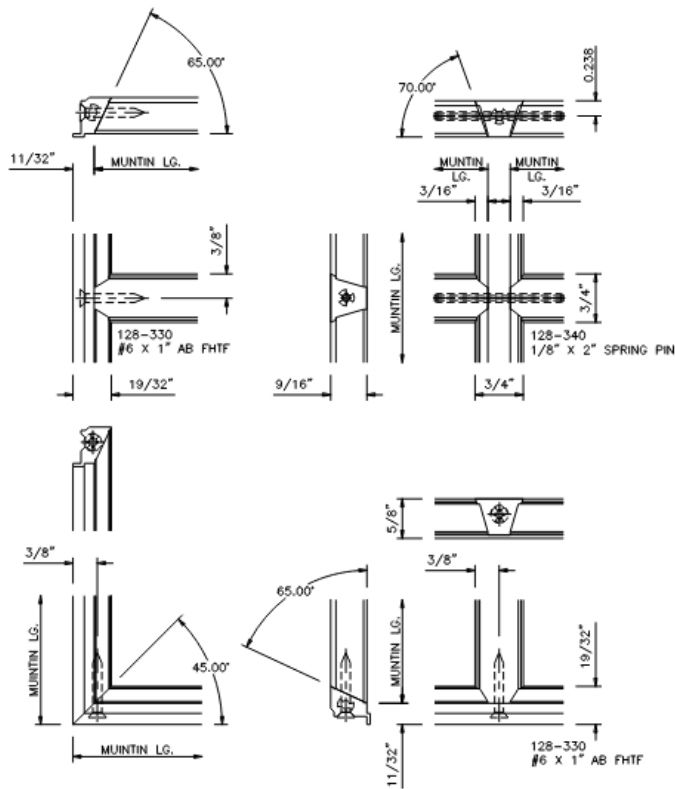
ADDENDUM #6

1	EA	SURFACE CLOSER	Surface mounted closer with metal cover and integral stop. Delayed Action. Mount on inside face of door 4040XP Series	LCN	ME
1	SET	SEALS	Aluminum framing system Manufacturer's compressible neoprene/epdm type, full height both jambs, full length of door head	----	----
1	EA	THRESHOLD	Thermally broke aluminum saddle threshold with continuous compression seal weatherstripping bumper. Nominal 4 1/2" wide 279x244 FGV	PEM	CL

D. Hardware Schedule Legend

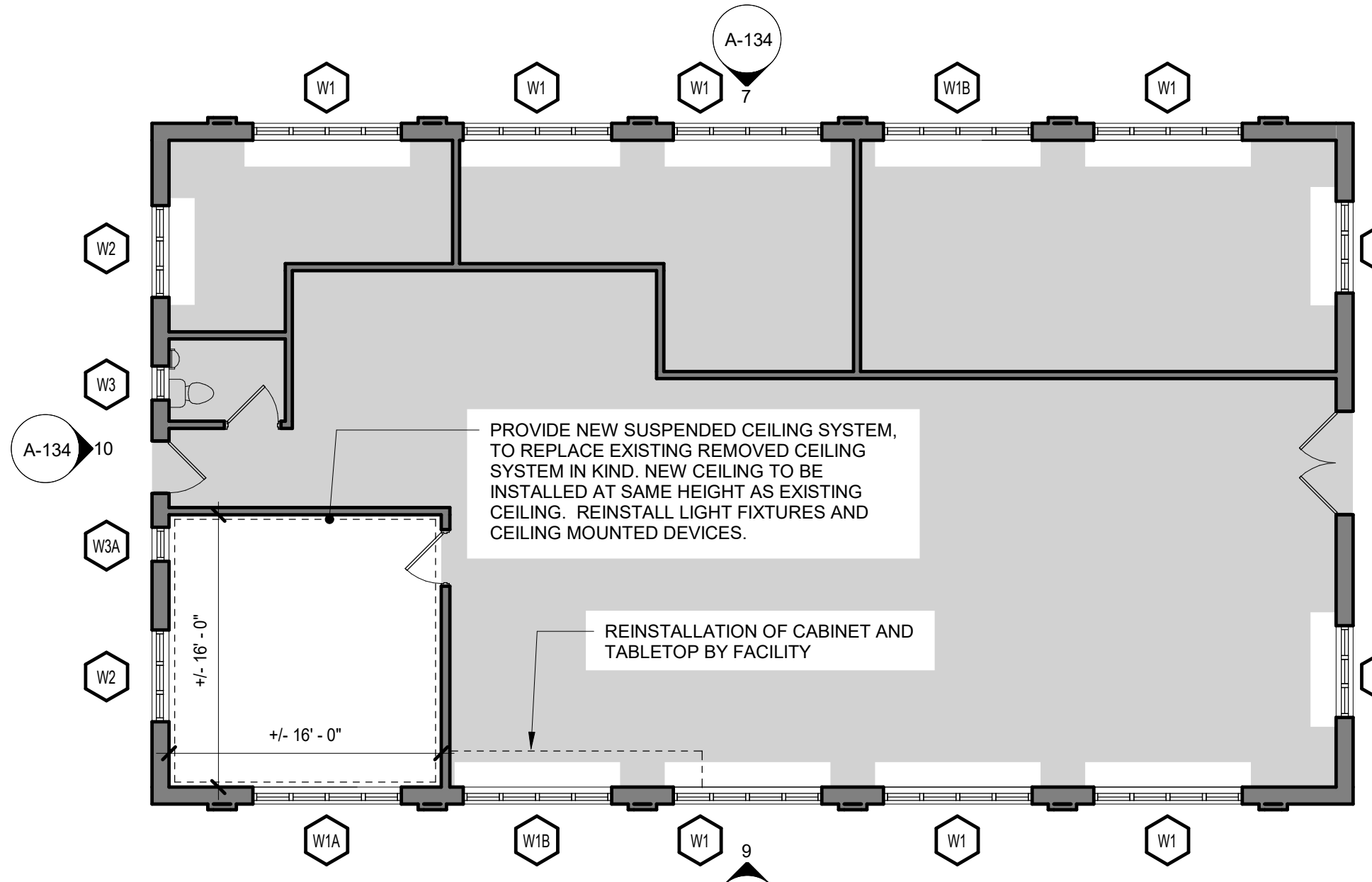
1. ME Match Existing at Adjacent Buildings
2. CL Clear Anodized Aluminum
3. Mftr Manufacturer

E. All exposed fasteners to be stainless steel tamper proof security type.

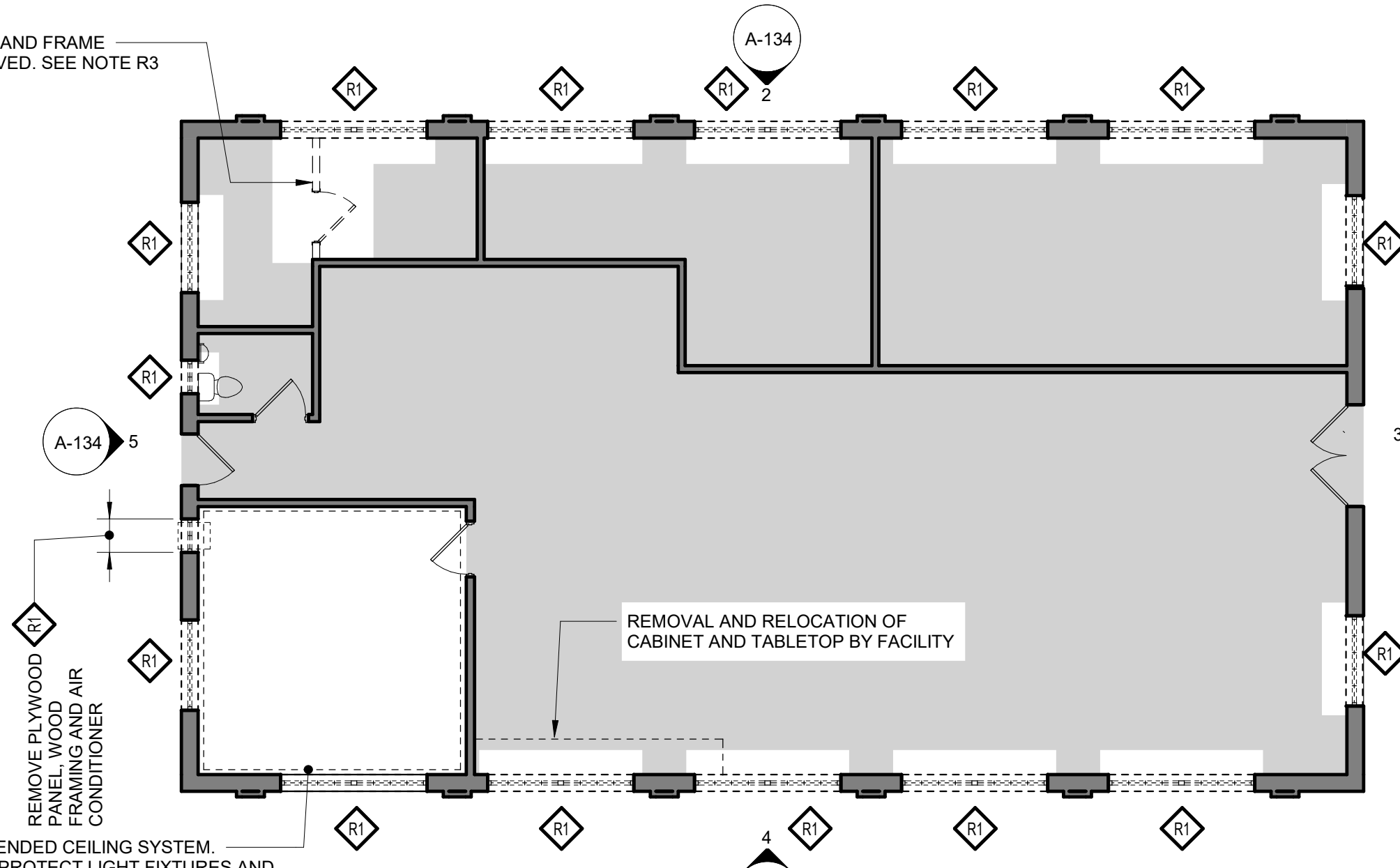


MUNTIN GRID ASSEMBLY DETAIL
EXTERIOR GRID

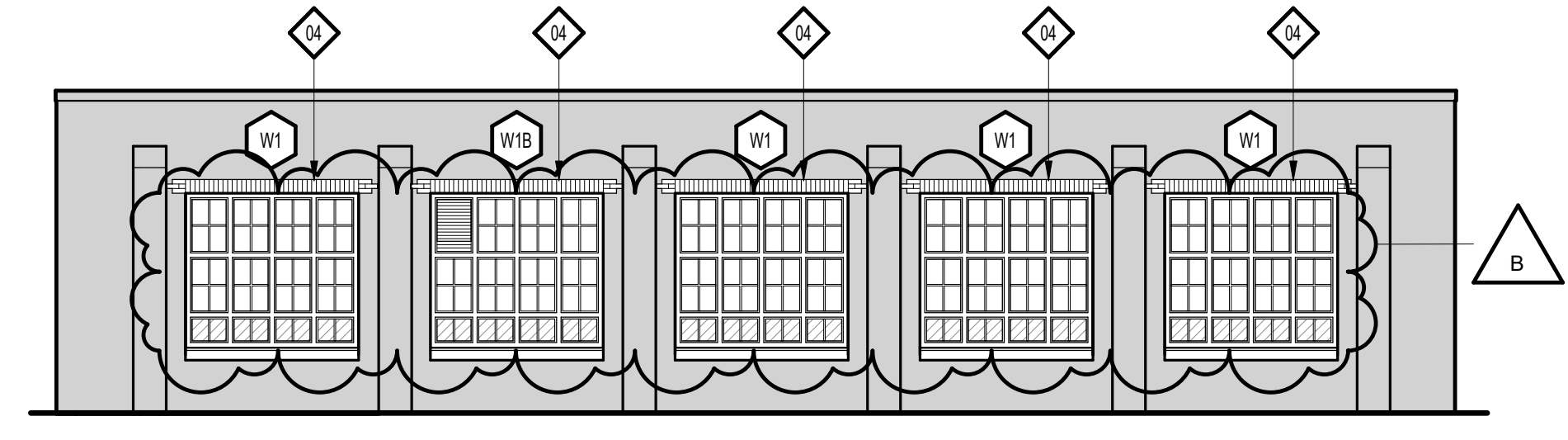
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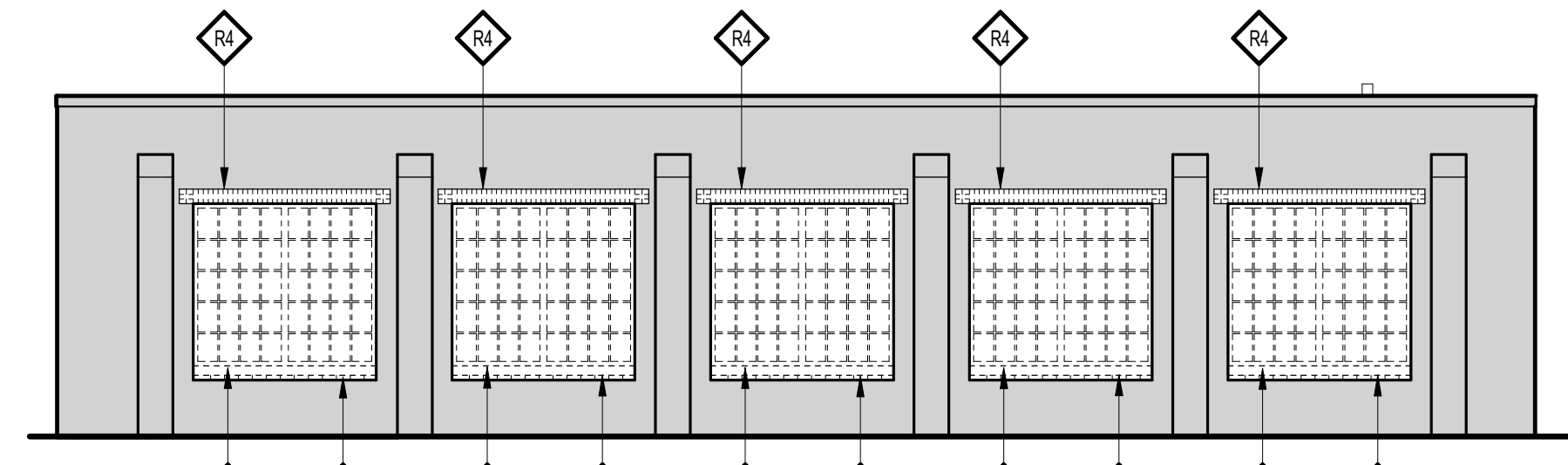
6 Building 34 Floor Plan
A-134 1/8" = 1'-0"



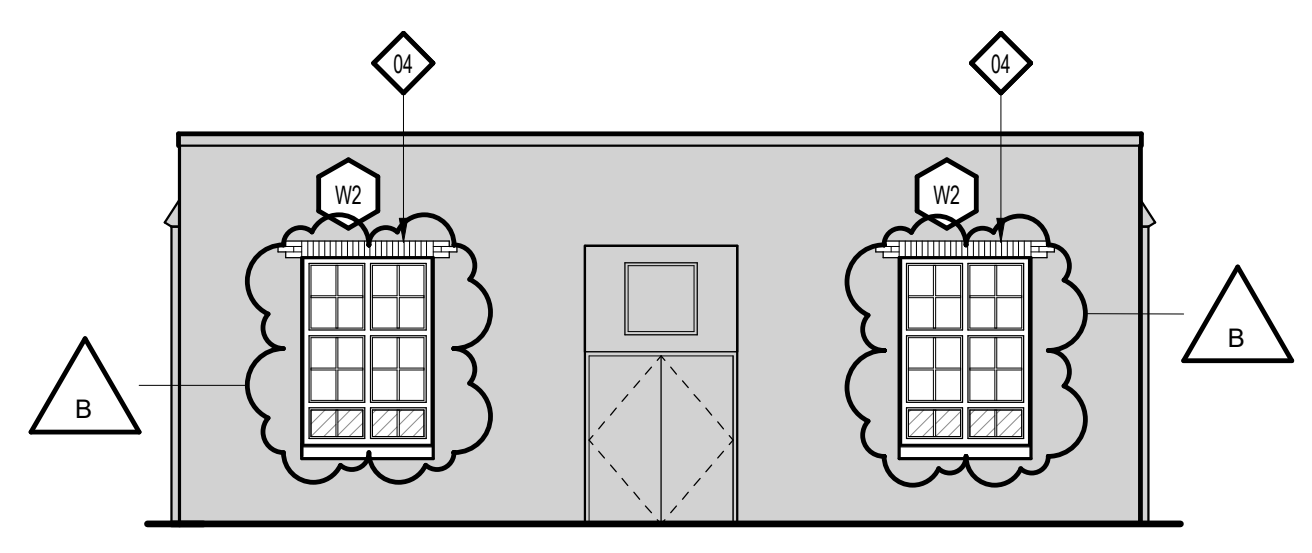
1 Building 34 Removal Floor Plan
A-134 1/8" = 1'-0"



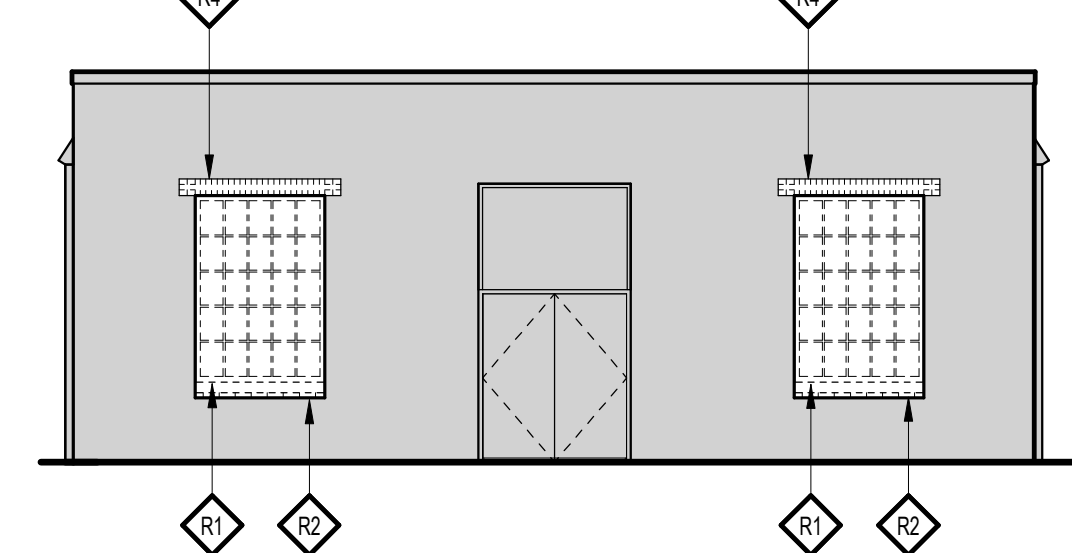
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A-134 1/8" = 1'-0"



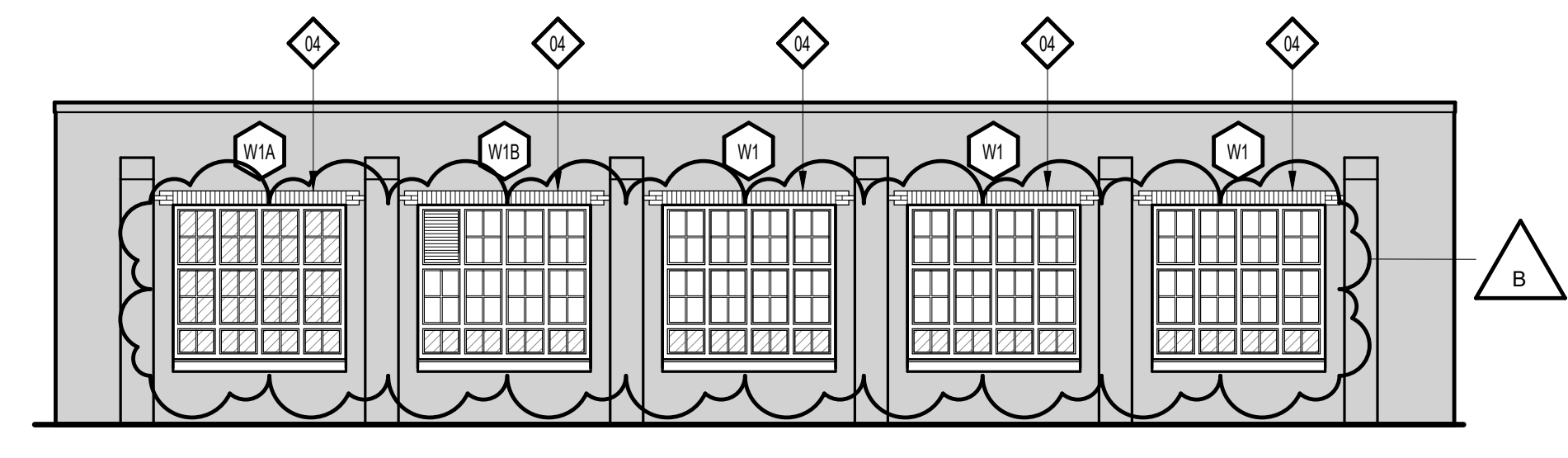
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A-134 1/8" = 1'-0"



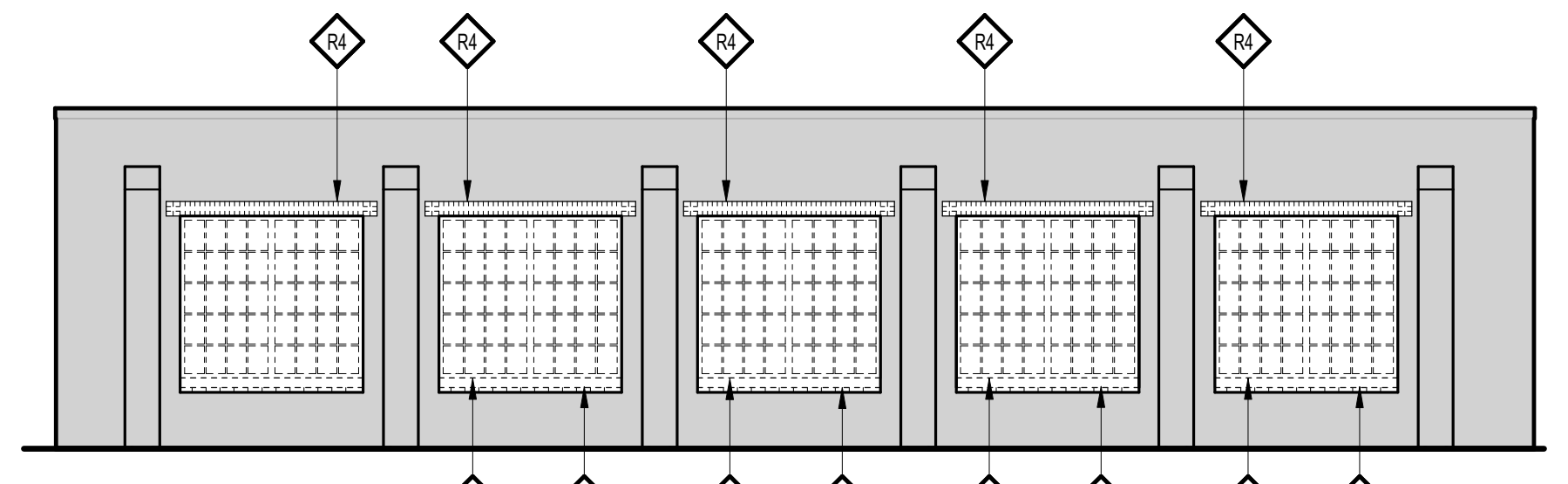
8 Building 34 North Exterior Elevation
A-134 1/8" = 1'-0"



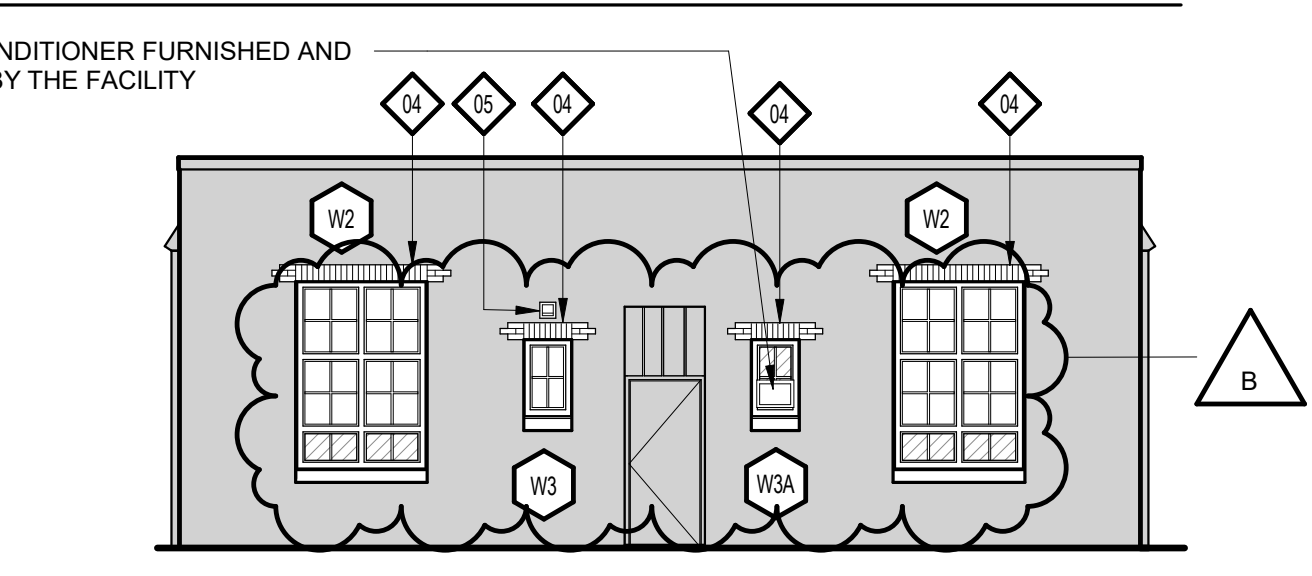
3 Building 34 North Removal Exterior Elevation
A-134 1/8" = 1'-0"



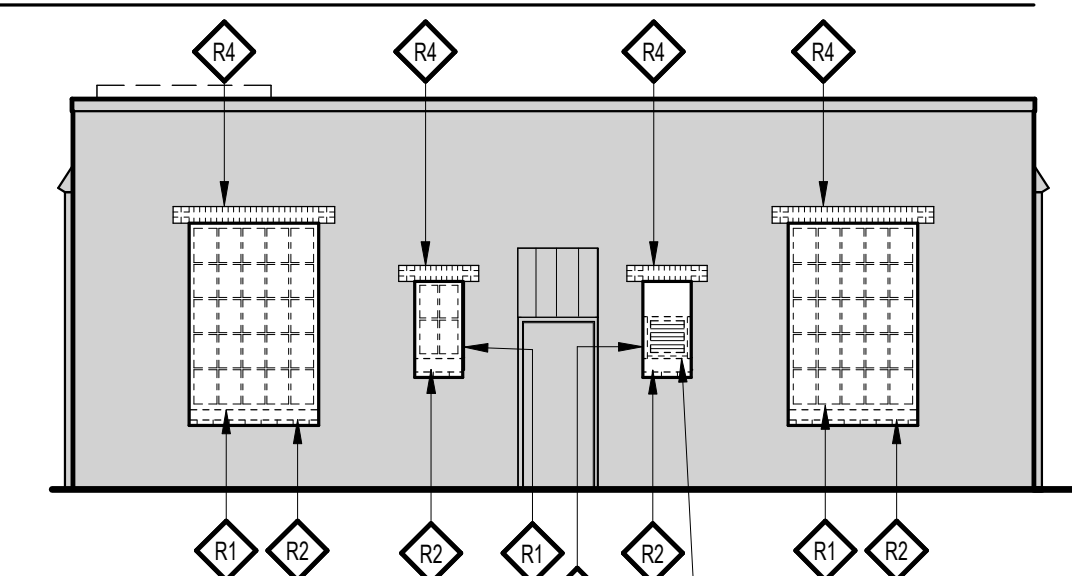
9 Building 34 East Exterior Elevation
A-134 1/8" = 1'-0"



4 Building 34 East Removal Exterior Elevation
A-134 1/8" = 1'-0"



10 Building 34 South Exterior Elevation
A-134 1/8" = 1'-0"



5 Building 34 South Removal Exterior Elevation
A-134 1/8" = 1'-0"

General Notes

- G1. THESE GENERAL NOTES ARE APPLICABLE TO THE ENTIRE CONSTRUCTION DOCUMENT SET UNLESS OTHERWISE NOTED.
- G2. ALL DIMENSIONS ARE TO FINISH FACE AT EXISTING CONSTRUCTION, TO FINISH FACE AT MASONRY CONSTRUCTION AND TO FACE OF FRAMING AT DRYWALL CONSTRUCTION, UNLESS OTHERWISE NOTED.
- G3. +/- NOTATIONS ARE USED IN DIMENSION STRINGS TO ACCOUNT FOR VARIATIONS BETWEEN DRAWINGS AND FIELD CONDITIONS. VERIFY ALL DIMENSIONS DURING LAYOUT AND INFORM DIRECTOR'S REPRESENTATIVE OF ANY DISCREPANCIES OR NECESSARY MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- G4. PROVIDE FIRE RETARDANT SOLID WOOD OR SHEET STEEL BLOCKING IN ALL WALLS AS REQUIRED FOR THE SECURE AND PROPER INSTALLATION OF ALL FRAMES, TRIM, CASEWORK, FURNITURE, SHELVING, ETC. SEE INTERIOR ELEVATIONS, DETAIL DRAWINGS, CASEWORK AND MILLWORK DRAWINGS, AND EQUIPMENT DRAWINGS TO COORDINATE BLOCKING REQUIREMENTS.
- G5. ADJACENT AREAS ARE FACILITY OCCUPIED AND OPERATE FULL TIME TWENTY FOUR (24) HOURS A DAY AND SEVEN (7) DAYS A WEEK. THE WORK SHALL BE COORDINATED TO ALLOW FACILITY ACCESS ADJACENT TO AND AROUND THE PROJECT SPECIFIC AREAS AT ALL TIMES UNLESS SPECIFICALLY PERMITTED IN ADVANCE BY THE FACILITY.
- G6. COORDINATE WITH THE DIRECTOR'S REPRESENTATIVE REGARDING SITE ACCESS REQUIREMENTS, WORKFORCE IDENTIFICATION, SCHEDULE TEMPORARY SEPARATIONS AND/OR BARRICADES TO PROTECT AND SEPARATE CONTRACTOR'S WORKFORCE AND ACTIVITIES FROM FACILITY STAFF AND POPULATION.
- G7. THE CAMPUS SHALL REMAIN FULLY FUNCTIONAL DURING ALL PHASES OF CONSTRUCTION. DIRECTOR'S REPRESENTATIVE'S REQUIREMENTS FOR CARE AND SAFETY TAKE PRECEDENCE OVER ANY REMOVALS CONSTRUCTION ACTIVITIES.
- G8. APPROXIMATE LINTEL LENGTHS ARE THE FOLLOWING: 10'-1" FOR TYPE W1 & W4, 6'-9" FOR TYPE W2, AND 3'-4" FOR TYPE W3.

Removal General Notes

- R1. COORDINATE EXACT EXTENT OF ALL REMOVALS AND MODIFICATIONS WITH REQUIREMENTS OF NEW CONSTRUCTION. DIMENSIONED REMOVALS ARE FOR GENERAL INFORMATION PURPOSES ONLY. REFER TO PLANS AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- R2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS DURING REMOVALS AND NOTIFY DIRECTOR'S REPRESENTATIVE OF ANY DISCREPANCIES THAT WOULD NEGATIVELY AFFECT PREPVENT INSTALLATION OF REPLACEMENT WINDOWS PRIOR TO COMMENCEMENT OF WINDOW INSTALLATION.
- R3. ALL REMAINING WALL, FLOOR, CEILING AND OTHER EXISTING CONSTRUCTION DAMAGED DURING REMOVALS ARE TO BE REPAIRED SUCH THAT REMAINING SURFACES ARE SMOOTH AND FLUSH WITH SURROUNDING MATERIALS AND READY FOR INSTALLATION OF NEW WORK AND APPLICATION OF REQUIRED FINISHES. PROVIDE NEW MATERIALS TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES AS REQUIRED TO MATCH EXISTING CONSTRUCTION.
- R4. PROTECT ALL WORK DURING CONSTRUCTION AS REQUIRED TO MAINTAIN INTEGRITY OF BUILDING ENVELOPE AND PROVIDE A WEATHERTIGHT ENCLOSURE.
- R5. CONTRACTOR IS RESPONSIBLE TO MEET ALL OSHA REGULATIONS AND BUILDING CODE REQUIREMENTS FOR THE REMOVAL OF EXISTING BUILDINGS AND SELECTIVE REMOVAL OF BUILDING COMPONENTS.
- R6. SEE HAZARDOUS MATERIALS ABATEMENT DOCUMENTS FOR HAZARDOUS MATERIALS ABATEMENT INFORMATION AND/OR REQUIREMENTS, AS PER SPECIFICATION SECTION 003126 AND THE "LIMITED PRE-RENOVATION HAZARDOUS MATERIALS SURVEY REPORT".

