



Office of General Services

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

ADDENDUM NO. 1 TO PROJECT NO. Q1874

CONSTRUCTION, HVAC, PLUMBING AND ELECTRICAL WORK REPAIR HVAC CONTROLS & REHABILITATE BEDROOMS AND BATHROOMS GOSHEN SECURE CENTER 97 CROSS RD GOSHEN, NY

March 28, 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 088853 SECURITY GLAZING: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 088853-1 through 088853-6) noted "Revised 03/27/2025".
2. SECTION 111901 DETENTION EQUIPMENT: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 111901-1 through 111901-15) noted "Revised 03/27/2025".

PLUMBING WORK SPECIFICATIONS

3. SECTION 224600 SECURITY PLUMBING FIXTURES: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 224600-1 through 224600-7) noted "Revised 03/27/2025".

CONSTRUCTION WORK DRAWINGS

4. Revised Drawings:
 - a. Drawing Nos. A-502 and A-601, noted "Revised Drawing 03/27/2025", accompany this Addendum and supersede the same numbered originally issued drawings.

PLUMBING WORK DRAWINGS

5. Revised Drawing:
 - a. Drawing No. P-102: noted “Revised Drawing 03/27/2025”, accompany this Addendum and supersede the same numbered originally issued drawing.

ELECTRICAL WORK DRAWINGS

6. Revised Drawing:
 - a. Drawing No. ED-101: noted “Revised Drawing 03/27/2025”, accompany this Addendum and supersede the same numbered originally issued drawing.

END OF ADDENDUM

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

SECTION 088853
SECURITY GLAZING

PART 1 GENERAL

1.01 REFERENCES

- A. American Society for Testing and Materials (ASTM), ASTM International, 100 Barr Harbor Dr., PO Box C700, West Conshohocken, PA, 19428-2959, www.astm.org
- B. H. P. White Laboratory, Inc., 3114 Scarboro Rd., Street, MD 21154-1822, www.hpwhite.com.
- C. Underwriters Laboratories Inc., 333 Pfingsten Rd., Northbrook, IL 60062-2096, www.ul.com.
- D. Glass Association of North America, 2945 SW Wanamaker Dr., Suite A, Topeka, KS 66614-5321, www.glasswebsite.com.
- E. American Architectural Manufacturers Association, 1827 Walden Office Square, Suite 550, Schaumburg, IL 60173-4268, www.aamanet.org.

1.02 DEFINITIONS

- A. Sheet Materials: The term “Sheet Materials” as used in this Section refers to monolithic polycarbonate sheets, glass clad polycarbonate sheets, and laminated polycarbonate sheets specially fabricated for ballistics and/or forced-entry resistance.

1.03 SUBMITTALS

- A. Waiver of Submittals: The “Waiver of Certain Submittals Requirements” in Section 013300 does not apply to this Section.
- B. Submit an Environmental Product Declaration (EPD) from the manufacturer for glass within this specification section, if available. A statement of the contractor’s good faith effort to obtain the EPD shall be provided if not available.
 - 1. Manufacturer-provided EPDs must be Product Specific Type III (Third-Party Reviewed), in adherence with ISO 14025 *Environmental labels and declarations*, ISO 14044 *Environmental management – Life cycle assessment*, and ISO 21930 *Core rules for environmental product declarations of construction products and services*.
- C. Product Data: Catalog sheets, specifications, glazing details, and installation instructions for each type of sheet materials, and glazing materials specified.

- D. Quality Control Submittals:
 - 1. Test Reports: Test data to substantiate sheet material assemblies compliance with the requirements of this Section.
 - 2. Certificate: Affidavit required under Quality Assurance Article.
 - 3. Installer’s Qualifications Data:
 - a. Name of each person who will be installing the Work of this Section and their employer’s name, business address and telephone number.
 - b. Names and addresses of 3 similar projects that each person has worked on during the past 5 years.
 - 4. Compatibility: Written certification from sheet materials manufacturer that all proposed glazing materials are compatible with specified sheet material.

- E. Contract Closeout Submittals:
 - 1. Maintenance Data: Deliver 2 copies, covering installed products, to the Director’s Representative.

1.04 QUALITY ASSURANCE

- A. Testing Laboratory: Independent testing laboratory with the test facilities, experience, and capability to demonstrate the proposed sheet material assemblies compliance with the requirements of this Section to the satisfaction of the Director.

- B. Certification: Affidavit by the sheet material manufacturer, certifying that chemically strengthened glass was cut to final size before treatment.

- C. Manufacturer’s Qualifications:
 - 1. The manufacturer shall have been actively marketing security glazing materials in the United States for a minimum of 3 years.
 - 2. The manufacturer shall have the technical expertise and qualified technical representatives to resolve questions or problems that may arise both during and after the Work is completed.

- D. Installer’s Qualifications: The persons installing the security glazing and their Supervisor shall be personally experienced in security glazing systems and shall have been regularly employed by a Company installing security glazing systems for a minimum of 5 years.

- E. Product Identification Labels:
 - 1. Identify each piece of forced entry resistant sheet material with a one inch high x 3 inches long self-adhesive transparent label, indicating the manufacturer and product name. Place the stencil on the glass, if applicable, readable from the secure side. Locate label in the upper right corner 2 inches from the top and side of the frame.

- F. Laminated Glass Imperfections: Imperfections such as bubbles, blow-in, fuse, hair, lint, inside dirt (dirt spot), delamination, discoloration, short interlayer, unlaminated area chip, interlayer scuff, streak, scratches, will be cause for rejection of product. Comply with ASTM C-1349 for Glass Clad Polycarbonates

- G. Mismatch of Laminations:
 1. Maximum Allowable Mismatch: 3/16 inches.
 2. Length and Width Tolerances of Symmetrical Glass Clad Polycarbonate Laminates: Comply with ASTM C 1349, Table 2.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store sheet material assemblies with manufacturer’s labels intact.
- B. Deliver exposed polycarbonate sheets with strippable water resistant protective masking intact. Do not capture protective masking in frame when installing sheet material. Protective masking to remain intact during installation. Where sheet material is in direct sunlight, remove protective masking.
- C. Protect sheet material assemblies from damage during handling, storage, and installation.

1.06 PROJECT CONDITIONS

- A. Environmental Requirements: Comply with glazing materials manufacturer’s printed recommendations regarding environmental conditions under which glazing materials can be installed.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Chemically Strengthened Float Glass: ASTM C 1036, Type I (transparent glass, flat), Class 1 (clear), quality Q3 (glazing select), chemically tempered. Modulus of Rupture 30,000 psi. Cut chemically strengthened glass to final size and seam edges before treatment.
- B. Polycarbonate: Extruded polycarbonate, UV stabilized, mar-resistant surface coating, smoke density rating less than 75, ASTM D 2843; extent of burning characteristics less than one inch when tested in accordance with ASTM D 635.
- C. Interlayer For Laminating Polycarbonate To Glass: Polyurethane, as recommended by the sheet manufacturer, specifically designed for lamination, with demonstrated long-term ability to maintain physical and visual properties under installed conditions.

2.02 FORCED ENTRY RESISTANT SECURITY GLAZING TYPES

- A. Type S-11 Sheet:
 1. Fire Rated Glass Clad Polycarbonate Laminate Sheet: Chemically strengthened clear glass laminated to each side of a polycarbonate core.
 2. Fire resistive security glazing tested in accordance with ASTM E119, NFPA 80, NFPA 251, NFPA 252, NFPA 257, UL 9, UL 10B, UL 10C, UL 263, CDC 860-09a and ASTM F1915.

3. Forced Entry Resistance: H.P. White TP-0500.01 Level 1, or ASTM F1915 Grade 4.
 4. Fire-rating: 45 minutes.
 5. Color: Clear.
 6. Products:
 - a. SuperSecure II-XLS 45-120 by SaftiFirst.
 - 1). Nominal thickness: 3.12-inches.
 - b. Pilkington Pyrostop BR by Technical Glass Products.
 - 1). Nominal thickness: 2.27-inches.
- B. Type S-12 Sheet:
1. Fire Rated Glass Clad Polycarbonate Laminate Sheet: Chemically strengthened clear glass laminated to each side of a polycarbonate core.
 2. Fire resistive security glazing tested in accordance with ASTM E119, NFPA 80, NFPA 251, NFPA 252, UL 10C, UL 263, and ASTM F1915.
 3. Forced Entry Resistance: H.P. White TP-0500.02 Level 2, or ASTM F1915 Grade 2.
 4. Impact Testing: CSPC 16 CFR 1201, Category I and II.
 5. Fire-rating: 45 minutes.
 6. Color: Clear.
 7. Product:
 - a. Infernogard 45-2115 by Global Security Glazing.
 - 1). Nominal thickness: 1.62-inches.

2.03 GLAZING MATERIALS

- A. Glazing Accessories: Manufacturer recommended fire rate glazing accessory as flows:
 1. Glazing with EPDM tape or other listed flame resistant gasket material and calcium silicate setting blocks.
- B. Sealant Colors: For exposed materials provide color as indicated or, if not indicated, as selected by the Director's Representative from the manufacturer's standard colors. For concealed materials, provide any of the manufacturer's standard colors.
- C. Cleaners, Primers, and Sealers: Types recommended by glazing material manufacturer, compatible with polycarbonate.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine glazing channels and stops for defects that will prevent satisfactory installation of sheet glazing system. Report unsatisfactory conditions to the Director in writing. Do not proceed with installation until unsatisfactory conditions have been corrected.
- B. Inspect each piece of sheet material immediately before installation. Remove from the Site pieces that have observable damage or face imperfections.

3.02 PREPARATION

- A. Remove coatings that are not firmly bonded to the substrate.
- B. Clean the glazing channel, and other framing members to receive sheet material, immediately before glazing.
- C. Immediately prior to installation, peel back factory applied protective masking only to a dimension sufficient for edge engagement. Do not totally remove masking from sheet.

3.03 INSTALLATION

- A. Each installation shall withstand normal temperature changes without sheet material delamination, failure of glazing materials to remain watertight and airtight, deterioration of glazing materials and other defects in the work.
- B. Install sheet and glazing material in accordance with the recommend standards detailed in the “Glazing Manual” of the Glass Association of North America except as indicated and specified otherwise, and except as specifically recommended otherwise by the manufacturers of the sheet material and glazing materials.
- C. Primer: Apply primer to surfaces when recommended by glazing material manufacturer.
- D. Setting Blocks:
 - 1. Install a minimum of 2 identical setting blocks sized to provide 0.1 inch long for each square foot of sheet material area but not less than 4 inches long.
 - 2. Height of setting blocks to provide the recommended nominal bite and minimum edge clearance for the security glazing used.
 - 3. Width as required providing proper support of sheet materials but allowing water passage to weep holes.
 - 4. Install at quarter points in heal bead of sealant, do not block weeps.
- E. Glazing Tape:
 - 1. Cut glazing tape to proper length prior to application. Install strips in 4 separate sections. Do not run continuously around corners.
 - 2. Install tape continuously against permanent stop 3/16 to 1/4 inch below sightline. Do not permit gaps or joints in tape except at corners. Do not lap adjoining lengths of tape. Miter or butt ends of tape at corners and seal with compatible sealant.
- F. Sheet Glazing: Set sheet material on setting blocks and press against tape with sufficient pressure to ensure full contact and adhesion at perimeter. Install removable stop.
- G. Spacer Shims: Insert continuous spacer shims between sheet material and applied stop to keep sheet in compression against tape, do not displace glazing

tape. Install shims in 4 separate sections. Do not run continuously around corners, or come in contact with sheet material cut edges.

- H. Glazing Sealant:
1. Install continuous cap bead on both sides of sheet material.
 2. Force sealant into channel to eliminate air pockets and voids and to ensure a complete bond of sealant to sheet material and framing.
 3. Tool exposed surfaces of sealant eliminate air pockets and to provide a substantial “wash” away from sheet material.
 4. Clean off excess sealant as work progresses using methods that will not damage sheet or glazing material.
 5. Cure glazing materials in accordance with manufacturer’s instructions and recommendations, to obtain high early bond strength, internal cohesive strength, and surface durability.

3.04 PROTECTION AND CLEANING

- A. Remove factory installed protective masking from sheet that is in high humidity or direct sunlight immediately after installation. Prolonged exposure can make removal of masking difficult.
- B. Mark glazed openings immediately upon installation of sheet material by attaching crossed streamers to framing. Do not apply markers of any type to surfaces of sheet material.
- C. Protect exposed surfaces of polycarbonate from construction operations with temporary covering. Do not apply tape to sheet material.
- D. Replace sheet material included in the Work that is broken or otherwise damaged from the time Work is started at the site until the date of physical completion.
- E. Maintain sheet material in a reasonably clean condition until the date of physical completion.
 1. Clean and trim excess glazing material from the sheet material and stops or frames promptly after installation.
- F. When directed, or just before the project is turned over to the State, remove temporary covering, dirt and other foreign material from both surfaces of sheet material installed under this Contract, and clean sheet material on both sides.

END OF SECTION

SECTION 111901
DETENTION EQUIPMENT

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

- A. Security Glazing: Section 088853.
- B. Construction Painting: Section 099101.

1.02 REFERENCES

- A. Welding Standards: Structural Welding Code - Steel, AWS D1.1 or Structural Welding Code - Sheet Steel, AWS D1.3, as applicable, by the American Welding Society (AWS Codes).
- B. Materials and Finishes Standard: ANSI/BHMA A156.18, American National Standard for Materials and Finishes.
- C. ASTM-American Society for Testing Materials:
 - 1. ASTM A1008/A1008M Standard Specification for Steel, Sheet, Cold Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low Alloy with Improved Formability, Solution Hardened and Bake Hardenable.
 - 2. ASTM A1011A/A1011M Standard Specification for Steel, Sheet and Strip, Carbon, Hot Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low Alloy with Improved Formability, and Ultra-High Strength.
 - 3. ASTM A653/653M Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot Dip Process.
 - 4. ASTM C-1107 – Standard Specification for Non-shrink Grouts.

1.03 DEFINITIONS

- A. Company Field Advisor: An employee of a Company that manufactures mechanical and/or electric detention equipment and systems, and/or detention hardware and accessories, who is certified in writing by the Company to be technically qualified in design, installation, operation, and servicing of the required products. Personnel involved solely in sales do not qualify.
- B. Benchmark: The first of a type or portion of work or assembly constructed on-site to allow inspection and review for compliance with the Contract requirements. Benchmarks are constructed to verify qualities of materials and execution; to review coordination between various components of a system, and to demonstrate compliance with specified installation tolerances. Benchmarks are not samples. Unless otherwise indicated, approved benchmarks establish the standard by which the Work will be judged. Approved benchmarks may be incorporated into the Work of this Section.

1.04 SUBMITTALS

- A. Waiver of Submittals: The Waiver of Certain Submittal Requirements in Section 013300 does not apply to this Section.
- B. Submittal Packages: Submit the entire Quality Assurance Package prior to other submittal packages. After Quality Assurance Package is approved, submit the Detention Equipment Package, Detention Hardware Package, and the Power and Control Wiring Package specified below at the same time.
- C. Re-Evaluation Fee: In accordance with Article 4.7 of the General Conditions, a re-evaluation processing fee will be levied against the Contractor for each re-evaluation of any Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content or format. There will be a fee of \$250 levied against the Contractor for each re-evaluation of any Submittal Package submission that was returned for failure to comply with the submittal requirements relative to completeness, content, or format.
- D. Quality Assurance Package:
 - 1. Equipment Manufacturer'(s) Qualifications:
 - a. Name, business address, and telephone numbers of each Equipment Manufacturer.
 - b. Brief description of 5 similar projects where manufacturer's detention equipment and hardware have been in operation for a minimum of 3 years. Include names, addresses, and telephone numbers of facility contacts.
 - 2. Equipment Installation Company Qualifications:
 - a. Name, business address, and telephone numbers of the Installation Company.
 - b. Include a comprehensive history of the Installation Company.
 - c. Names, addresses and telephone numbers of facility contacts of 5 similar projects company has completed in the past 5 years.
 - d. Current written certification from the detention equipment Manufacturer that the Company installing the Work has successfully completed factory training and is qualified as a Detention Equipment Contractor.
 - 3. Equipment Installer's Qualifications:
 - a. Name of the employee of the Installation Company that will provide full-time on-site supervision of the installation and completion of the Work of this Section.
 - b. Names, addresses and telephone numbers of facility contacts of 5 similar projects this person has supervised in the past 5 years.
 - c. Current written certification from the detention equipment Manufacturer(s) that the proposed Installer has successfully completed training and is qualified in the installation of the specified detention products.
 - 4. Company Field Advisor's Qualifications:
 - a. Name, business address and telephone numbers of each proposed Company Field Advisor.

- b. Written certification from detention equipment and detention hardware manufacturers that the proposed Advisor is technically qualified in design, installation, and servicing of products.

- E. Detention Equipment Package: Include Shop Drawings and Product Data for all components. Show relationship of detention equipment with other Work.
 - 1. Complete detailed drawings for each style of door/gate/ required. Include separate schedule for each. List materials required, and technical data including size, and finish to ensure conformance to specifications. Include details of all major components and show accessories. Show connections, anchors, and fasteners. Include parts list showing manufacturers' names and part numbers for the complete installation.
 - 2. Include details of lock mountings.
 - 3. Indicate shop and field welds by standard AWS welding symbols.
 - 4. For doors/gates to be installed in existing openings, field measure existing gate openings and other conditions, and indicate existing information on Shop Drawings.
 - 5. Complete detailed drawings for each console/panel required. Indicate technical data, including size and finishes, to ensure conformance to specifications. Show relationship of all required components with respect to the console housing. Include parts list showing manufacturers' names and part numbers for the complete installation. Include date(s) and name(s) of person(s) performing field verifications.
 - a. Drawings shall be dimensioned showing location of each item (switch, LED, nameplate, etc.) mounted to the control console/panel top (faceplate) and cut-out locations.
 - b. Include scale drawing showing location of all components which are to be located within in the control console/panel.
 - 6. Product Data: Current catalog sheets, specifications, and installation instructions for equipment and accessories. Identify each item and component.