Removal Plan Legend

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING DOOR, FRAME AND HARDWARE TO REMAIN
- EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED COMPLETE
- NOT IN SCOPE

Removal Keyed Notes

- REMOVE WINDOW COMPLETE, INCLUDING BUT NOT LIMITED TO FRAME, SASHES, GLAZINGS, HARDWARE, ANCHORAGES, FLASHINGS, SEALANTS AND TRIM, BACK TO EXISTING SUBSTRATES. CLEAN, PATCH, REPAIR AND RECONSTRUCT OPENING AS REQUIRED FOR INSTALLATION OF REPLACEMENT WINDOWS. SEE DETAILS 1/A-602, 2/A-602 AND 3/A-602 TYPICAL.
- REMOVE INTERIOR AND EXTERIOR SILLS. REMOVE SINGLE COURSE OF MASONRY BELOW SILLS. CLEAN, PATCH, REPAIR AND RECONSTRUCT OPENING AS REQUIRED FOR INSTALLATION OF NEW SILL. SEE DETAIL 3/A-602 TYPICAL.
- REMOVE STEEL LINTELS, MASONRY SOLDIER COURSE AND MASONRY CONSTRUCTION FULL LENGTH OF LINTELS. SALVAGE, STORE AND CLEAN BRICK FOR REUSE AND RECONSTRUCTION SUBSEQUENT LINTEL REPLACEMENT. SEE DETAIL 1/A-602 AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, DETAILS AND REQUIREMENTS.

Plan Legend

- NEW CONSTRUCTION
- EXISTING CONSTRUCTION
- EXISTING DOOR AND FRAME
- NEW DOOR AND FRAME
- # FF FF DESIGNATES DIMENSION TAKEN TO FINISH FACE OF CONSTRUCTION INDICATED SIDE
- FF FF DESIGNATES DIMENSION TAKEN TO FINISH FACE, BOTH SIDES
- EXISTING BUILDING TO REMAIN UNDISTURBED OUTSIDE AREA OF WORK

General Keyed Notes

- CONTINUOUS BACKER ROD AND CONCAVE TOOLED SEALANT
- NOT USED
- CAST IN PLACE CONCRETE SIDEWALK SEE DETAIL 2/S-102
- PATCH, REPAIR AND RECONSTRUCT MASONRY AND MASONRY SOLDIER COURSE AT LINTEL REPLACEMENT (APPROXIMATELY 400 SF OVERALL AT BUILDING 34)
- EXHAUST FAN, SEE SHEET M-101 FOR DETAILS
- CALLED NORTH

DESIGN & CONSTRUCTION

CONSULTANT
CERTIFICATE OF AUTHORIZATION #: 0021745



UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

ENERGY CODE COMPLIANCE STATEMENT:
TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THE DRAWINGS BEARING MY PROFESSIONAL SEAL AND SIGNATURE MEET OR EXCEED THE NEW YORK STATE 2020 ENERGY CONSERVATION CONSTRUCTION CODE.

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT: CONSTRUCTION

TITLE: REPLACE WINDOWS BUILDINGS 33, 34 & 36

LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTVILLE ROAD RUSH, NY

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

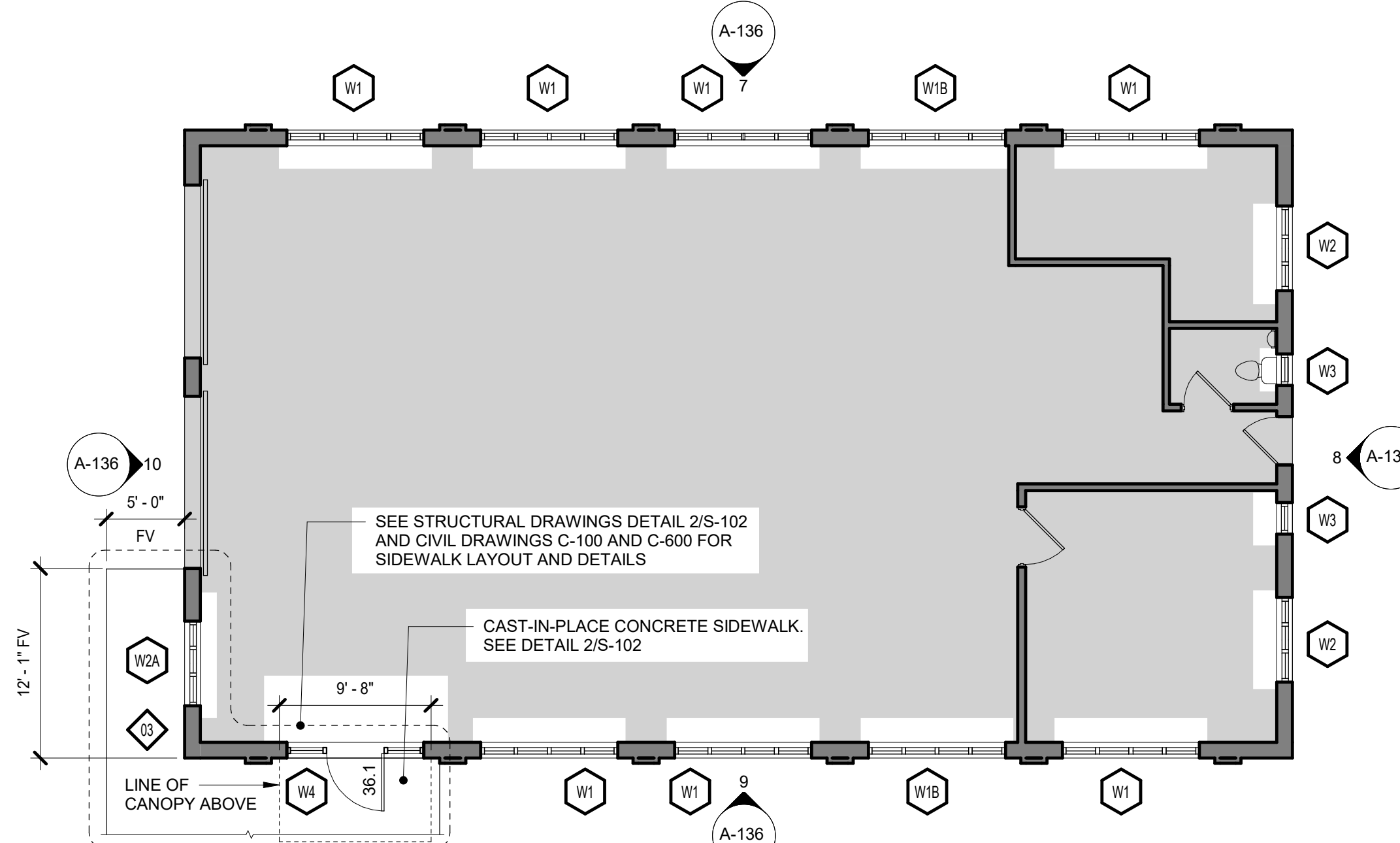
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PROJECT NUMBER:		47572-C
DESIGNED BY:		min
DRAWN BY:		min
FIELD CHECK:		
APPROVED:		
SHEET TITLE:		

BUILDING 34 PLANS AND ELEVATIONS

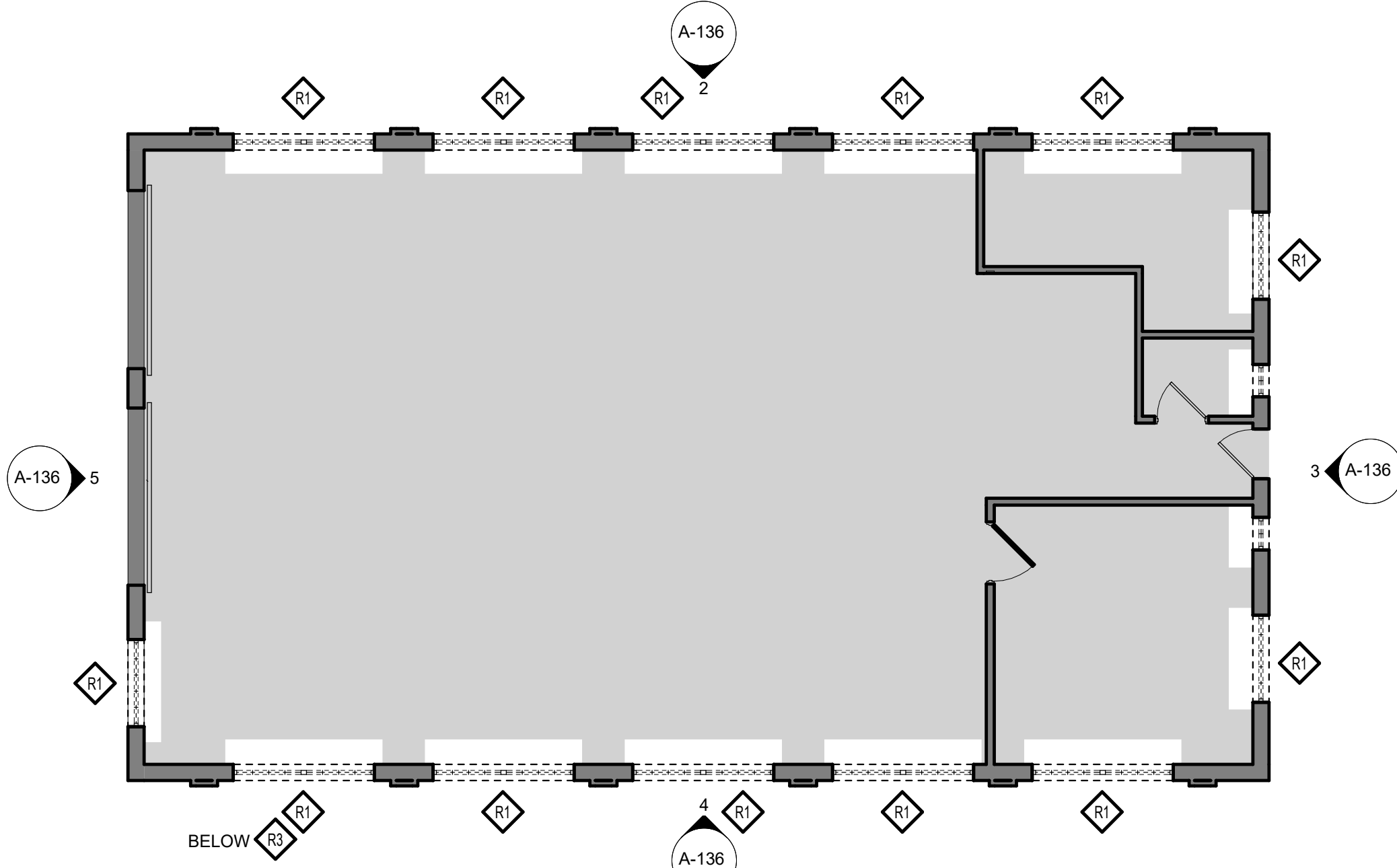
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SHEET: OF

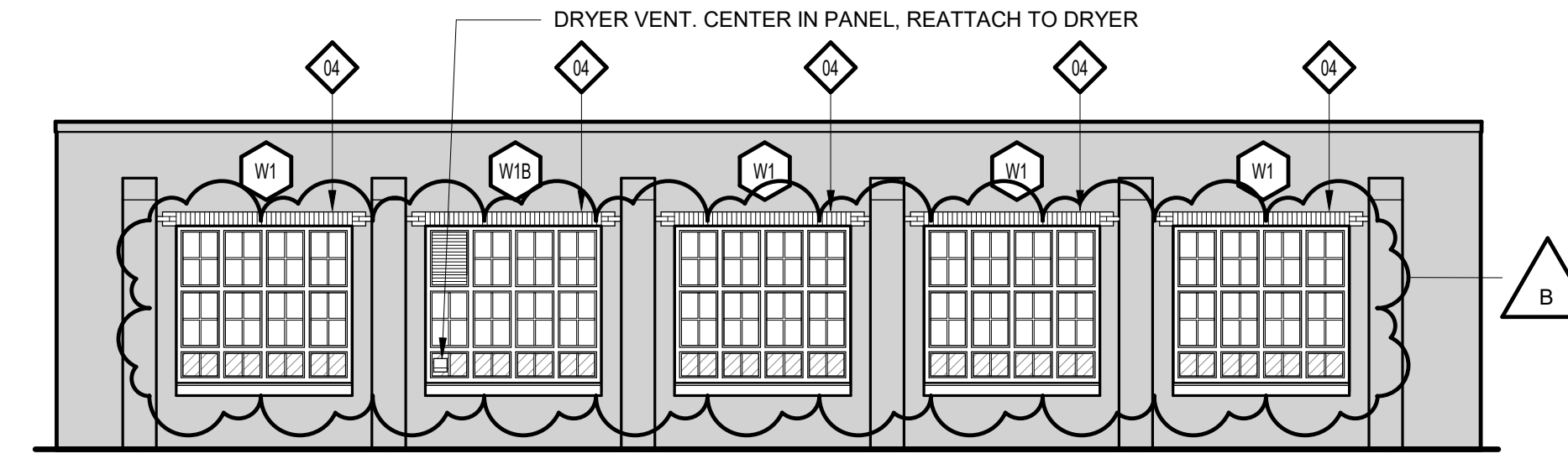
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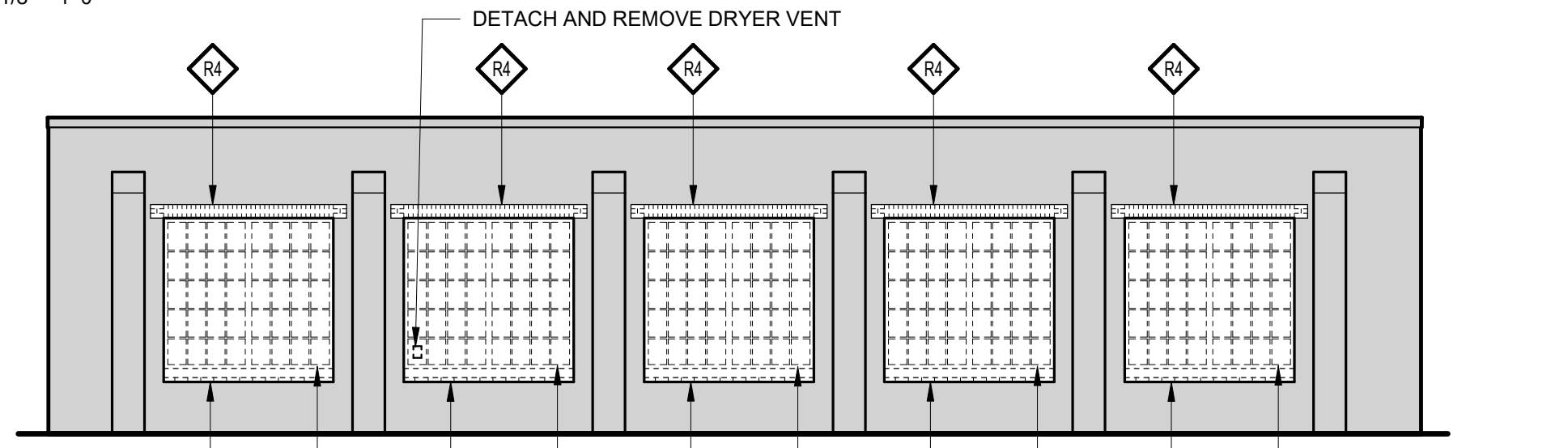
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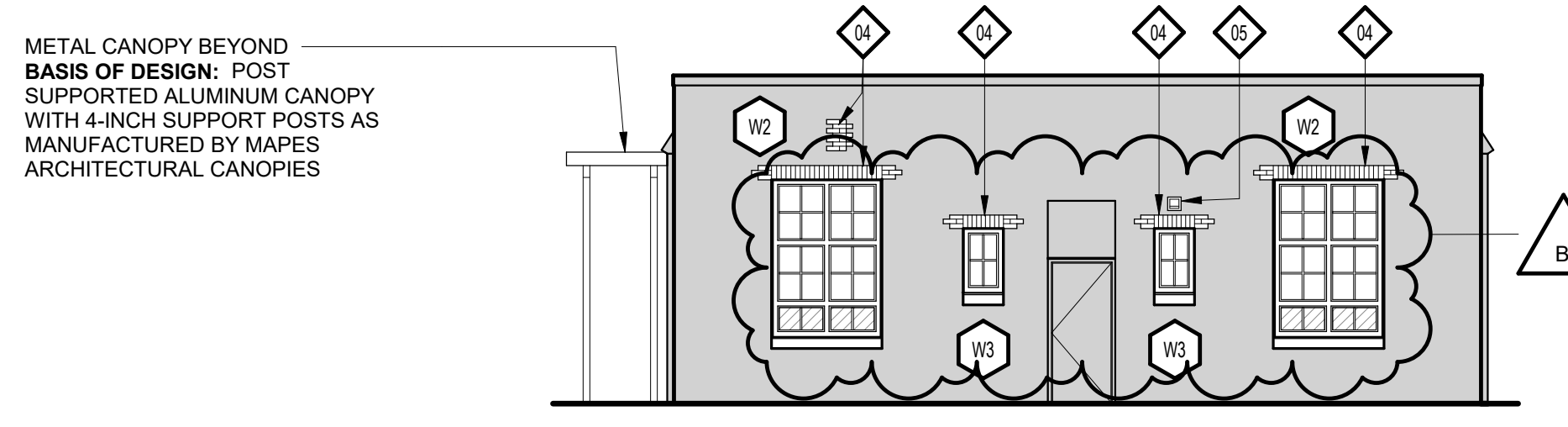
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A-136 1/8" = 1'-0"



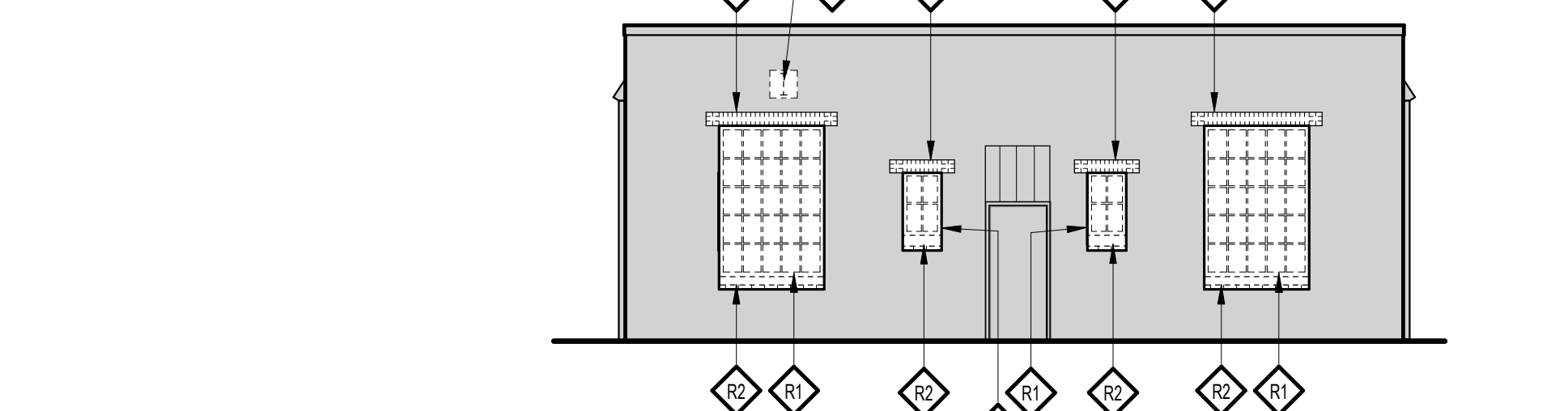
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A-136 1/8" = 1'-0"



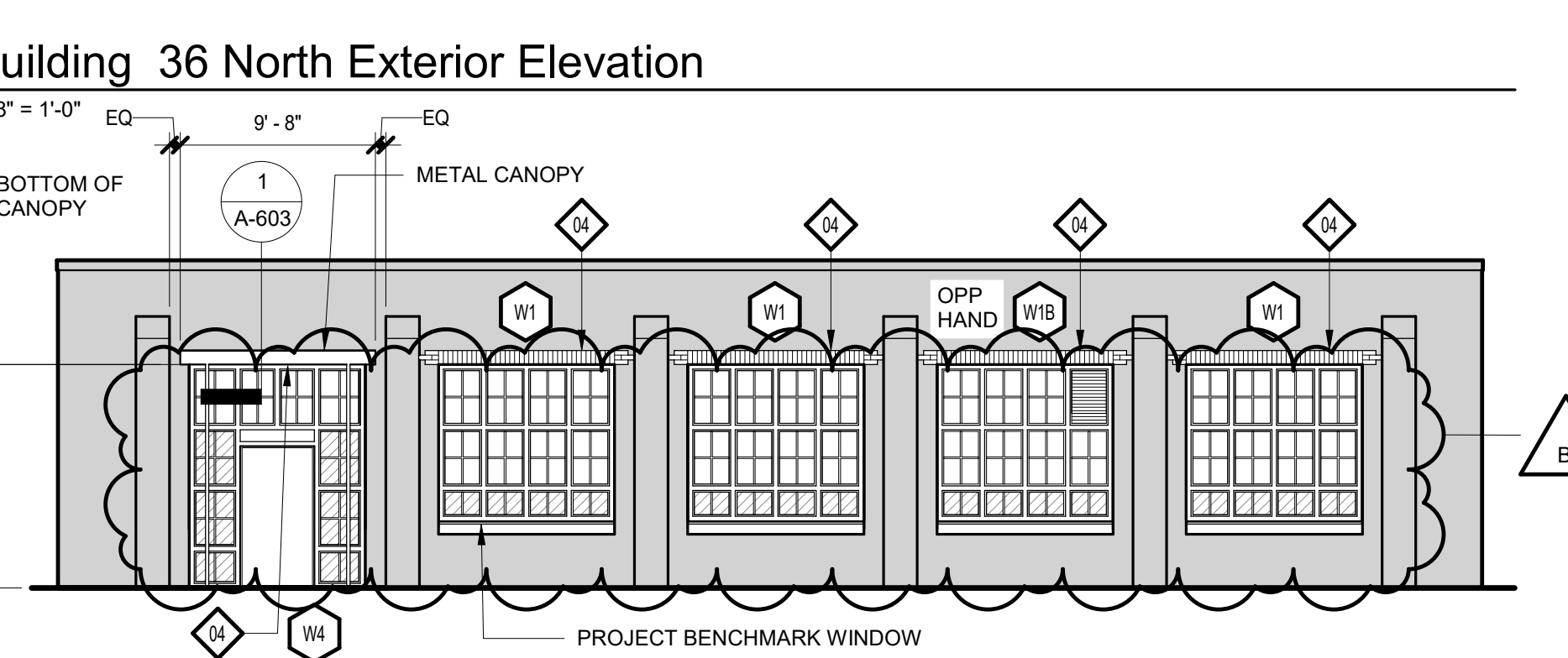
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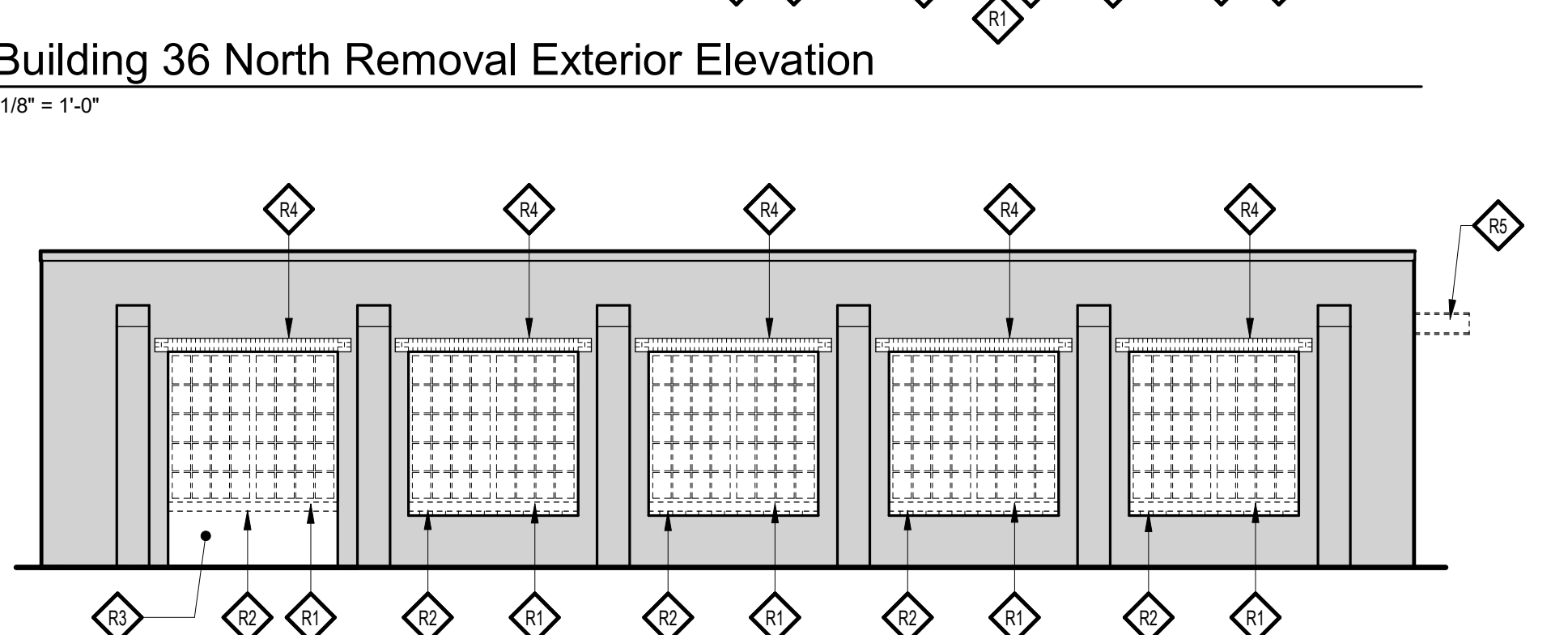
8 Building 36 North Exterior Elevation
A-136 1/8" = 1'-0"



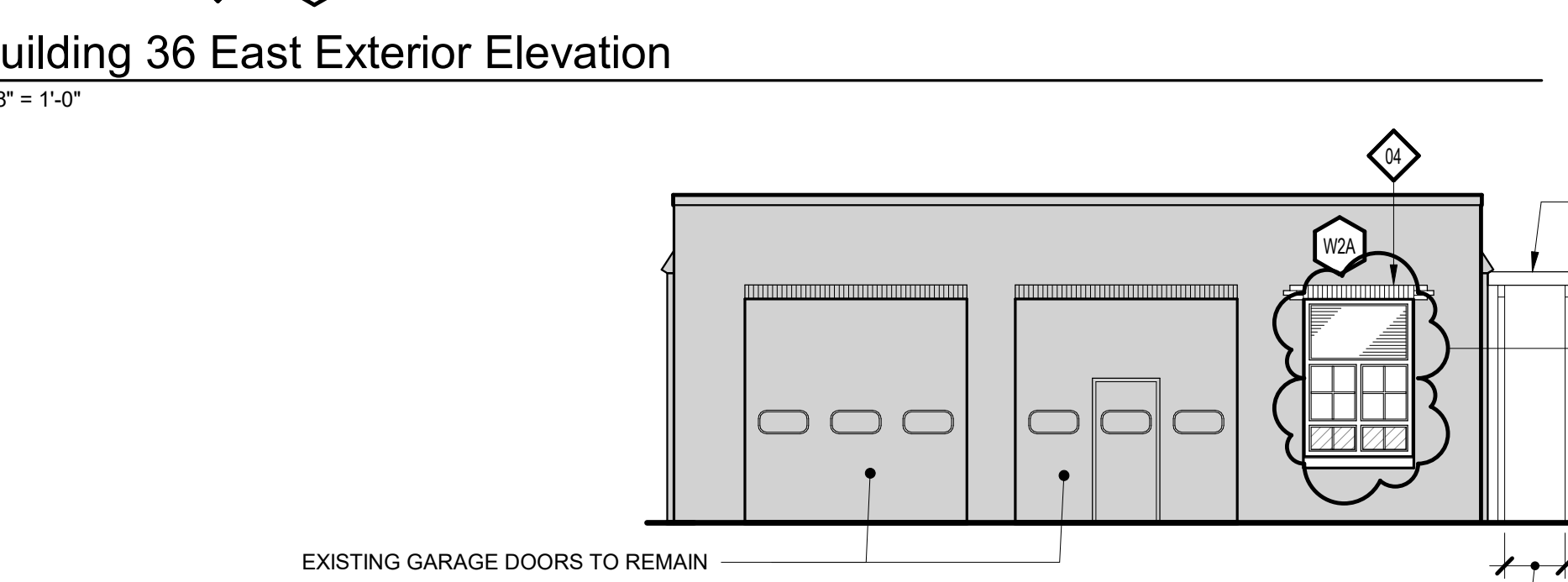
3 Building 36 North Removal Exterior Elevation
A-136 1/8" = 1'-0"



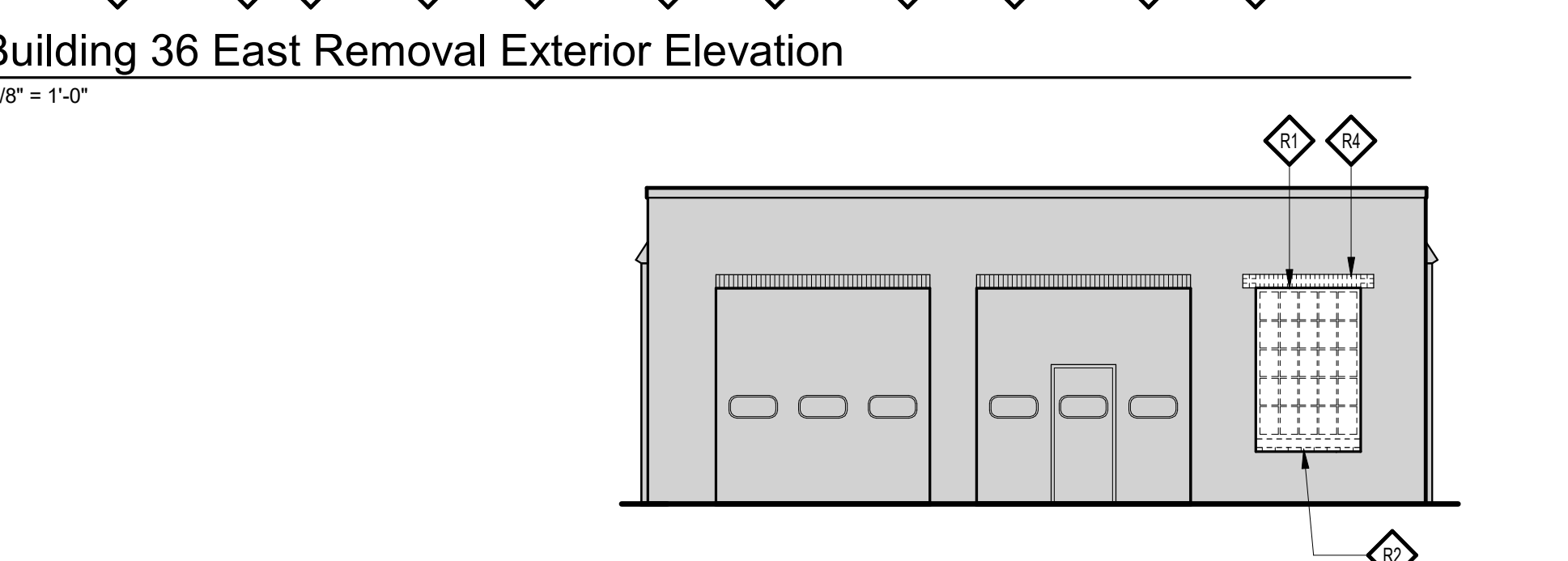
9 Building 36 East Exterior Elevation
A-136 1/8" = 1'-0"



4 Building 36 East Removal Exterior Elevation
A-136 1/8" = 1'-0"



10 Building 36 South Exterior Elevation
A-136 1/8" = 1'-0"



5 Building 36 South Removal Exterior Elevation
A-136 1/8" = 1'-0"

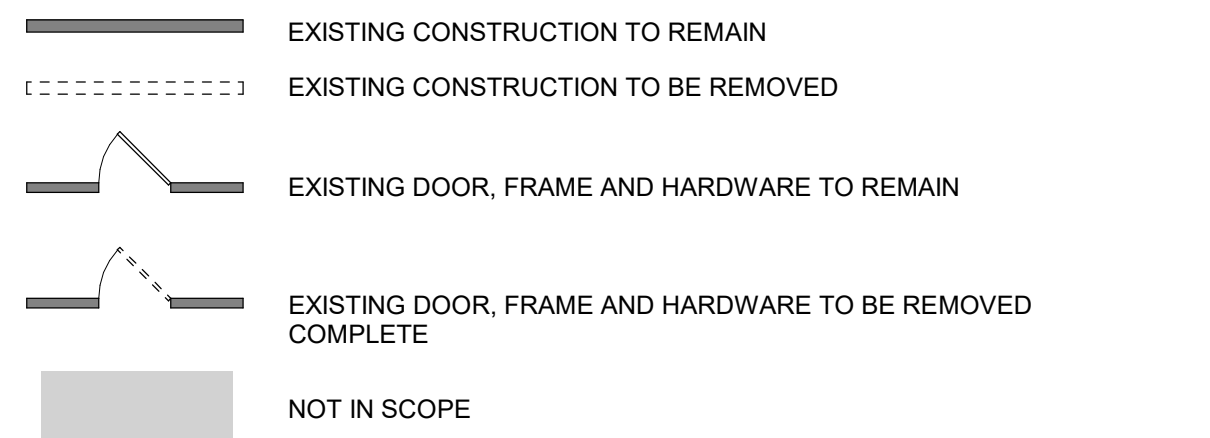
General Notes

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- G3. +/- NOTATIONS ARE USED IN DIMENSION STRINGS TO ACCOUNT FOR VARIATIONS BETWEEN DRAWINGS AND FIELD CONDITIONS. VERIFY ALL DIMENSIONS DURING LAYOUT AND INFORM DIRECTOR'S REPRESENTATIVE OF ANY DISCREPANCIES OR NECESSARY MODIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- G4. PROVIDE FIRE RETARDANT SOLID WOOD OR SHEET STEEL BLOCKING IN ALL WALLS AS REQUIRED FOR THE SECURE AND PROPER INSTALLATION OF ALL FRAMES, TRIM, CASEWORK, FURNITURE, SHELVING, ETC. SEE INTERIOR ELEVATIONS, DETAIL DRAWINGS, CASEWORK AND MILLWORK DRAWINGS, AND EQUIPMENT DRAWINGS TO COORDINATE BLOCKING REQUIREMENTS.
- G5. ADJACENT AREAS ARE FACILITY OCCUPIED AND OPERATE FULL TIME TWENTY FOUR (24) HOURS A DAY AND SEVEN (7) DAYS A WEEK. THE WORK SHALL BE COORDINATED TO ALLOW FACILITY ACCESS ADJACENT TO AND AROUND THE PROJECT SPECIFIC AREAS AT ALL TIMES UNLESS SPECIFICALLY PERMITTED IN ADVANCE BY THE FACILITY.
- G6. COORDINATE WITH THE DIRECTOR'S REPRESENTATIVE REGARDING SITE ACCESS REQUIREMENTS, WORKFORCE IDENTIFICATION, SCHEDULE TEMPORARY SEPARATIONS AND/OR BARRICADES TO PROTECT AND SEPARATE CONTRACTOR'S WORKFORCE AND ACTIVITIES FROM FACILITY STAFF AND POPULATION.
- G7. THE CAMPUS SHALL REMAIN FULLY FUNCTIONAL DURING ALL PHASES OF CONSTRUCTION. DIRECTOR'S REPRESENTATIVE'S REQUIREMENTS FOR CARE AND SAFETY TAKE PRECEDENCE OVER ANY REMOVALS CONSTRUCTION ACTIVITIES.
- G8. APPROXIMATE LINTEL LENGTHS ARE THE FOLLOWING: 10'-1" FOR TYPE W1 & W4, 6'-9" FOR TYPE W2, AND 3'-4" FOR TYPE W3.

Removal General Notes

- R1. COORDINATE EXACT EXTENT OF ALL REMOVALS AND MODIFICATIONS WITH REQUIREMENTS OF NEW CONSTRUCTION. DIMENSIONED REMOVALS ARE FOR GENERAL INFORMATION PURPOSES ONLY. REFER TO PLANS AND DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- R2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS DURING REMOVALS AND NOTIFY DIRECTOR'S REPRESENTATIVE OF ANY DISCREPANCIES THAT WOULD NEGATIVELY AFFECT OR PREVENT INSTALLATION OF REPLACEMENT WINDOWS PRIOR TO COMMENCEMENT OF WINDOW INSTALLATION.
- R3. ALL REMAINING WALL, FLOOR, CEILING AND OTHER EXISTING CONSTRUCTION DAMAGED DURING REMOVALS ARE TO BE REPAIRED SUCH THAT REMAINING SURFACES ARE SMOOTH AND FLUSH WITH SURROUNDING MATERIALS AND READY FOR INSTALLATION OF NEW WORK AND APPLICATION OF REQUIRED FINISHES. PROVIDE NEW MATERIALS TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES AS REQUIRED TO MATCH EXISTING CONSTRUCTION.
- R4. PROTECT ALL WORK DURING CONSTRUCTION AS REQUIRED TO MAINTAIN INTEGRITY OF BUILDING ENVELOPE AND PROVIDE A WEATHERTIGHT ENCLOSURE.
- R5. CONTRACTOR IS RESPONSIBLE TO MEET ALL OSHA REGULATIONS AND BUILDING CODE REQUIREMENTS FOR THE REMOVAL OF EXISTING BUILDINGS AND SELECTIVE REMOVAL OF BUILDING COMPONENTS.
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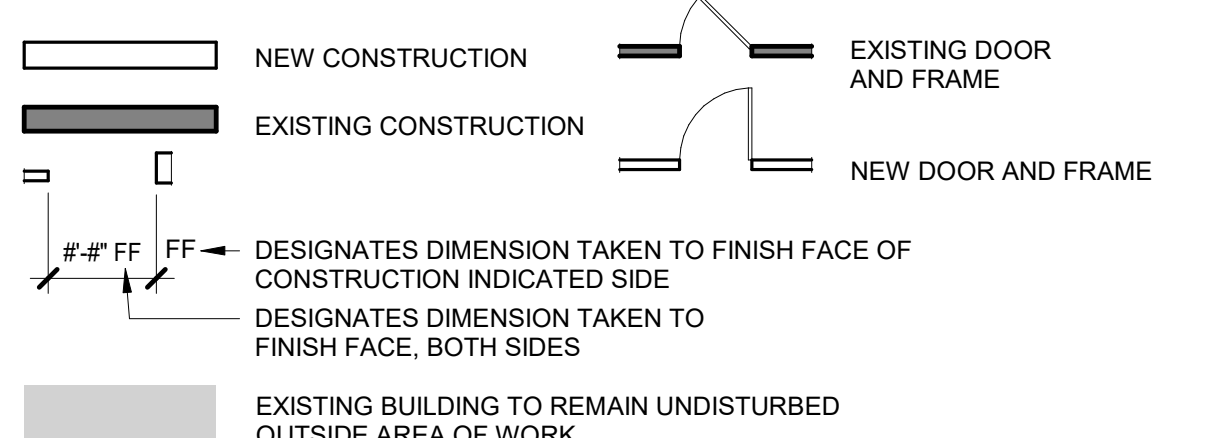
Removal Plan Legend



Removal Keyed Notes

- R1. REMOVE WINDOW COMPLETE, INCLUDING BUT NOT LIMITED TO FRAME, SASHES, GLAZINGS, HARDWARE, ANCHORAGES, FLASHINGS SEALANTS AND TRIM. BACK TO EXISTING SUBSTRATES. CLEAN, PATCH, REPAIR AND RECONSTRUCT OPENING AS REQUIRED FOR INSTALLATION OF REPLACEMENT WINDOWS. SEE DETAILS 1/A-602, 2/A-602 AND 3/A-602 TYPICAL.
- R2. REMOVE INTERIOR AND EXTERIOR SILLS. REMOVE SINGLE COURSE OF MASONRY BELOW SILLS. CLEAN, PATCH, REPAIR AND RECONSTRUCT OPENING AS REQUIRED FOR INSTALLATION OF NEW SILL. SEE DETAIL 3/A-602 TYPICAL.
- R3. REMOVE TRIPLE WYTHE MASONRY WALL FULL WIDTH OF WINDOW OPENING TO TOP OF FOUNDATION WALL. CLEAN AND SALVAGE BRICK FOR USE IN OPENING RECONSTRUCTION. CLEAN, PATCH, REPAIR AND RECONSTRUCT OPENING TO RECEIVE WINDOW AND DOOR ASSEMBLY.
- R4. REMOVE STEEL LINTELS AND MASONRY CONSTRUCTION FULL LENGTH OF LINTELS. SALVAGE, STORE AND CLEAN BRICK FOR REUSE AND RECONSTRUCTION SUBSEQUENT LINTEL REPLACEMENT. SEE DETAIL 1/A-602 AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION, DETAILS AND REQUIREMENTS.
- R5. REMOVE CANTILEVERED STEEL BEAM AND APPROXIMATELY 2 SF OF THE SURROUNDING BRICK TO ACCESS THE CONNECTION POINT. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

Plan Legend



General Keyed Notes

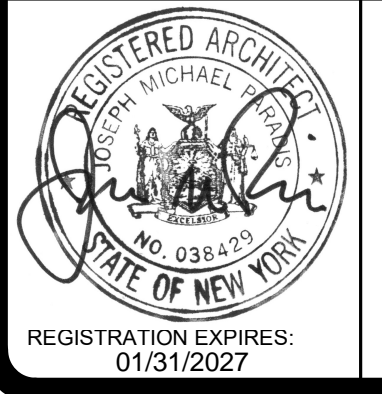
- G1. CONTINUOUS BACKER ROD AND CONCAVE TOOLED SEALANT
- G2. NOT USED
- G3. CAST IN PLACE CONCRETE SIDEWALK SEE DETAIL 2/S-102
- G4. PATCH, REPAIR AND RECONSTRUCT MASONRY AND MASONRY SOLDIER COURSE AT LINTEL REPLACEMENT AND BEAM REMOVAL (APPROXIMATELY 402 SF OVERALL AT BUILDING 36)
- G5. EXHAUST FAN. SEE SHEET M-101 FOR DETAILS
- Called North



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CONTRACT: **CONSTRUCTION**

TITLE: REPLACE WINDOWS BUILDINGS 33, 34 & 36

LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTSVILLE ROAD RUSH, NY

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
B	09/09/2025	ADDENDUM 6
A	04/10/2025	BID DOCUMENTS
PROJECT NUMBER:		47572-C
DESIGNED BY:		min
DRAWN BY:		min
FIELD CHECK:		
APPROVED:		
SHEET TITLE:		

BUILDING 36 PLANS AND ELEVATIONS

DRAWING NUMBER: **A-136**

SHEET: OF



UNIFORM CODE STATEMENT:
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CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
B	09/09/2025	ADDENDUM 6
A	04/10/2025	BID DOCUMENTS
PROJECT NUMBER:	47572-C	
DESIGNED BY:	min	
DRAWN BY:	min	
FIELD CHECK:		
APPROVED:		

SHEET TITLE:
SCHEDULES AND DETAILS
DRAWING NUMBER:
A-601
SHEET: OF

DOOR		FRAME										DETAILS					DOOR NUMBER		
DOOR NUMBER	WIDTH	HEIGHT	THICK	TYPE	MAT	GLAZING	FIN	COL	TYPE	MAT	FIN	COL	RATING	HEAD	JAMB	SILL	HARDWARE	COMMENTS	DOOR NUMBER
36.1	3'-8"	7'-0"	1 3/4"	F1	AL	---	FRP	ME	F4	AL	PTD	ME	---	7/A-602	8/A-602	10/A-602	SET 1	SEE NOTES DS1 AND DS2	36.1

Door Schedule Notes

- DS1. SEE WINDOW TYPE W4.
- DS2. SEE SPECIFICATION SECTION 084113 FOR HARDWARE SET AND REQUIREMENTS.

Window Notes

- WIN1. FIELD VERIFY ALL MASONRY OPENINGS. WINDOW SIZES VARY BETWEEN BUILDINGS.
- WIN2. WINDOW SIZES AND CONFIGURATION AS PER BASIS OF DESIGN WINDOW SYSTEM. CONTRACTOR SHALL COORDINATE WINDOW SIZES WITH PROVIDED WINDOW SYSTEM.
- WIN3. PROVIDE FOR 3/8" BACKER ROD AND CONCAVE TOOLED SEALANT TYPE-# JOINT FULL PERIMETER OF WINDOWS. SEE SHEET A-601 FOR SEALANT LOCATIONS AND TYPES

Window Type Legend

- IAP INSULATED ALUMINUM PANEL
- LV LOUVER. SEE MECHANICAL DRAWINGS FOR TYPE
- S10 TYPE S10 SECURITY GLAZING

Window Type W1 Opening Width Schedule

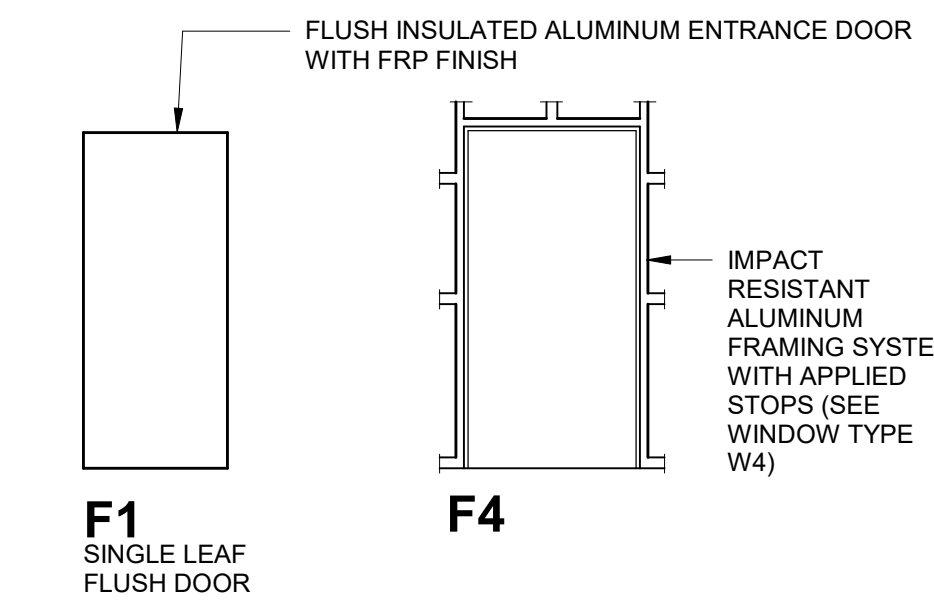
Location	Masonry Opening Width	Window Width
BUILDING 33	8'-6" FV	8'-5 1/4" FV
BUILDING 34	8'-9" FV	8'-8 1/4" FV
BUILDING 36	8'-6 1/4" FV	8'-5 1/2" FV

NOTE A-601.A: BOTTOM OF MASONRY OPENING TO MATCH BOTTOM OF EXISTING MASONRY OPENING. APPROXIMATELY 11'-1" AFF. CONTRACTOR TO FIELD VERIFY.

Window Type W2 Opening Width Schedule

Location	Masonry Opening Width	Window Width
BUILDING 33	5'-2 1/2" FV	5'-1 3/4" FV
BUILDING 34	5'-4 1/2" FV (NORTH)	5'-3 3/4" FV
BUILDING 36	5'-5" FV (SOUTH)	5'-4 1/4" FV

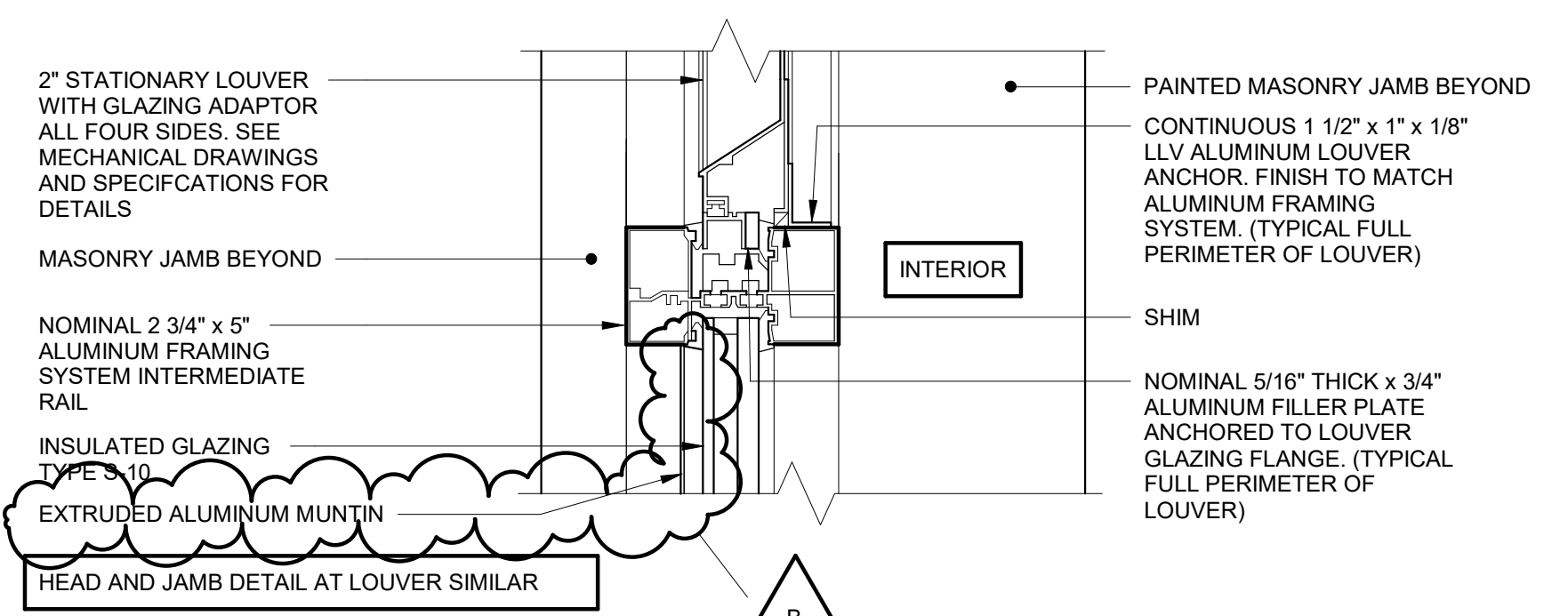
NOTE A-601.B: BOTTOM OF MASONRY OPENING TO MATCH BOTTOM OF EXISTING MASONRY OPENING. APPROXIMATELY 8'-8" AFF. CONTRACTOR TO FIELD VERIFY.



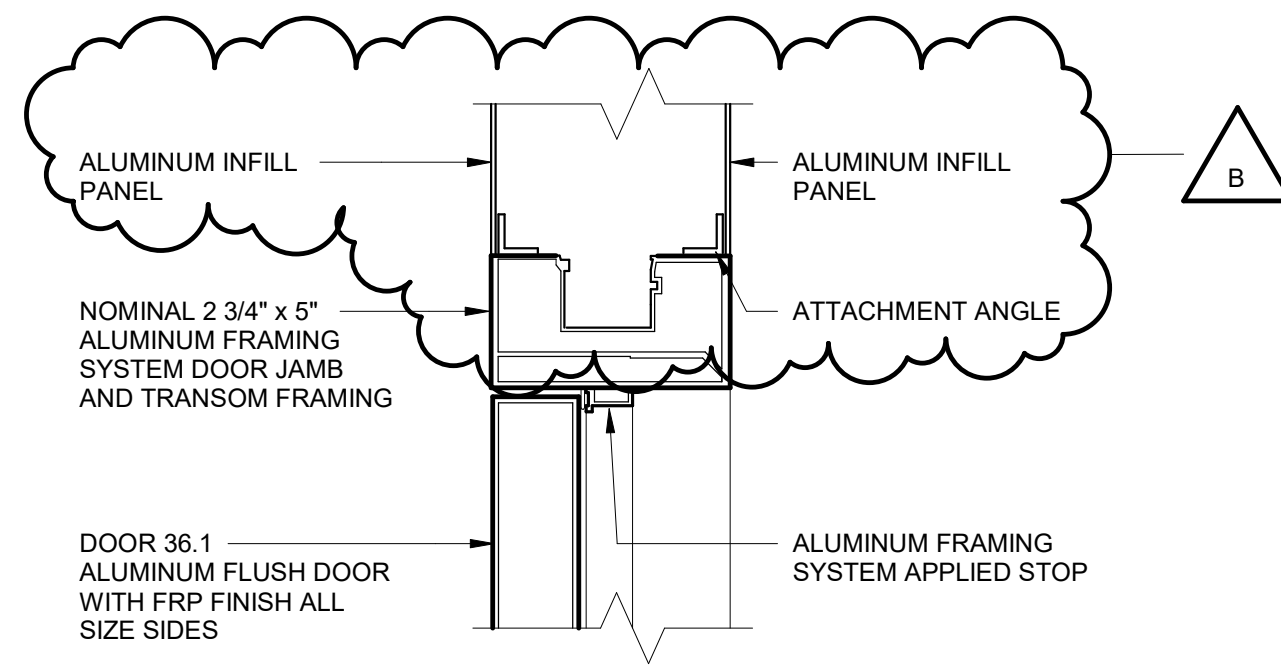
Door Types Frame Types

Door Schedule Legend

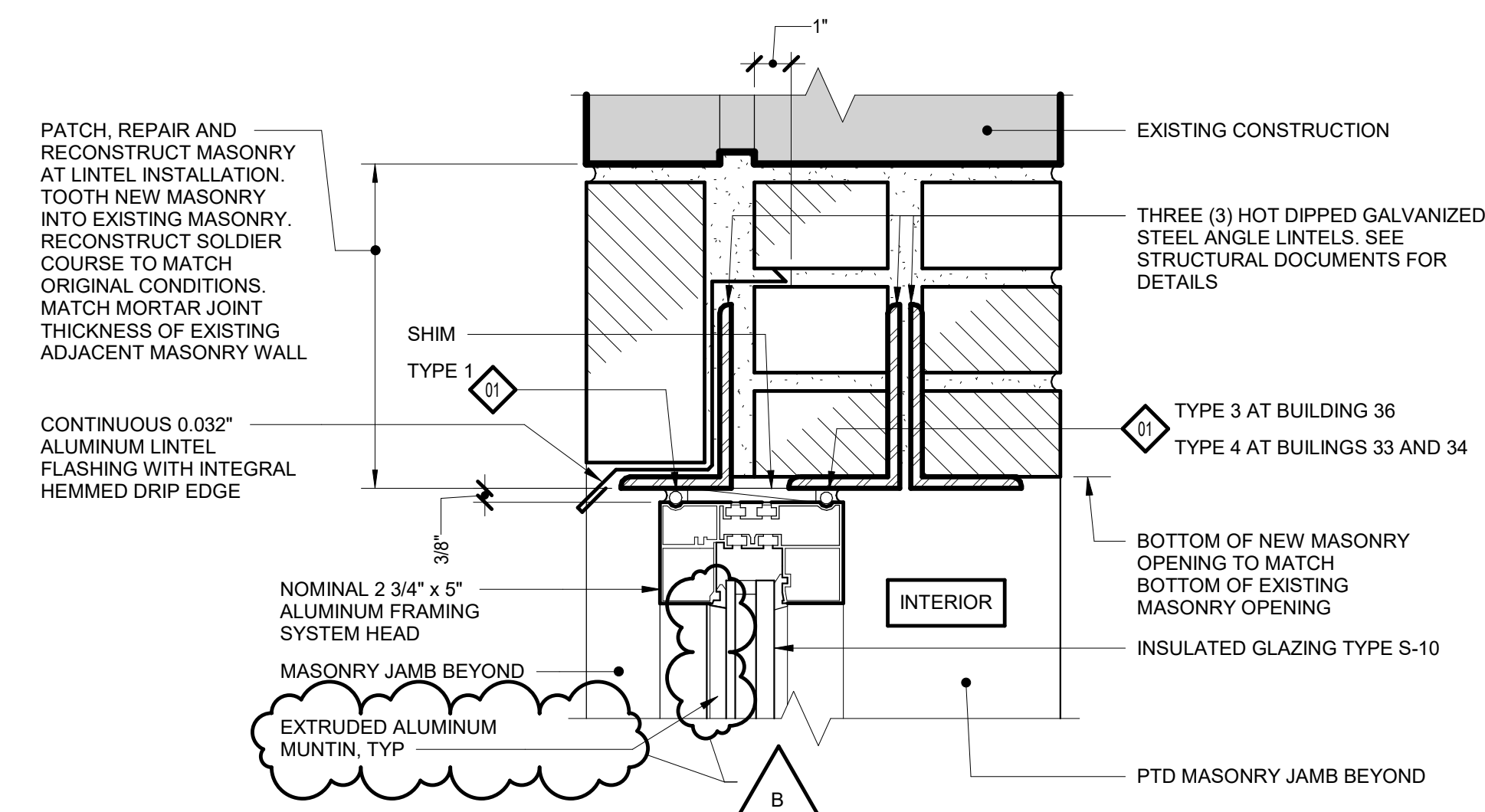
- AL ALUMINUM
- FRP FIBERGLASS REINFORCED PLASTIC
- ME MATCH EXISTING ADJACENT BUILDING METAL WINDOW SYSTEM (GREEN)



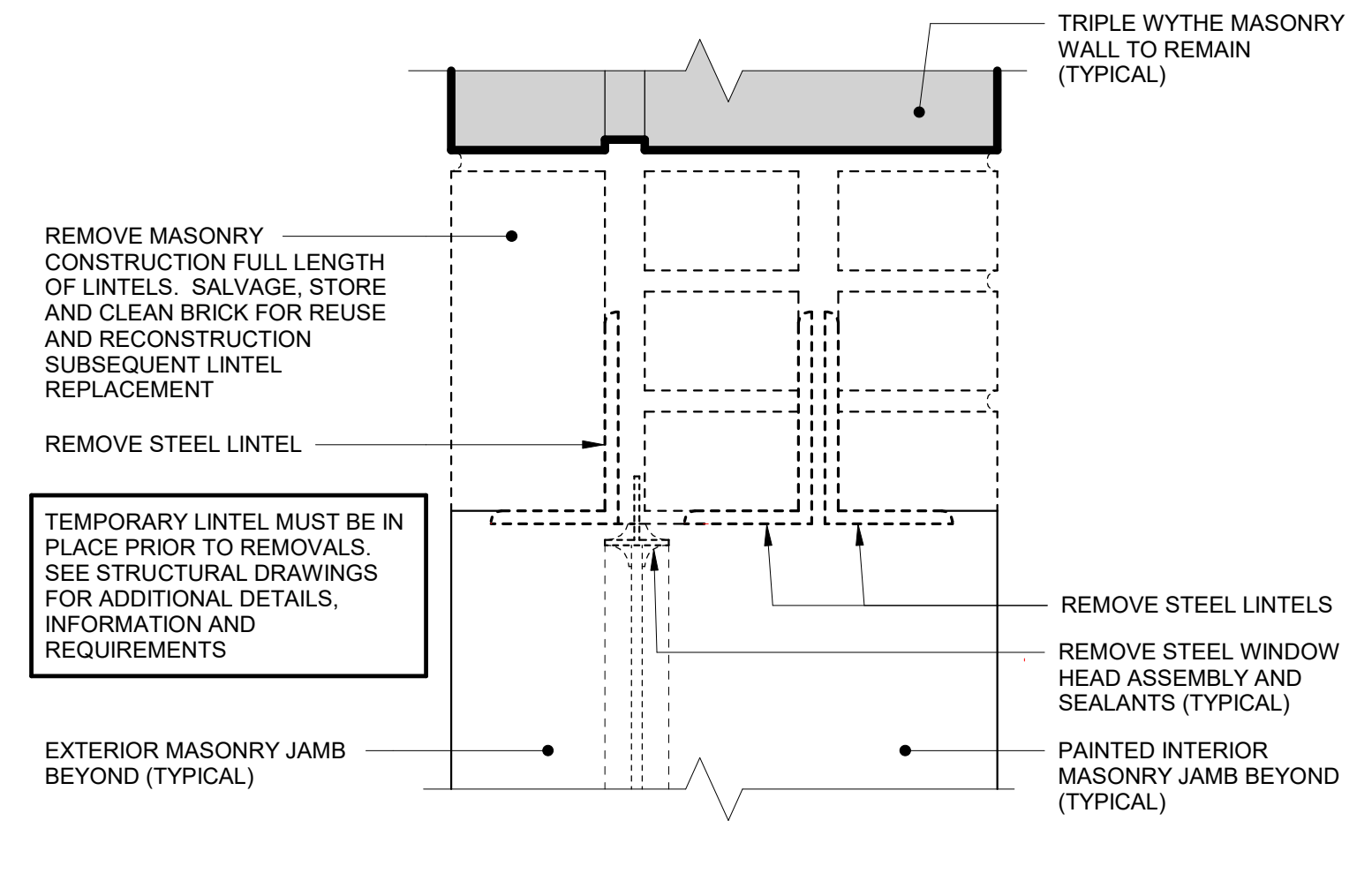
1 Section at Louver
A-601 3" = 1'-0"



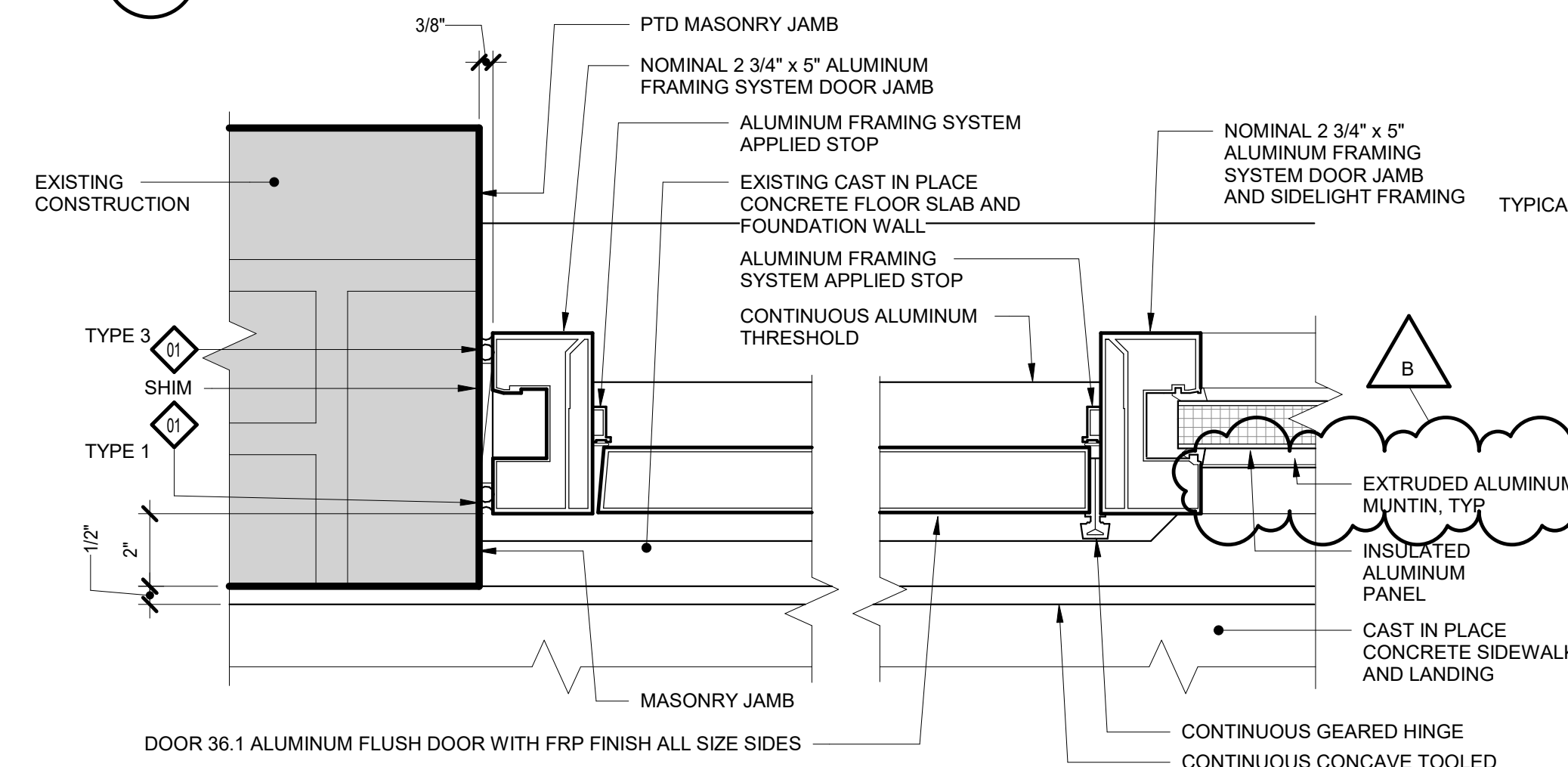
7 Head Detail at Door 36.1
A-602 3" = 1'-0"



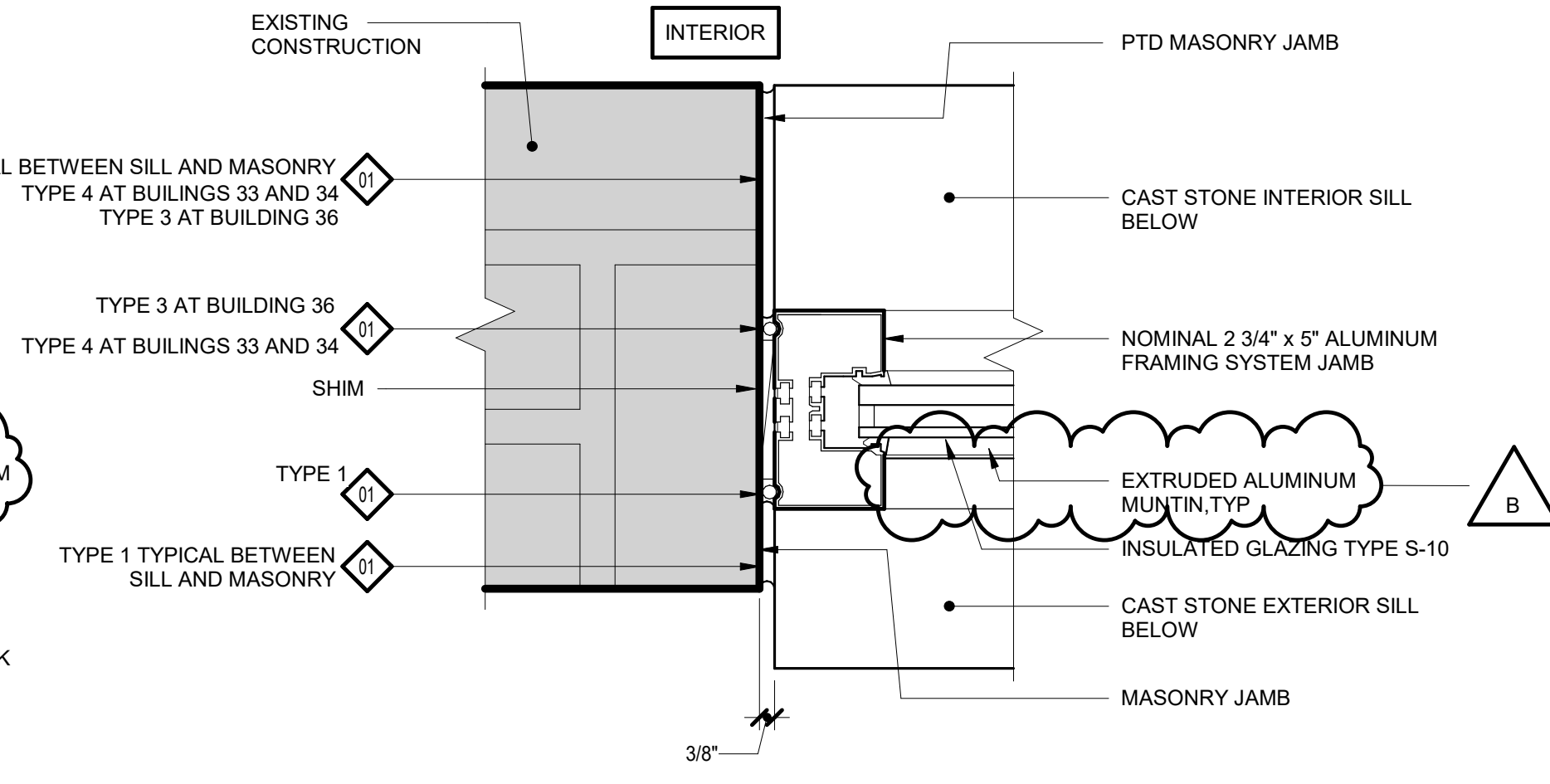
4 Head Detail of Window Types W1, W2, W3 and W4
A-602 3" = 1'-0"