- F. Detention Hardware Package:
 - 1. Hardware Schedule: Use a vertical schedule layout. Horizontal hardware schedules are not acceptable.
 - a. Preface the Schedule with the following: Door index, list of manufacturers, list of finishes, list and explanation of abbreviations.
 - b. Include a Key Schedule with keying instructions.
 - c. For each opening include the following: Door and frame types, material and dimensions, location, handing, fire rating; and detention hardware required to complete the Work of this Section.
 - d. Create detention hardware groups, each group consisting of similar detention doors/gates and detention hardware. Do not combine labeled and non-labeled openings. Arrange by Buildings if required. Under each group heading, list hardware items in detail required for ordering. For each item include:
 - 1). Quantity.
 - 2). Type.
 - 3.) Manufacturer's name.

- 4.) Size and/or catalog number.
 - 5.) Accessories and/or options.
 - 6.) Finish.
 - 7.) Fasteners.
 - e. Product quantities will not be checked for accuracy.
 - 2. Product Data: Manufacturer’s Catalog sheets, specifications, templates, and installation instructions for each item of detention hardware required to complete Work of this Section.
- G. Contract Closeout Submittals: Deliver indicated number of hard copies to the Director’s Representative, unless otherwise indicated.)
- 1. Operation and Maintenance Data for Detention Equipment: Instructions for operation, maintenance recommendations, and parts manuals covering the products installed.
 - 2. Operation and Maintenance Data for Detention Hardware: Instructions, maintenance, and parts manuals covering the installed products to the Director’s Representative.
 - 3. Operation and Maintenance Data for Power and Control Wiring Products: Instructions, maintenance recommendations, and parts manuals covering each of the installed products.
 - a. Furnish a comprehensive, complete point-to-point wiring diagram of the entire system as installed. Number all conductors, (numbers shall correspond to numbered tags installed on each conductor) and show all termination points.
 - 4. Final Systems Testing Report and Certification of Proper Operation: Written certification from the detention equipment Manufacturer(s) that the detention equipment systems, the detention locks, and the accessories are installed correctly and operating properly. Certification to include name of person(s) performing the Inspection, date(s) performed, locations inspected, functions tested, and confirmation that all required corrections or adjustments have been satisfactorily completed.
 - 5. Spare components and maintenance kit:

1.05 TEMPLATES

- A. After receipt of approved submittals, furnish current required templates to the affected trades to enable the fabricators to make proper provision for hardware without delaying job progress.

1.06 QUALITY ASSURANCE

- A. Equipment Manufacturer’s Qualifications: Each manufacturer of and detention equipment, detention hardware, and control consoles shall be regularly engaged in the production of such products and have furnished such products for 5 similar projects that have been in operation for a minimum of 3 years. Equipment manufacturers are subject to the Director’s approval.
- B. Installation Company Qualifications: The Company installing the Work of this Section shall hold current written certification as an approved Detention Equipment Contractor from the approved Detention Equipment Manufacturer(s)

and have been engaged in the assembly and installation of detention equipment for a minimum of 3 years.

- C. **Installer’s Qualifications:** The person installing and providing full time on-site supervision of the Work of this Section shall be personally experienced in detention equipment work and hold current written certification from the Detention Equipment Manufacturer(s) that they have successfully completed training and is qualified in the installation of the specified detention products, and shall have been engaged in the assembly and supervision of installation of detention equipment for a minimum of 3 years.

- D. **Company Field Advisor(s):** In addition to being present at the site for the Pre-Installation Conference (on-site or if approved, by tele-conference) and the Post Installation Inspection, secure the services of Company Field Advisors for site visits/inspections for the following:
 - 1. Render technical assistance to the installation procedures of the detention equipment.
 - 2. Familiarize the Director’s Representative with the aspects of proper installation and operation of the detention equipment.
 - 3. Witness final equipment/systems test and certify with an affidavit that the equipment/system is installed correctly and is operating properly. All Company Field Advisors are required to attend the Post Installation Inspection.
 - 4. Answer questions which might arise.

- E. **Pre-Installation Conference:** Before the detention equipment is scheduled to be installed, the Director’s Representative will call a conference at the site, for the purpose of reviewing the Contract Documents, shop drawings, approved submissions, and the requirements of the Work. The contractor, detention equipment installer, power and control wiring installer, and the Company Field Advisor shall attend. Other participants may be invited at the discretion of the Director.

- F. **Galvanizing Stamp:** Stamp or officially tag galvanized items with name of the galvanizer, weight of coating, and applicable ASTM number.

- G. **Uniformity of Detention Equipment Systems:** Provide detention equipment systems specified in this Section from the same manufacture consistent with existing detention equipment and systems.
 - 1. Provide detention equipment manufactured by Southern Folger Detention Equipment Company, unless otherwise specified or approved. Continue existing key systems.

- H. **Fabrication Inspection:**
 - 1. When hollow steel door fabrication is about to begin, coordinate through the Director’s Representative to schedule a shop inspection at the manufacturer’s facility with OGS Design representative/security expert to confirm fabrication in accordance with the Contract Documents and approved submittals. Fabricate the first two (2) doors and frames for inspection as follows:

- a. Door and frame completely fabricated ready to deliver to the job site.
 - b. Door fabricated to just before the second face panel is welded in place to allow for inspection of the framing, reinforcements, welds, and other construction details.
 - 2. Should deviations from the Contract requirements be found, the Director's Representative reserves the right to inspect additional units to verify compliance. Schedule and perform additional inspections and appropriate corrective measures required at no additional cost to the State. After approval of the sample doors, fabricate the balance of the doors.
- I. Field Example and Benchmark:
- 1. Provide two full size Cell Door (right hand and left hand) and Electric Locking and Operating Device Assemblies for the Work of this Section. Install where directed. Upon completion and approval, the Cell Doors and Operating Devices may be used in the Work.
- J. Construction Verification: In order to confirm the products furnished comply with the specifications, the Director's Representative reserves as an option to choose one door and frame of each type, at random for examination. The examination will involve cutting the door and frame to expose the internal construction for inspection of the framing, reinforcements, welds, and other construction details. These doors and frames are in addition to the doors and frames identified in the Contract Documents. Should deviations from the Contract requirements be found, the Director's Representative reserves the right to inspect additional units to confirm compliance. The additional inspections and appropriate corrective measures shall be provided by the Contractor at no cost to the State.

1.07 DELIVERY

- A. Coordinate delivery of anchors and other accessories to be built into other Work, to avoid delay. Furnish instructions and templates to the affected trades as required for accurate location.
- B. The manufacturer of the prison lock keys shall provide advance notification as directed and ship all prison lock keys through the United States Postal Service, direct from manufacturer to the Facility, via Registered Mail, Restricted Delivery, Return Receipt Requested.

1.08 MAINTENANCE

- A. Maintenance Materials:
 - 1. Hand Tool Maintenance Kit(s): Lockable steel toolbox each containing one set of all hand tools and fasteners necessary to perform preventative maintenance and repairs of detention equipment and locking system devices. This list includes but is not limited to the following:
 - a. Box/open end wrenches from 1/4" thru 3/4".
 - b. 3/8" drive socket set from 3/8" thru 3/4" (six point) with the 3" and 6" extensions.

- c. Pliers, flat blade screwdriver, 10” crescent wrench and a Hex Key set that set that includes a size 5/32”.
 - d. Mechanics mirror.
 - e. Flashlight with batteries.
 - f. One complete Torx kit and driver.
 - g. Acceptable Manufacturers: Craftsman or Snap-On with lifetime warranty.
 - h. This is not a complete list of required tools, but it is a representation of the type needed for service and repair of the devices.
- 2. Test box (es) that will monitor the systems used at this Facility for correct and proper functions.
 - 3. Required amounts of recommended lubricants for 3 years service.
 - 4. Extra Material: For every 20 units installed (or fraction thereof), furnish one detention accessory manufacturer’s factory finish touch-up kit for the factory finish specified.
 - a. Store touch-up kit at the site where directed.
 - b. Label kit to identify unit and location.

PART 2 PRODUCTS

2.01 DETENTION EQUIPMENT COMPANIES

- A. Architectural Builders Hardware (AH).
- B. Folger Adam (FA).
- C. Southern Folger Detention Equipment Company (SF).
- D. Stanley Hinges (ST).

2.02 MATERIALS

- A. Steel Plate: Open-hearth mild steel produced especially for detention use; ASTM A 36.
- B. Steel Tubing: Hot-formed, welded or seamless, structural tubing; ASTM A 501.
- C. Miscellaneous Steel Shapes and Bars: ASTM A 36, unless otherwise specified or indicated.
- D. Cold-Finished Steel Bars: ASTM A 108, grade as selected by the fabricator.
- E. Steel Sheet:
 - 1. Hot-Rolled Steel Sheets and Strip: Commercial quality carbon steel pickled and oiled, complying with ASTM A 569 and ASTM A 568.
 - 2. Cold-Rolled Steel Sheets: Commercial quality carbon steel, complying with ASTM A 366 and ASTM A 568.
 - 3. Stainless Steel type 304, complying with ASTM A167.

- F. Anchors:
1. Threaded-Type Concrete Inserts: Galvanized ferrous casting, internally threaded to receive 3/4-inch diameter machine bolt; either malleable iron or cast steel.
 2. Wedge-Type Concrete Inserts: Galvanized box-type ferrous casting, designed to accept 3/4-inch diameter bolt having special wedge-shaped head; either malleable iron or cast steel.
 - a. Bolts: Carbon steel bolts having special wedge-shaped heads, nuts, washers and shims.
 3. Slotted-Type Concrete Inserts: Galvanized 1/8-inch-thick pressed steel plate complying with ASTM A 283; box-type welded construction with slot designed to receive 3/4-inch diameter square head bolt and with knockout cover.
 4. Externally Threaded Expansion Bolt Anchors: FS FF-S-325, Group II, Type 4, Class 1.
 5. Internally Threaded Expansion Shield Anchors (For Lag Bolts): FS FF-S-325, Group II, Type 1.
 6. Internally Threaded Expansion Shield Anchors (For Machine Bolts): FS FF-S-325, Group II, Type 2.
- G. Fasteners:
1. Bolts and Nuts: ASTM A 307-12, Grade A, ASTM A563-07a.
 - a. Concealed Bolts: Standard common bolts with lock washers and nuts.
 - b. Exposed Bolts: Torx center pin security head bolts, unless otherwise specified.
 - c. Carriage Bolts:
 - 1) Exposed bolts with lock washers and nuts for mounting of control console to countertop.
 - 2) Plain Washers: Round, general assembly grade carbon steel.
 - 3) Lock Washers: Helical Spring type carbon steel.
 - d. Carbon Steel Fasteners: Zinc plated per ASTM B695 or ASTM F2329.
 - e. Stainless Steel Fasteners: Type 304, ASTM F593-13a.
 2. Machine Screws: ANSI/ASME B18.6.3, ASTM F 835-13.
 - a. Concealed Machine Screws: Torx center pin security head screws, unless otherwise specified.
 - b. Exposed Machine Screws: Torx center pin security head screws, unless otherwise noted.
 - c. Alloy Steel Screws: Zinc plated per ASTM B695 or ASTM F2329.
 - d. Stainless Steel Screws: Type 304, ASTM F879-12.
- H. Paint:
1. Cold Galvanizing Compound: Single component, non-aerosol, compound giving 93 percent pure zinc in dried film, and meeting requirements of DOD-P-21035A (NAVY).

2.03 DETENTION HARDWARE

A. Manufacturers:

1. Hinges: Brookfield, Folger Detention Equipment Company, Maximum Security Products, and Stanley.
2. Continuous Hinges: ABH, Markar, Select
2. Locking Systems and Detention Hardware: Southern Folger Detention Equipment Company.
3. Knob Pulls, Raised Pulls, Flush Pulls, Accessories: Folger Adam Detention Equipment Company, Maximum Security Products.
4. Overhead Stops: ABH, Glynn Johnson

B. General Notes:

1. Locks to have bolt keepers with dust box.
2. Locate centerline of mechanical deadbolt 3'-2" high from top of finished floor unless noted otherwise.
3. Where manual locks require escutcheons or cylinder shields, cylinder shanks shall extend into escutcheons or cylinder shields.
4. Locks: Use 1-1/4 inches extended bolt for stop side mounting.
5. Fill and grind smoothly exposed ends of fasteners at lock mounting plate.
6. Locate centerline of Door Pull 4'-0" from top of finished floor.
7. Maintain a throw of 3/4 inch for all head and foot bolts. If required, customize projection of bolt to field conditions.
 - a. Maximum of 1/4 inch undercut on detention doors having head and foot bolts without thresholds.
8. Unless otherwise indicated, locate hinges as follows:
 - a. Top hinge: 5 inches from top of door to top edge of barrel.
 - b. Bottom hinge: 5 inches from bottom of door to bottom edge of barrel.
 - c. Intermediate hinge: Centered between top and bottom hinges.
9. Surface mount hinges unless specified otherwise.
10. Weld hinges unless specified otherwise.
11. Provide sized overhead stops and closers according to manufacturer's table of sizes unless non-sized or barrier-free closers are specified. Verify with manufacturers, the special templates provided are compatible with the 2-1/4-inch door thickness, 5-inch prison hinge installation, and 3/4 inch stop height. Attach overhead stops and closers to doors with through-bolts.
12. Use proper installation sequence e.g., install overhead stops and coordinators before surface mounted door closers. Where the overhead stop prevents door from swinging to wall, template closer to exceed degree of opening allowed by overhead stop.

C. Detention Hardware Groups:

Manufacturer Basis of Design Abbreviations:

1. ST - Stanley Hinges
2. SF – Southern Folger
3. FA – Folger Adam

4. AH - Architectural Builders Hardware

Set: 1.0

Doors: 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 118

3 Hinge	5" FM-ICS x Sec Torx	630	FA
1 Deadlatch	72 x 70-4DB	ZP	SF
1 Pull/Push	BF94DLL x 73L x RS-2-1353 x Torx	32D	RO

Set: 2.0

Doors: 119, 120A, 120B, 122, 123, 124

1 Continuous Hinge	AC500	630	AH
1 Deadlatch	66K x Double SK x 60-4DB	ZP	SF
1 Wall Stop	1841	US32D	AH

Set: 2.1

Doors: 101A, S05

3 Hinge	5" FM-ICS x Sec Torx	630	FA
1 Deadlatch	66K x Double SK x 60-4DB	ZP	SF
1 Wall Stop	1841	US32D	AH

Set: 3.0

Doors: 120C, 120D,

1 Continuous Hinge	AC500	630	AH
1 Deadlatch	66K x Double SK x 60-4DB	ZP	SF
1 Surf Overhead Stop	HD7022 SEC THICK	US32D	AH

Set: 3.1

Doors: 101B, 121

3 Hinge	5" FM-ICS x Sec Torx	630	FA
1 Deadlatch	66K x Double SK x 60-4DB	ZP	SF
1 Surf Overhead Stop	HD7022 SEC THICK	US32D	AH

Set: 4.0

Doors: 120E

3 Hinge	5" FM-ICS x Sec Torx	630	FA
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1 Deadlock	82 x 80-4DB	ZP	FA
1 Pull	#2	32D	FA
1 Wall Stop	1841	US32D	AH

2.04 FABRICATION AND MANUFACTURE

A. General:

1. Fabrication: Fabricate members straight, true, and free from dents, buckle, twist, and rough/sharp edges. Where exposed in finished spaces, fit joints to provide tight metal-to-metal fit. Make connections by welding, or by equally secured and approved method that will rigidly hold the members in position so that their full strength will be utilized; use the approved detention equipment manufacturer’s standard shapes and methods, unless otherwise specified or indicated. Fill gaps and seams flush with Type S-6 Sealant (unless noted otherwise) prior to finish painting. Reinforce, cut, drill and tap members as required to receive hardware, removable glazing stops, and accessories.
2. Welding: Welds shall show uniform section and deep penetration. Finish welds smooth and clean spatter off so that surfaces are ready for primer and finish paint. Unless noted otherwise, provide appropriate weld, 2 inches long, 8 inches on center.
 - a. Each hinge leaf, requiring a welded application, shall have continuous welds three sides.
 - b. Hinge leaf’s: Full sized, or one leaf is full size, and the other one is 1-1/2 inches minimum to centerline of barrel sized to fit frame.
3. Rivets and Riveting:
 - a. Rivets: 3/8-inch diameter, countersunk flush type, and spaced 4 to 6 inches on center as the nature of the Work requires. Diameter of holes for rivets shall not exceed rivet diameter by more than 1/16 inch. Holes not in true alignment shall be reamed; drifting or gouging will not be permitted.
 - b. Riveting: Drive rivets down to completely fill holes. Replace loose rivets and those with imperfect heads, or without firm bearing on metal, with good rivets.
4. Bolting: Use only where indicated or approved, and only where nuts are not accessible to inmates or exposed to public view. Draw nuts up tight and batter threads, unless otherwise indicated.
5. Cutting and Drilling for Others: Cut, drill and tap the Work of this Section as required to receive items provided under Related Contracts.
6. Prepare and reinforce doors to receive surface, mortised, and concealed hardware.
 - a. 10 gage plate unless noted otherwise.
 - b. 2 x 2 x 3/16x10-1/2 inches steel tube for surface mounted pulls.

B. Galvanizing: Galvanize items specified or indicated to be galvanized.

1. Process: Hot-dip process, after fabrication of items. Comply with the following:
 - a. ASTM A 123 for plain and fabricated material and assembled products.
 - b. ASTM A 153 for iron and steel hardware.