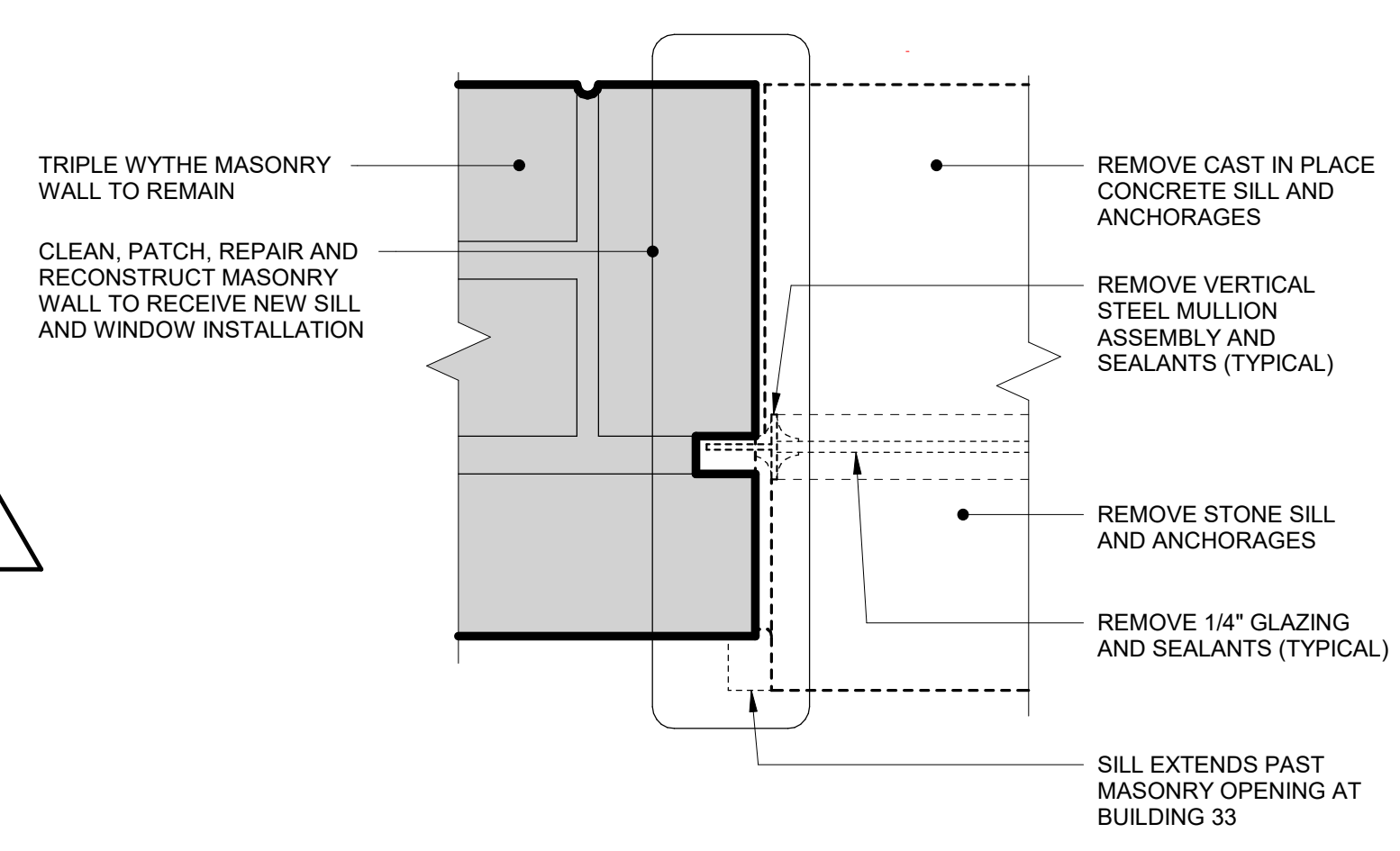
1 Removal Detail at Window Head (Typical)
A-602 3" = 1'-0"



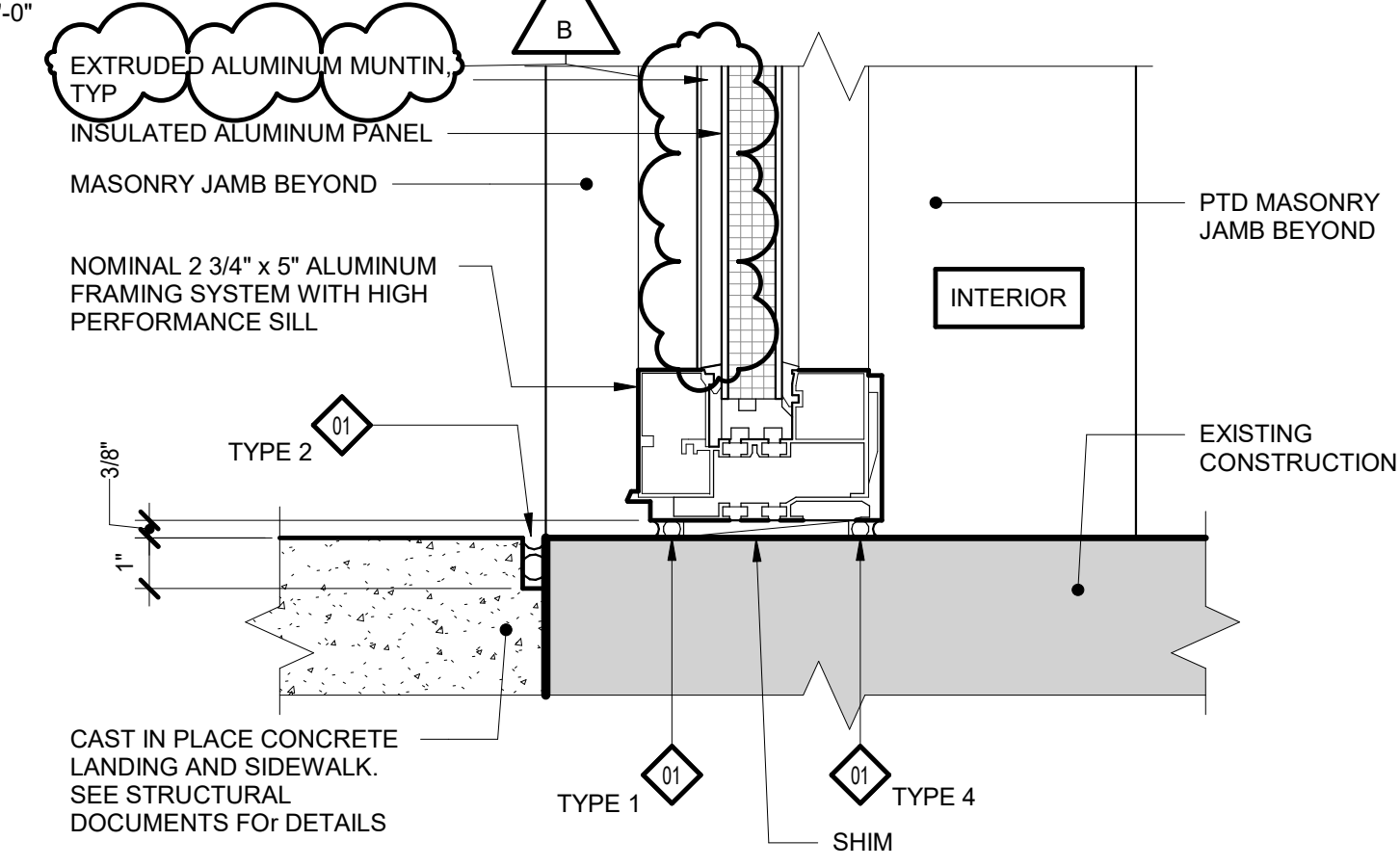
8 Jamb Detail at Door 36.1
A-602 3" = 1'-0"



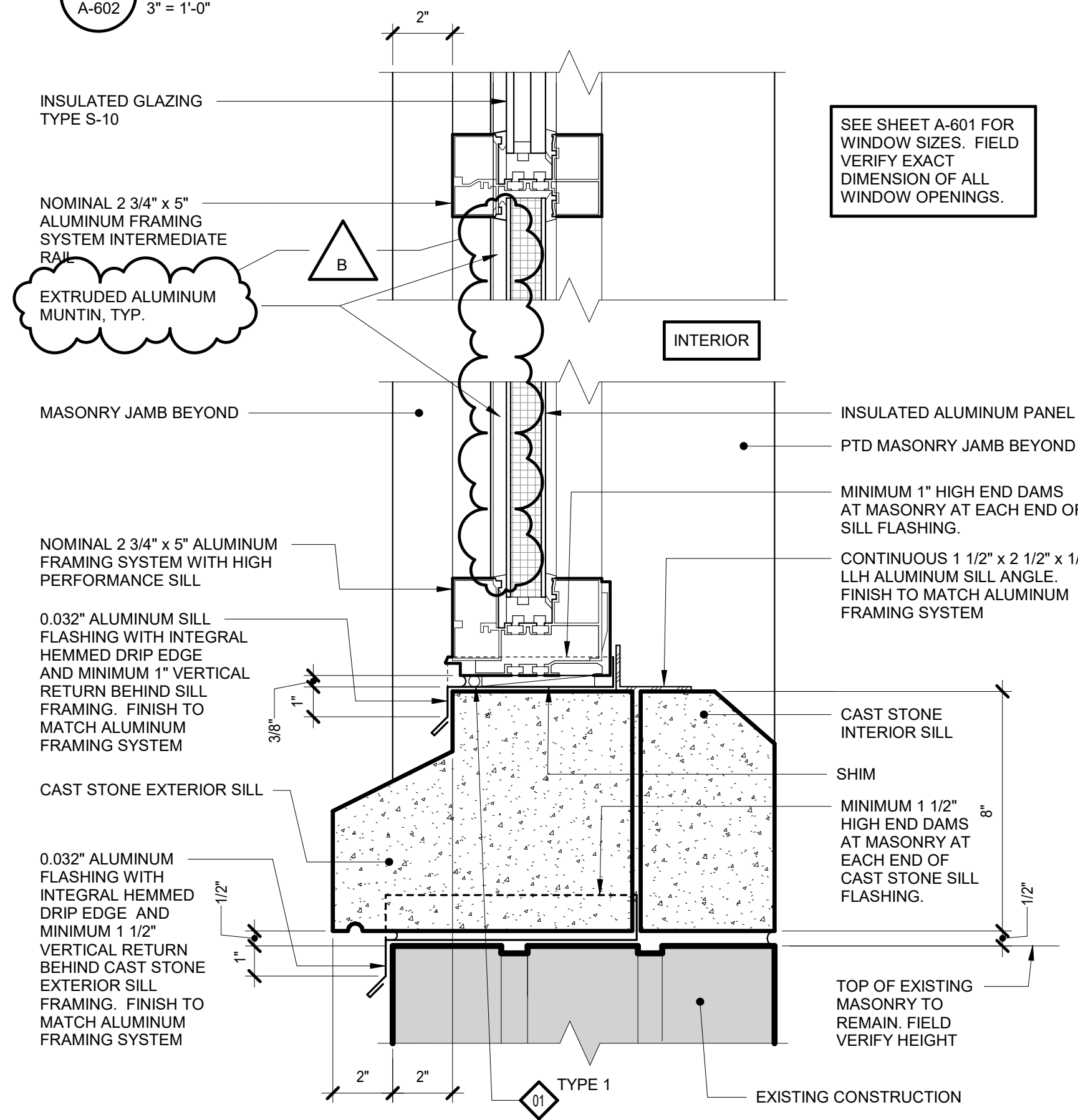
5 Jamb Detail at Window Types W1, W2, W3 and W4
A-602 3" = 1'-0"



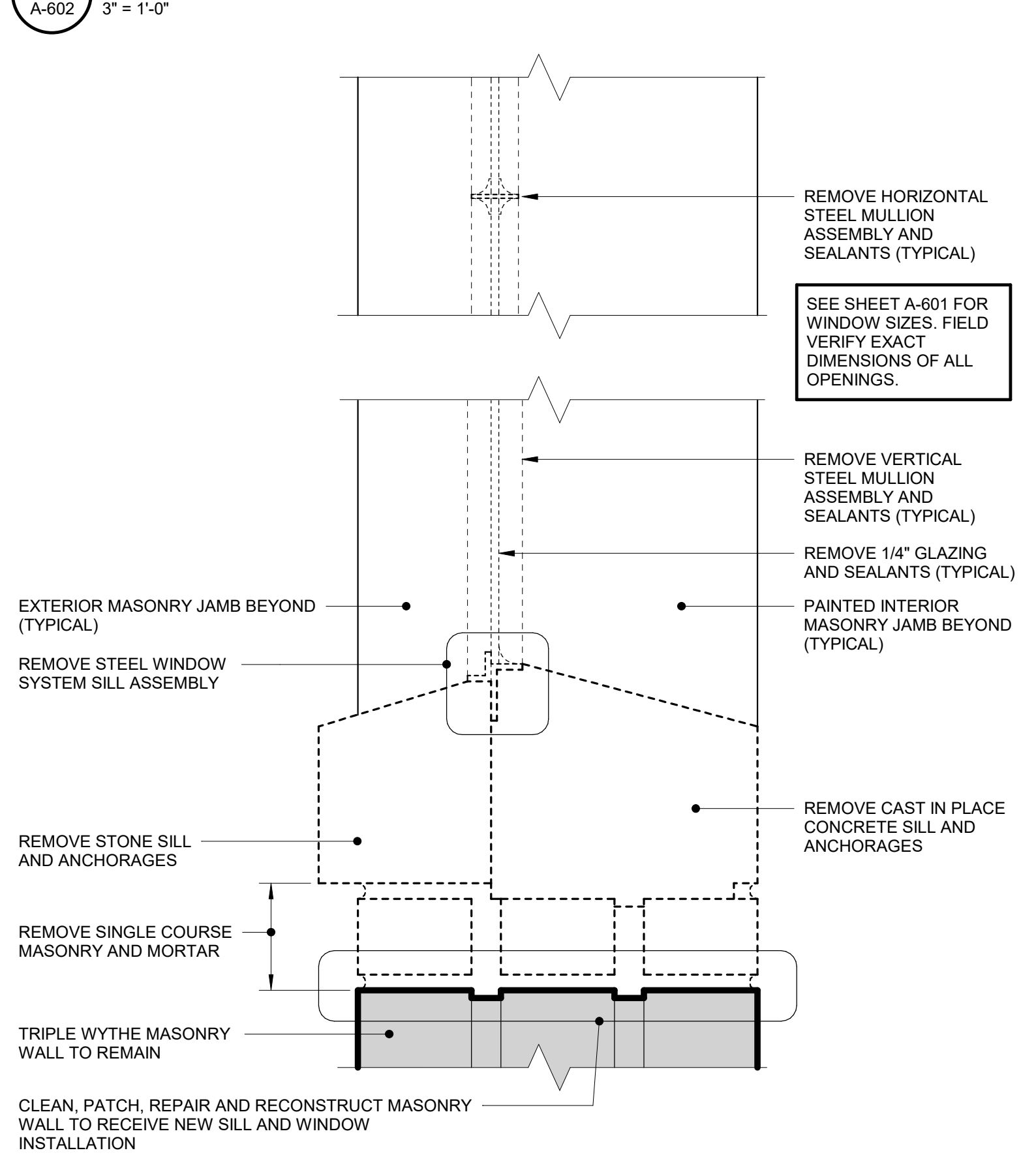
2 Removal Detail at Window Jamb (Typical)
A-602 3" = 1'-0"



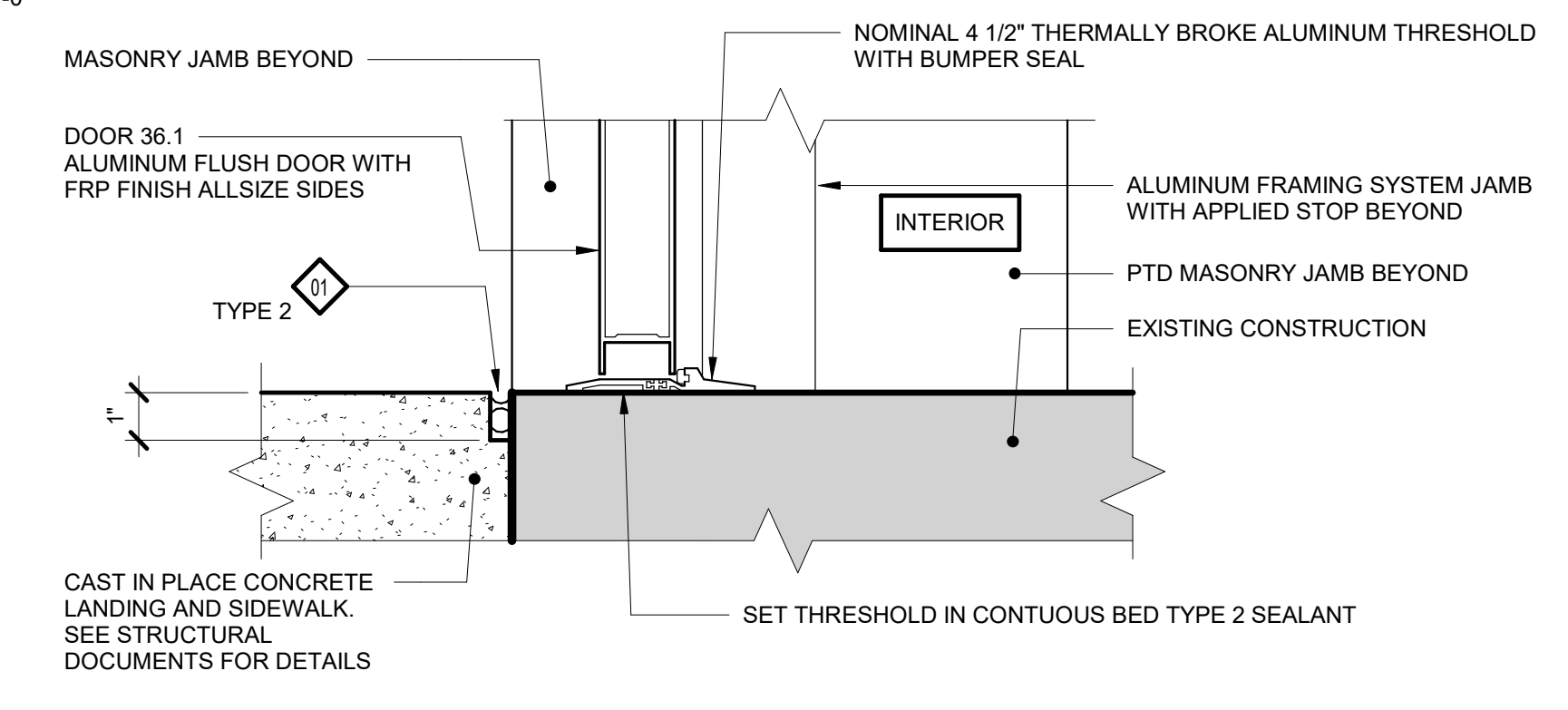
9 Sill Detail at Window Type W4
A-602 3" = 1'-0"



6 Sill Detail at Window Types W1, W2 and W3
A-602 3" = 1'-0"



3 Removal Detail at Window Sill (Typical)
A-602 3" = 1'-0"



10 Threshold Detail at Door 36.1
A-602 3" = 1'-0"

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REGISTERED ARCHITECT
MICHAEL J. PETERSON
NO. 036493
STATE OF NEW YORK
REGISTRATION EXPIRES: 01/31/2027

CONTRACT:
CONSTRUCTION
TITLE: REPLACE WINDOWS BUILDINGS 33, 34 & 36
LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTSVILLE ROAD RUSH, NY
CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

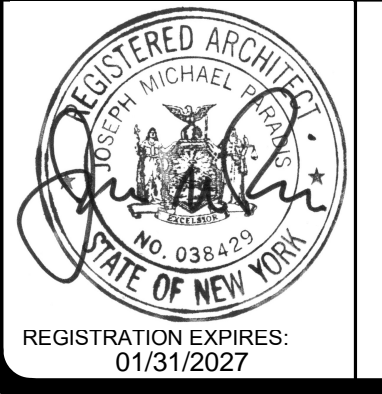
MARK	DATE	DESCRIPTION
B	09/09/2025	ADDENDUM 6
A	04/10/2025	BID DOCUMENTS
PROJECT NUMBER:		47572-C
DESIGNED BY:		min
DRAWN BY:		min
FIELD CHECK:		
APPROVED:		
SHEET TITLE: WINDOW DETAILS		
DRAWING NUMBER:		A-602
SHEET:		OF



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CONTRACT: **CONSTRUCTION**

TITLE: REPLACE WINDOWS BUILDINGS 33, 34 & 36

LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTSVILLE ROAD RUSH, NY

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

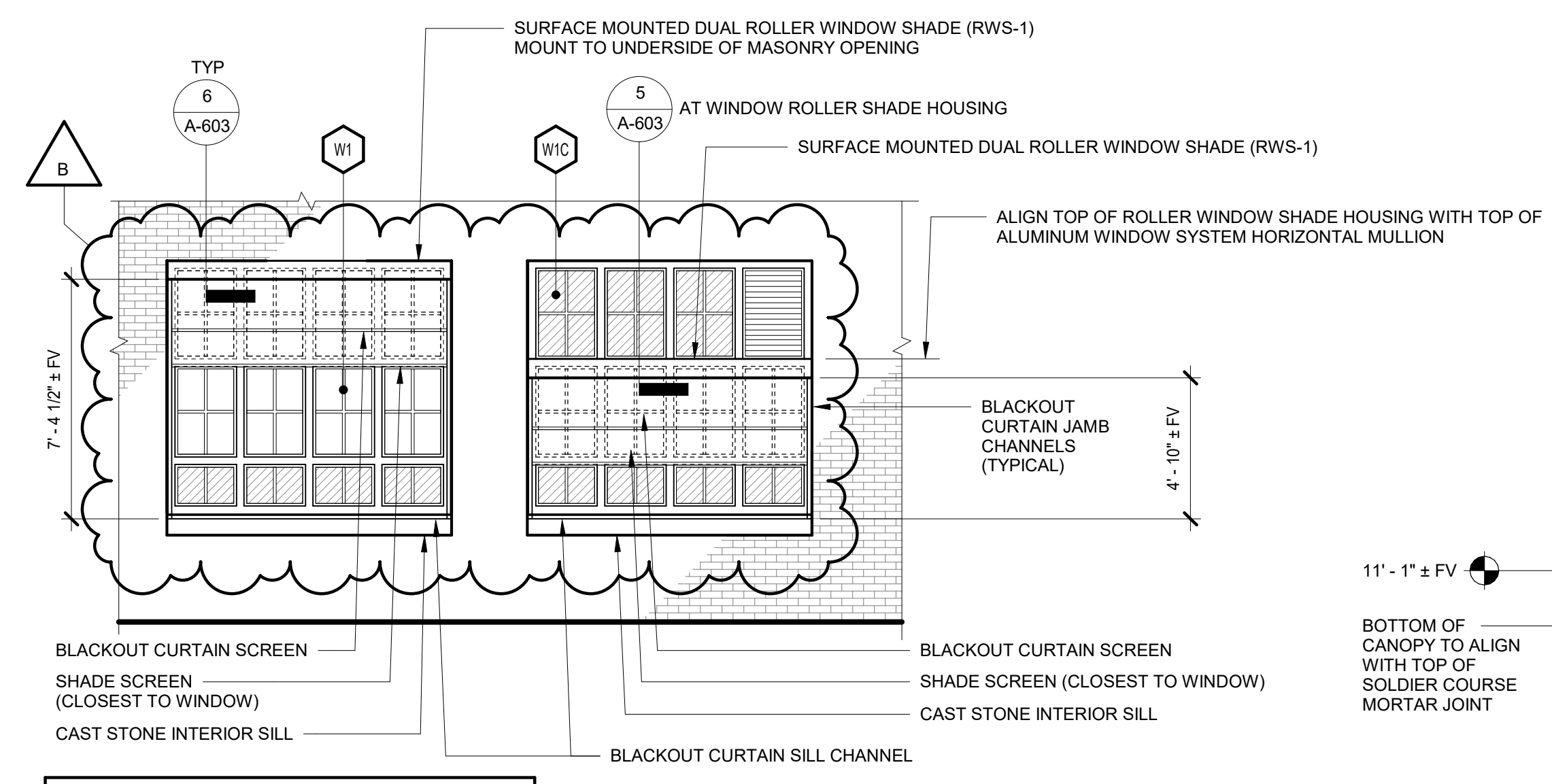
MARK	DATE	DESCRIPTION
B	09/09/2025	ADDENDUM 6
A	04/10/2025	BID DOCUMENTS

PROJECT NUMBER:	47572-C
DESIGNED BY:	min
DRAWN BY:	min
FIELD CHECK:	
APPROVED:	

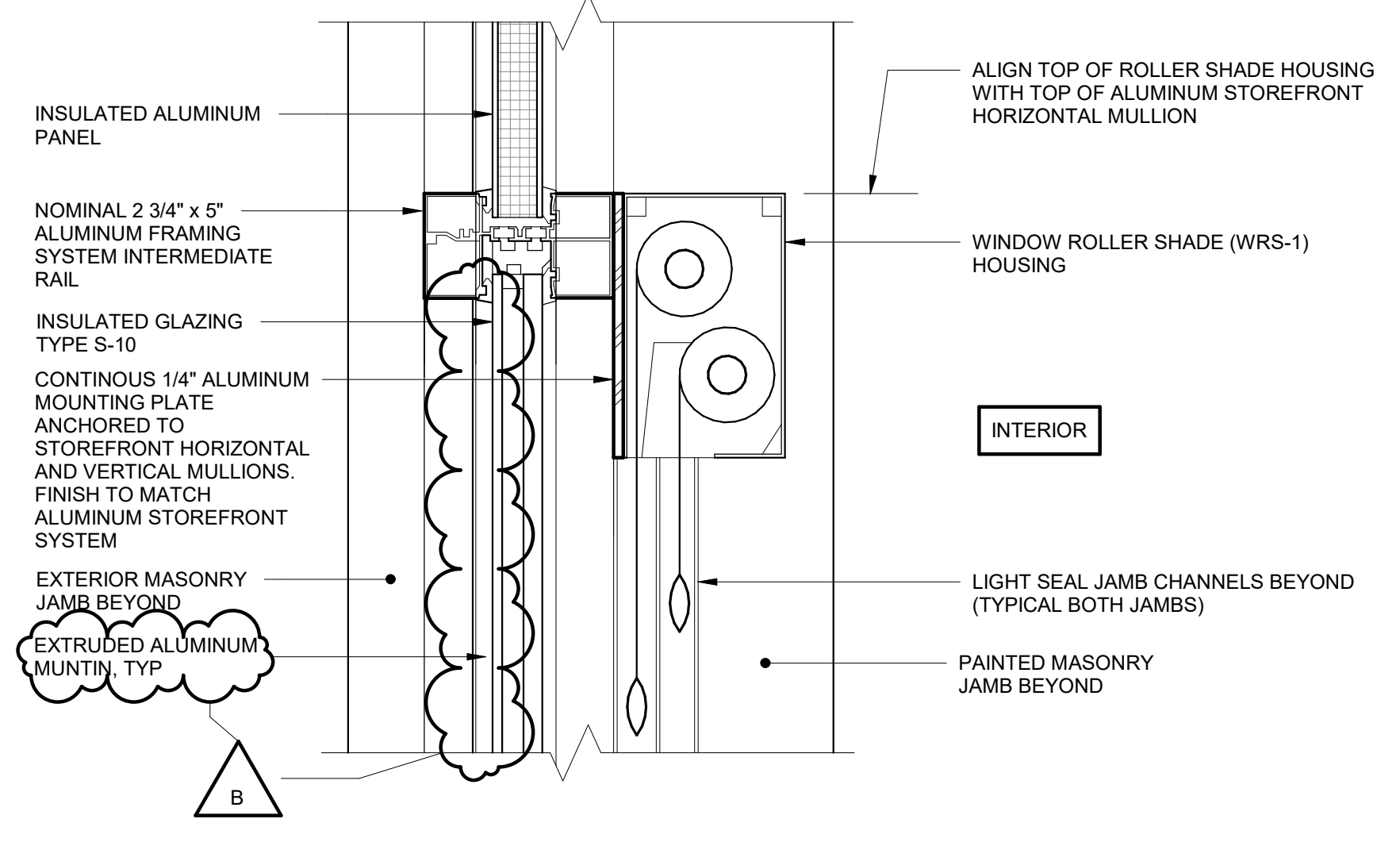
DETAILS

DRAWING NUMBER: **A-603**

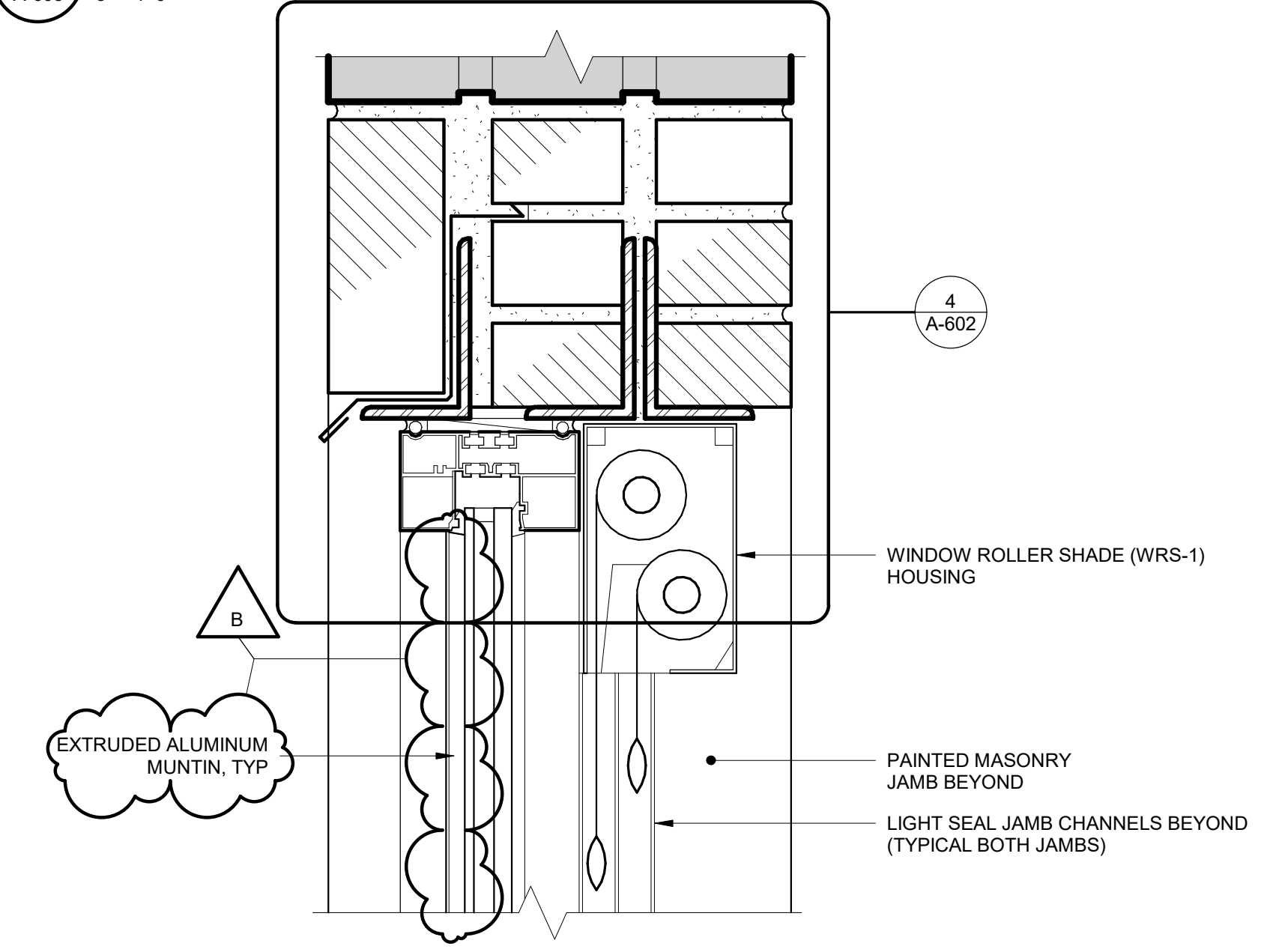
SHEET: OF



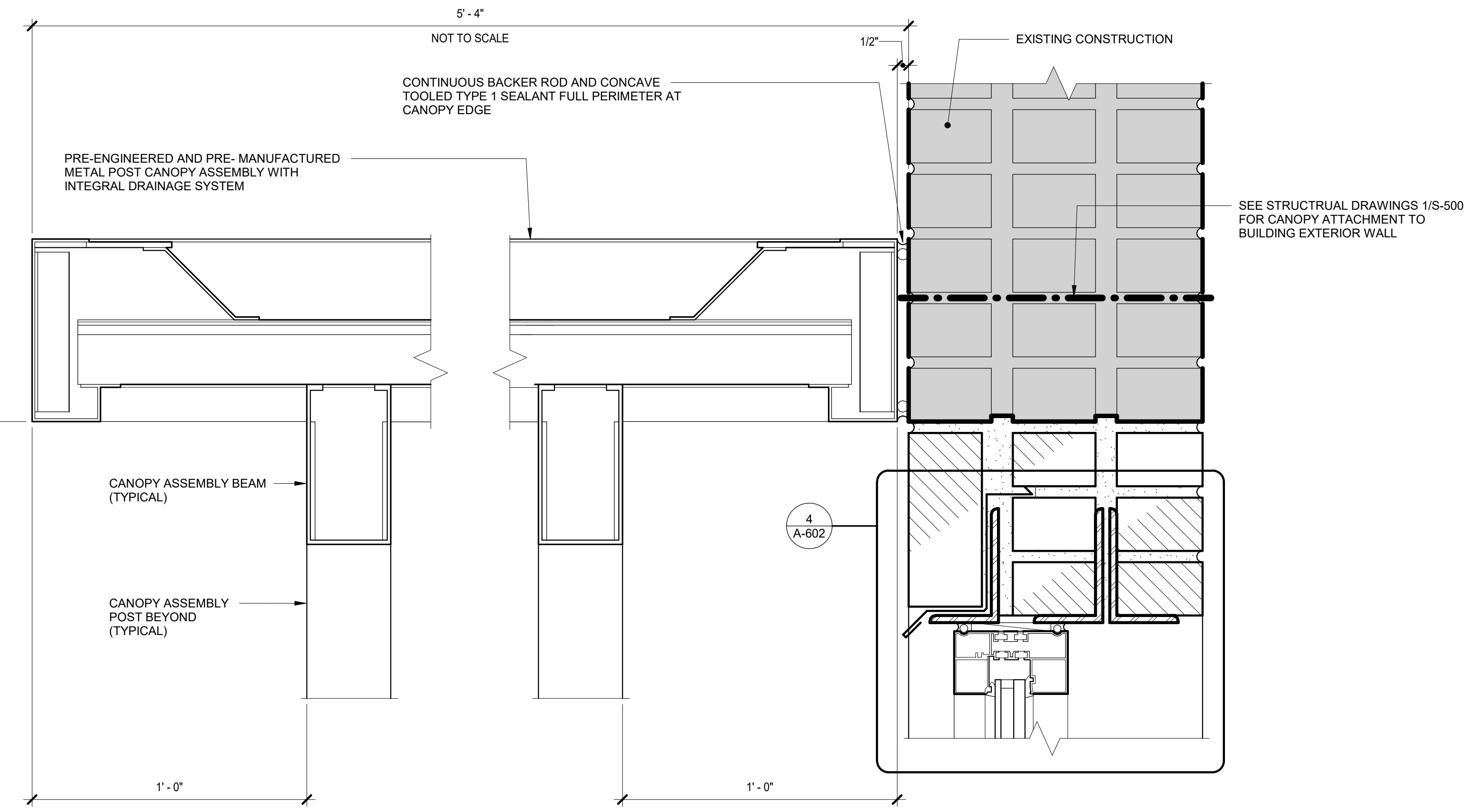
4 Building 33 Interior Elevation at W1 and W1C Window Coverings (Typical)
A-603 1/4" = 1'-0"



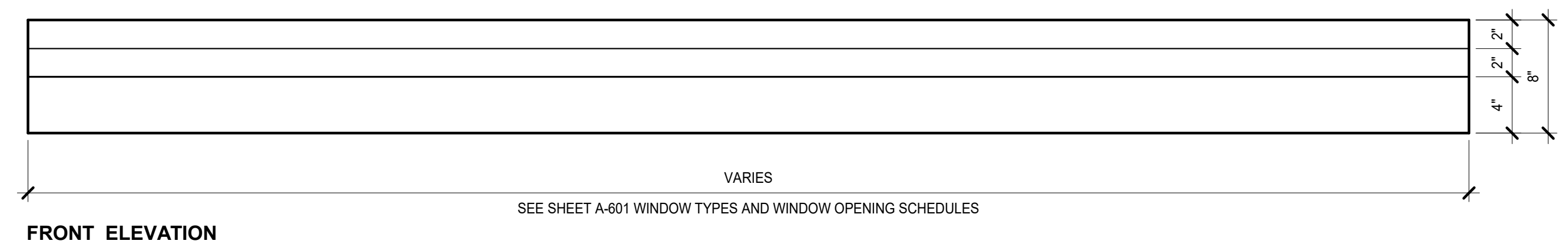
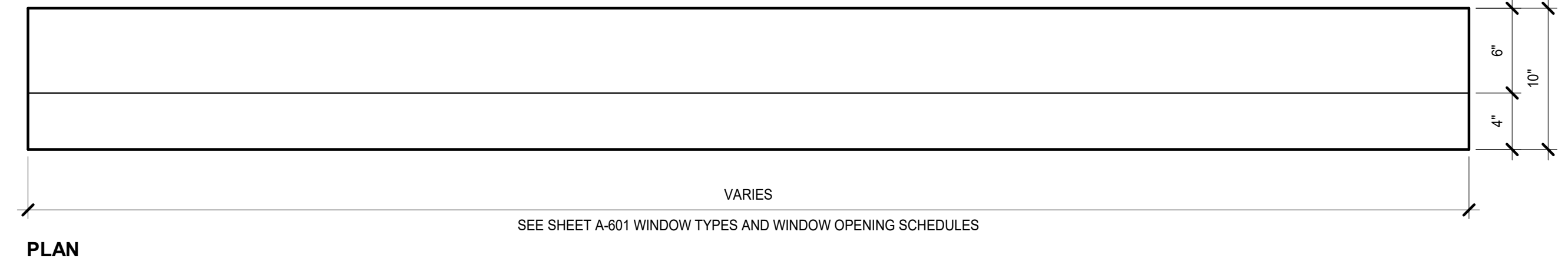
5 Section at Window W1C Roller Window Screen
A-603 3" = 1'-0"



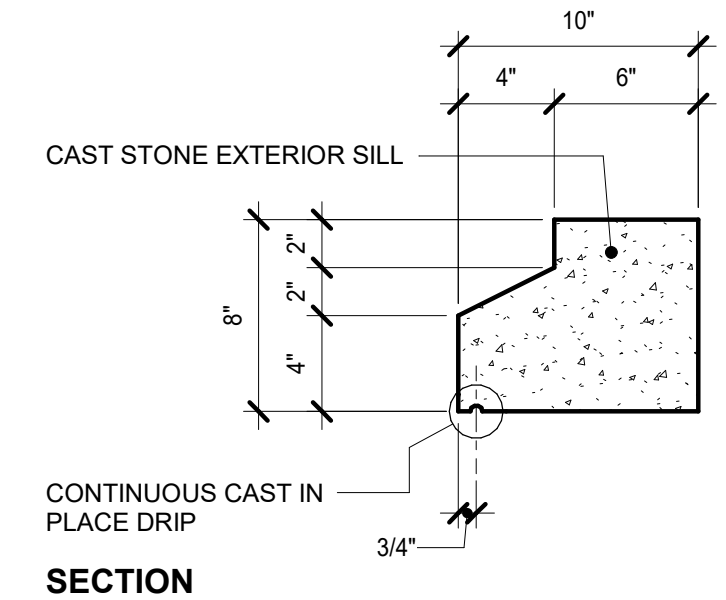
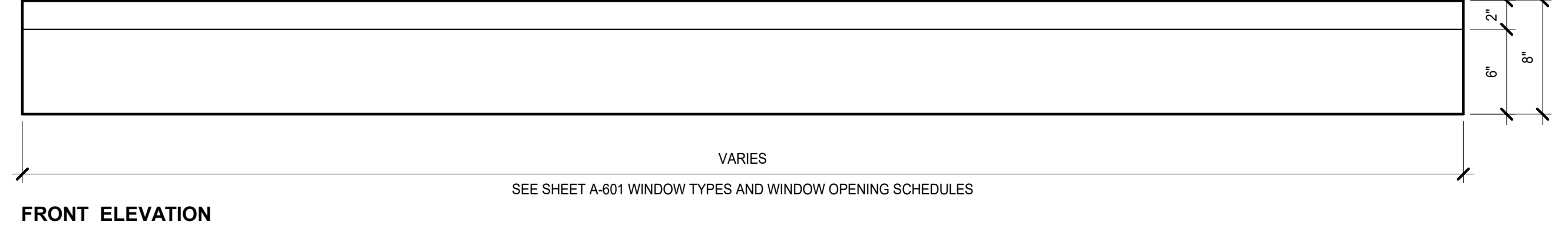
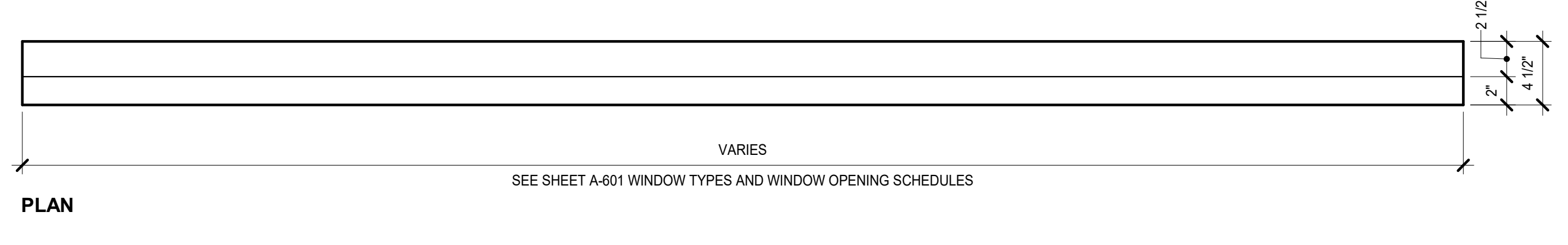
6 Section at Window Roller Shade (Typical)
A-603 3" = 1'-0"



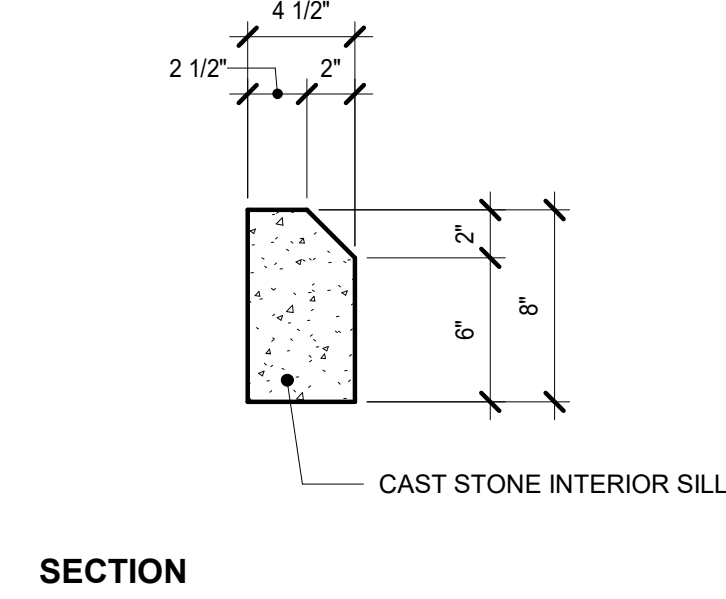
1 Section at Building 36 Canopy
A-603 3" = 1'-0"



2 Cast Stone Exterior Sill Details
A-603 1 1/2" = 1'-0"



3 Cast Stone Interior Sill Details
A-603 1 1/2" = 1'-0"





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REGISTRATION EXPIRES: 01/31/2027

CONTRACT: CONSTRUCTION

TITLE: REPLACE WINDOWS BUILDINGS 33, 34 & 36

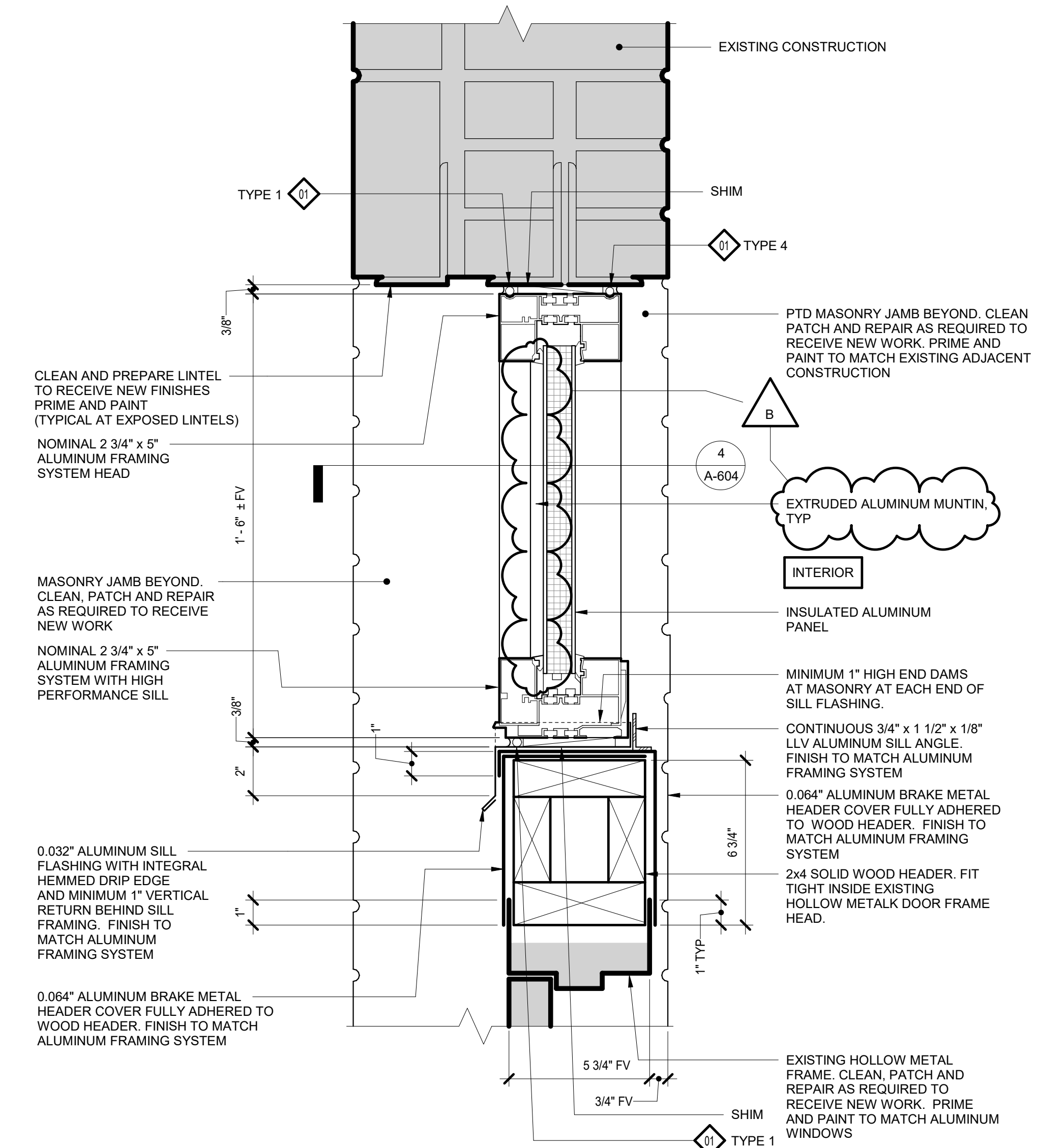
LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTSVILLE ROAD RUSH, NY

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

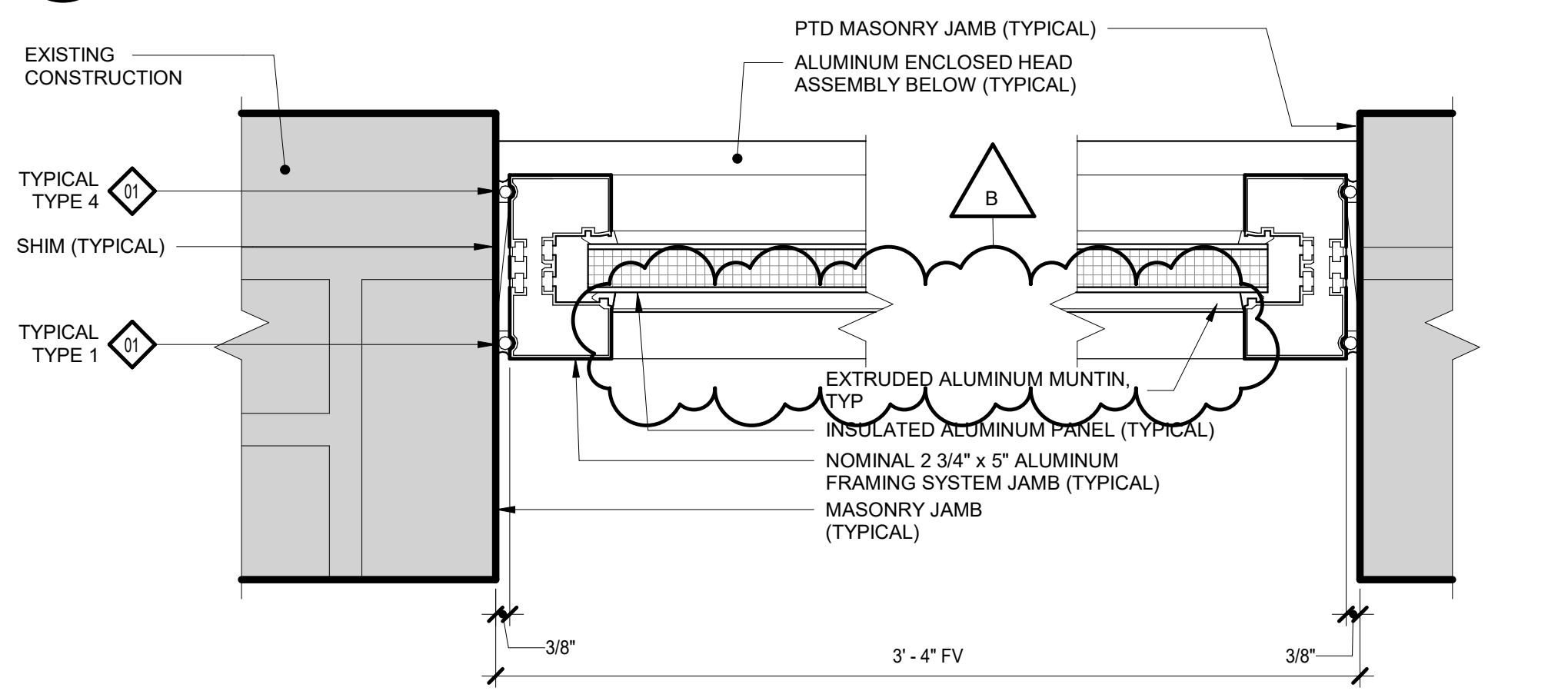
MARK	DATE	DESCRIPTION
B	09/09/2025	ADDENDUM 6
A	04/10/2025	BID DOCUMENTS

PROJECT NUMBER:	47572-C
DESIGNED BY:	Designer
DRAWN BY:	Author
FIELD CHECK:	
APPROVED:	
SHEET TITLE:	DETAILS

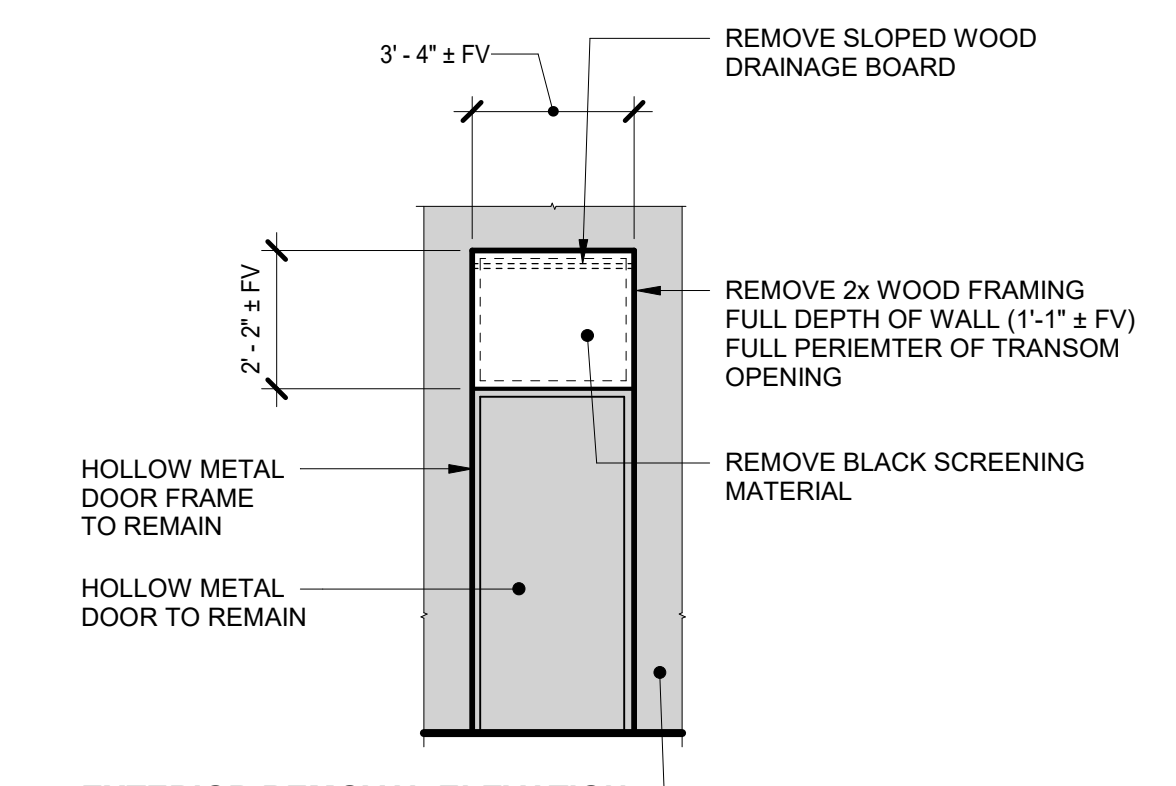
DRAWING NUMBER: A-604
SHEET: OF



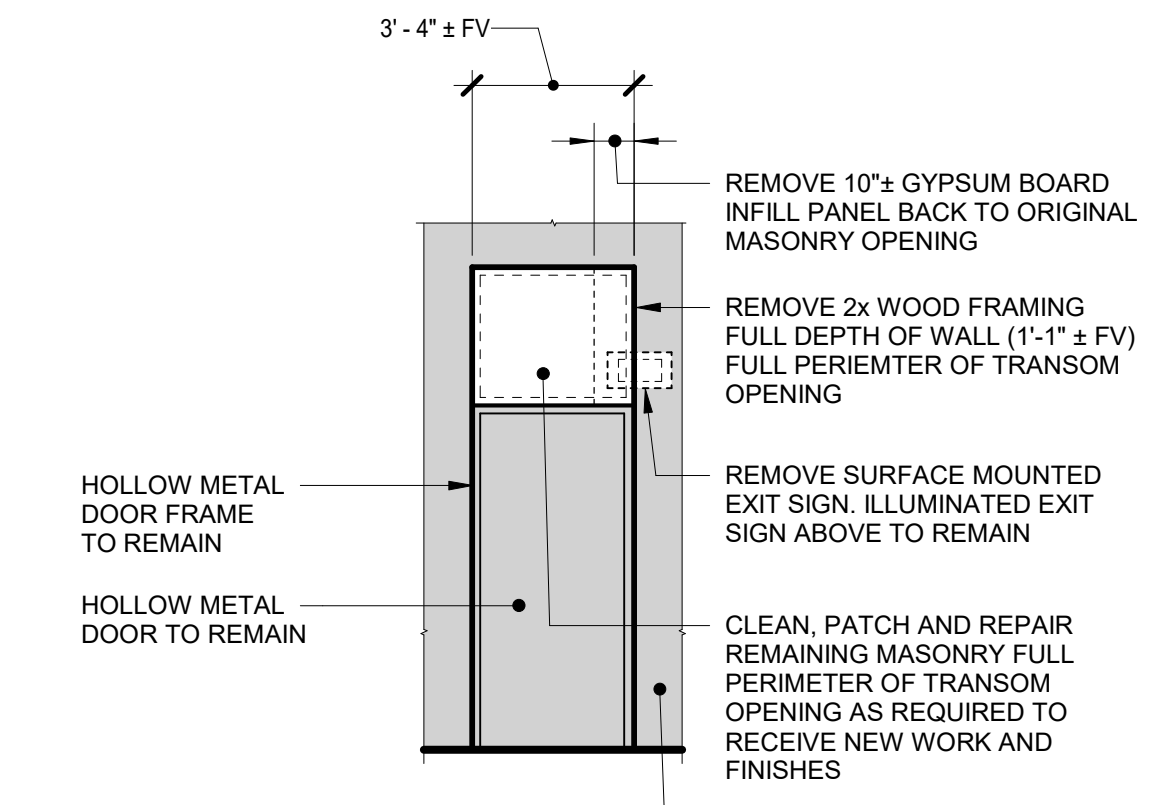
3 Section at Door 33.1 Transom Infill
A-604 3" = 1'-0"



4 Plan Detail at Door 33.1 Transom
A-604 3" = 1'-0"

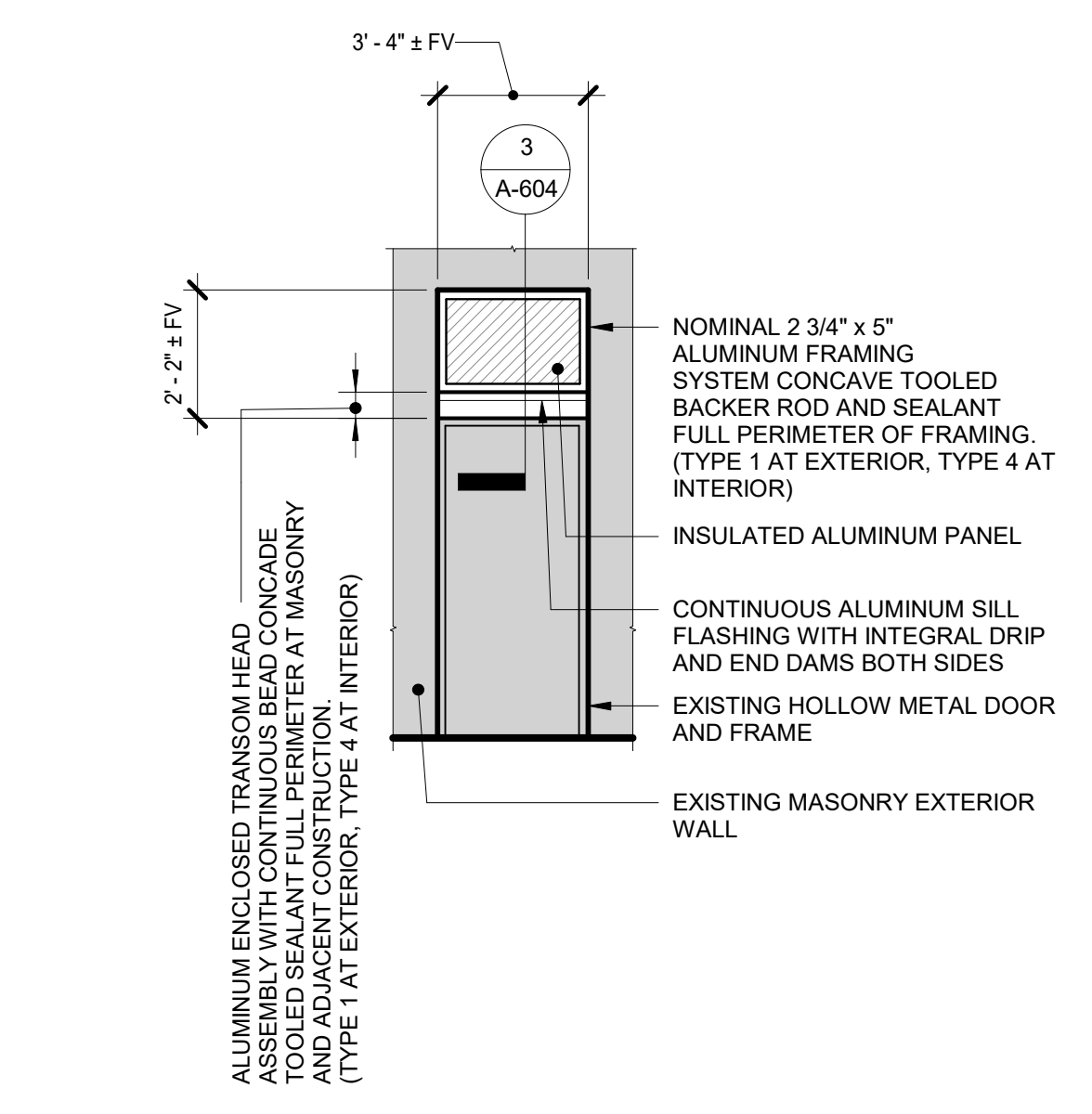


EXTERIOR REMOVAL ELEVATION



INTERIOR REMOVAL ELEVATION

1 Removal Elevations at Door 33.1
A-604 1/4" = 1'-0"



2 Exterior Elevation at Door 33.1
A-604 1/4" = 1'-0"

DESIGN & CONSTRUCTION

CONSULTANT
CERTIFICATE OF AUTHORIZATION #: 0021745



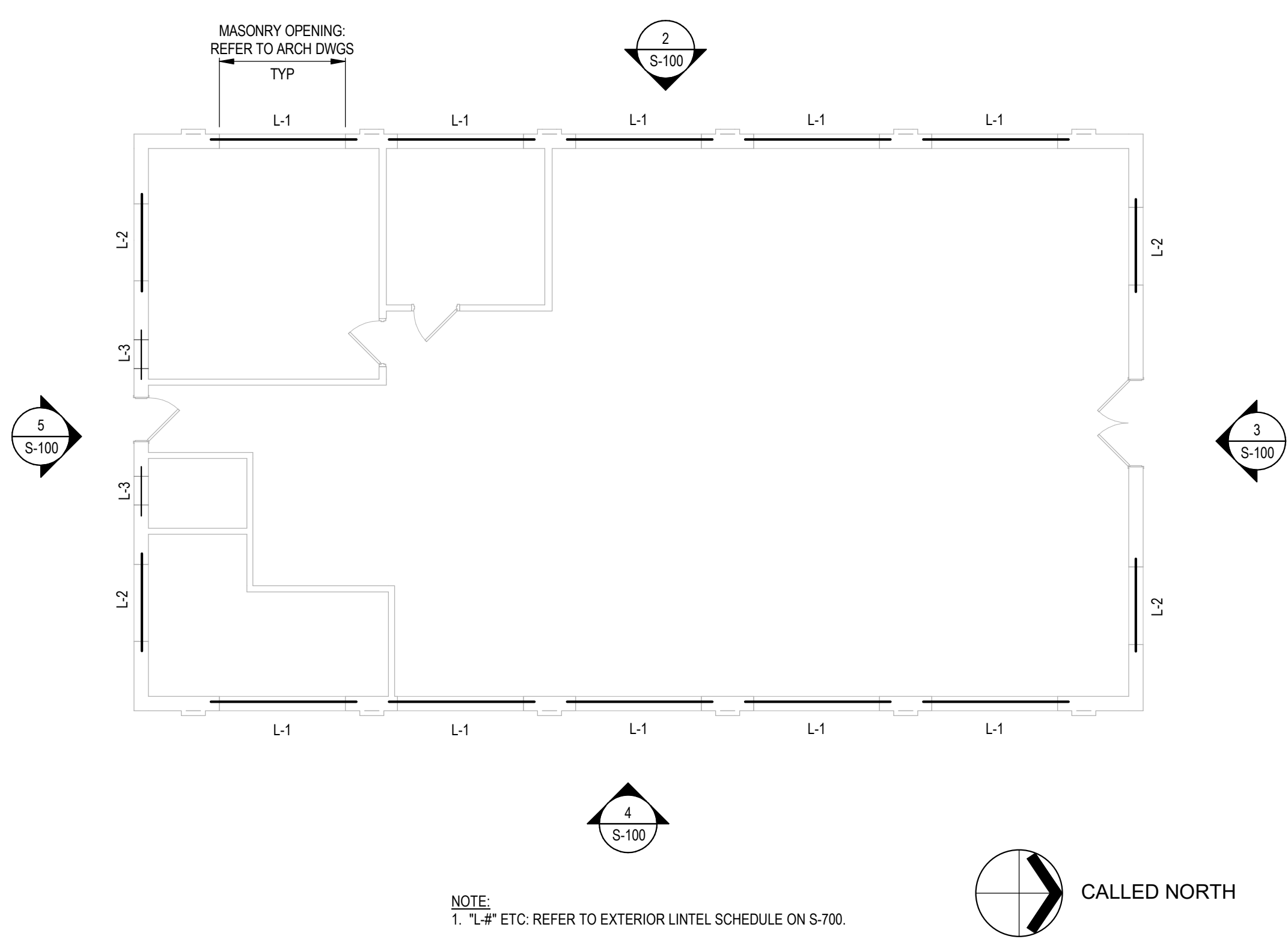
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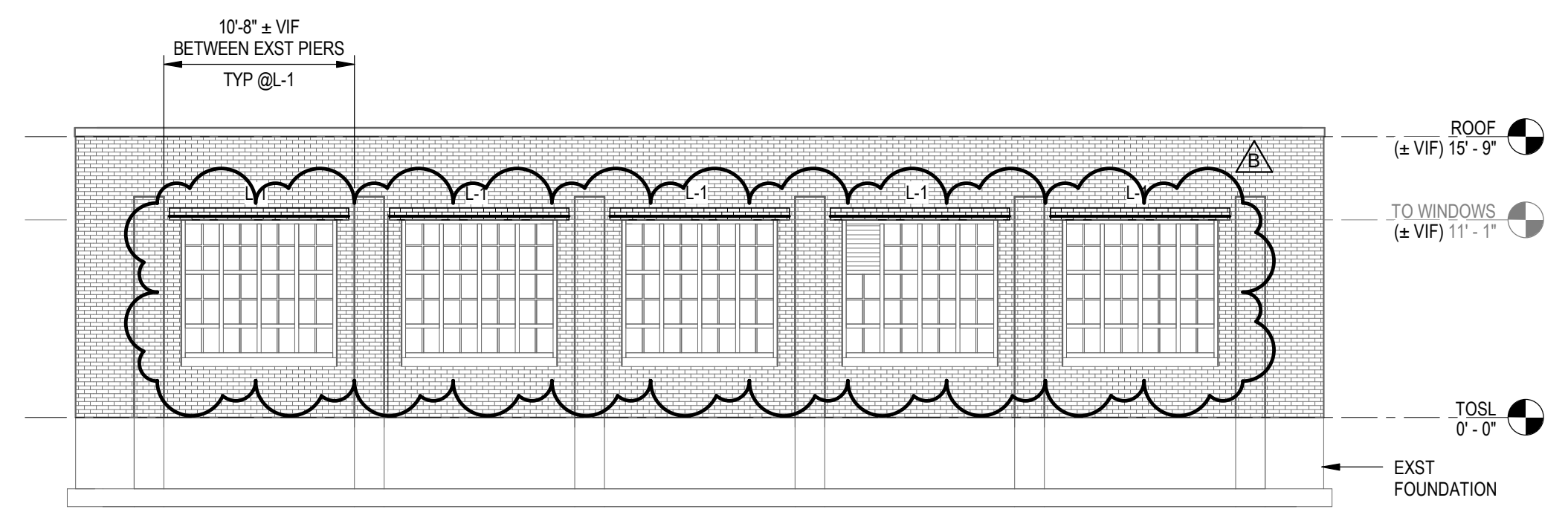
- NOTES:
1. REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY OPENING DIMENSIONS.
2. REFER TO 5/S-700 FOR TEMPORARY SHORING AT L-1 LINTELS. REFER TO 6/S-700 FOR TEMPORARY SHORING AT L-2 AND L-3 LINTELS.