- C. Shop Painting:
1. Thoroughly clean all surfaces of ferrous metal, removing rust, scale, and other deleterious material.
 - a. Galvanized Metal: Rinse in hot alkali or in an acid solution, and then in clear water. When dry, repair final assembly welds and abraded areas with a 2.0 mil thick dry film coating of cold galvanizing compound applied in accordance with compound manufacturer's instructions.
 2. Apply one coat of shop paint to all surfaces of ferrous metal, except as otherwise required for moving parts and except for surfaces to be embedded in concrete or masonry or to be field welded after fabrication in accordance with the paint manufacturer's instructions and at a rate to provide a uniform minimum wet film thickness of 3.0 mils.
 - a. Hollow Steel Doors: Paint all inner surfaces of doors before insulation and second face panel is installed.
 - b. Finish paint inside of control cabinets with manufacturer's standard gray enamel system.
- D. Factory Finishing for Stainless Steel Doors and Frames: (openings 119, 122 and 124 only).
1. Thoroughly clean all surfaces of ferrous metal, removing rust, scale, and other deleterious material.
 2. Factory powder coat in the color selected by the Owner's representative.
- E. Swinging Hollow Steel Doors: Flush type, 2 inches thick. Doors shall have not more than 1/8-inch clearance from frame, unless otherwise indicated. On doors without thresholds, bottom clearance to finish floor is 3/4 inch maximum, maximum of 1/4 inch on doors having head and foot bolts.
1. Framing: Frame doors with 2 x 1 x 3/16 inches steel channels on all four edges, four intermediate 2 x 1 x 3/16 inches steel channels extending horizontally the full width of the door. Doors with a lock box shall have a 2 x 1/2 inches steel bar on lock edge and steel channels on other three edges. Locate two of the intermediate channels about 4 inches above and below the centerline of the door, or at the top and bottom of the lock box if required, and the other two halfway between these and the top and bottom of the door. Extend legs of perimeter channels inward and miter at corners. Cope legs to fit intermediate channels. Set channels at top, bottom and lock edge 1/8 inch back from edge of face panels opposite stop side to allow for welding; set channel back at hinge edge to receive leaves of mortised hinges. Fill out spaces above, below, and between hinges with steel bar riveted to the channel. Reinforce for full surface hinge application with 2 x 2 x 3/16 x 6-inch-long steel tubes. Weld junctions of all channels.
 2. Insulation: Fully fill doors with non-combustible mineral wool fiber materials having a minimum thermal resistance, R-value of 4.1 per inch, unless otherwise indicated.
 3. Face Panels: Weld 10 gage (except doors 119, 120A, 120B, 122, 123, 124, 120C and 120D are to have 12 gage faces), single sheet steel panel on each door face. Weld the back of one panel to framing; plug and weld the other panel to framing. Make inner welds at least 1/2 inch long on alternate sides of channels and spaced 6 inches oc. Plug welds shall have

- equivalent strength of inner welds. Weld panel edges to the perimeter frame.
4. Observation Light: Frame opening with 2 x 1 x 3/16 inches steel channels on all four sides. Cut face panels for light and weld panel edges to frame. Unless otherwise indicated, weld to door 1/4-inch continuous bent steel plate “Z” shaped stop to perimeter of opening, drilled and tapped for fasteners, and provide 1-1/2 x 1-1/4 inches continuous steel bar stop (LLV) attached with 5/16-inch diameter high strength tamper resistant machine screws 4 inches on center maximum, 2 inches maximum from end on threat side of door.
 5. Prepare and reinforce doors to receive surface, mortised, and concealed hardware.
 8. View Window: Steel framed opening, 1/8-inch-thick sliding steel plate door, S-9 security glazing and accessories as indicated.
 9. Speak Port: Steel framed opening adjacent to view window as detailed.
 10. Doors 122, 119 and 214 are to be manufactured out of 304 Stainless Steel.
- F. Structural Steel Door Frames: Fabricate of structural shapes and bars as specified or indicated, square, true, uniform, and fully welded. Ship with temporary spreader at bottom.
1. Stops: 1-1/2 x 3/4 inches steel bar, plug welded to frame on not more than 8-inch centers.
 2. Floor Anchors: Steel angle clip welded to the back of frame at bottom of each jamb. Prepare clips for anchorage to floor construction indicated.
 3. Jamb Anchors: 2 x 1/4 inches steel strap anchors, not less than 8 inches long and terminating with 1 inch bent end, welded to jambs. Anchors should be fixed for concrete walls and adjustable type for masonry walls. Anchors, for exterior frames in concrete masonry unit construction, shall extend into cells (cores) as indicated. Space anchors not exceeding 16 inches oc, with no less than 4 anchors per jamb.
 4. In-Place Masonry Construction Jamb Anchors: 3/8-inch diameter Type 304 stainless steel button head machine bolts and expansion shields, spaced not exceeding 16 inches oc, with not less than 4 anchors per jamb.
 5. Prepare frames to receive and accommodate required hardware and other items. Form slots in frames to serve as hardware strikes, unless otherwise indicated. Weld 12 gage steel box closures on the back of frame where slots for hardware occur.
 6. Frames for openings 122, 119 and 124 are to be manufactured out of 304 Stainless Steel.
- G. Fire Rated Doors and Frames: Materials and general construction as specified for swinging hollow steel doors and structural steel door frames.
1. Fire ratings up to three hours, tested in accordance with UL Bulletin No. UL10C or NFPA 252.
 2. Manufacturers: Maximum Security Products Corporation, American Jail Products LLC, and the G-S Company.
 3. Attach UL labels to hinge side of the door, and to jamb of frame.

PART 3 EXECUTION

3.01 DETENTION EQUIPMENT INSTALLATION

- A. Install the Work of this Section in its designed position, plumb, level, square, straight and true, and in accordance with the manufacturer's installation instructions and approved shop drawings.
- B. Brace assembled fabrications until permanently secured in place to prevent displacement or distortion of the members.
- C. Comply with the requirements of the FABRICATION AND MANUFACTURE Article. Touch-up abraded areas and areas of field welding as required, with compatible primer and finish paint, or cold galvanizing compound.
 - 1. For exposed galvanized items, touch-ups shall include the full width and length of the face of steel in the area of abrasion and welds. Brush apply cold galvanizing compound in accordance with ASTM A780 requirements to a 3.0 mil dry film thickness.
- D. Use only rotary power drills where masonry or concrete is required to be drilled. Drill holes to exact size required.
- E. Perform welding in accordance with the AWS Codes. When welding hinges, attach ground to prevent welding current from being carried through the hinge barrel.
- F. Neatly install and securely fasten hardware. Use proper tools and methods and temporary protective covers to keep polished hardware and handles free from scratches and defacement.
 - 1. Installation Sequence: Use proper installation sequence e.g., install overhead stops and coordinators before surface mounted door closers.
 - 2. Template door closers for maximum door swing allowed by wall placement and jamb conditions. Where the overhead stop prevents door from swinging to wall, template closer to exceed degree of opening allowed by overhead stop. Verify with closer/overhead stop manufacturers, the special templates provided are compatible with 2-1/4-inch door thickness and 5-inch prison hinge installation.
 - 3. Attach closers and overhead stops to doors with through-bolts/SNB.
 - 4. Set exterior thresholds in a full bed of Type 3 Sealant.
- G. Attach cell numbers to front of track box with Torx center pin security head machine screws or rivets.
- H. Install side hinged doors and gates shall without hinge bind, nor sprung, nor travel or drift more than 5 degrees of arc in either direction when placed in any stationary position of its swing. Verify before closer installation.

3.02 ADJUSTING

- A. Adjust operative units and equipment to work freely and easily, ready for use. Field lubricate operating and locking systems in accordance with the

manufacturer's maintenance instructions. Adjust equipment when the temperature is approximately 70 degrees F.

END OF SECTION

SECTION 224600

SECURITY PLUMBING FIXTURES

PART 1 GENERAL

1.01 SUBMITTALS

- A. Product Data: Catalog sheets, specifications, roughing dimensions, and installation instructions for each item specified except fasteners.
 - 1. Deliver cut out data for countertop fixtures to the Director's Representative.

1.02 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Comply with applicable requirements of FS WW-P-541, and the following standards:
 - 2. Materials and installations designated as handicapped accessible shall conform with the following:
 - a. ANSI A117.1 - Buildings and Facilities - Providing Accessibility and Usability for Physically Handicapped People.
 - b. The Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities (ADAAG), (Appendix A to 28 CFR Part 36).
 - c. The Uniform Federal Accessibility Standards (UFAS), (Appendix A to 41 CFR Part 101-19.6).
 - 3. Each fixture carrier support shall be listed by model number in the fixture support manufacturer's Fixture Support Selection Guide as being recommended for support of the appropriate fixture.
- B. Plainly and permanently mark each fixture and fitting with the manufacturer's name or trade mark.

1.03 MAINTENANCE

- A. Special Tools: Deliver to the Director's Representative.
 - 1. Furnish the following tools labeled with names and locations where used.
 - a. Keys for stops (furnished with stops).
 - b. Tools for Vandal Resistant Fasteners: Two for each type and size.

PART 2 PRODUCTS

2.01 MATERIALS - GENERAL

- A. Stainless Steel: AISI Type 304, 14 gauge, satin finish, except as otherwise specified.

- B. Fixture Trim: Brass, bronze, or stainless steel construction; consisting of supply and waste fittings, faucets, traps, stop valves, escutcheons, sink strainers, nipples, supplies, and metal trim.
 - 1. Brass piping: Ips standard weight, with standard weight, 125 lb cast brass fittings.
 - 2. Brass tubing: 18 B & S gage.
 - 3. Stainless steel: 18-8 AISI Type 302 or 304 unless otherwise specified.
- C. Fixture Trim Finishes:
 - 1. Brass or Bronze: Polished or satin finished chrome plating, 0.02 mil chromium over 0.2 mil nickel plating.
 - 2. Stainless Steel: Invisible welds and seams, and unless otherwise specified, polished to No. 4 commercial finish.
- D. Combination Faucets: Faucets shall turn counter to each other for the on and off positions.
- E. Vandal Resistant Fasteners: Torx head with center pin.
- F. Acorn, Master-Trol PLUS handheld programmer #MTP-CPT

2.02 STAINLESS STEEL HANDICAPPED ACCESSIBLE LAVATORIES

- A. Acorn's LR1652-1-MTPP2-BRS-TF-LW1-MT Individual Security Type Handicapped Accessible Lavatory, 18 inches wide overall, with the following features:
 - 1. Fabricate from 14 ga Type 304 stainless steel, seamless welded with exposed surfaces satin finished.
 - 2. Oval bowl, 14-3/4 inches x 9-1/2 inches x 4-1/2 inches deep.
 - 3. Integral air-circulating, self-draining soap dish.
 - 4. Master-Trol PLUS hot and cold supply valve with piezo buttons.
 - 5. Fully enclosed cabinet bottom, concealing bottom of bowl, all piping, and with no accessible voids or crevices throughout.
 - 6. Sound-deadened interior with fire resistant materials.
 - 7. Furnish lavatory waste thru-wall waste extension with p-trap and metal template (only 1 required per project).
 - 8.
- B. Drain Assembly:
 - 1. Perforated stainless steel strainer and tailpiece.
 - 2. Cast brass non-adjustable P trap with bottom cleanout.

2.03 STAINLESS STEEL COMBINATION SECURITY FIXTURES

- A. Acorn's Model LR1415-CT-2-MTPP2-BRS-TF-1.28-MTPPFV-PH-LW1-FVT-WO3B-MT Ligature Resistant Combination Security Type Lavatory-Water Closet, with toilet centered as indicated, and with the following features:
 - 1. Toilet:
 - a. Water consumption 1.28 gallons of water or less per flush with Master-Trol PLUS electronic flush valve with piezo button and flush valve thru wall connector.

- b. Blowout type, concealed wall supply, floor mounting, wall outlet.
 - c. Seamless welded Type 304 stainless steel construction, with satin finished exterior except integral contoured seat shall have sanitary high polished finish.
 - d. Elongated bowl.
 - e. Trap: Minimum 3-1/2 inch seal, capable of passing a 2-1/8 inch ball. Waste outlet 2-3/8 inch diameter to 3 inch plain end.
 - f. Paper holder centered.
- 2. Lavatory:
 - a. Oval bowl.
 - b. Master-Trol PLUS hot and cold supply valve with piezo buttons.
 - 3. Fixture shall withstand loadings up to 2,000 lbs with no measurable deflection, and loadings up to 5,000 lbs with no permanent damage.

2.04 STAINLESS STEEL SHOWER STALL FOR THE HANDICAPPED

- A. Acorn's Model 1736ADA-A-SLR-PWN-MTPP1-BRS-TF-CSH-FH-KD-LFS-LGB2-LGBV-LRD, ADA Compliant Cabinet Shower, with the following features:
 - 1. Fabricated from 14 gauge, type 304 stainless steel with exposed sides of the exterior and the interior having a #4 satin finish.
 - 2. Conical Showerheads are chrome-plated brass and are Ligature-Resistant with a non-adjustable multi-stream spray. Shower Panel includes a ligature resistant fixed rear mount Showerhead provided at a 72" discharge height and 48".
 - 3. Shower Floor fabricated from 12 gage stainless steel with a slip resistant surface and stainless steel reinforcing. Integral Drain is supplied with a removable Grid Strainer and provides for an inside caulk connection to 2" pipe. The shower threshold is 2" high and requires the unit to be recessed into the floor 1-1/2" or be provided with a ramp by others that complies with ADA Accessibility Guidelines.
 - 4. Valve: Master-Trol PLUS, single temperature delivery to conical shower heads with electronic Piezo buttons.
 - 5. Regularly furnished items include an ADA compliant brass Control Valve, transformer 120VAC to 24 VAC, less soap dish, metal template (only 1 required per project), Conical Showerheads, Mounting Bracket, and Mounting Hardware. Refer to accessibility standards and guidelines for additional installation requirements. Fixed stainless steel seat opposite shower location, less recessed soap dish, less two-wall grab bar, less 24" vertical grab bar and knock down cabinet.
 - 6. The contractor to field verify if closer plates are required and provide as needed.
 - 7. Custom fixed ADA shower seat. Fabricated from 14 gauge stainless steel with exposed surfaces polished to a satin finish. Edge of seat to be 3" inbound of shower enclosure.

2.05 STAINLESS STEEL WALL SHOWER FOR THE HANDICAPPED

- A. Acorn's Model LR1741ADA-MTPP1-BRS-TF-LRD-MT, ADA Compliant Wall Shower, with the following features:

1. Ligature Resistant Shower designed to be installed on a finished wall and serviced from an accessible pipe chase. The fixture is fabricated from 14 gauge, type 304 stainless steel and the exterior has a #4 satin finish. Unit conforms with ANSI, UFAS and ADA requirements for accessibility.
2. Conical Showerheads are chrome-plated brass and are Ligature-Resistant with a non-adjustable multi-stream spray. Shower Panel includes a ligature resistant fixed rear mount Showerhead provided at a 72" discharge height and 48".
3. Valve: Master-Trol PLUS, single temperature delivery to conical shower heads with electronic Piezo buttons.
4. Regularly furnished items include an ADA compliant brass Control Valve, transformer 120VAC to 24 VAC, less soap dish, metal template (only 1 required per project), Conical Showerheads, Mounting Bracket, and Mounting Hardware. Refer to accessibility standards and guidelines for additional installation requirements. Less recessed soap dish.

2.06 ADA DRINKING FOUNTAIN

- A. Acorn's Model LR1672-1-MTPP1-BRS-TF-LW1-MT, with the following features:
 1. Ligature resistant fixture is designed to be installed and serviced from an accessible pipe chase. Fixture is fabricated from 14 gage, type 304 stainless steel and is seamless welded construction with a satin finish. Cabinet interior is sound-deadened with fire-resistant material. There are no accessible voids or crevices where contraband can be concealed. Unit conforms with ANSI, UFAS and ADA requirements for accessibility.
 2. Countertop has a deck-mounted bubbler.
 3. Bowl is multi-sided. Standard waste outlet is 1-1/2" plain end and extends 10" beyond the back of the fixture.
 4. Valve: Master-Trol PLUS, brass body valve, single temperature electronic piezo button. Valve is direct acting, non-metering type, with bubbler that both conform with lead free requirements of NSF61. Pushbutton is vandal resistant and requires less than 5lbs to operate.
 5. Regularly furnished items include a fast drain, plain end elbow waste, hemispherical bubbler, push button, mounting hardware for walls up to 8" thick, transformer 120VAC to 24 VAC, metal template (only 1 required per project) and thru-wall waste extension with p-trap.
 6. Refer to architectural drawings for modified LR1672 requirements.

2.07 DRINKING FOUNTAIN

- A. Acorn's Model LR1671-1-MTPP1-BRS-TF-PT-MT, with the following features:
 1. Ligature resistant fixture is designed to be installed and serviced from an accessible pipe chase. Fixture is fabricated from 14 gage, type 304 stainless steel and is seamless welded construction with a satin finish. Cabinet interior is sound-deadened with fire-resistant material. Fixture shall be furnished with necessary fasteners for proper installation. Valve and bubbler conform with lead free requirements of NSF61.
 2. Sloped desk is provided with a ligature resistant deck mounted drinking bubbler.
 3. Ligature resistant bottle filler.

4. Bowl comes standard with a ligature resistant drain and a close elbow that accepts 1-1/2" waste by others.
5. Valve: Master-Trol PLUS, brass body valve, single temperature electronic piezo button. Valve is direct acting, non-metering type, with bubbler that both conform with lead free requirements of NSF61. Pushbutton is vandal resistant and requires less than 5lbs to operate.
6. Regularly furnished items include a fast drain, plain end elbow waste, hemispherical bubbler, push button, mounting hardware for walls up to 8" thick, transformer 120VAC to 24 VAC and metal template (only 1 required per project).

2.08 TEMPLATES

- A. One for each type of fixture specified.

2.09 LAVATORY CONTROLS

- A. Provide the following for each lavatory:
 1. Metering Valves:
 - a. Construction:
 - 1) Body with Integral Checkstops, and Strainer: Brass or bronze.
 - 2) Push-button and Strainer Screen: Stainless steel.
 - 3) Master-Trol PLUS electric piezo push buttons.
 - 4) Air and Water Feed Lines: FDA approved polyethylene tubing.
 - 5) Braided stainless steel flexible 1/2 inch id. connections at hot and cold water supplies to valve.
 - b. Operation: Master-Trol Plus electric piezo button, hot and cold mixing, non-hold open type, hand push-button operation requiring less than 5 lbs of force to actuate. Valve capable of remote mounting (up to 10 feet) from actuation push-button.
 - 1) Timing Cycle: Adjustable from two seconds to over one minute delivering full flow during the entire cycle.
 - a) Maximum Flow: 0.25 gallons per cycle.
 - 2) All adjustments shall be concealed.