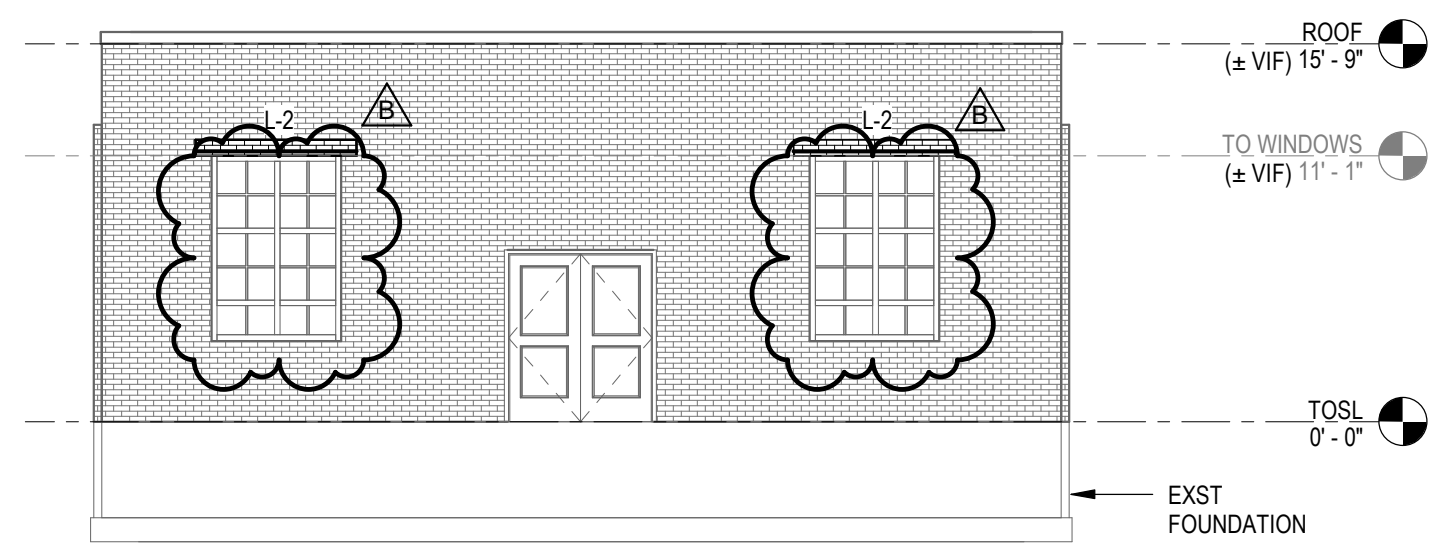
NOTE:
1. "L-#" ETC. REFER TO EXTERIOR LINTEL SCHEDULE ON S-700.



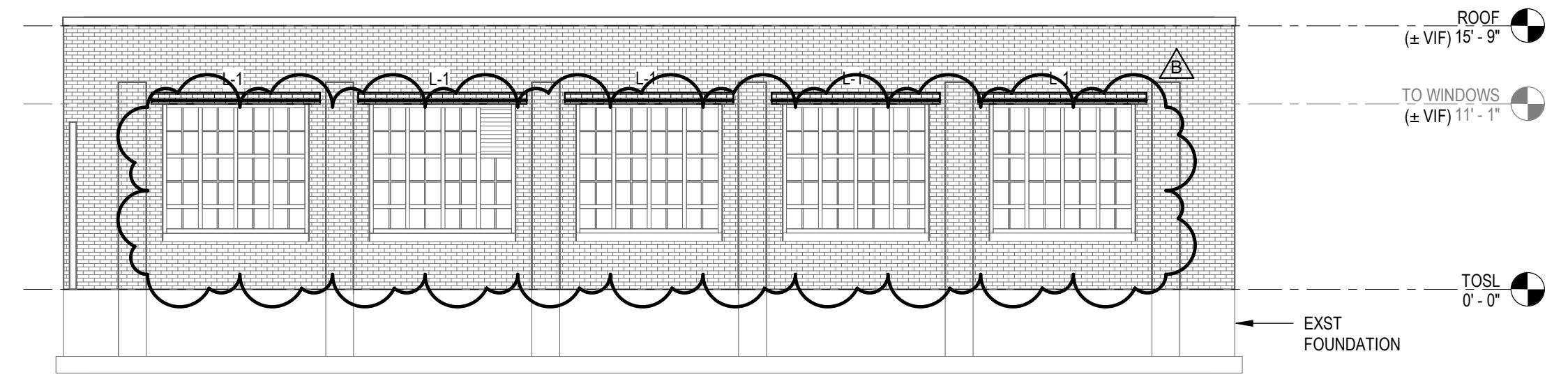
1 BUILDING 33 PLAN
1/8" = 1'-0"



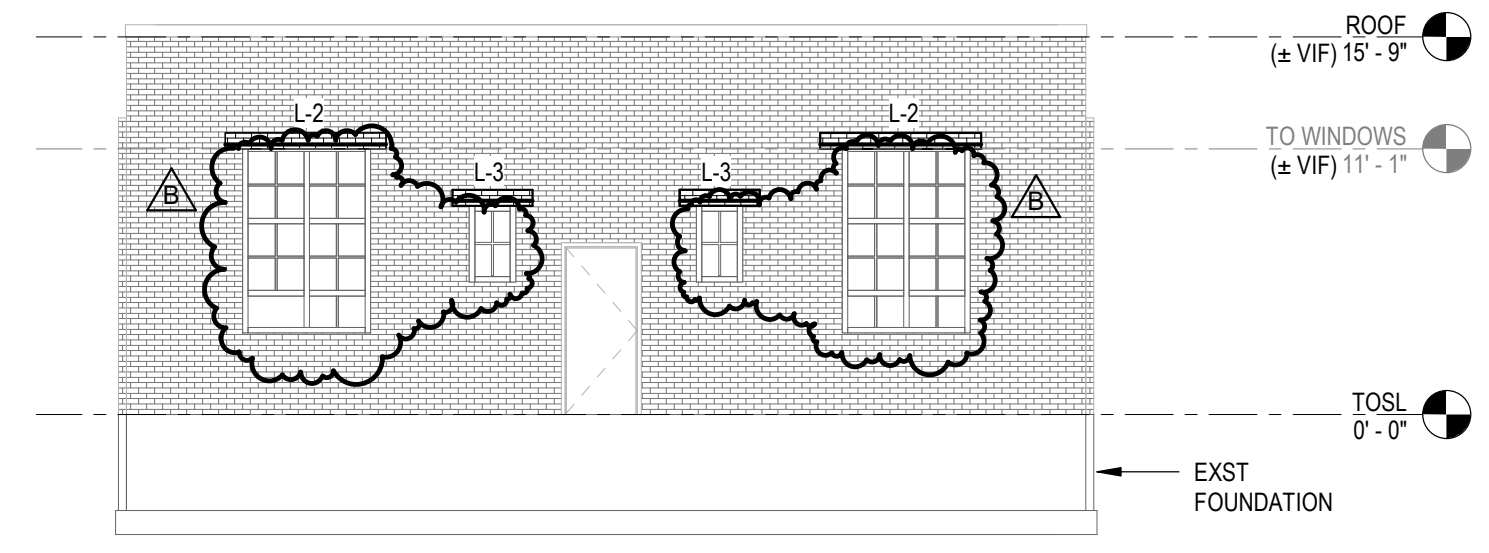
2 BUILDING 33 WEST ELEVATION
1/8" = 1'-0"



3 BUILDING 33 NORTH ELEVATION
1/8" = 1'-0"



4 BUILDING 33 EAST ELEVATION
1/8" = 1'-0"



5 BUILDING 33 SOUTH ELEVATION
1/8" = 1'-0"

CONTRACT:
CONSTRUCTION
TITLE: REPLACE WINDOWS BUILDINGS 33, 34, AND 36
LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTSVILLE ROAD RUSH, NY
CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
B	9/09/2025	ADDENDUM 6
A	4/10/2025	BID DOCUMENTS
PROJECT NUMBER:		47572-C
DESIGNED BY:		JWW
DRAWN BY:		KAM
FIELD CHECK:		
APPROVED:		

SHEET TITLE:
FRAMING PLAN AND ELEVATIONS - BUILDING 33

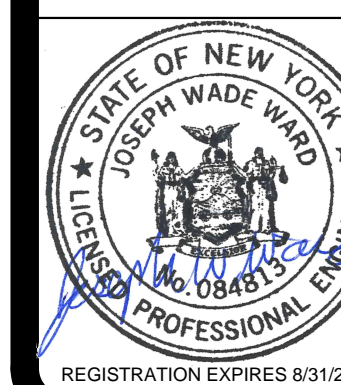
DRAWING NUMBER:
S-100



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CONTRACT: CONSTRUCTION

TITLE: REPLACE WINDOWS BUILDINGS 33, 34, AND 36

LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTSVILLE ROAD RUSH, NY

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

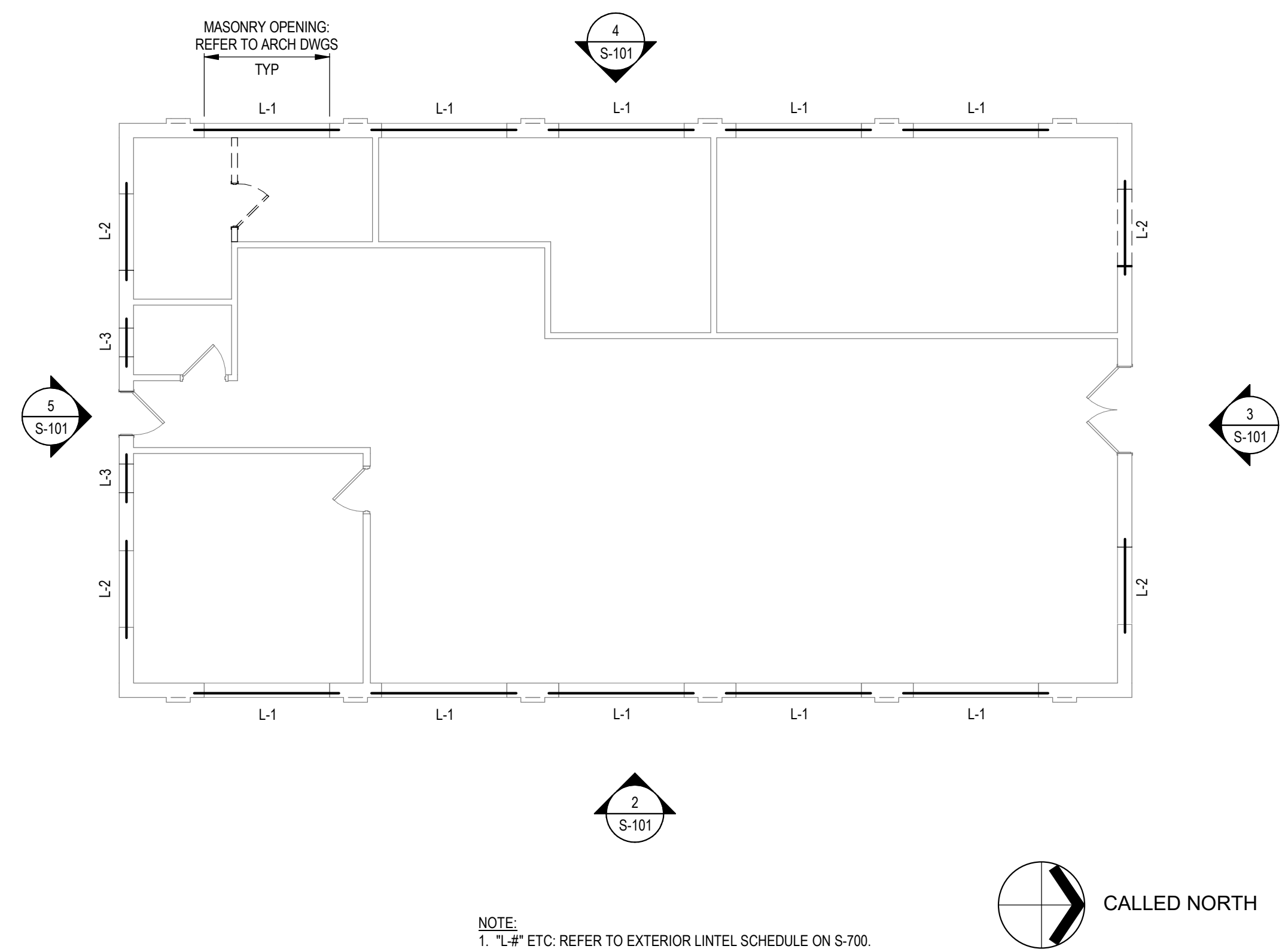
MARK	DATE	DESCRIPTION
B	9/09/2025	ADDENDUM 6
A	4/10/2025	BID DOCUMENTS
PROJECT NUMBER:		47572-C
DESIGNED BY:		JWW
DRAWN BY:		KAM
FIELD CHECK:		
APPROVED:		

SHEET TITLE: FRAMING PLAN AND ELEVATIONS - BUILDING 34

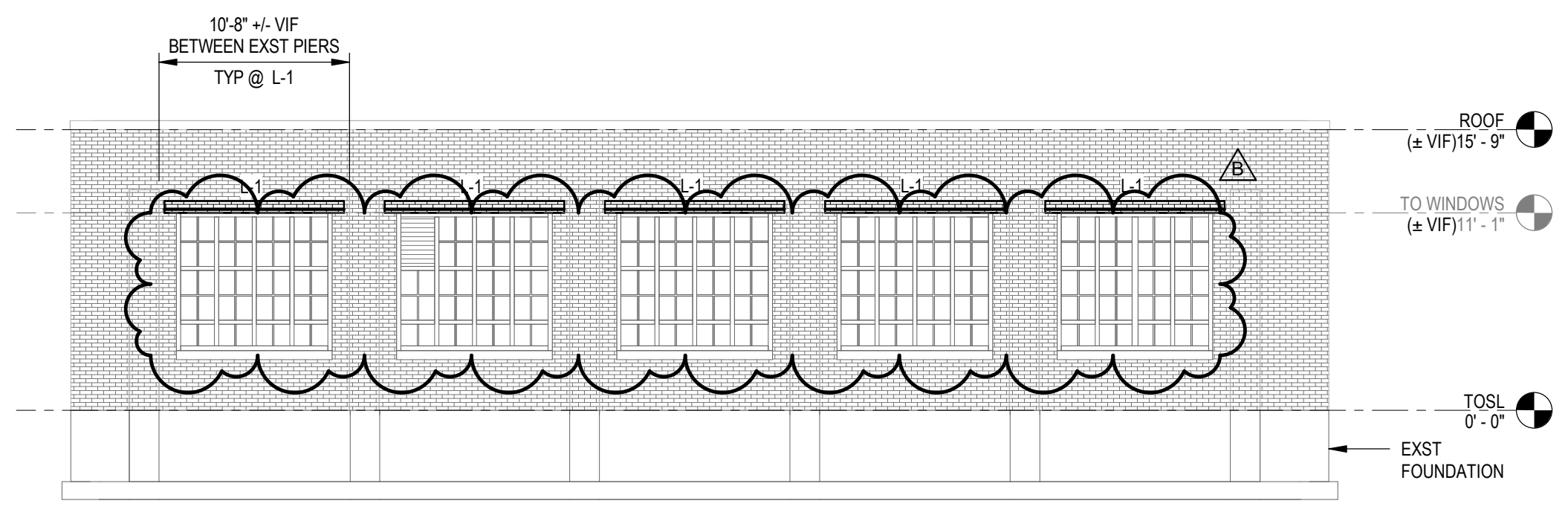
DRAWING NUMBER: S-101

SHEET: OF

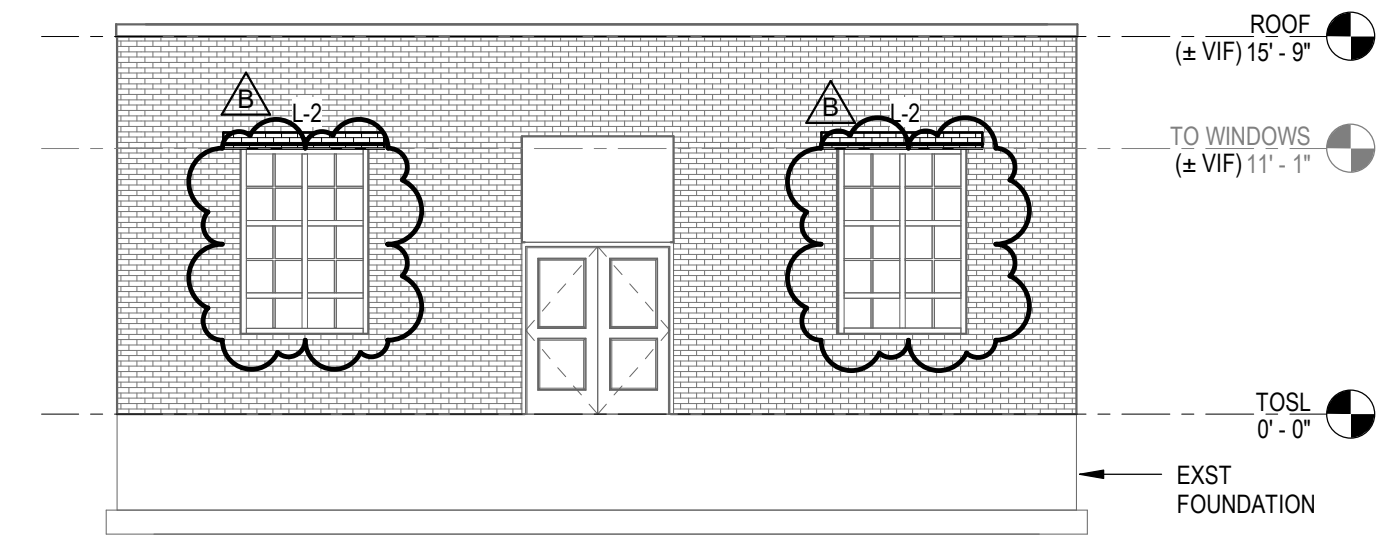
- NOTES:
- REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY OPENING DIMENSIONS.
 - REFER TO S/S-700 FOR TEMPORARY SHORING AT L-1 LINTELS. REFER TO 6/S-700 FOR TEMPORARY SHORING AT L-2 AND L-3 LINTELS.



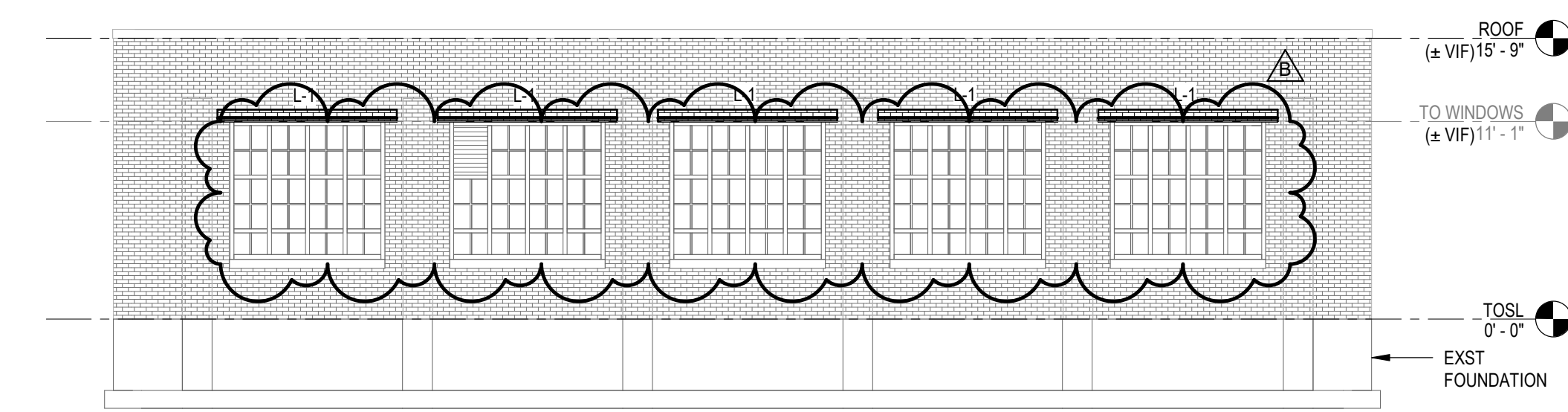
1 BUILDING 34 PLAN
1/8" = 1'-0" 0' 4' 8' 16'



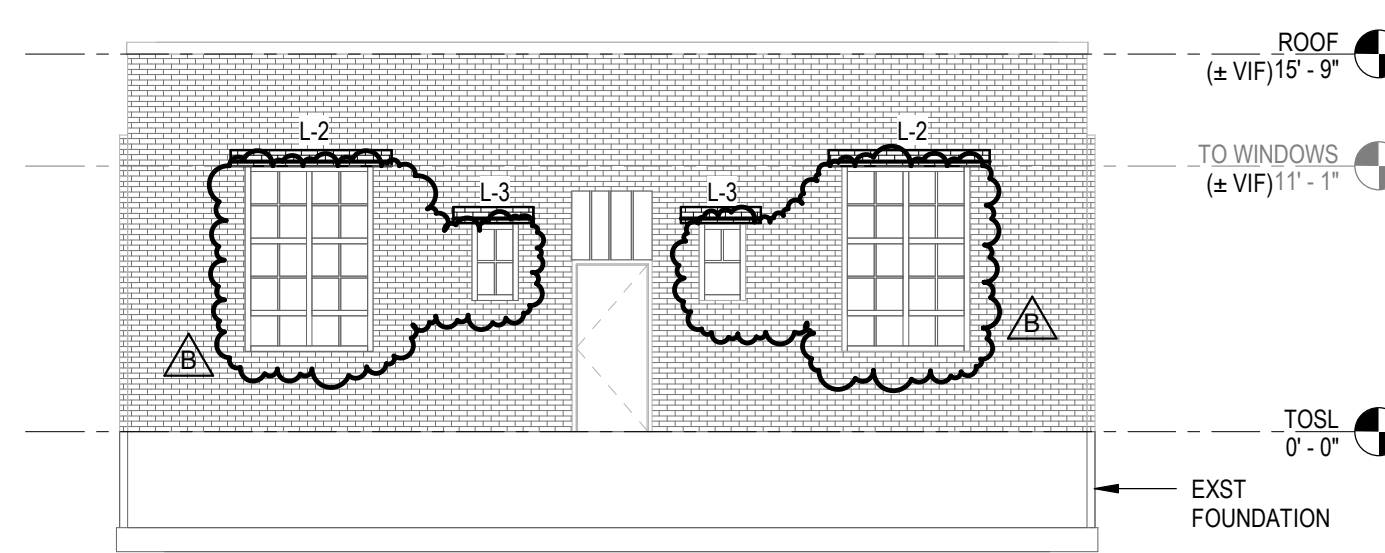
2 BUILDING 34 EAST ELEVATION
1/8" = 1'-0" 0' 4' 8' 16'



3 BUILDING 34 NORTH ELEVATION
1/8" = 1'-0" 0' 4' 8' 16'

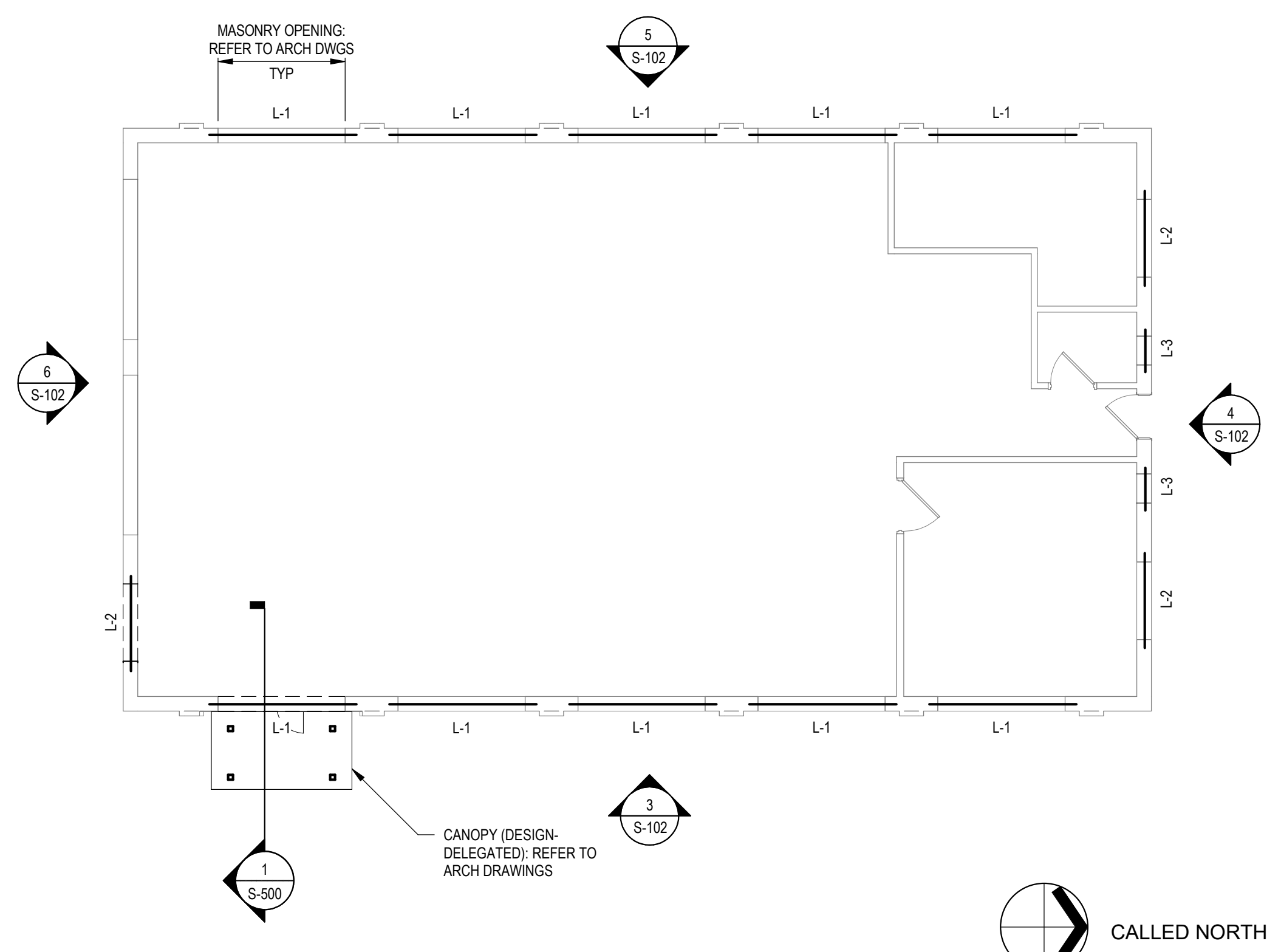


4 BUILDING 34 WEST ELEVATION
1/8" = 1'-0" 0' 2' 4' 8'

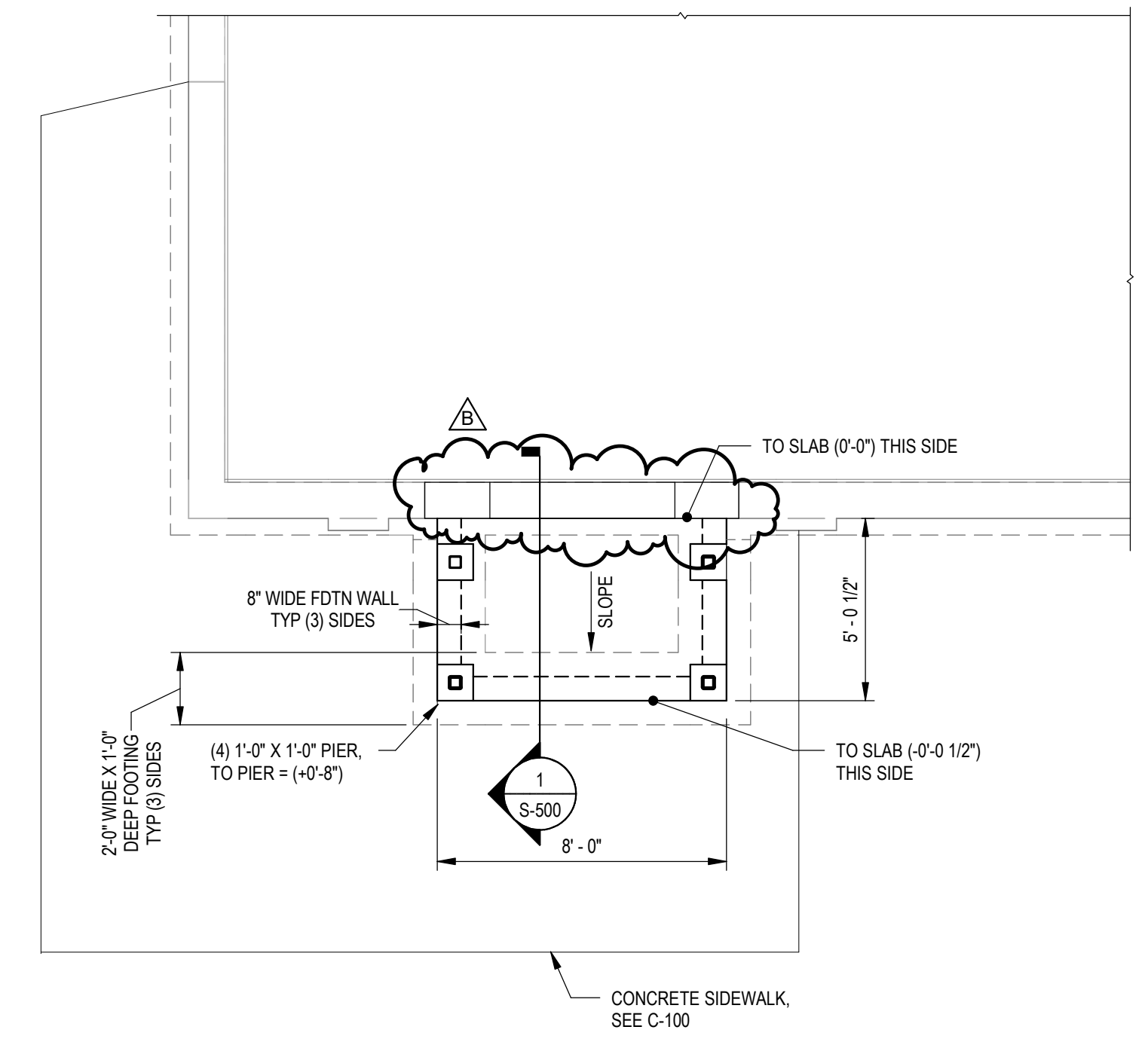


5 BUILDING 34 SOUTH ELEVATION
1/8" = 1'-0" 0' 4' 8' 16'

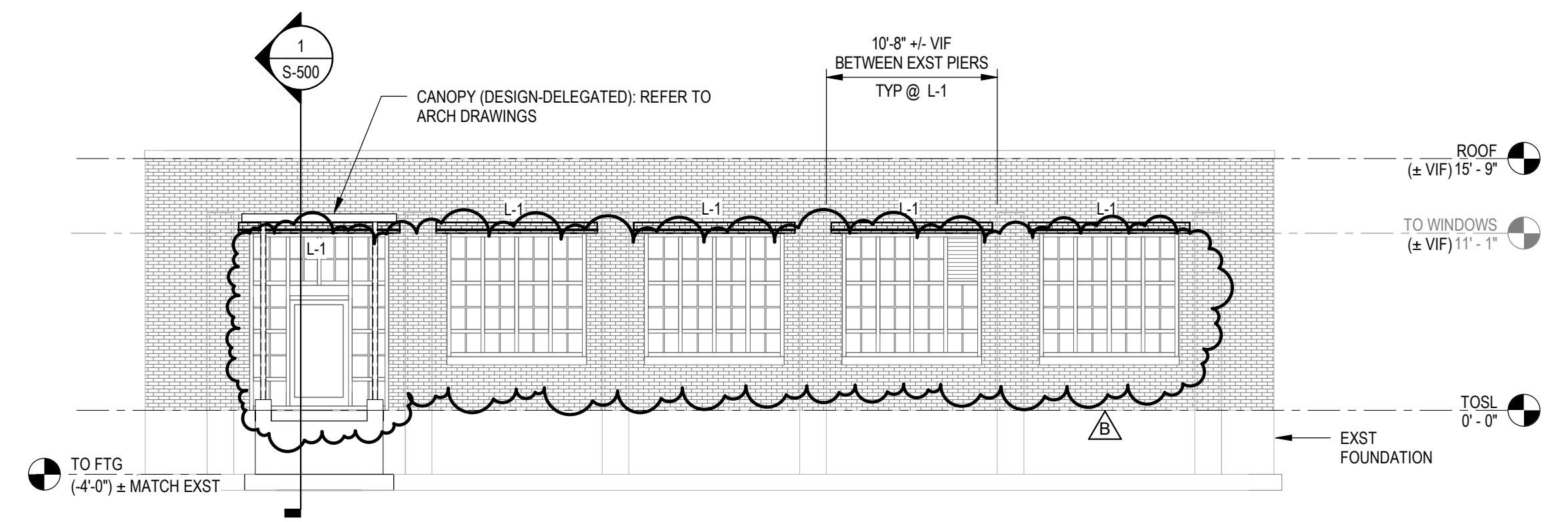
Autodesk Docs/083058 - Industry Windows/083058 - Industry Windows_Building 36_Struc_R23.rvt
9/11/2025 4:26:59 PM
36x24 PLOT SHEET



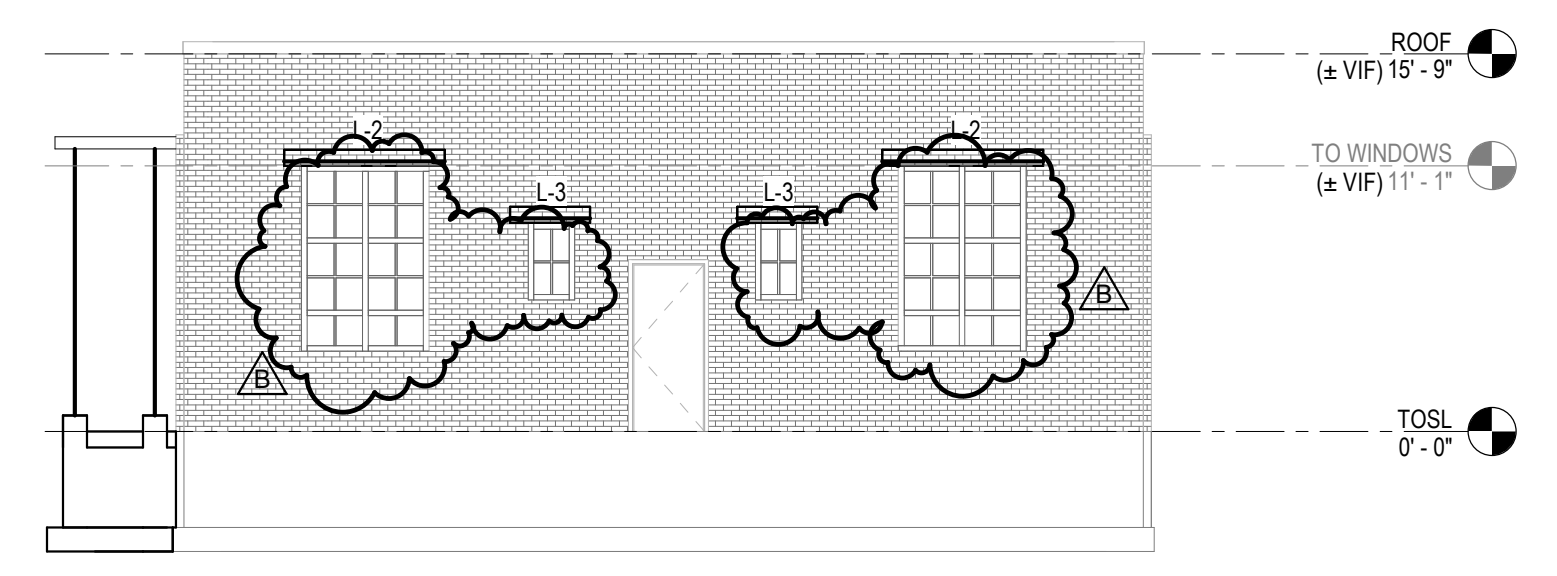
1 BUILDING 36 PLAN
1/8" = 1'-0"
0' 4' 8' 16'



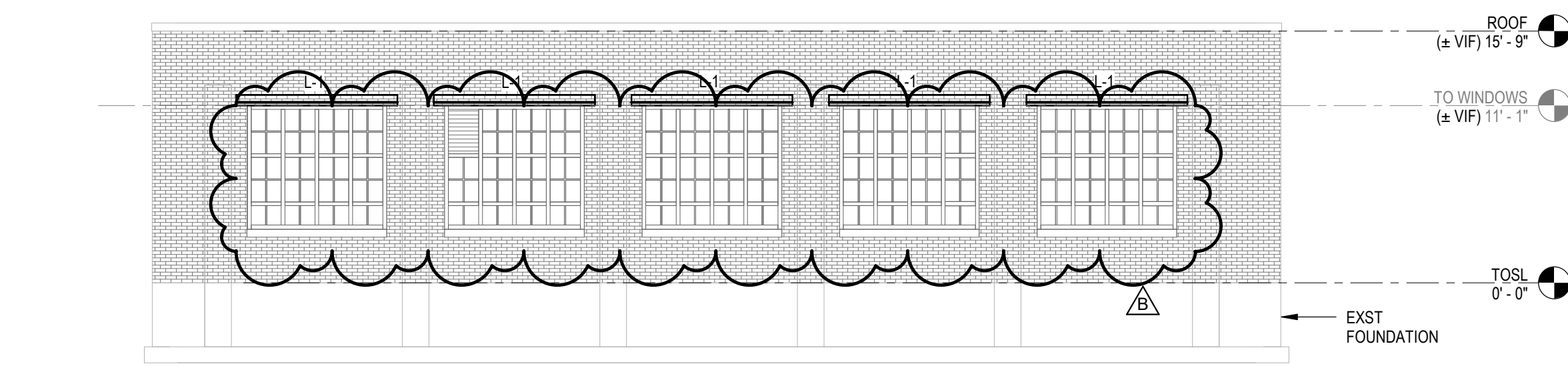
2 PARTIAL FOUNDATION PLAN - BUILDING 36 SOUTH EAST CORNER
1/4" = 1'-0"
0' 2' 4' 8'



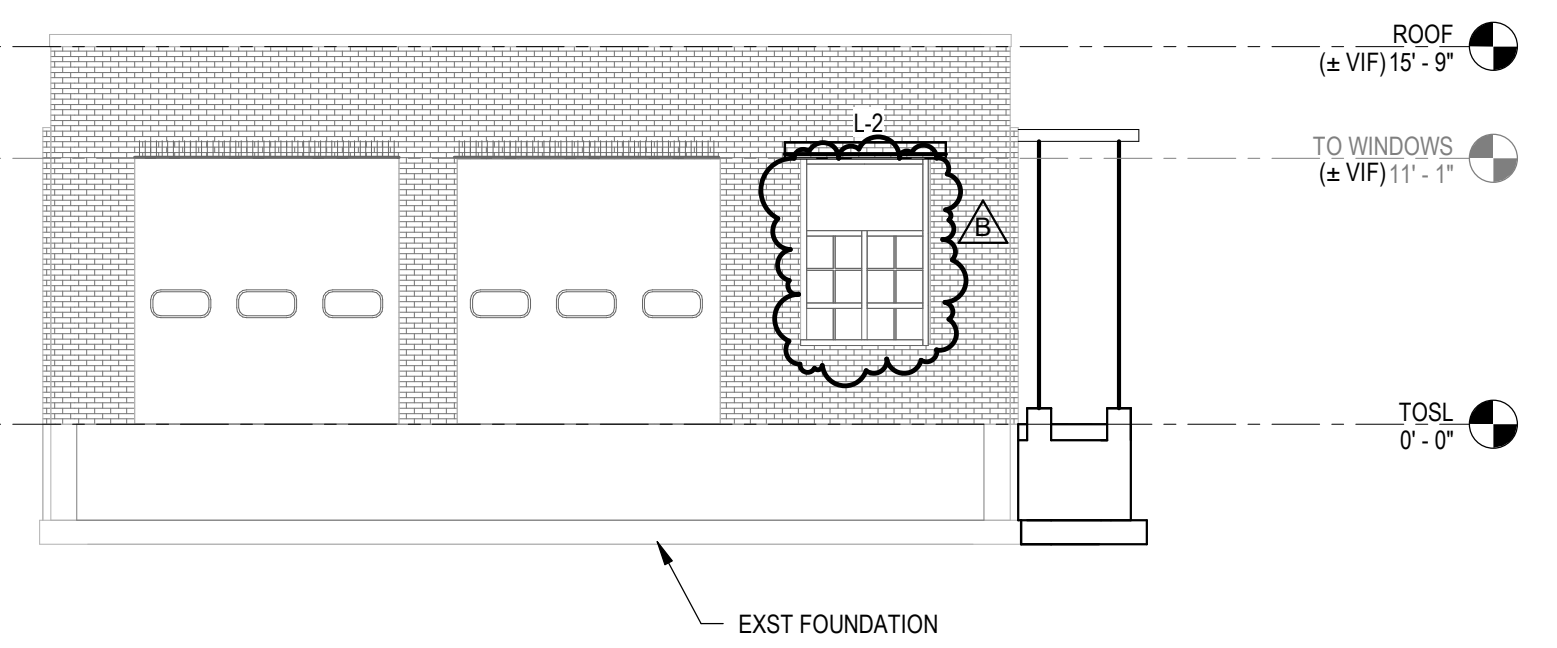
3 BUILDING 36 EAST ELEVATION
1/8" = 1'-0"
0' 4' 8' 16'



4 BUILDING 36 NORTH ELEVATION
1/8" = 1'-0"
0' 4' 8' 16'



5 BUILDING 36 WEST ELEVATION
1/8" = 1'-0"
0' 4' 8' 16'



6 BUILDING 36 SOUTH ELEVATION
1/8" = 1'-0"
0' 4' 8' 16'

- NOTES:**
- REFER TO ARCHITECTURAL DRAWINGS FOR MASONRY OPENING DIMENSIONS.
 - REFER TO S/S-700 FOR TEMPORARY SHORING AT L-1 LINTELS. REFER TO G/S-700 FOR TEMPORARY SHORING AT L-2 AND L-3 LINTELS.



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CONSTRUCTION

TITLE:
REPLACE WINDOWS
BUILDINGS 33, 34, AND 36

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTVILLE ROAD
RUSH, NY

CLIENT:
NEW YORK STATE OFFICE OF
CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
B	9/09/2025	ADDENDUM 6
A	4/10/2025	BID DOCUMENTS
PROJECT NUMBER:		47572-C
DESIGNED BY:		JWW
DRAWN BY:		KAM
FIELD CHECK:		
APPROVED:		

SHEET TITLE:
FRAMING PLAN AND
ELEVATIONS - BUILDING
36

DRAWING NUMBER:
S-102

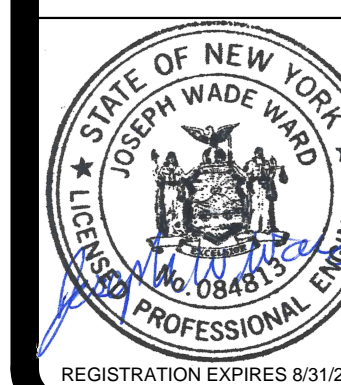
SHEET: OF



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CONSTRUCTION

TITLE: REPLACE WINDOWS BUILDINGS 33, 34, AND 36

LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTSVILLE ROAD RUSH, NY

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

CONTRACT: 47572-C

DATE: 9/09/2025

DATE: 4/10/2025

DESCRIPTION: ADDENDUM 6 BID DOCUMENTS

PROJECT NUMBER: 47572-C

DESIGNED BY: JWW

DRAWN BY: KAM

FIELD CHECK:

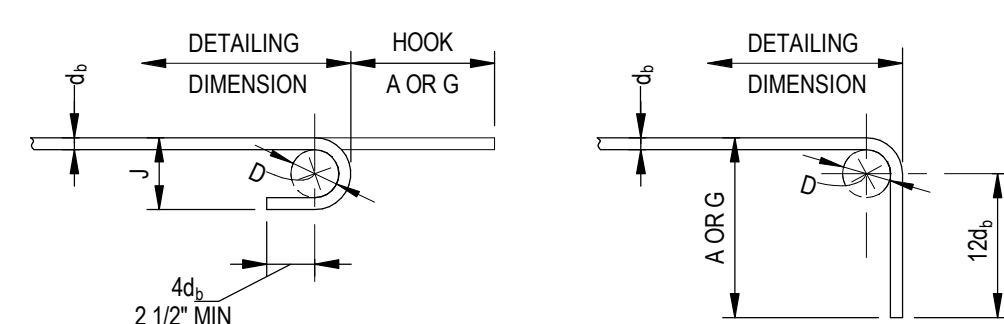
APPROVED:

SHEET TITLE: TYPICAL SECTIONS AND DETAILS

DRAWING NUMBER: S-700

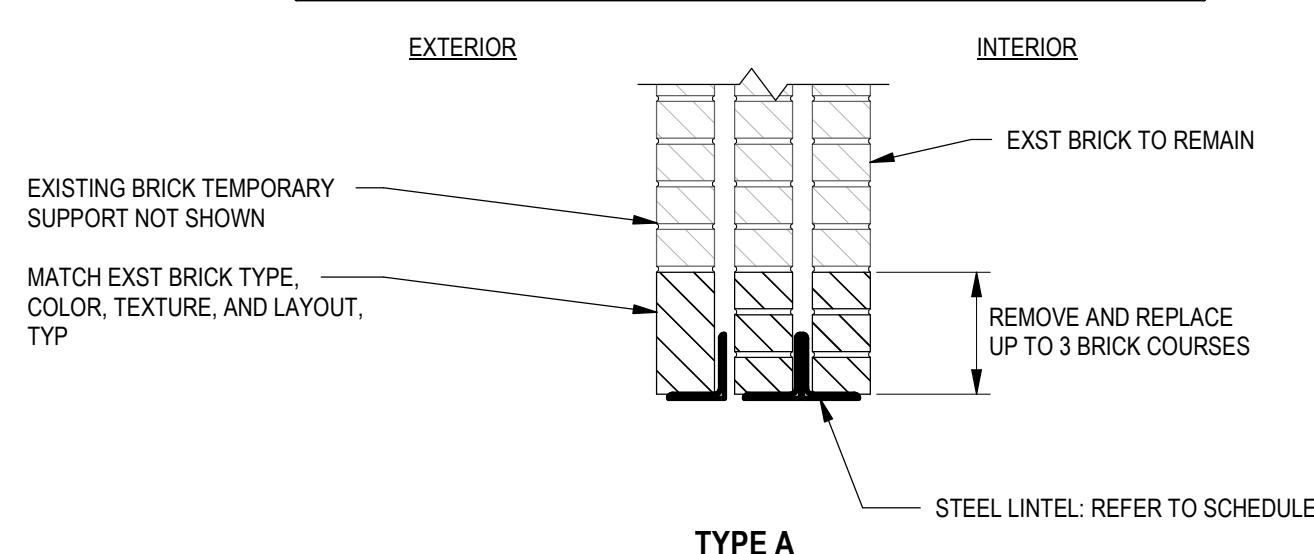
SHEET: OF

STANDARD HOOK FOR PRIMARY REINFORCEMENT				
BAR SIZE, d _b	INSIDE BEND DIAMETER, D	180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 3/4"	19"
#10	10 3/4"	17"	13 1/4"	22"
#11	12"	19"	14 3/4"	24"
#14	18 1/4"	27"	21 3/4"	31"
#18	24"	36"	28 1/2"	41"



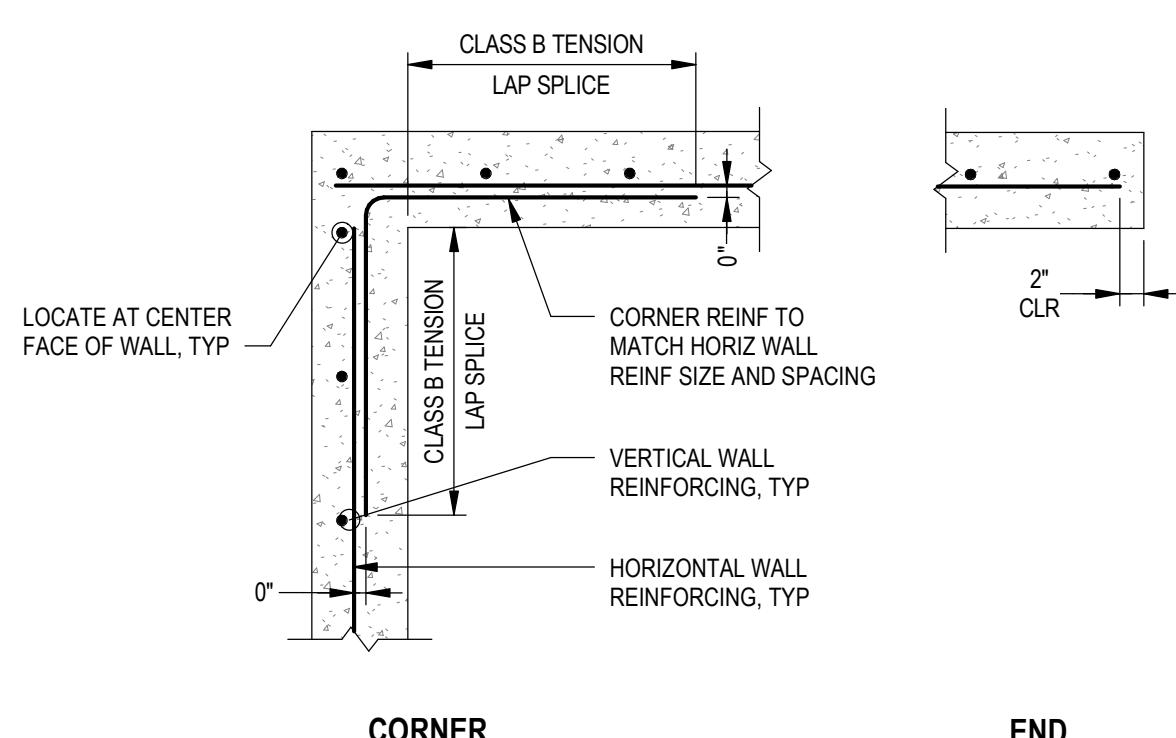
1 TYPICAL STANDARD END HOOK FOR PRIMARY REINF DETAIL NOT TO SCALE

EXTERIOR LINTEL SCHEDULE			
MARK	SIZE	MO	TYPE
L-1	(3) L 5 x 3-1/2 x 5/16 LLV	8'-8"	A
L-2	(3) L 5 x 3-1/2 x 5/16 LLV	5'-6"	A
L-3	(3) L 4 X 3-1/2 X 1/4 LLV	2'-0"	A



- LINTEL NOTES:
- PROVIDE LINTELS OVER ALL OPENINGS IN MASONRY WALLS.
 - PRIOR TO FABRICATING LINTELS, VERIFY ALL MASONRY OPENING SIZES WITH ARCHITECTURAL DRAWINGS.
 - ALL HORIZONTAL LINTEL ELEMENTS SUPPORTING EXTERIOR WYTHES OF MASONRY SHALL BE HOT DIPPED GALVANIZED.
 - PROVIDE 6" MINIMUM BEARING EACH END.
 - PROVIDE TEMPORARY SUPPORT OF EXISTING BRICK PER DETAILS S/S-700 AND 6/S-700.

2 EXTERIOR LINTEL SCHEDULE NOT TO SCALE

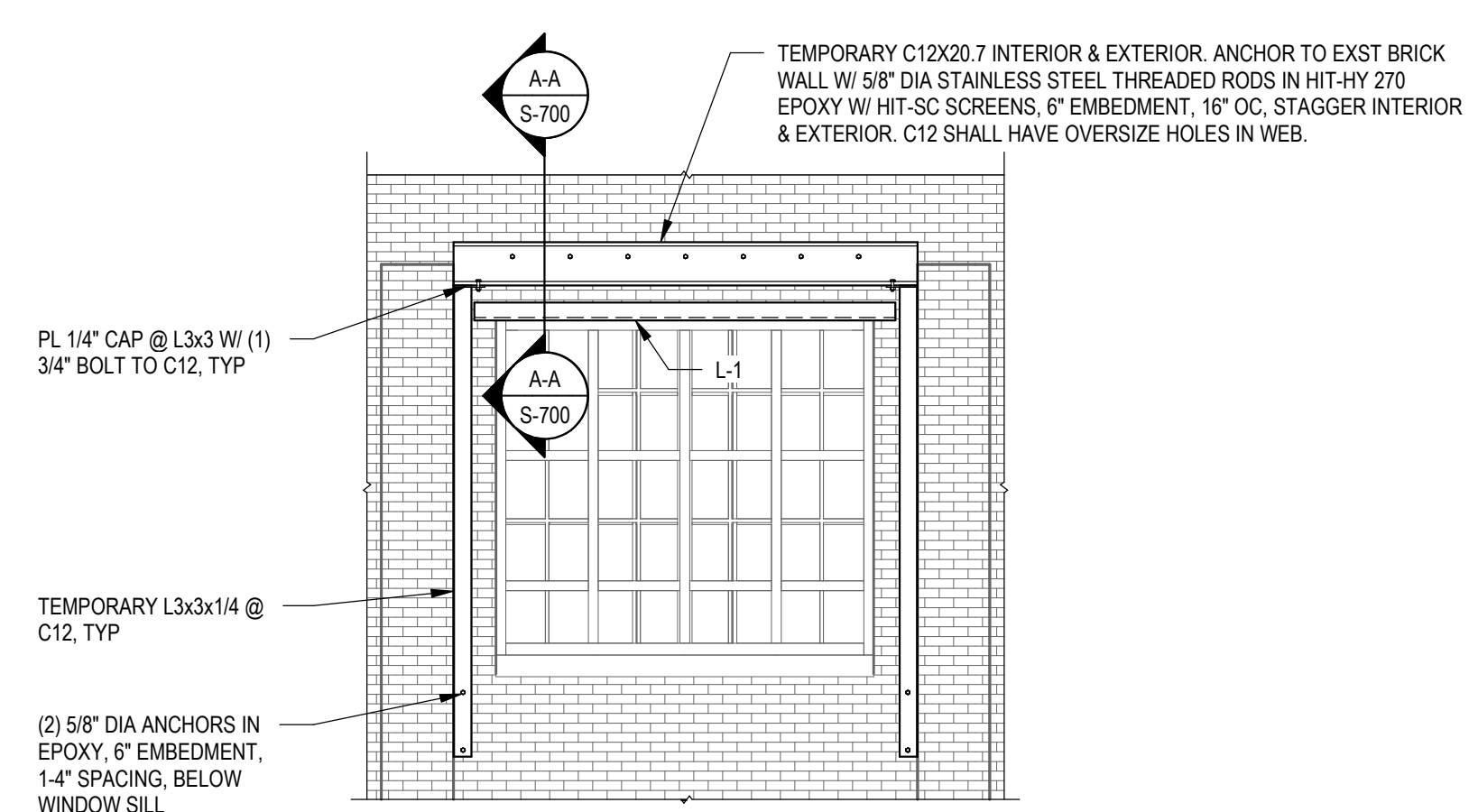


3 TYPICAL WALL REINFORCING DETAIL NOT TO SCALE

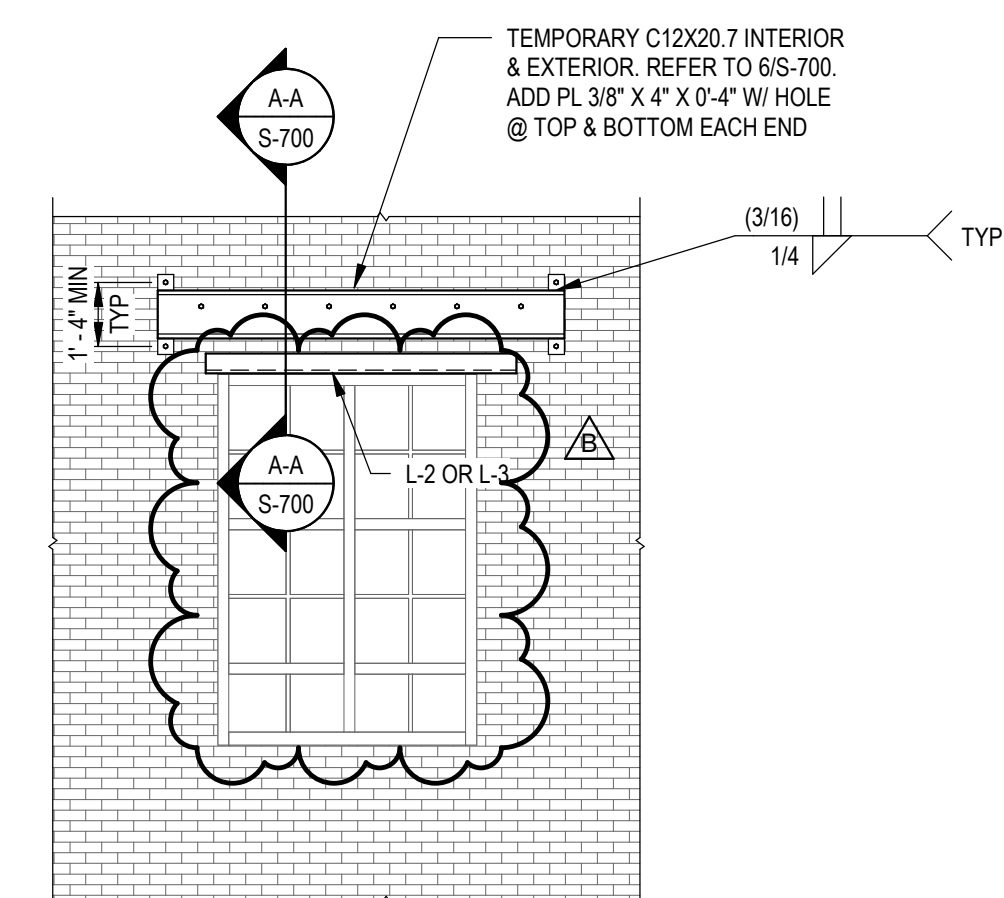
REINFORCING LAP LENGTH (f'c=5,000 PSI)									
BAR SIZE, d _b	LAP CLASS	CONCRETE COVER							
		3/4"		1 1/2"		2"		3"	
		TOP	OTHER	TOP	OTHER	TOP	OTHER	TOP	OTHER
#3	A	16"	12"	12"	16"	12"	16"	12"	16"
	B	21"	16"	21"	16"	21"	16"	21"	16"
#4	A	19"	14"	16"	12"	16"	12"	16"	12"
	B	24"	19"	21"	16"	21"	16"	21"	16"
#5	A	26"	20"	24"	19"	24"	19"	24"	19"
	B	34"	28"	34"	24"	34"	24"	34"	24"
#6	A	36"	27"	33"	23"	33"	23"	33"	23"
	B	46"	36"	44"	29"	44"	29"	44"	29"
#7	A	58"	44"	46"	34"	46"	34"	46"	34"
	B	75"	58"	58"	41"	58"	41"	58"	41"
#8	A	71"	54"	45"	34"	45"	27"	36"	27"
	B	92"	71"	58"	45"	46"	36"	46"	36"
#9	A	85"	65"	55"	42"	45"	34"	41"	31"
	B	110"	85"	71"	55"	58"	45"	53"	41"
#10	A	103"	79"	67"	51"	55"	42"	46"	35"
	B	134"	103"	87"	67"	71"	55"	60"	46"
#11	A	120"	92"	80"	61"	65"	50"	50"	38"
	B	156"	120"	104"	80"	85"	65"	65"	50"

- NOTES:
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.
 - WHEN LAP SPICING BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE SMALLER BAR, BUT MAY NOT BE LESS THAN THE CLASS A SPLICE LENGTH OF THE LARGER BAR.

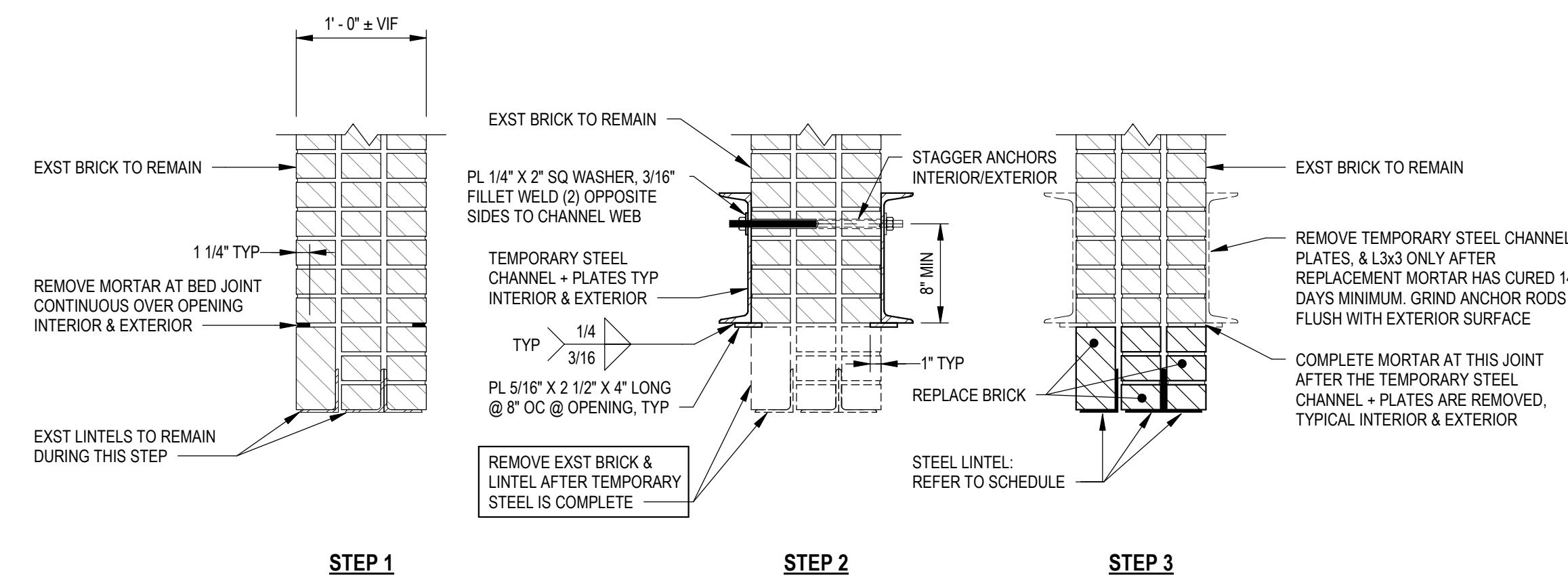
4 TENSION LAP SPLICE LENGTH SCHEDULE (NORMAL WEIGHT 5,000 PSI) NOT TO SCALE



5 TEMPORARY SUPPORT AT EXISTING BRICK - LINTEL L-1



6 TEMPORARY SUPPORT AT EXISTING BRICK - LINTEL L-2 & L-3



A-A SECTION - TEMPORARY LINTEL



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REGISTRATION EXPIRES: 07/31/2028

CONTRACT:

HVAC

TITLE:
REPLACE WINDOWS BUILDINGS 33, 34, & 36

LOCATION:
INDUSTRY LIMITED SECURE CENTER
375 RUSH-SCOTTSVILLE ROAD
RUSH, NY

CLIENT:
NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	09/09/2025	ADDENDUM 6
0	4/10/2025	BID DOCUMENTS

PROJECT NUMBER:	47572-H
DESIGNED BY:	J. HAKES
DRAWN BY:	J. HAKES
FIELD CHECK:	
APPROVED:	
SHEET TITLE:	

LEGEND, ABBREVIATIONS AND SYMBOLS

DRAWING NUMBER:
M-001

SHEET: OF

MECHANICAL LINE-TYPES (TWO-LINE)

	12"x12" (R)	REMOVE DUCTWORK (SIZE AS INDICATED)
	12"x12" (E)SA	EXISTING DUCTWORK (SIZE AS INDICATED)
	12"x12" SA	SUPPLY AIR DUCTWORK (SIZE AS INDICATED)
	12"x12" RA	RETURN AIR DUCTWORK (SIZE AS INDICATED)
	12"x12" EA	EXHAUST AIR DUCTWORK (SIZE AS INDICATED)
	12"x12" OA	OUTSIDE AIR DUCTWORK (SIZE AS INDICATED)
	2" 0 FLUE	FLUE DUCTWORK (SIZE AS INDICATED)