2.10 FIXTURE WATER MANAGEMENT SYSTEM

- A. MASTER-TROL Plus System
 1. A water management system that provides control over the water usage in a facility. This electronic controller and valve system can be installed in multiple configurations. The installation of the Acorn Master-Trol PLUS water management system shall include electronic valve controllers that are microprocessor driven and powered by 120V/24VAC 50VA Class 2 UL/CSA listed transformers. Electronic valve controller can simultaneously direct up to 12 valves. All controller enclosures will have a minimum IP54 rating. Programmed settings will be retained in controller regardless of power loss. A soft closing solenoid operated valves and electronic flush valves shall be operated by means of vandal resistant stainless steel piezo push buttons. All connectors to be quick-disconnect

plug type. All components must be installed according to the National Electrical Code and local codes.

- B. MASTER-TROL Plus Controller
 - 1. A modular device that consists of a main module and sub-modules. The main module can be installed alone and provide control of up to 4 solenoid valves. If more capacity is required, sub-modules can be added to provide control over more valves. Each main module can support up to 2 sub-modules and each sub-module adds and additional 4 ports. The main module and sub-module combinations can provide controllers with capacities for 4, 8 and 12 valves. All controller enclosures will have a minimum IP54 rating.
- C. FACTORY WIRING
 - 1. Provide factory wiring harness for connecting main controller, sub-module, transformer, solenoid valves/branch boxes and piezo push buttons. Wiring harness shall include the necessary wiring terminations for each connected device. Wiring harness shall be factory tested prior to shipment. Field wiring of main controller, sub-module, transformer, solenoid valve/branch boxes and piezo push buttons with wiring not furnished by the fixture water management system manufacturer will not be accepted.

2.11 FLOOR DRAIN

- A. Drain Body: Coated cast iron, two-piece body with minimum 7 inch dia drainage flange, corrosion resistant bolts, weep holes, bottom outlet, and connection to match piping option selected.
- B. Strainer Head: Round, minimum 6 inch dia, nickel bronze with threaded shank for height adjustment.
- C. Strainer Grate: Polished nickel bronze, heel proof; secured with stainless steel vandal resistant fasteners.
- D. Acceptable Drain Series: Watts #FD-200A

2.12 CLEANOUT

- A. Threaded pipe fitting or cast iron ferrule with gas tight bronze cleanout plug.

PART 3 EXECUTION

3.01 FIXTURE INSTALLATION

- A. Install the Work of this section in accordance with the manufacturer's printed installation instructions.
- B. Install fixtures level and at proper height, tighten connections, and install hold-down bolts, cap nuts and cover plates, where required.

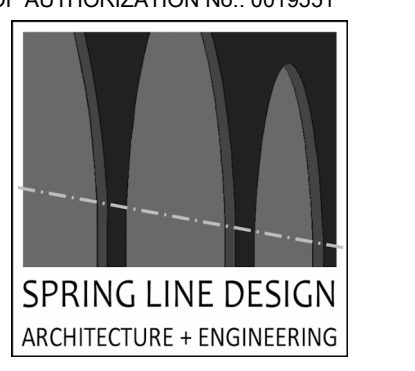
- C. Secure exposed external components in place with vandal resistant fasteners or devices which cannot be removed without the use of special tools.
- D. Lavatories:
 - 1. Mount handicapped accessible fixtures 34 inches from finished floor to rim.
 - 2. Caulk joint between fixture back and wall with Type 6 sealant; strike a neat joint.
- E. Water Closets:
 - 1. Floor Supported Fixtures:
 - a. Set fixture in bed of setting compound; remove excess.
 - b. Caulk base perimeter with Type 6 sealant; strike a neat joint.
 - 2. After connections are tightened, install cap nuts and washers.
- F. Flush Valves:
 - 1. Handicapped Accessible Fixtures: Install flush valves on fixture centerline, and at following heights above finished floor to centerline of flush valve operator. Distance between centerline of flush valve operator and centerline of water inlet is 1-1/2 inches.

3.02 CLEANING, FLUSHING AND ADJUSTMENT

- A. Clean fixture and trim. Remove grease and dirt; polish surfaces but leave stickers and warning labels intact.
- B. Flush supply piping and traps; clean strainers.
- C. Adjust stops for proper delivery.
- D. Adjust metering faucets for proper timing.

END OF SECTION

CONSULTANT
CERTIFICATE OF AUTHORIZATION No.: 0019551



ENERGY CODE COMPLIANCE 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 ENERGY CODE OF NEW YORK STATE.

UNIFORM CODE COMPLIANCE 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 OF NEW YORK STATE.

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: REPAIR HVAC CONTROLS & REHABILITATE BEDROOMS & BATHROOMS

LOCATION: GOSHEN SECURE CENTER
97 CROSS ROAD,
GOSHEN NY

CLIENT: NYS OFFICE OF GENERAL SERVICES

REVISED DRAWING 03/27/2025

MARK	DATE	DESCRIPTION
▲	03/27/2025	ADDENDUM 1
	02/17/2025	BID DOCUMENT

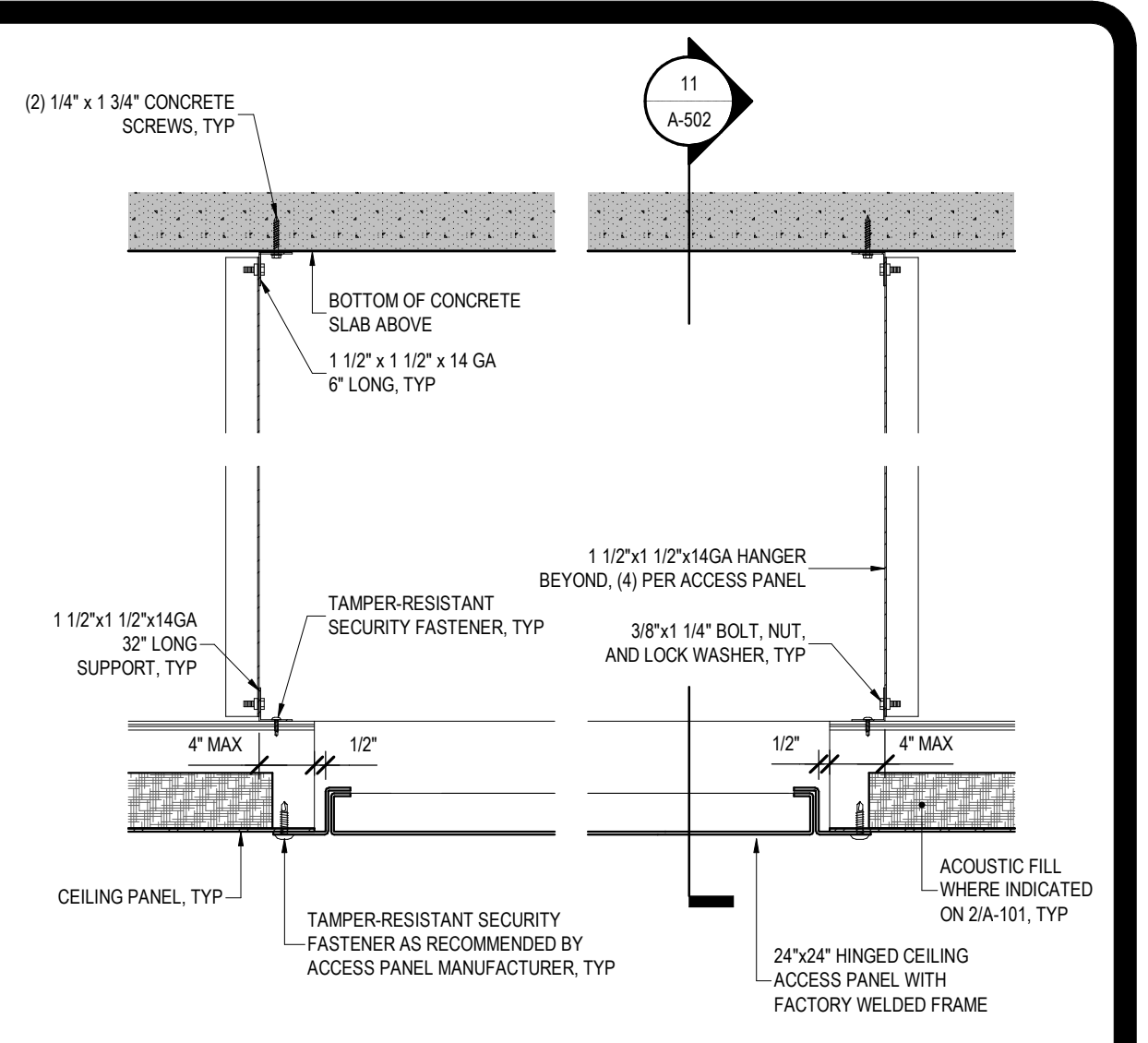
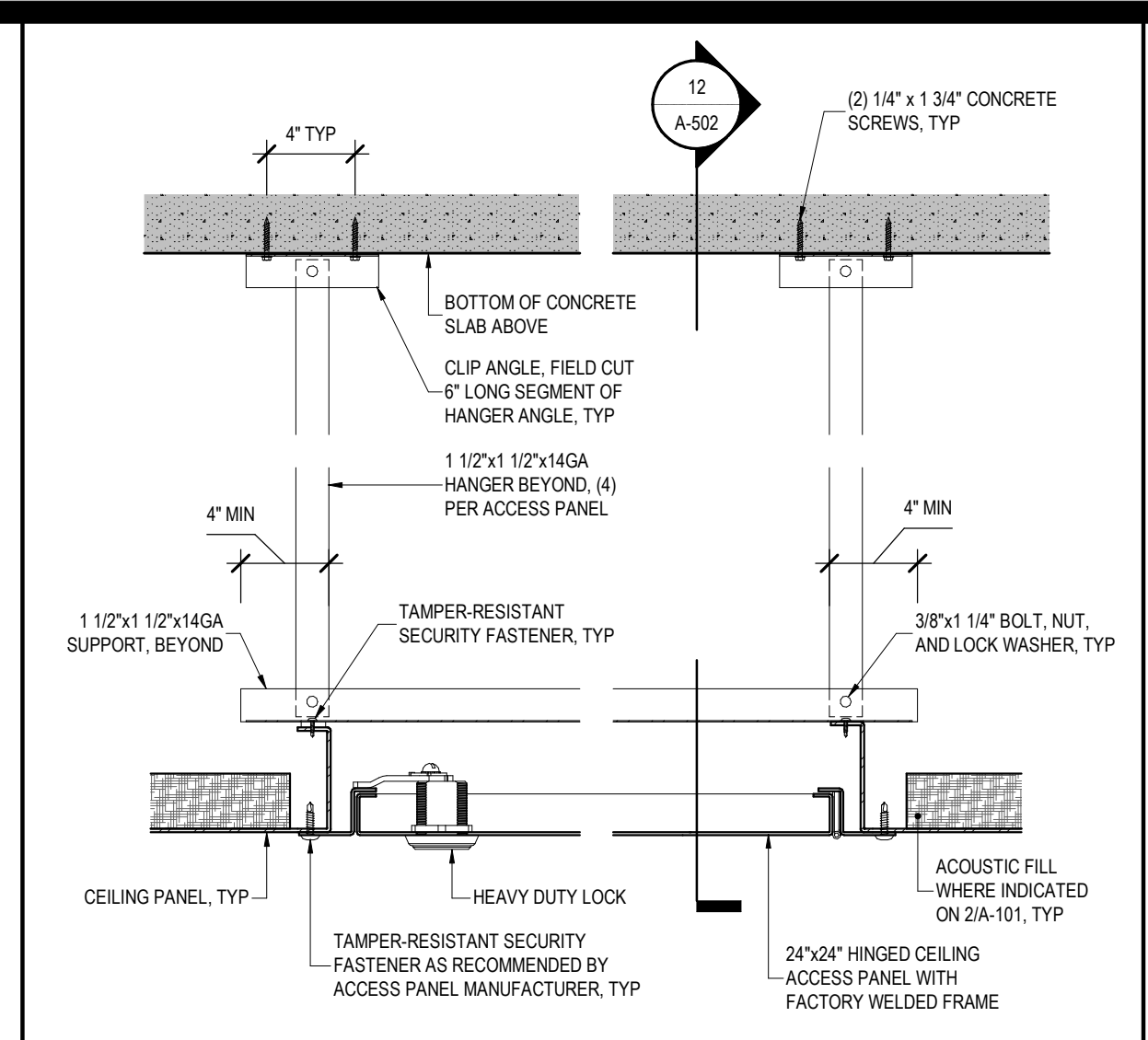
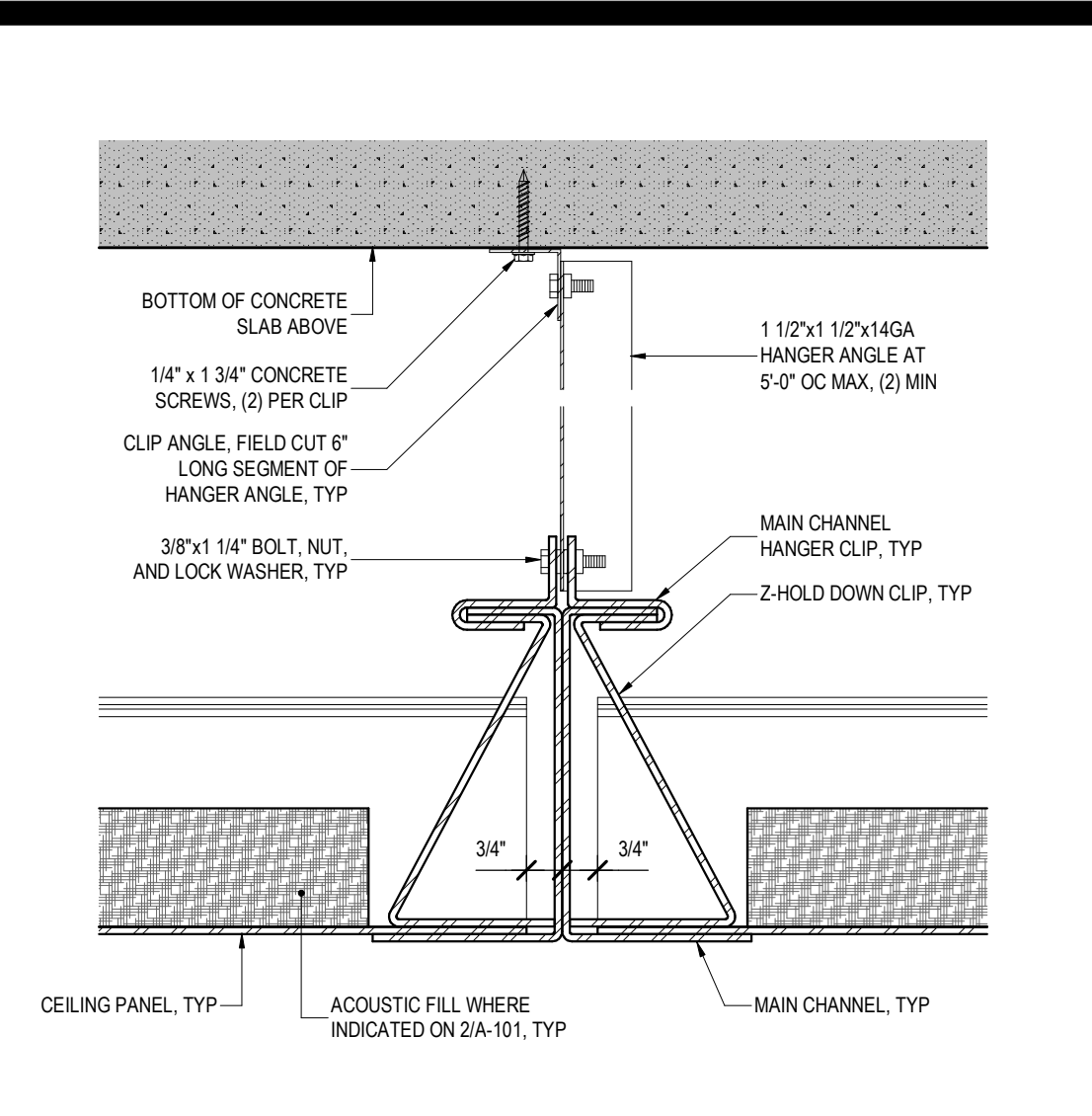
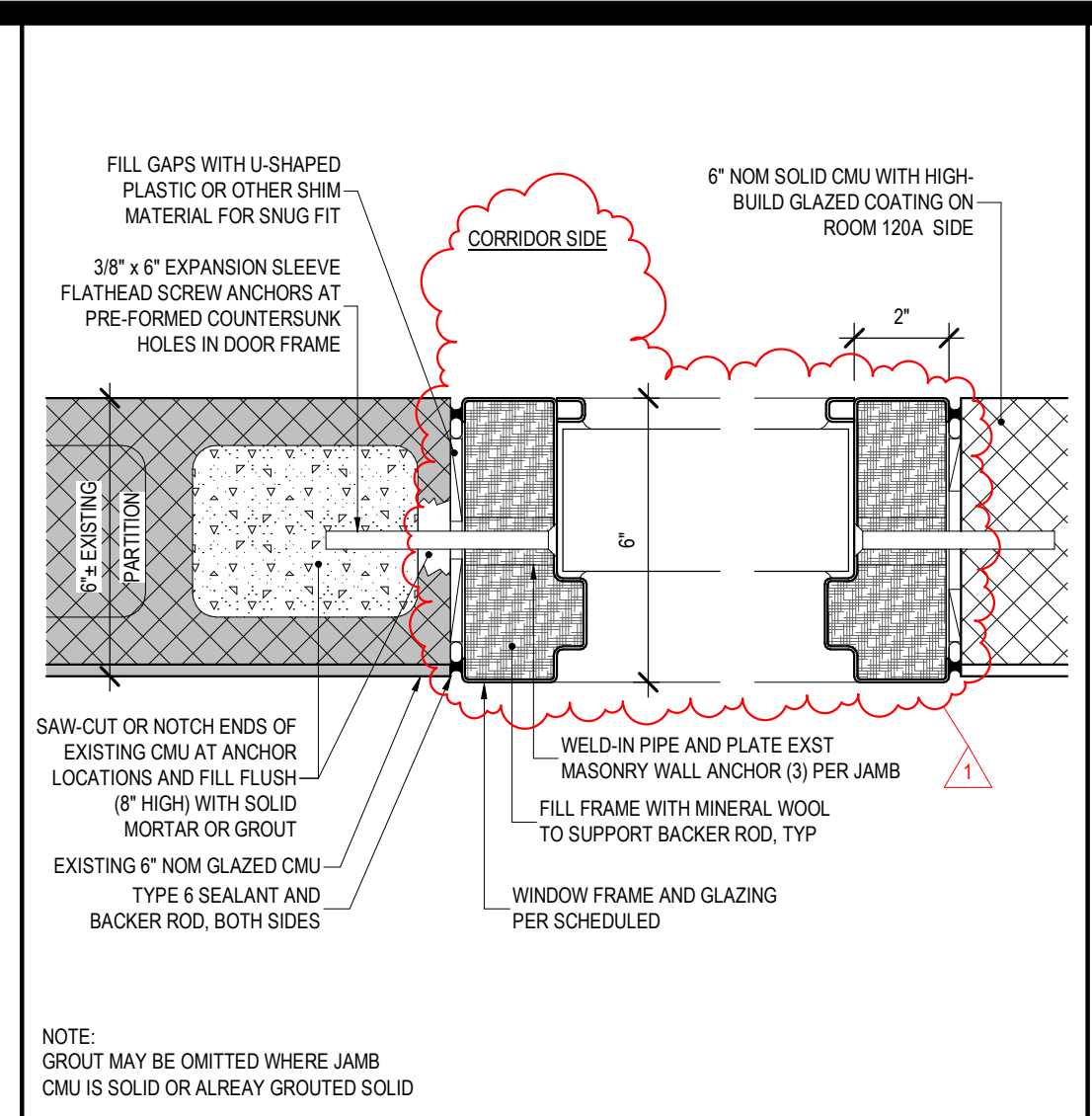
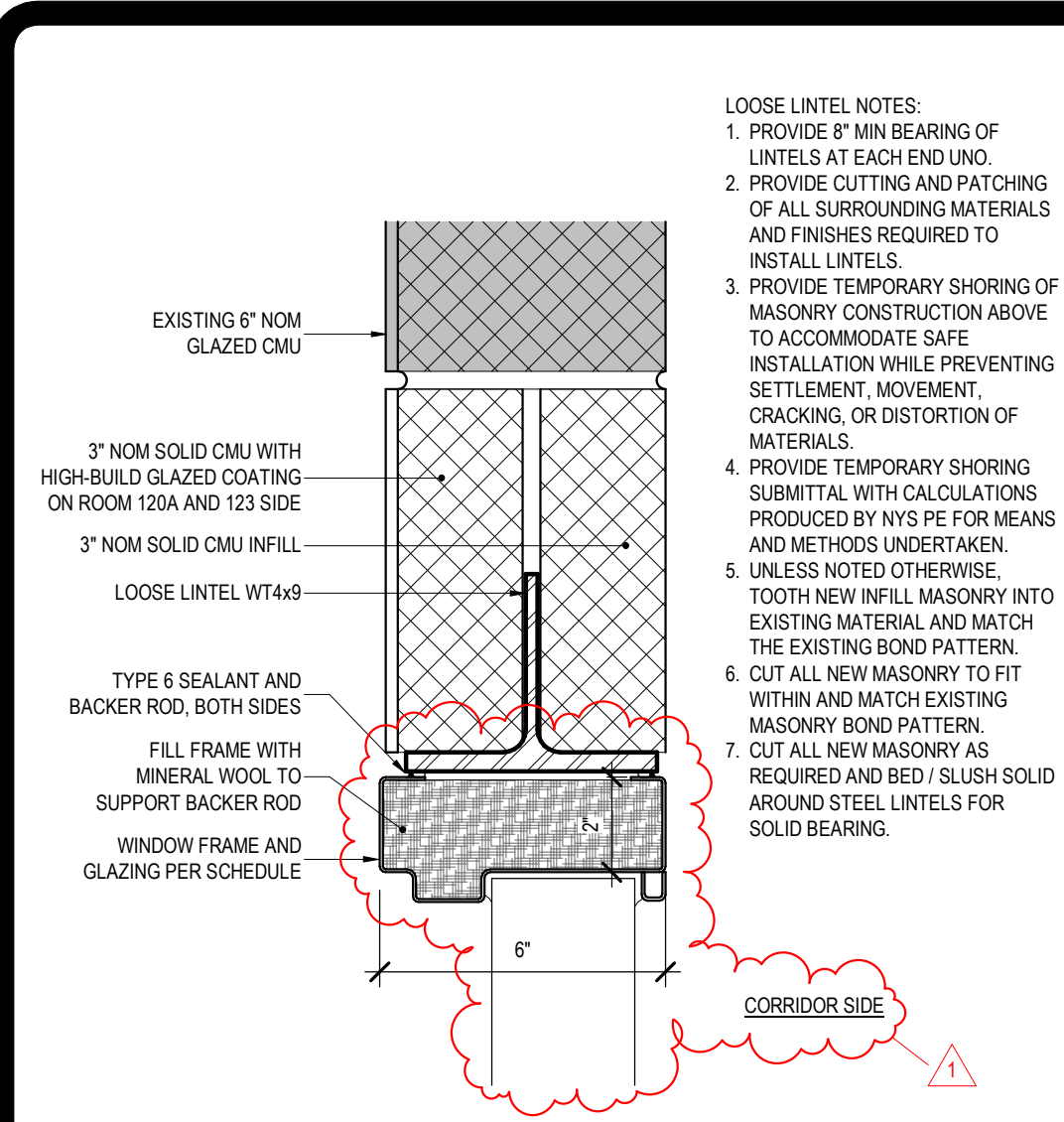
PROJECT NUMBER: **Q1874 - C**

DESIGNED BY: KK
DRAWN BY: WA
FIELD CHECK:
APPROVED:

SHEET TITLE: **DETAILS-2**

DRAWING NUMBER: **A-502**

SHEET 11 OF 44



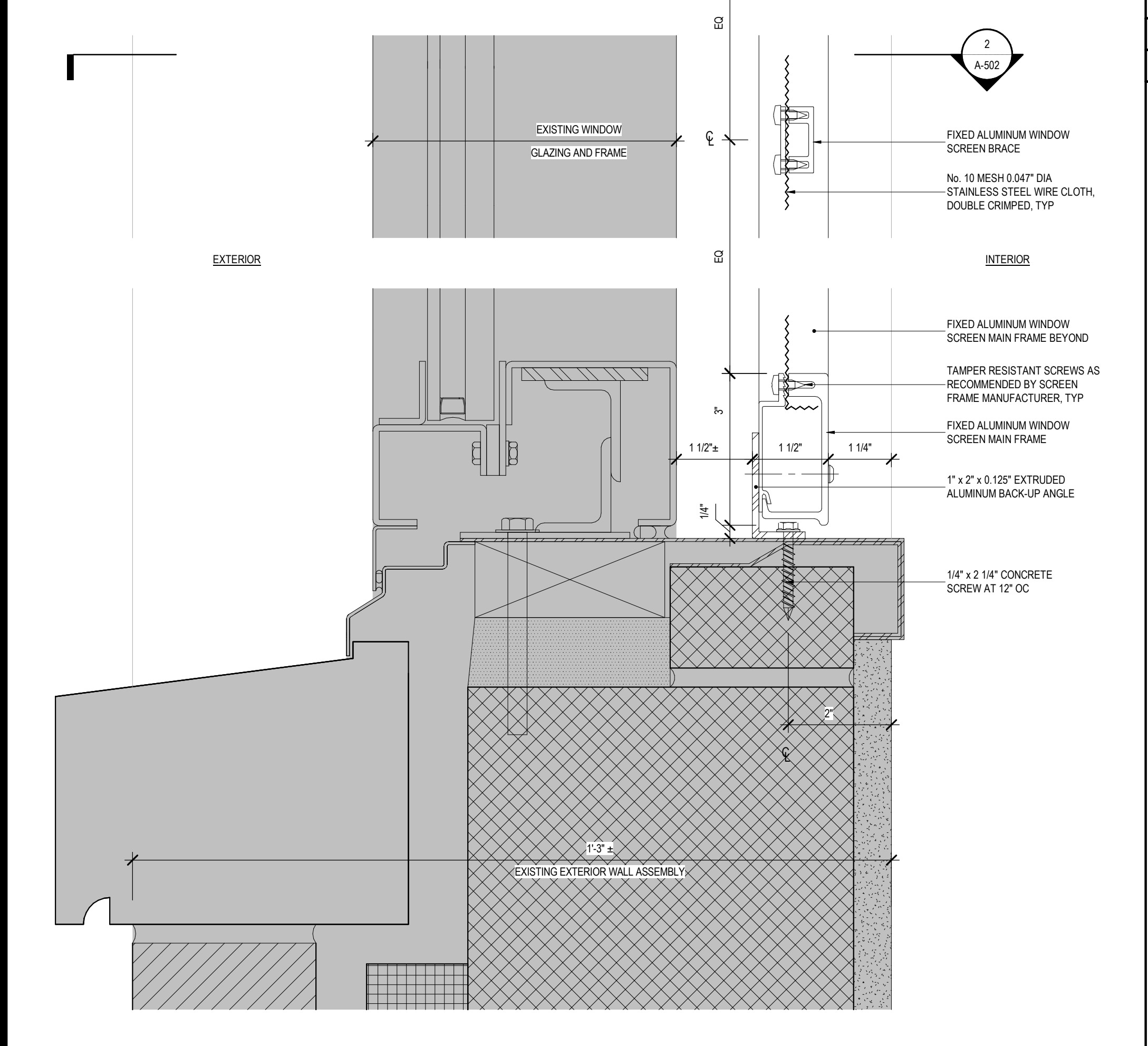
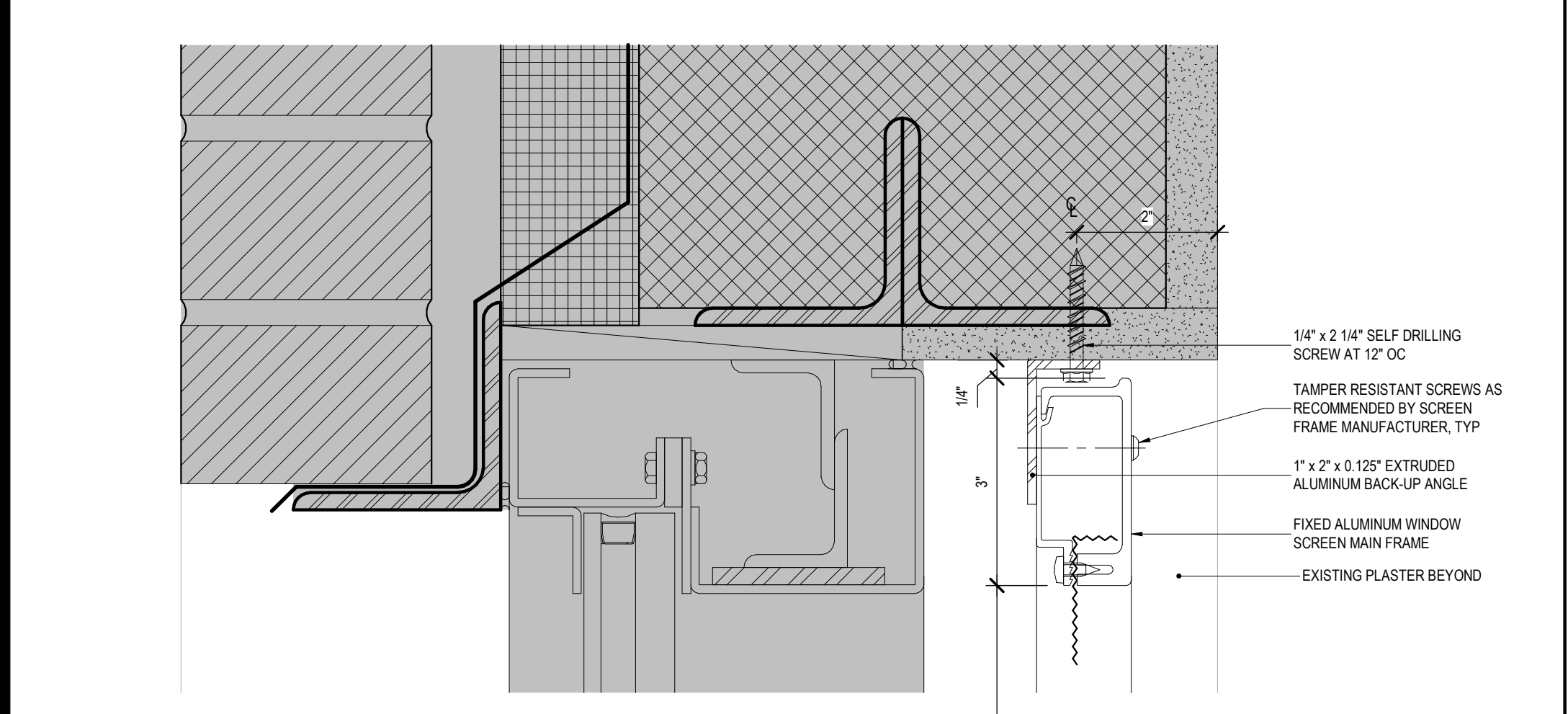
8 TYPICAL WINDOW HEAD
REF: 4 / A-601 SCALE: 3" = 1'-0"

9 INTERIOR WINDOW JAMB
REF: 4 / A-601 SCALE: 3" = 1'-0"

10 METAL PANEL CEILING MAIN TEE
REF: 2 / A-101 SCALE: 3" = 1'-0"

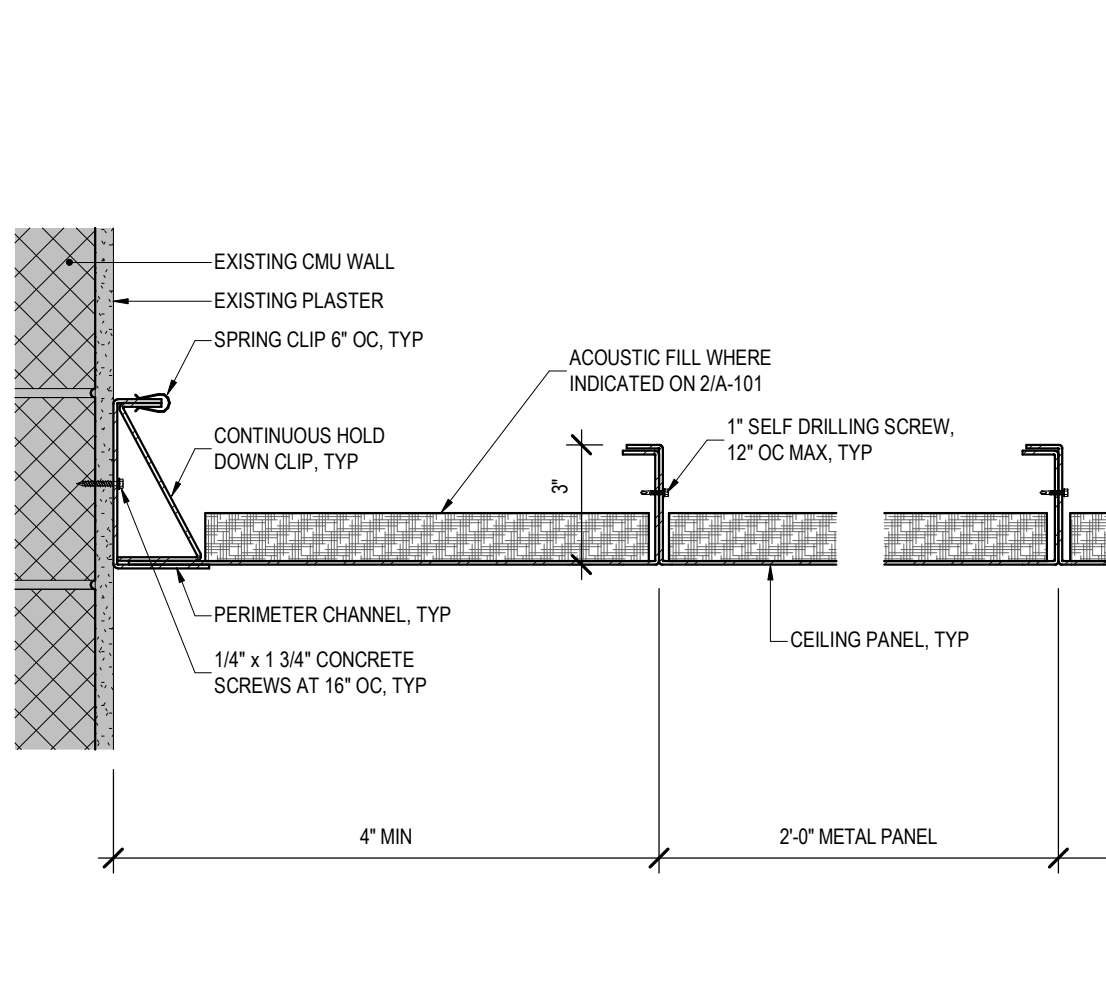
11 CEILING ACCESS PANEL DETAIL 1
REF: 2 / A-101 SCALE: 1 1/2" = 1'-0"