MECHANICAL SYMBOLS

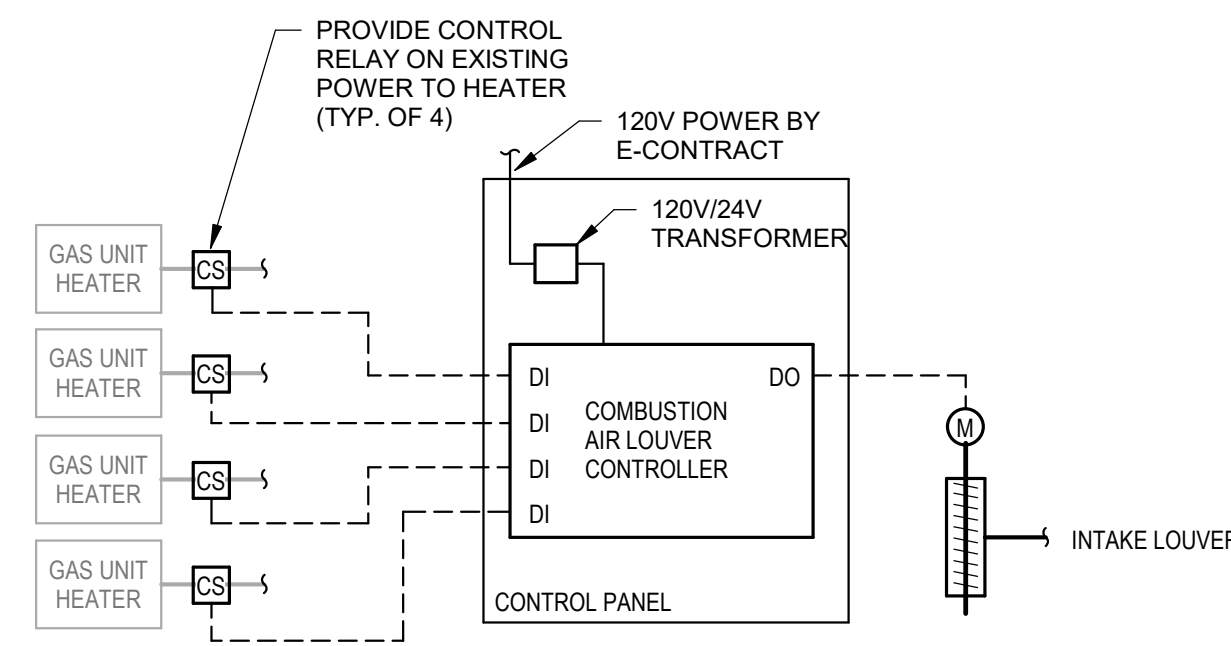
	SUPPLY AIR DUCT UP
	RETURN / OUTSIDE AIR DUCT UP
	EXHAUST AIR DUCT UP
	SUPPLY AIR DUCT DOWN
	RETURN / OUTSIDE AIR DUCT DOWN
	EXHAUST AIR DUCT DOWN
	INCLINED RISE IN DIRECTION OF AIR FLOW
	INCLINED DROP IN DIRECTION OF AIR FLOW
	FLEXIBLE DUCT CONNECTION
	VOLUME CONTROL DAMPER IN DUCT
	OPPOSED BLADE CONTROL DAMPER IN DUCT
	BLAST GATE CONTROL DAMPER IN DUCT
	FLEXIBLE DUCT, MAXIMUM LENGTH 4'-0"
	SUPPLY / OUTSIDE AIR SIDEWALL REGISTER / GRILLE
	RETURN / EXHAUST AIR SIDEWALL REGISTER / GRILLE
	FIRE DAMPER IN DUCT
	SECURITY BARRIER IN DUCT
	SMOKE DAMPER IN DUCT
	MOTOR OPERATED DAMPER IN DUCT
	ACCESS DOOR IN DUCT
	AIRFLOW ARROW
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	PUMP

MECHANICAL CONTROL SYMBOLS (ONE-LINE)

	DUCT SMOKE DETECTOR
	DUCT STATIC PRESSURE SENSOR
	START / STOP
	MOTORIZED DAMPER
	CURRENT SENSOR
	FREESTAT
	END SWITCH
	LIQUID SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	HUMIDISTAT / HUMIDITY SENSOR
	STATIC PRESSURE SENSOR
	VARIABLE FREQUENCY DRIVE
	VARIABLE SPEED DRIVE
	AIRFLOW MEASURING STATION
	OUTDOOR AIR MONITOR
	FLOW SWITCH
	PRESSURE ELEMENT
	TEMPERATURE ELEMENT
	UNIT CONTROL PANEL
	CO2 SENSOR
	ALARM
	LEVEL CONTROLLER (TANK)
	MOTOR STARTER
	THERMOSTAT
	HUMIDISTAT - LINE VOLTAGE WITH VANDAL PROOF LOCKABLE COVER (120 VOLT - MOUNT AT 48" AFF)
	THERMOSTAT - LINE VOLTAGE WITH VANDAL PROOF LOCKABLE COVER (120 VOLT - MOUNT AT 48" AFF)
	ANALOG OUTPUT
	ANALOG INPUT
	BINARY OUTPUT
	BINARY INPUT
	POINT OF CONNECTION
	POINT OF DISCONNECTION

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
dB	DECIBEL
DN	DOWN
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EFT	ELECTRIC FINITUBE RADIATION
ELEV	ELEVATION
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
FD	FIRE DAMPER
FF	FINISHED FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FO	FLAT OVAL
FT	FOOT / FEET
GA	GAUGE OR GAGE
GUH	GAS UNIT HEATER
HP	HORSEPOWER
HZ	HERTZ
IN	INCHES
IN WG	INCHES WATER GAUGE
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPS
MIN	MINIMUM
MIN SP	MINIMUM STATIC PRESSURE
MOCP	MAXIMUM OVERCURRENT PROTECTION
MTG HGT	MOUNTING HEIGHT
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
N C	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N O	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
SQ FT	SQUARE FEET
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VD	VOLUME DAMPER
VOLT	VOLTAGE
W	WATT
WB	WET BULB
WG	WATER GAUGE
°F	DEGREES FAHRENHEIT
&	AND
#	NUMBER



1 COMBUSTION AIR DAMPER CONTROL DIAGRAM
NOT TO SCALE

LOUVER

TAG	LOCATION	SERVICE	TYPE	WIDTH (IN)	HEIGHT (IN)	MIN FREE AREA (SQ FT)	MATERIAL	FINISH	MANUFACTURER & MODEL # (BASIS OF DESIGN)	REMARKS
LE-1	BUILDING 36	BUILDING EXHAUST	STATIONARY	60"	35"	5.35	ALUMINUM	PVDF, COLOR BY ARCH	GREENHECKY ESD-202	1
LI-1	BUILDING 33 & 36	INTAKE	STATIONARY	22 1/2"	35"	1.91	ALUMINUM	PVDF, COLOR BY ARCH	GREENHECKY ESD-202	2
LI-2	BUILDING 34	INTAKE	STATIONARY	23 1/4"	35"	1.98	ALUMINUM	PVDF, COLOR BY ARCH	GREENHECKY ESD-202	2

REMARKS
1. PROVIDE 1/2 INCH BIRDSCREEN.
2. PROVIDE 3/4 INCH BIRDSCREEN.

BUILDING 33 FAN SCHEDULE

TAG	LOCATION	APPLICATION	EQUIPMENT TYPE	DRIVE TYPE	CFM	TSP (IN-WG)	ELECTRICAL					UNIT WEIGHT (LBS)	MANUFACTURER & MODEL (BASIS OF DESIGN)	REMARKS
							HP	RPM	VOLT	PH	HZ			
EF-33	BUILDING 33	EXHAUST	SIDEWALL DIRECT DRIVE PROP FAN	DIRECT	1800	0.28	0.50	974	115	1	60	135	GREENHECK / AER-E20-02-0615-VG	2
TE-33	BUILDING 33 RESTROOM	EXHAUST	CEILING EXHAUST FAN	DIRECT	69	0.14	0.01	675	115	1	60	12	GREENHECK / SP-B70	1, 3

REMARKS
1. PROVIDE WITH VIBRATION SPRING ISOLATION HANGERS.
2. PROVIDE INTEGRAL DISCONNECT SWITCH.
3. PROVIDE WITH MANUFACTURER'S RECTANGULAR HOODED WALL CAP AND INTEGRAL BIRD SCREEN.

BUILDING 34 FAN SCHEDULE

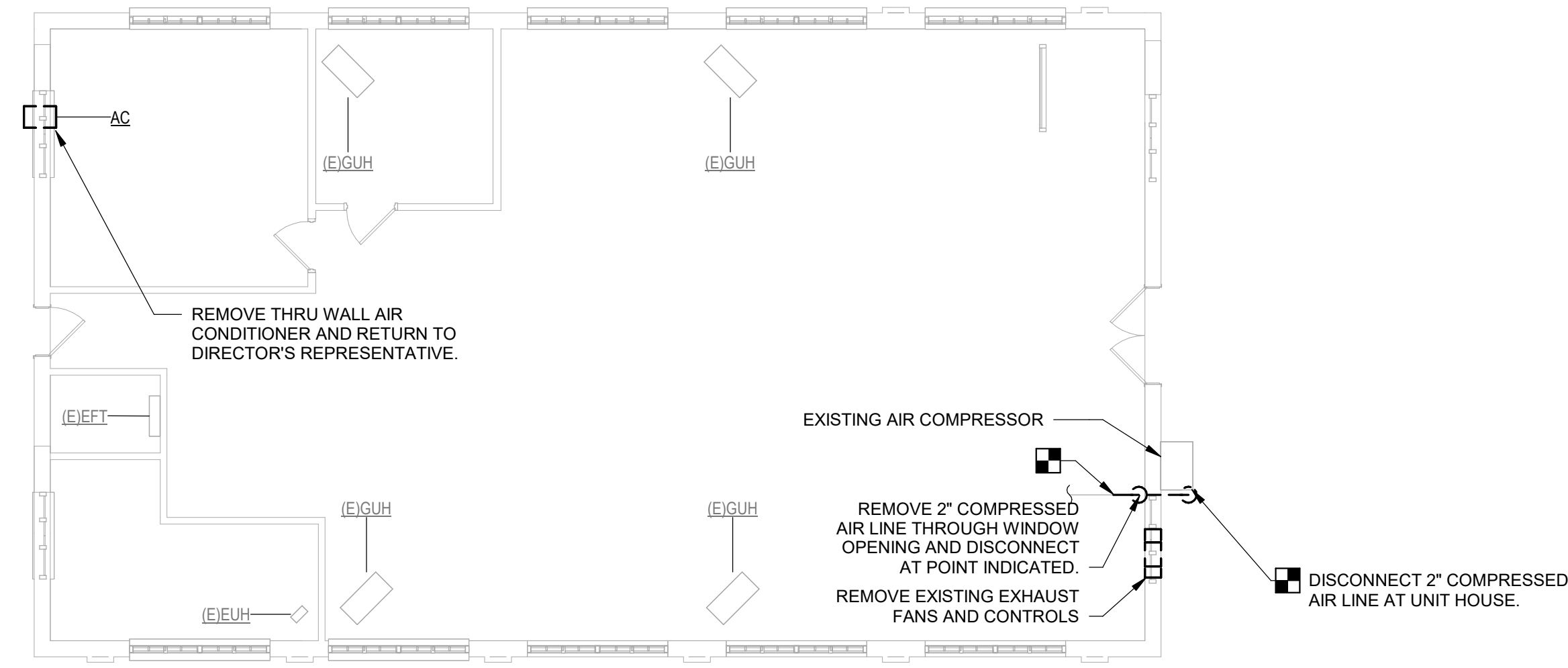
TAG	LOCATION	APPLICATION	EQUIPMENT TYPE	DRIVE TYPE	CFM	TSP (IN-WG)	ELECTRICAL					UNIT WEIGHT (LBS)	MANUFACTURER & MODEL (BASIS OF DESIGN)	REMARKS
							HP	RPM	VOLT	PH	HZ			
TE-34	BUILDING 34 RESTROOM	EXHAUST	CEILING EXHAUST FAN	DIRECT	69	0.14	0.01	675	115	1	60	12	GREENHECK / SP-B70	1, 2

REMARKS
1. PROVIDE WITH VIBRATION SPRING ISOLATION HANGERS.
2. PROVIDE WITH MANUFACTURER'S RECTANGULAR HOODED WALL CAP AND INTEGRAL BIRD SCREEN.

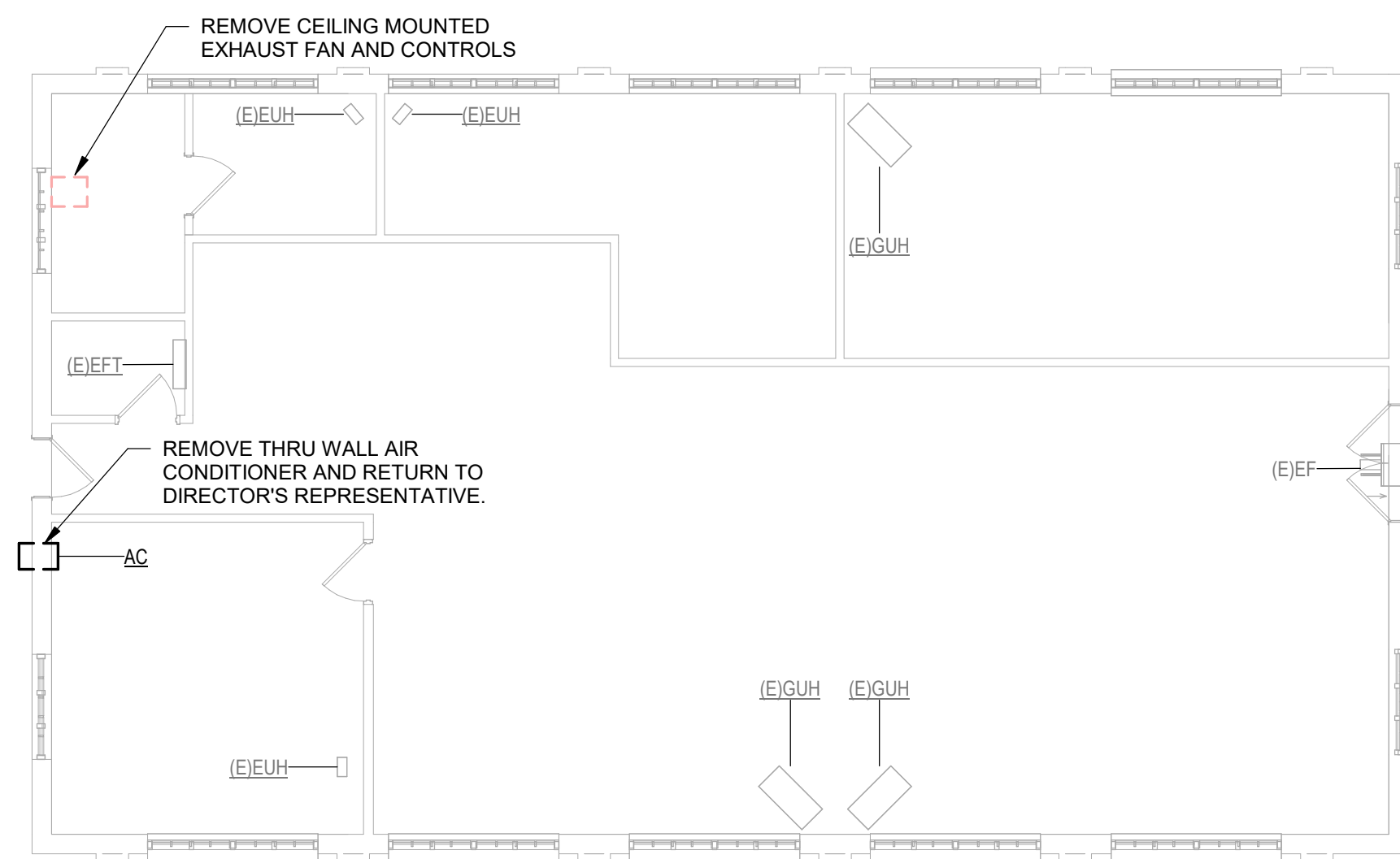
BUILDING 36 FAN SCHEDULE

TAG	LOCATION	APPLICATION	EQUIPMENT TYPE	DRIVE TYPE	CFM	TSP (IN-WG)	ELECTRICAL					UNIT WEIGHT (LBS)	MANUFACTURER & MODEL (BASIS OF DESIGN)	REMARKS
							HP	RPM	VOLT	PH	HZ			
EF-36	BUILDING 36	EXHAUST	INLINE CENTRIFUGAL EXHAUST FAN	DIRECT	450	0.10	0.16	1692	115	1	60	53	GREENHECK / SQ-80-VG	1, 2
TE-36	BUILDING 36 RESTROOM	EXHAUST	CEILING EXHAUST FAN	DIRECT	69	0.14	0.01	675	115	1	60	12	GREENHECK / SP-B70	1, 3

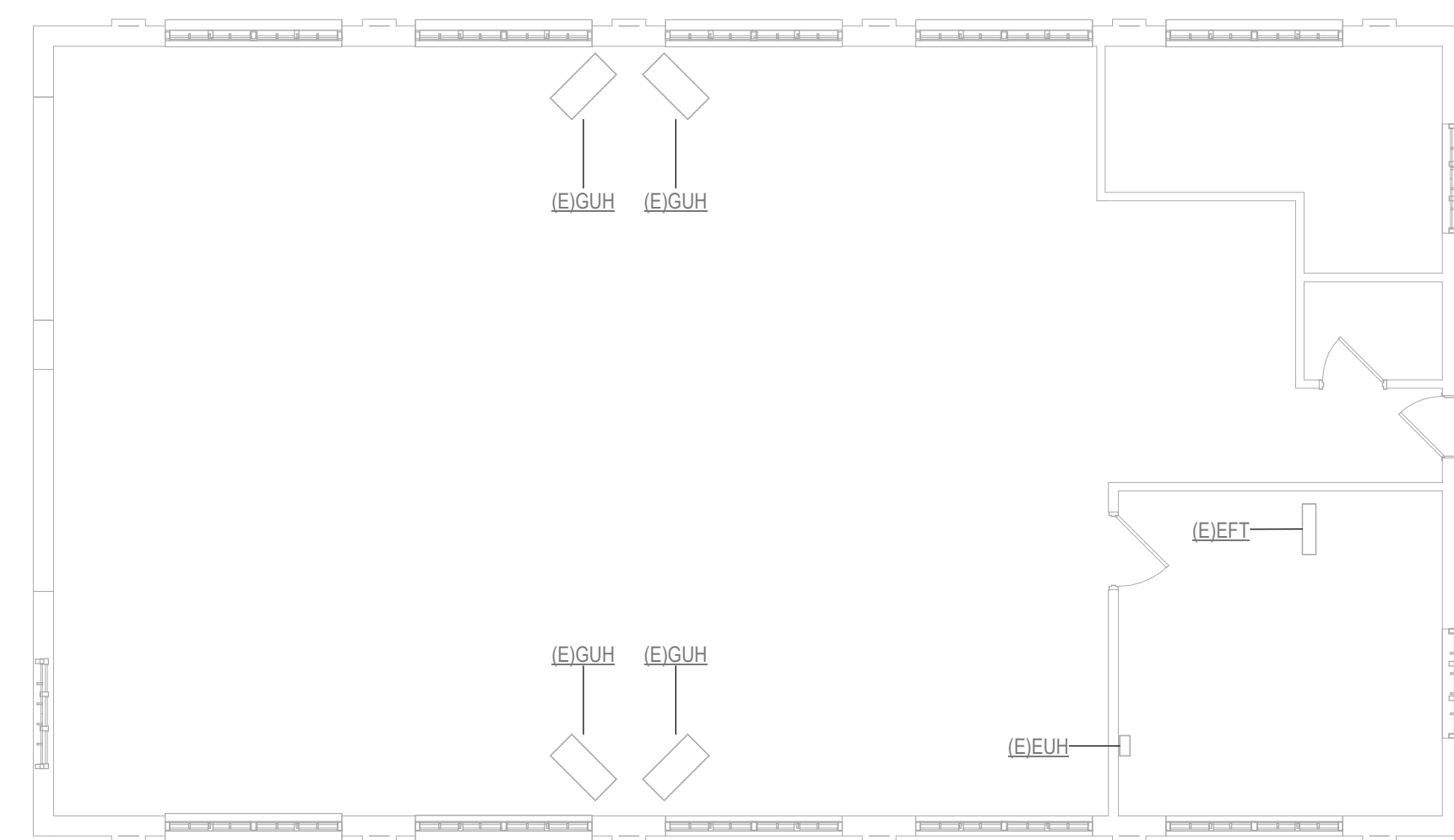
REMARKS
1. PROVIDE WITH VIBRATION SPRING ISOLATION HANGERS.
2. PROVIDE INTEGRAL DISCONNECT SWITCH.
3. PROVIDE WITH MANUFACTURER'S RECTANGULAR HOODED WALL CAP AND INTEGRAL BIRD SCREEN.



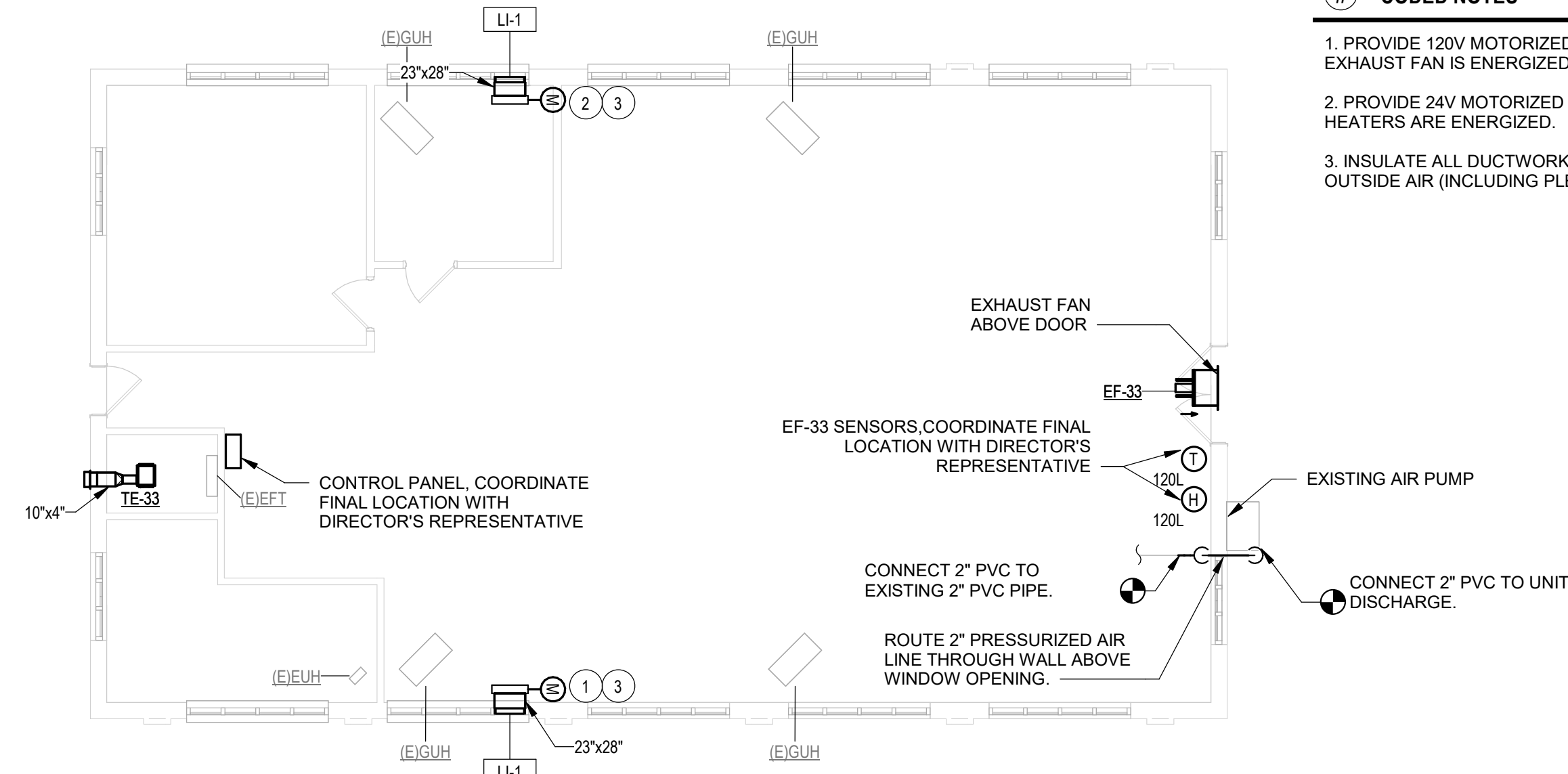
1 MECHANICAL REMOVALS PLAN - BLDG 33
1/8" = 1'-0" 0 4 8 16
NORTH



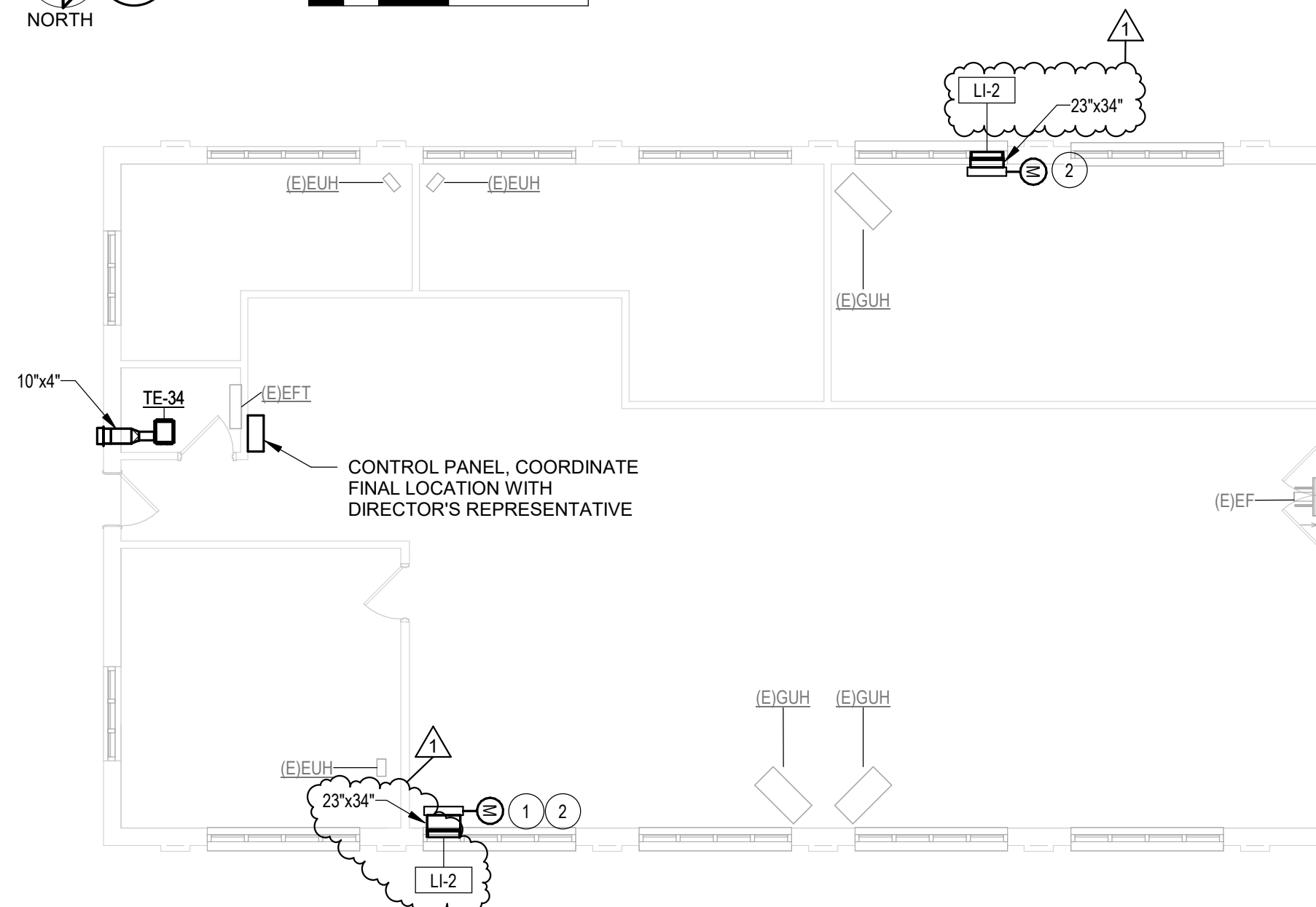
2 MECHANICAL REMOVALS PLAN - BLDG 34
1/8" = 1'-0" 0 4 8 16
NORTH



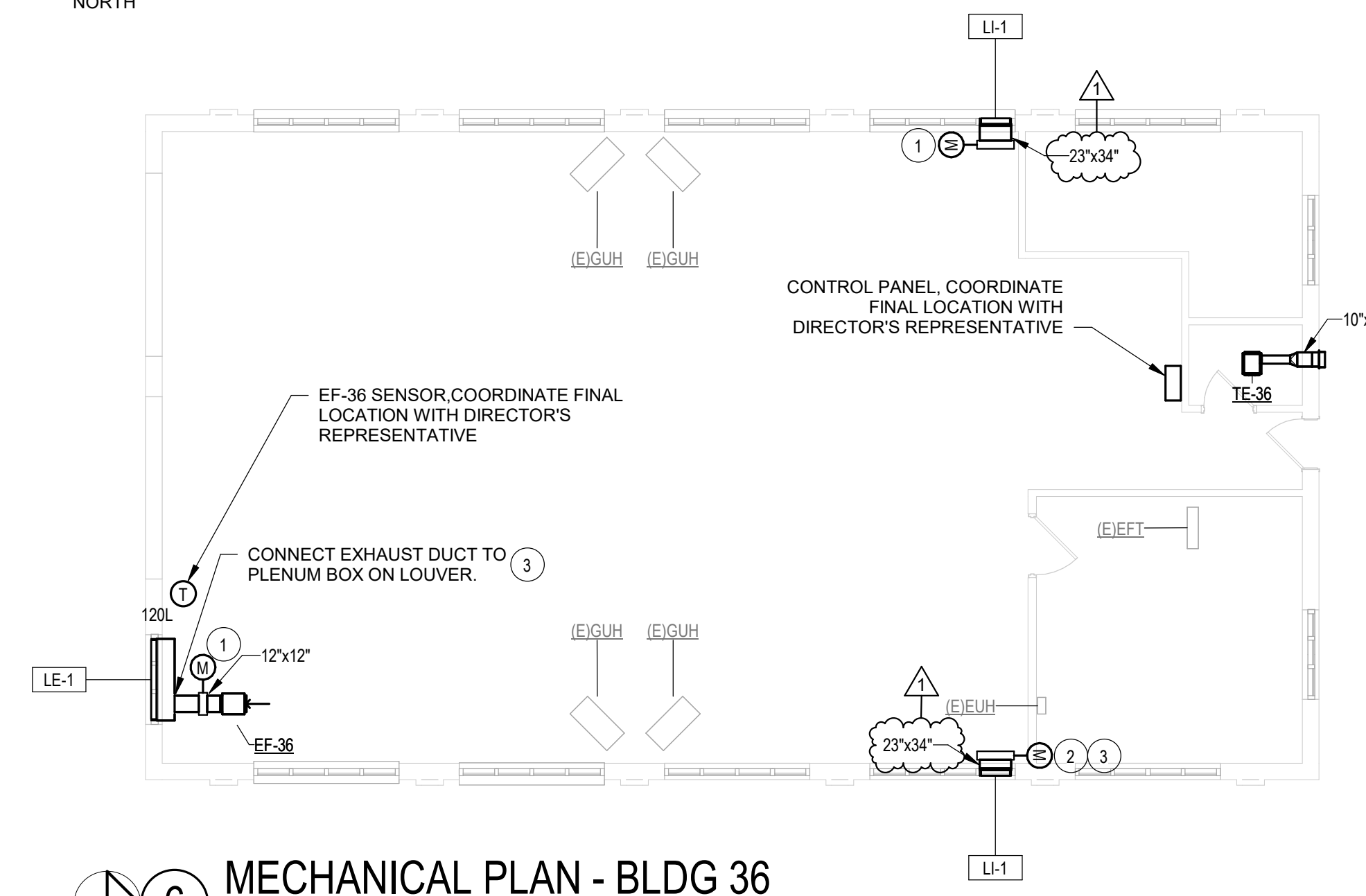
3 MECHANICAL REMOVALS PLAN - BLDG 36
1/8" = 1'-0" 0 4 8 16
NORTH



4 MECHANICAL PLAN - BLDG 33
1/8" = 1'-0" 0 4 8 16
NORTH



5 MECHANICAL PLAN - BLDG 34
1/8" = 1'-0" 0 4 8 16
NORTH



6 MECHANICAL PLAN - BLDG 36
1/8" = 1'-0" 0 4 8 16
NORTH

- # CODED NOTES
1. PROVIDE 120V MOTORIZED DAMPER, TO OPEN WHEN EXHAUST FAN IS ENERGIZED.
 2. PROVIDE 24V MOTORIZED DAMPER TO OPEN WHEN GAS UNIT HEATERS ARE ENERGIZED.
 3. INSULATE ALL DUCTWORK AND ACCESSORIES EXPOSED TO OUTSIDE AIR (INCLUDING PLENUM BOX)



UNIFORM CODE STATEMENT:
TO THE BEST OF THE REGISTERED DESIGN PROFESSIONAL'S KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THESE PLANS AND/OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 UNIFORM CODE.

ENERGY CODE COMPLIANCE STATEMENT:
TO THE BEST OF MY KNOWLEDGE, BELIEF, AND PROFESSIONAL JUDGEMENT, THE DRAWINGS BEARING MY PROFESSIONAL SEAL AND SIGNATURE MEET OR EXCEED THE NEW YORK STATE 2020 ENERGY CONSERVATION CONSTRUCTION CODE.

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.



CONTRACT: HVAC

TITLE: REPLACE WINDOWS BUILDINGS 33, 34, & 36

LOCATION: INDUSTRY LIMITED SECURE CENTER 375 RUSH-SCOTTVILLE ROAD RUSH, NY

CLIENT: NEW YORK STATE OFFICE OF CHILDREN AND FAMILY SERVICES

MARK	DATE	DESCRIPTION
1	09/09/2025	ADDENDUM 6
0	4/10/2025	BID DOCUMENTS

PROJECT NUMBER: 47572-H

DESIGNED BY: J. HAKES

DRAWN BY: J. HAKES

FIELD CHECK:

APPROVED:

SHEET TITLE: MECHANICAL PLANS

DRAWING NUMBER: M-101

SHEET: OF