12 CEILING ACCESS PANEL DETAIL 2
REF: 2 / A-101 SCALE: 1 1/2" = 1'-0"

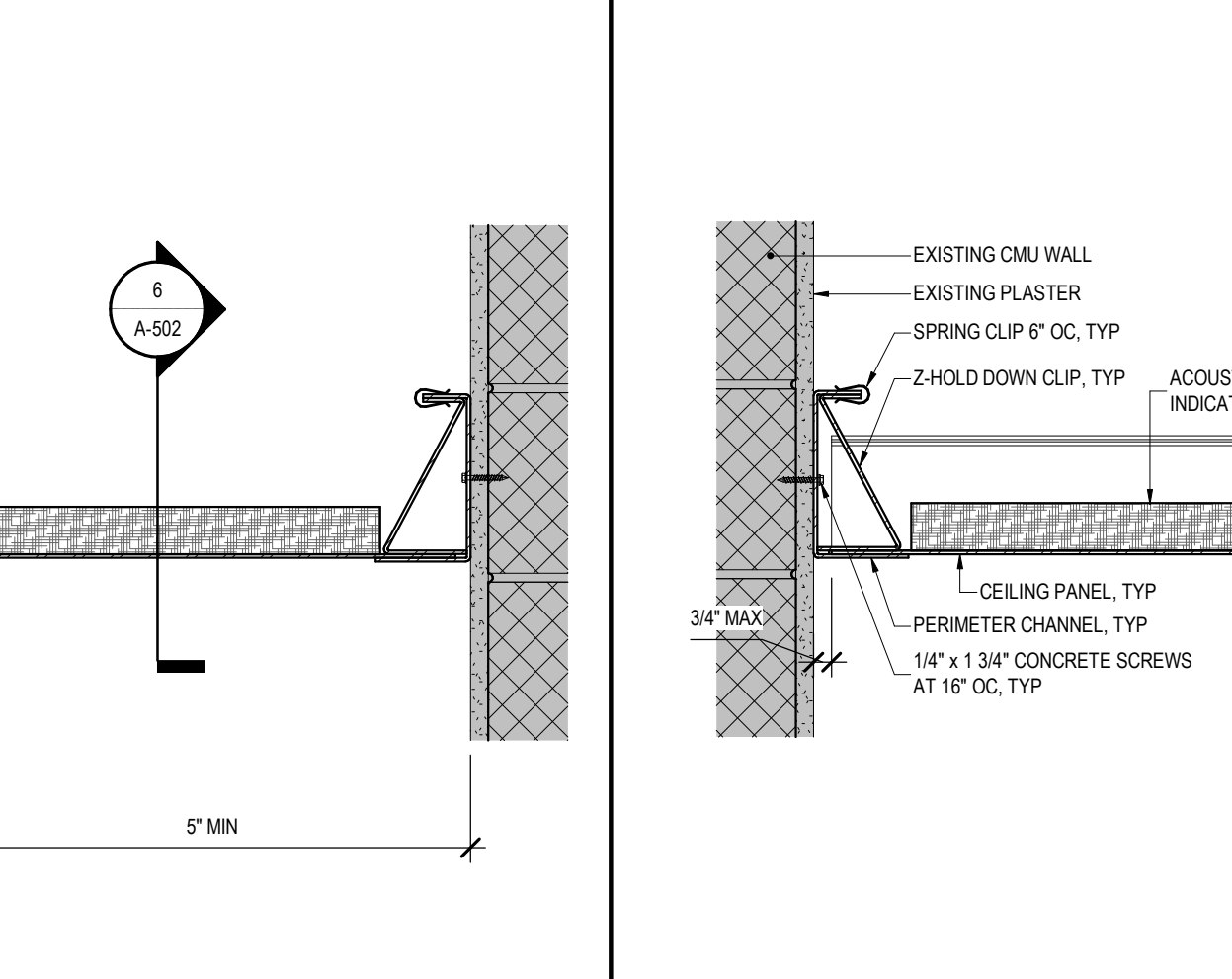


1 WINDOW SCREEN SECTION DETAIL
REF: 1 / A-101 SCALE: 6" = 1'-0"

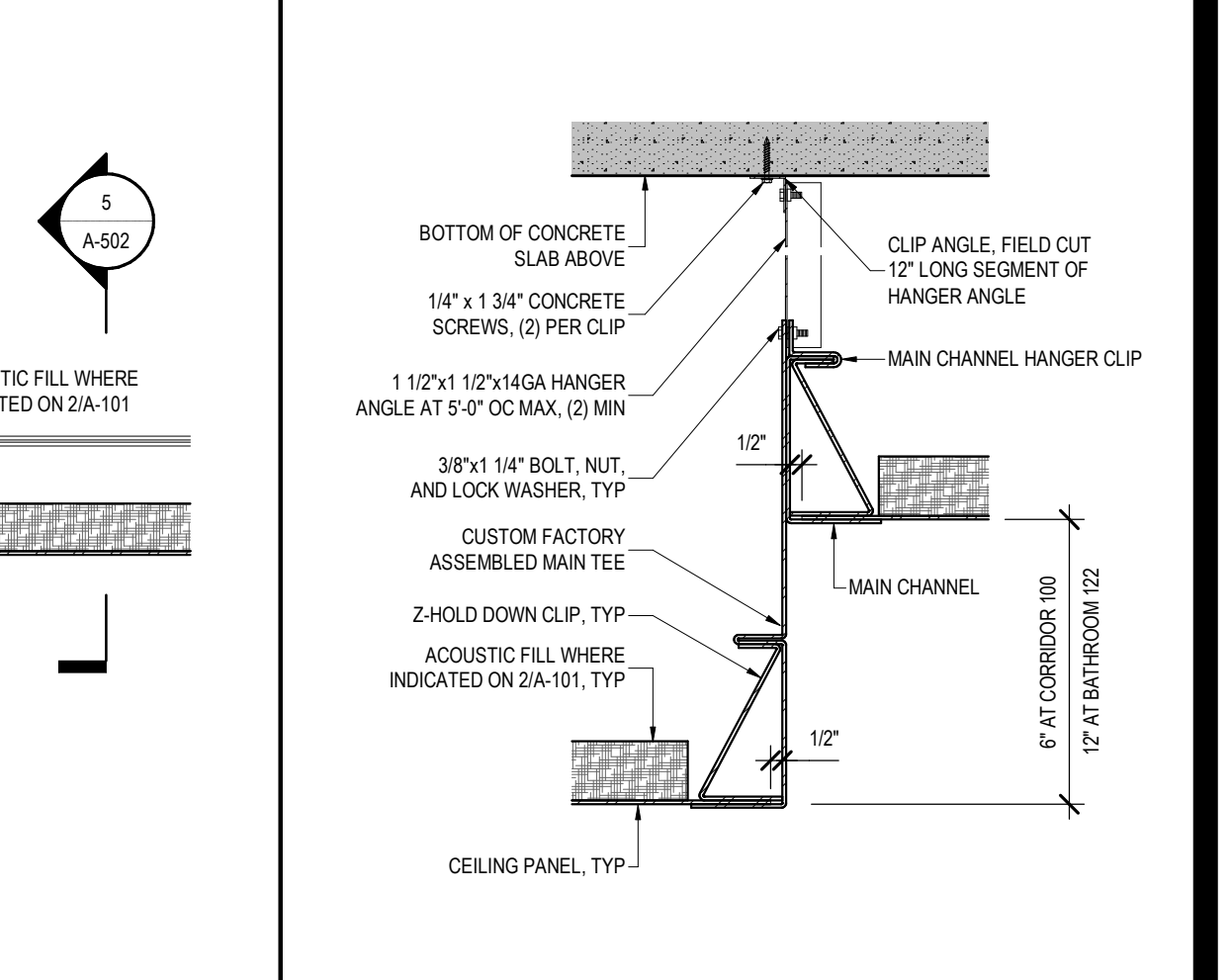
2 WINDOW SCREEN PLAN DETAIL
REF: 1 / A-502 SCALE: 6" = 1'-0"



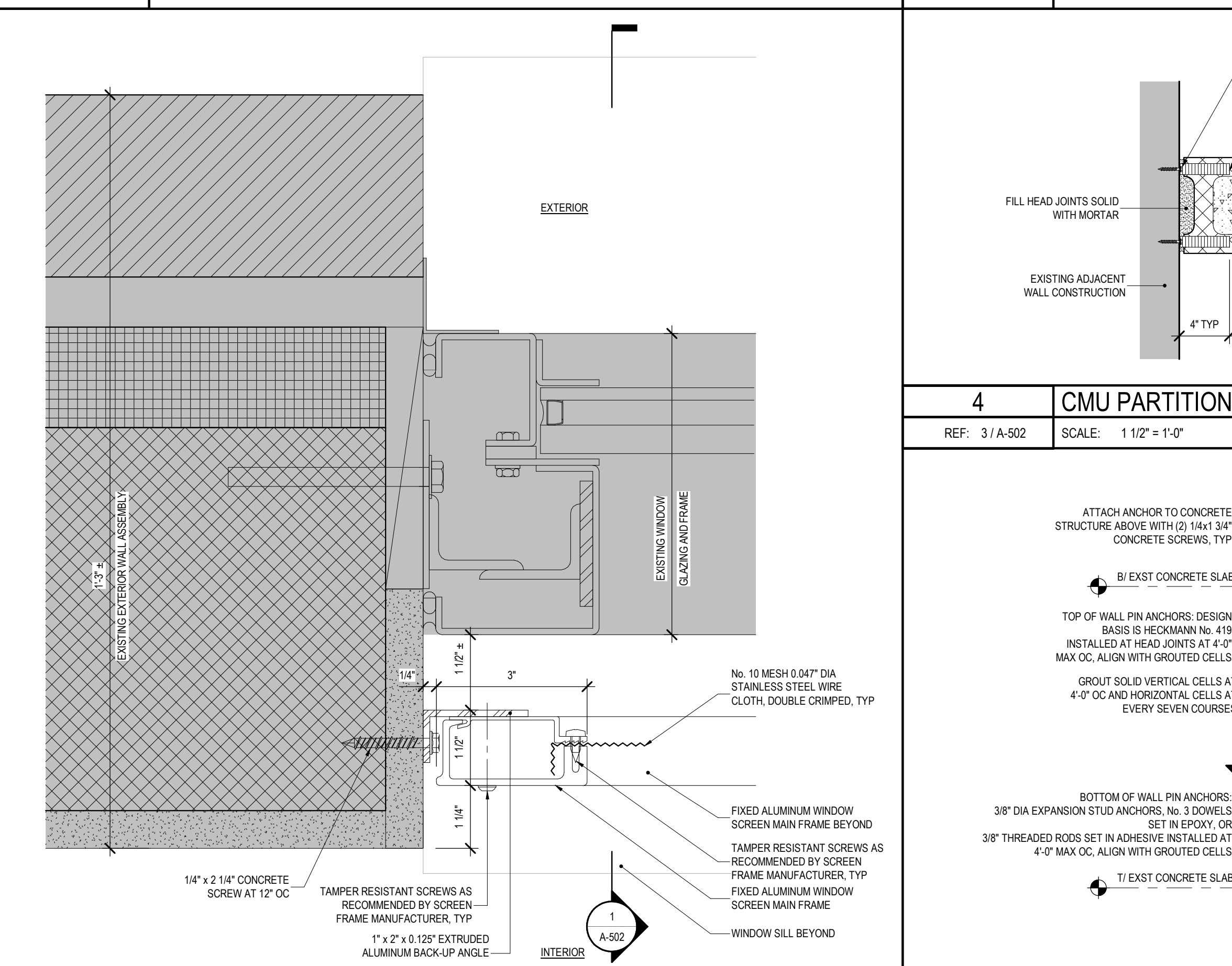
5 METAL PLANK CEILING DETAIL 1
REF: 2 / A-101 SCALE: 1 1/2" = 1'-0"



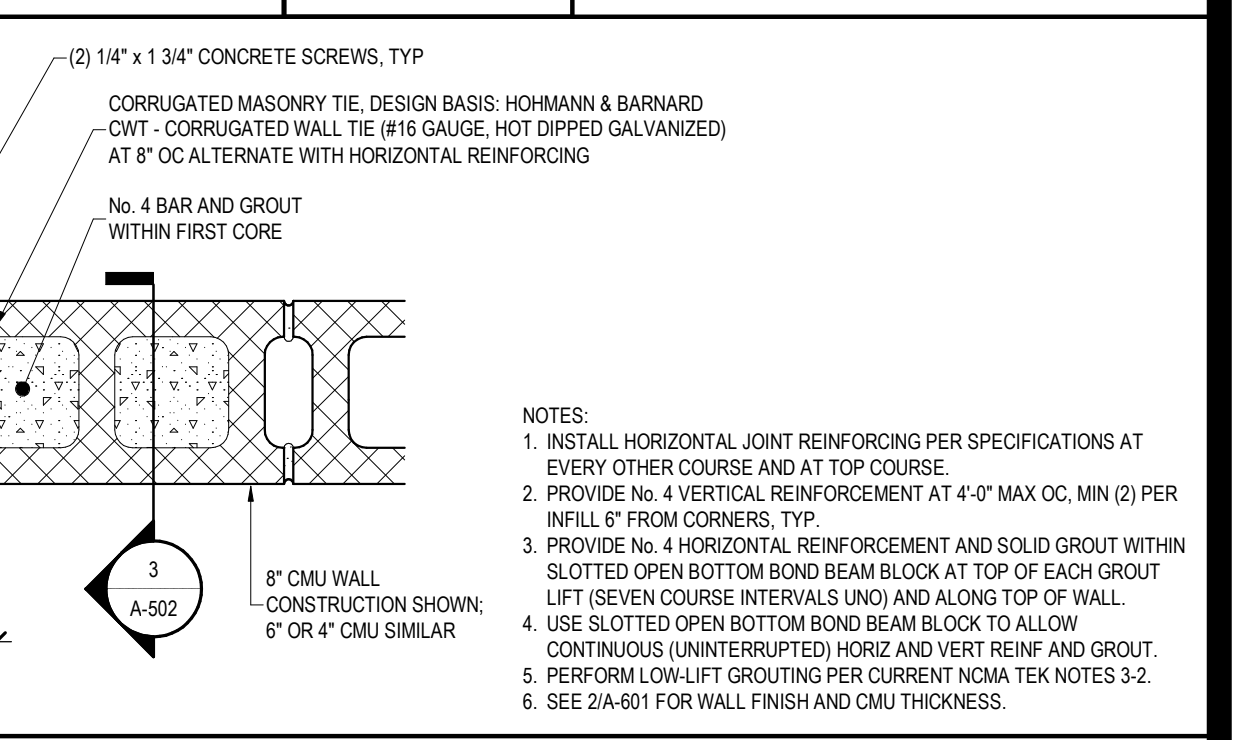
6 METAL PLANK CEILING DTL 2
REF: 2 / A-101 SCALE: 1 1/2" = 1'-0"



7 MTL PLANK CLG TRANSITION
REF: 2 / A-101 SCALE: 1 1/2" = 1'-0"



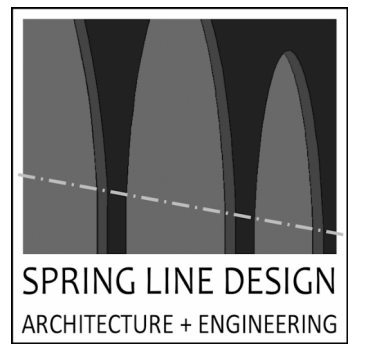
2 CMU PARTITION ANCHORAGE - PLAN
REF: 3 / A-502 SCALE: 1 1/2" = 1'-0"



3 CMU PARTITION ANCHORAGE - SECTION
REF: 2 / A-601 SCALE: 1 1/2" = 1'-0"

36x24 PLOT SHEET

CONSULTANT
CERTIFICATE OF AUTHORIZATION No.: 0019551



ENERGY CODE COMPLIANCE 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 ENERGY CODE OF NEW YORK STATE.

UNIFORM CODE COMPLIANCE STATEMENT:

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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.



CONSTRUCTION

REPAIR HVAC CONTROLS & REHABILITATE BEDROOMS & BATHROOMS

LOCATION:
GOSHEN SECURE CENTER
97 CROSS ROAD,
GOSHEN NY

CLIENT:
NYS OFFICE OF
GENERAL SERVICES

REVISED DRAWING 03/27/2025

MARK	DATE	DESCRIPTION
▲	03/27/2025	ADDENDUM 1
	02/17/2025	BID DOCUMENT

PROJECT NUMBER:
Q1874 - C

DESIGNED BY: KK
DRAWN BY: WA

FIELD CHECK:
APPROVED:

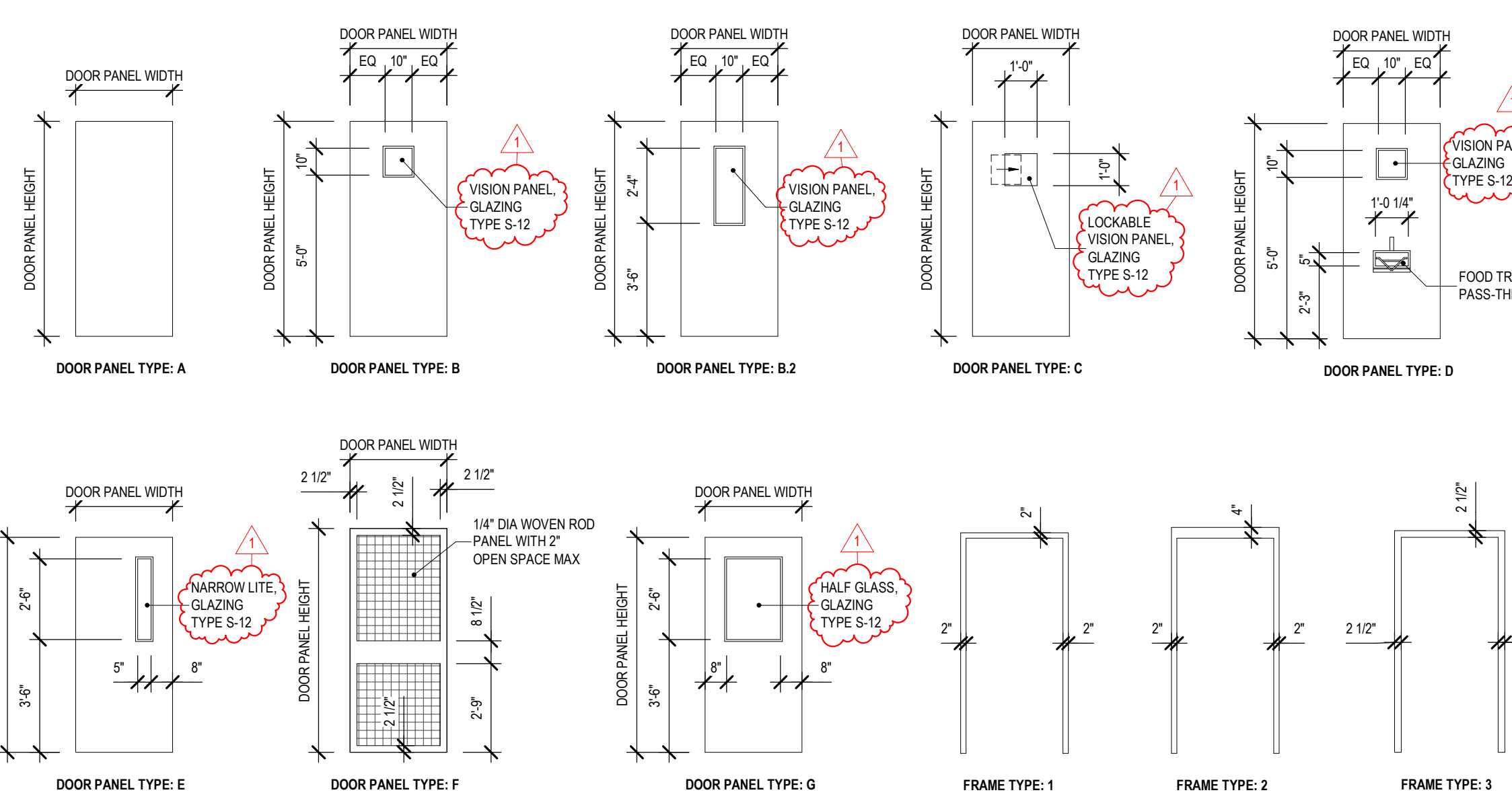
SHEET TITLE:
SCHEDULES

DRAWING NUMBER:
A-601

SHEET 13 OF 44

DOOR SCHEDULE

DOOR No.	DOOR PANEL			DOOR FRAME		DETAILS			HARDWARE	FIRE RATING	NOTES		
	SIZE (± VIF)	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	HEAD	JAMB				SILL	
101A	2'-8" W x 6'-7" H x 2" T	E	STEEL	PAINT	1	STEEL	PAINT	17A-503	9A-503 SIM	10A-503	SET 2.1	20 MIN	VERIFY ROUGH OPENING SIZE AFTER REMOVAL OF EXISTING DOOR
102	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
103	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
104	2'-8" W x 6'-8" H x 2" T	D	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
105	2'-8" W x 6'-8" H x 2" T	D	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
106	2'-8" W x 6'-8" H x 2" T	D	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
107	2'-8" W x 6'-8" H x 2" T	D	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
108	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
109	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
110	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
111	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
112	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
113	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
114	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
115	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
116	2'-8" W x 6'-8" H x 2" T	B,2	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
118	2'-8" W x 6'-8" H x 2" T	B	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 1.0	20 MIN	
119	3'-0" W x 6'-8" H x 2" T	C	STAINLESS STEEL	POWDER COAT	1	STAINLESS STEEL	POWDER COAT	8A-503	9A-503	10B-503	SET 2.0	20 MIN	
120A	3'-0" W x 6'-8" H x 2" T	A	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 2.0	20 MIN	
120B	2'-8" W x 6'-8" H x 2" T	A	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 2.0	-	
120C	3'-0" W x 6'-8" H x 2" T	A	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 3.0	-	
120D	2'-8" W x 6'-8" H x 2" T	A	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 3.0	-	
120E	3'-0" W x 7'-5" H x 1 3/4" T	F	STEEL	PAINT	3	STEEL	PAINT	4A-503	2A-503	1A-503	SET 4.0	-	DETENSION BARRIER DOOR
121	2'-8" W x 6'-8" H x 2" T	A	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 3.1	20 MIN	
122	3'-0" W x 6'-11" H x 2" T	C	STAINLESS STEEL	POWDER COAT	2	STAINLESS STEEL	POWDER COAT	8A-503	9A-503	10B-503	SET 2.0	20 MIN	
123	3'-0" W x 6'-8" H x 2" T	C	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10A-503	SET 2.0	20 MIN	
124	3'-0" W x 6'-8" H x 2" T	C	STAINLESS STEEL	POWDER COAT	1	STAINLESS STEEL	POWDER COAT	8A-503	9A-503	10A-503	SET 2.0	20 MIN	
S05	3'-0" W x 6'-8" H x 2" T	A	STEEL	PAINT	1	STEEL	PAINT	8A-503	9A-503	10B-503	SET 2.1	60 MIN	

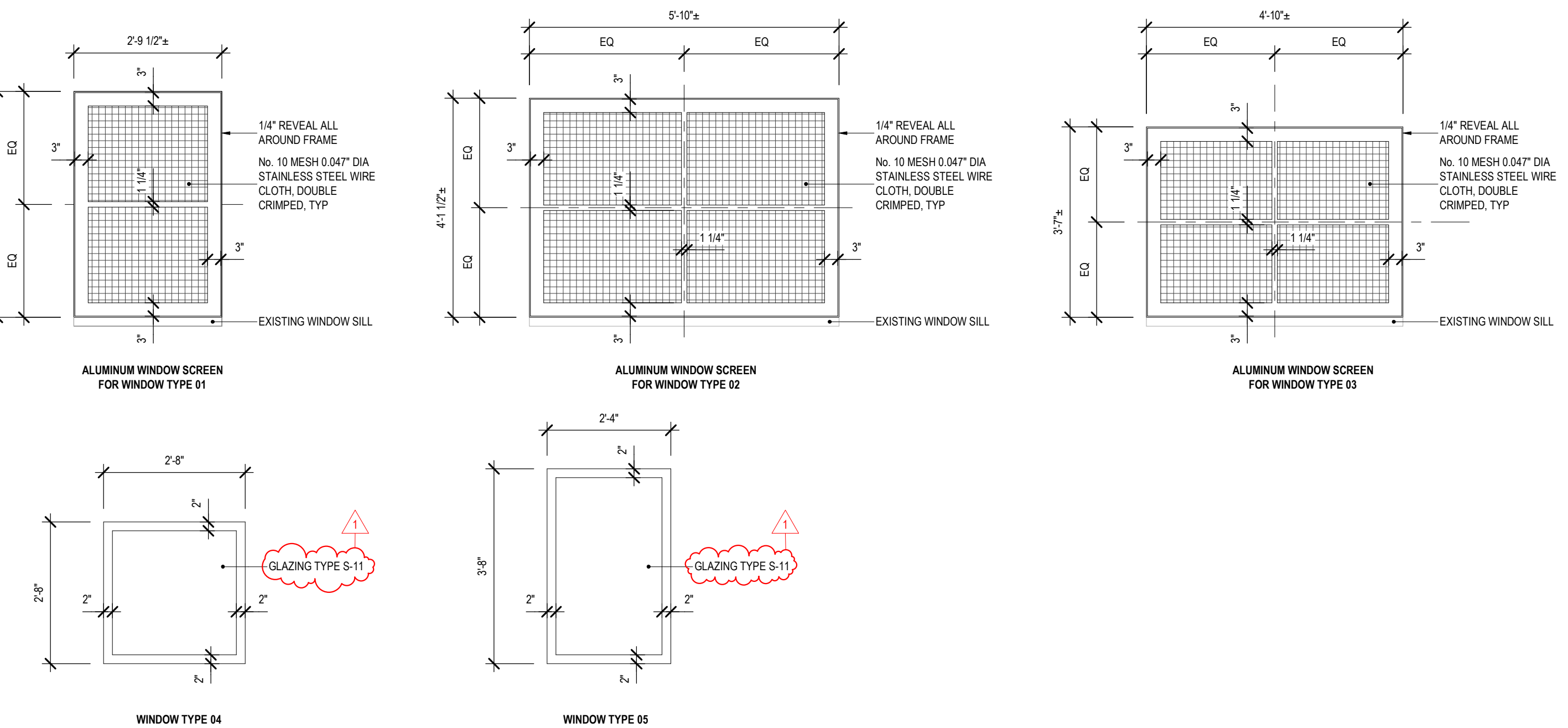


5 DOOR SCHEDULE AND TYPES

REF: 1/A-101 SCALE: NTS

WINDOW AND SECURITY WINDOW SCREEN SCHEDULE

TYPE	QUANTITY	WINDOW SIZE (± VIF)		FUNCTION	MATERIAL	GLAZING TYPE	MAXIMUM U-VALUE	MAXIMUM SHGC	MAXIMUM AIR INFILTRATION	WINDOW DETAILS			NOTES
		WIDTH	HEIGHT							HEAD	JAMB	SILL	
01	24	2'-9 1/2"	4'-3"	-	-	-	-	-	-	1/A-502	2/A-502	1/A-502	EXISTING WINDOW TO REMAIN, REPLACE INTERIOR SCREEN
02	1	5'-10"	4'-1 1/2"	-	-	-	-	-	-	1/A-502	2/A-502	1/A-502	EXISTING WINDOW TO REMAIN, REPLACE INTERIOR SCREEN
03	1	4'-10"	3'-7"	-	-	-	-	-	-	1/A-502	2/A-502	1/A-502	EXISTING WINDOW TO REMAIN, REPLACE INTERIOR SCREEN
04	1	2'-8"	2'-8"	FIXED	STEEL	TYPE S-11	-	-	-	8/A-502	9/A-502	-	45 MIN FIRE RATED INTERIOR WINDOW
05	1	2'-4"	3'-8"	FIXED	STEEL	TYPE S-11	-	-	-	8/A-502	9/A-502	-	45 MIN FIRE RATED INTERIOR WINDOW



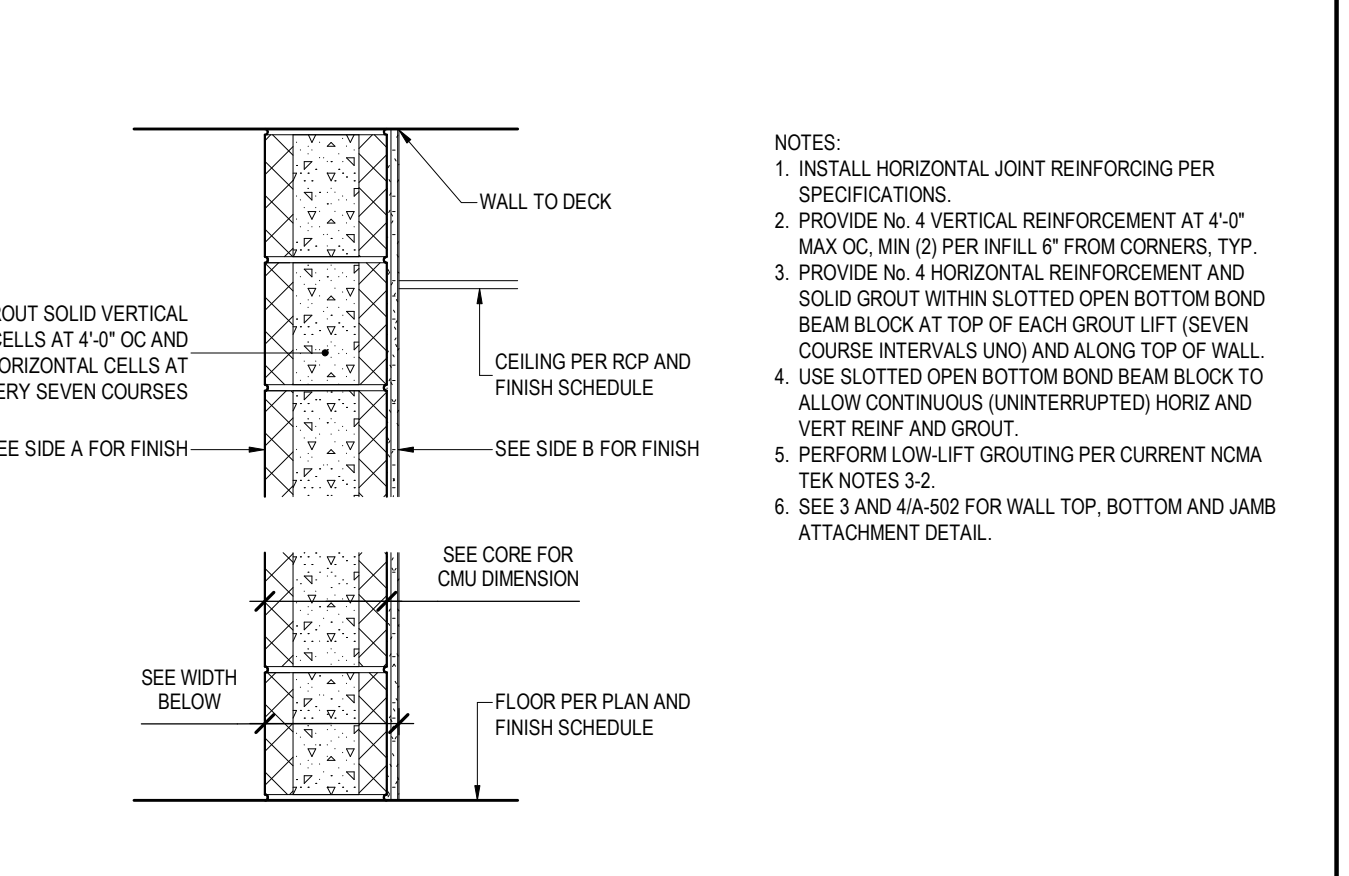
4 WINDOW AND SECURITY SCREEN SCHEDULE AND TYPES

REF: 1/A-101 SCALE: NTS

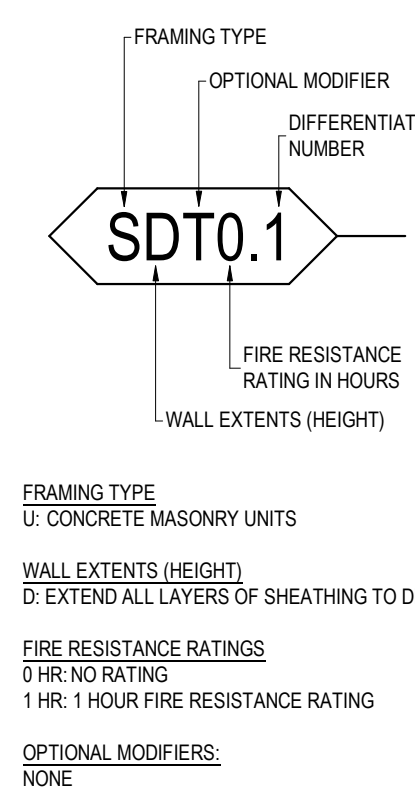
FINISH SCHEDULE

ROOM NAME	ROOM NUMBER	WALLS				FLOOR	BASE	CEILING	REMARKS
		NORTH	SOUTH	EAST	WEST				
CORRIDOR	100	IAL-2	IAL-2	IAL-2	IAL-2	EPO	EPO	MPC	
JC	101A	EGB	EGB	EGB	EGB	EFT	ECB	MPC	
BEDROOM	102	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	103	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	104	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	105	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	106	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	107	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	108	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	109	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	110	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	111	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	112	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	113	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	114	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	115	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	116	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
BEDROOM	118	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
SHOWER ROOM	119	IAL-4	IAL-4	IAL-4	IAL-4	EPO	EPO	MPC	
OFFICES	120A	EGB	EGB	EGB	EGB	EPO	ECB	MPC	
TOILET	120B	IAL-3	IAL-3	IAL-3	IAL-3	EPO	EPO	MPC	
OFFICES	120C	EGB	IAL-2	EGB	EGB	EPO	EPO/ECB	MPC	
OFFICES	120D	IAL-2	IAL-2	IAL-2	IAL-2	EPO	EPO	MPC	
STORAGE	121	IAL-2	IAL-2	IAL-2	IAL-2	EPO	EPO	MPC	
BATHROOM	122	EWT	EWT	EWT	EWT	EFT	ETB	MPC	
RECREATION ROOM	123	EGB	EGB/IAL-3	EGB	EGB	EPO	ECB	MPC	
RESIDENT BATHROOM	124	IAL-4	IAL-4	IAL-4	IAL-4	EPO	EPO	MPC	
STORAGE	125	IAL-2	ETR	ETR	ETR	ETR	ETR	MPC	
STAIRWAY	No. 5								NO WORK

FINISH SCHEDULE ABBREVIATIONS:
EFT: REPAIR AND CLEAN EXISTING FLOOR TILE
EGB: REPAIR AND CLEAN EXISTING GLAZED BLOCK, REMOVE PLASTIC SCREW INSERTS, FILL HOLES WITH SEALANT TYPE 6 COLOR TO MATCH ADJACENT GLAZED BLOCK, REMOVE AND INFILL 900± SCREW INSERT HOLES IN BLOCK OR GROUT (90) LOCATIONS TOTAL FOR PROJECT, NOT EACH WALL
ECB: REPAIR AND CLEAN EXISTING COVED GLAZED BLOCK WALL BASE
ETR: REPAIR AND CLEAN EXISTING COVED TILE WALL BASE
EFT: EXISTING TO REMAIN
EWT: REPAIR AND CLEAN EXISTING WALL TILE, REMOVE PLASTIC SCREW INSERTS, FILL HOLES WITH SEALANT TYPE 6 COLOR TO MATCH ADJACENT TILE, REMOVE AND INFILL 100± SCREW INSERT HOLES IN TILE OR GROUT (1,000 LOCATIONS TOTAL FOR PROJECT, NOT EACH WALL)
EPO: EPOXY FLOOR WITH INTEGRATED 6" WALL BASE
IAL: INTERIOR ACRYLIC LATEX PAINT, COLOR BY DIRECTOR'S REPRESENTATIVE
MPC: METAL PLANK CEILING SYSTEM



PARTITION TAG KEY:



TYPE	SIDE A	CORE	SIDE B	WIDTH	STC	FIRE	NOTES
UD0.1	-	6" NOMINAL CMU	3/4" THICK PLASTER BASE (1/4" SCRATCH + 1/2" BROWN COATS) AND FINISH COAT	6 3/8"	-	0 HR	KEEP SIDE B ON OCCUPIED SIDE
UD1.2	-	6" NOMINAL CMU	HIGH-BUILD GLAZED COATING	5 7/8"	-	1 HR	KEEP SIDE B ON OCCUPIED SIDE

2 PARTITION TYPE No. UD##

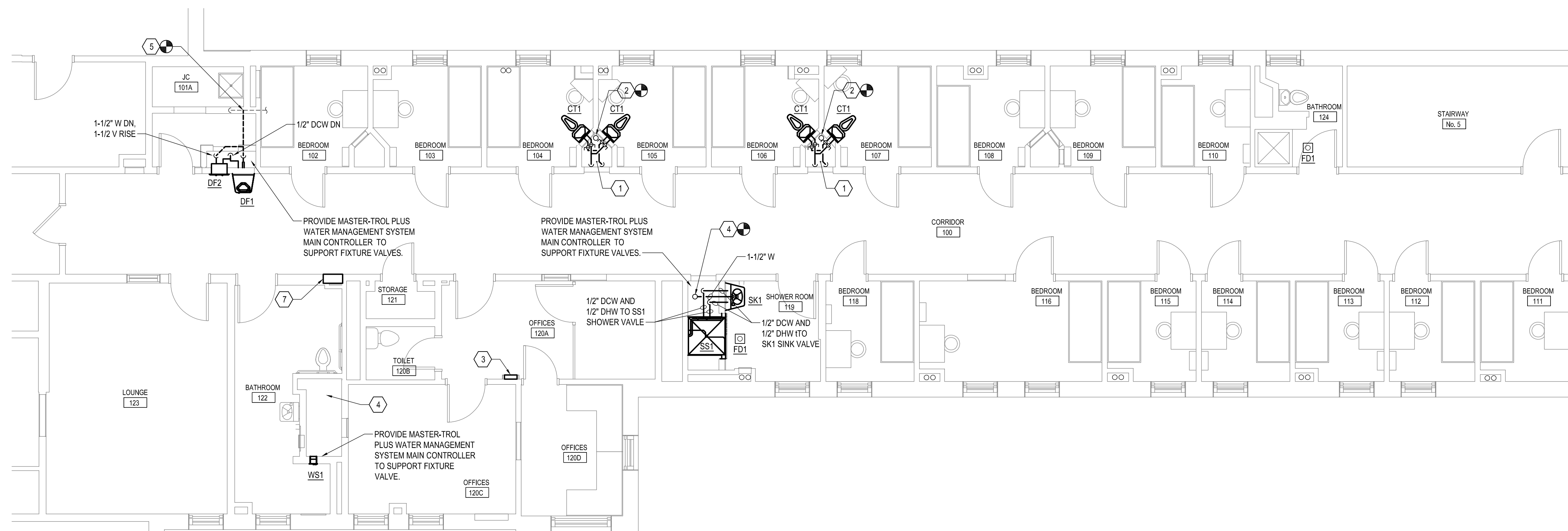
REF: 1/A-101 SCALE: NTS

3 TAG KEY

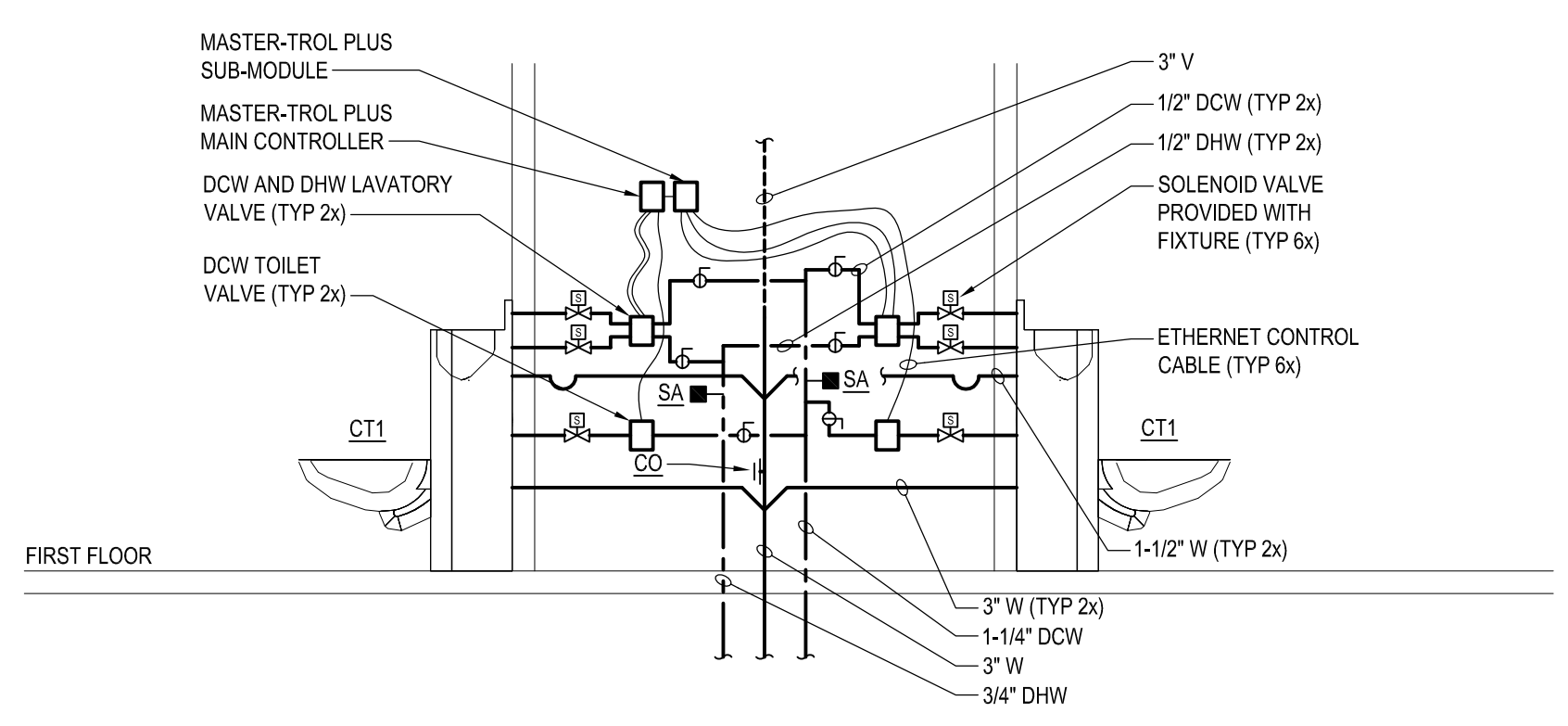
SCALE: NTS

PLUMBING FIXTURE SCHEDULE									
TAG	ITEM	MANUFACTURER & MODEL	WASTE	VENT	CW	HW	FITTINGS/ACCESSORIES OR DESIGN DATA	ITEM DISCRPTION	
CT1	COMBINATION TOILET/LAVATORY	ACORN ENGINEERING COMPANY LIGATURE RESISTANT 15" LAV-TOILET COMBY #LR1415-CT-2-MTPP2-BRS-1.28-MTPPFV-PH-LW1-TF-FVT-WO-3B-MT	3"	2"	1/2"	1/2"	NA	15" LAV-TOILET COMBY, CENTERED TOILET, ON FLOOR WITH WALL OUTLET, MASTER-TROL PLUS HOT AND COLD PIEZO BUTTONS FOR LAVATORY, BRASS BODY VALVE, 1.28 GPF, MASTER-TROL PLUS ELECTRONIC FLUSH VALVE WITH PIEZO BUTTON, PAPER HOLDER, COMBINED WASTE, TRANSFORMER 120VAC TO 24VAC, FLUSH VALVE THRU WALL CONNECTOR, 2-3/8" P-TRAP WITH 3" PLAIN END WASTE OUTLET AND METAL TEMPLATE (ONLY 1 REQUIRED PER PROJECT).	
SK1	ADA STAINLESS STEEL PENAL BATHROOM SINK	ACORN ENGINEERING COMPANY LIGATURE RESISTANT LAVATORY WITH OVAL BOWL #LR1652-1-MTPP2-BRS-TF-LW1-MT	1-1/2"	1-1/2"	1/2"	1/2"	NA	ADA COMPLIANT LIGATURE RESISTANT LAVATORY WITH OVAL BOWL, FLOOR MOUNT WALL OUTLET, HOT AND COLD SUPPLY VALVE WITH PIEZO BUTTONS, BRASS BODY VALVE, TRANSFORMER 120VAC TO 24VAC, THRU-WALL WASTE EXTENSION WITH P-TRAP AND METAL TEMPLATE (ONLY 1 PER PROJECT).	
SS1	ADA SHOWER STALL	ACORN ENGINEERING COMPANY ADA CABINET SHOWER #1736ADA-A-SLR-PWN-MTPP1-BRS-TF-CSH-FH-KD-LFS-LGB2-LGBV-LRD	2"	1-1/2"	1/2"	1/2"	NA	PROVIDE FIXED RETROFIT ADA SHOWER SEAT WITH EDGE OF SEAT 3" INBOUND OF EDGE OF SHOWER ENCLOSURE	
WS1	ADA WALL SHOWER PANEL	ACORN ENGINEERING COMPANY SECUR-CARE - LIGATURE RESISTANT #LR1741ADA-MTPP1-BRS-TF-LRD-MT	NA	NA	1/2"	1/2"	NA	LIGATURE RESISTANT WALL SHOWER, ADA COMPLIANT, CONICAL SHOWER HEADS, MASTER-TROL PLUS SINGLE TEMPERATURE WITH PIEZO BUTTON, BRASS BODY VALVE, TRANSFORMER 120VAC TO 24VAC, LESS RECESSED SOAP DISH AND METAL TEMPLATE (ONLY 1 REQUIRED PER PROJECT).	
DF1	ADA DRINKING FOUNTAIN	ACORN ENGINEERING COMPANY LIGATURE RESISTANT WALL MOUNTED DRINKING FOUNTAIN #LR1672-1-MTPP1-BRS-TF-LW1-MT	1-1/2"	1-1/2"	1/2"	NA	NA	LIGATURE RESISTANT DRINKING FOUNTAIN, ADA COMPLIANT, WALL MOUNTED, SINGLE TEMP PIEZO BUTTON, BRASS BODY VALVE, TRANSFORMER 120VAC TO 24VAC, THRU-WALL WASTE EXTENSION WITH P-TRAP AND METAL TEMPLATE (ONLY 1 REQUIRED PER PROJECT).	
DF2	DRINKING FOUNTAIN	ACORN ENGINEERING COMPANY SECUR-CARE - LIGATURE RESISTANT #LR1671-1-MTPP1-TF-BRS-PT-MT	1-1/2"	1-1/2"	1/2"	NA	NA	LIGATURE RESISTANT DRINKING FOUNTAIN, WALL MOUNTED, SINGLE TEMP PIEZO BUTTON, BRASS BODY VALVE, TRANSFORMER 120VAC TO 24VAC, P-TRAP WASTE AND METAL TEMPLATE (ONLY 1 REQUIRED PER PROJECT).	
SA	SHOCK ABSORBER	JOSAM 75000 SERIES	NA	NA	SEE PLANS	SEE PLANS	NA	STAINLESS STEEL SHELL, ELASTOMER BELLOWS, STAINLESS STEEL ADAPTER AND MALE THREADED PLUG	
CO	CLEANOUT	ZURN BRONZE CLEANOUT PLUG #Z1470	SEE PLAN	NA	NA	NA	NA	COUNTERSUNK BRONZE THREAD CLEANOUT PLUG	
FD1	FLOOR DRAIN	WATTS #FD-2004-3-16-6	3"	NA	NA	NA	PROVIDE QUAD CLOSE TRAP SEAL ON ALL FLOOR DRAINS (JAY F. SMITH #289)	3" EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, WEEPHOLE (SEAL WEEPHOLES IF NO WATER PROOF MEMBRANE IS PROVIDED), ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAIN AND VANDAL PROOF SCREENS	

NOTE: FOR THE FOLLOWING FIXTURES CT1, SK1, SS1, WS1, DF1 AND DF2, PROVIDE FACTORY WIRING HARNESS FOR CONNECTING MAIN CONTROLLER, SUB-MODULE, TRANSFORMER, SOLENOID VALVES/BACK BOXES AND PIEZO PUSH BUTTONS. WIRING HARNESS SHALL INCLUDE THE NECESSARY WIRING TERMINATIONS FOR EACH CONNECTED DEVICE. WIRING HARNESS SHALL BE FACTORY TESTED PRIOR TO SHIPMENT. FIELD WIRING OF MAIN CONTROLLER, SUB-MODULE, TRANSFORMER, SOLENOID VALVE/BRANCH BOXES, AND PIEZO PUSH BUTTONS WITH WIRING NOT FURNISHED BY THE FIXTURE WATER MANAGEMENT SYSTEM MANUFACTURER WILL NOT BE ACCEPTED.



1 PARTIAL FIRST FLOOR PLUMBING PLAN
SCALE: 3/16" = 1'-0"



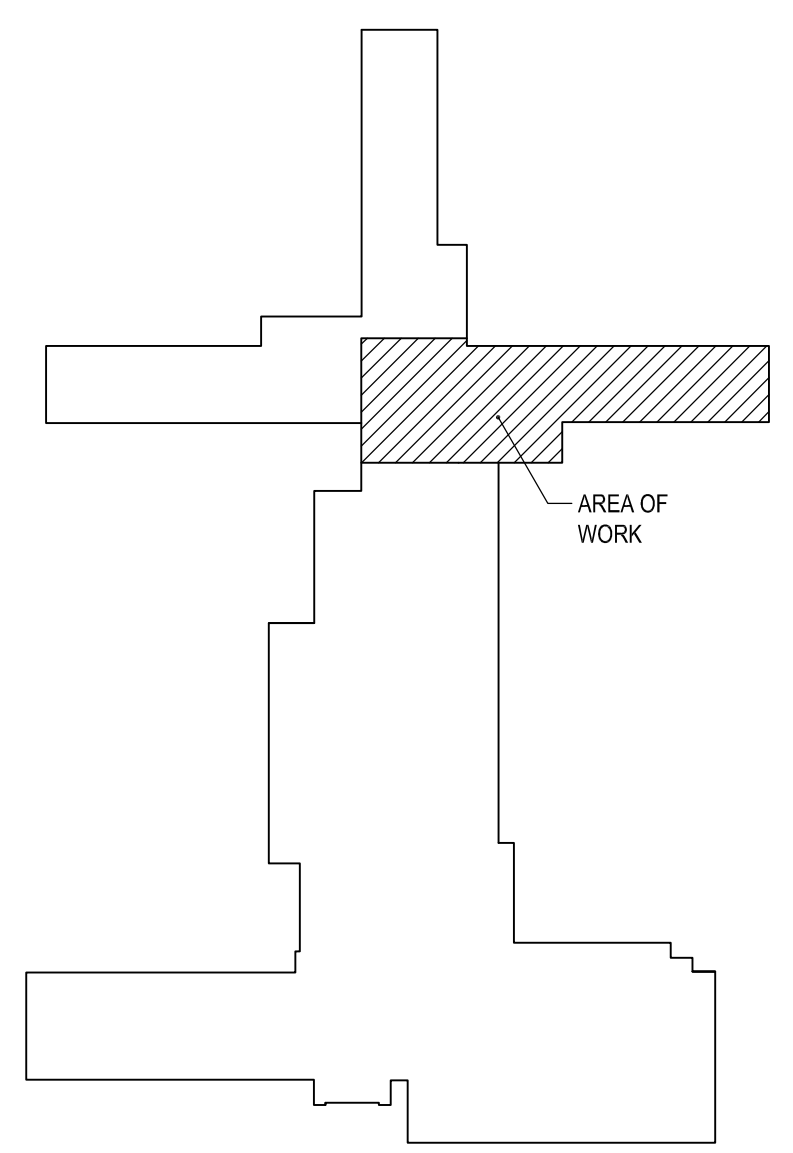
2 TYPICAL BACK TO BACK COMBINATION TOILET AND LAVATORY FLOW DIAGRAM
SCALE: NOT TO SCALE

GENERAL NOTES

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO INITIATING WORK FOR THIS PROJECT. CONTRACT DOCUMENTS HAVE BEEN DEVELOPED FROM EXISTING DRAWINGS AND FIELD INVESTIGATION. NOTIFY THE DIRECTOR'S REPRESENTATIVE OF INCONSISTENCIES IDENTIFIED BETWEEN THE CONTRACT DOCUMENTS AND FIELD CONDITIONS THAT IMPACT THE ABILITY TO PERFORM THE WORK INDICATED ON THE CONTRACT DOCUMENTS.
- PERFORM CUTTING AND PATCHING REQUIRED FOR THE WORK, UNLESS OTHERWISE NOTED. MATCH PATCHING TO SURROUNDING EXISTING SURFACES IN KIND. PROVIDE FIRE STOPPING FOR PENETRATIONS THROUGH INTERIOR WALLS AND FLOORS.
- COORDINATE UTILITY SHUT DOWNS WITH DIRECTOR'S REPRESENTATIVE, SEVEN DAYS PRIOR TO THE SHUT DOWN.
- VERIFY SERVICE OF EACH PIPE PRIOR TO REMOVALS AND TAG REMAINING PORTION OF PIPE AT DISCONNECT/RECONNECT LOCATIONS.

KEYED NOTES

- PROVIDE 1/2" DHW & 1-1/4" DCW PIPING AND VALVES IN THIS LOCATION THROUGH FLOOR BELOW. CONNECT TO COMBINATION TOILET UNITS. FOR CONTINUATION OF PIPING AND CONNECTION LOCATIONS REFER TO P-101 AND 2/P-102 FOR ADDITIONAL INFORMATION. PROVIDE MASTER-TROL PLUS WATER MANAGEMENT SYSTEM MAIN CONTROLLER AND SUB-MODULE TO SUPPORT FIXTURE VALVES.
- PROVIDE 3" W. CONNECT TO COMBINATION TOILET UNITS. FOR CONTINUATION OF PIPING AND CONNECTION LOCATIONS REFER TO P-101 AND 2/P-102 FOR ADDITIONAL INFORMATION.
- PROVIDE EMERGENCY SHUTOFF VALVES FOR 3/4" DHW AND 1-1/2" DCW. THE VALVES WILL STOP THE WATER FLOW TO THE COMBINATION TOILETS IN ROOMS 104-107. PROVIDE IN 12"x12"x4" RECESSED STAINLESS STEEL LOCKABLE VALVE BOX WITH HINGED DOOR.
- CONNECT 2" W. DOWN TO FLOOR BELOW. CONNECT 2" V. RISE TO 2" EV LEFT FROM REMOVAL WORK.
- CONNECT 1-1/2" V. TO 2" EV.
- PROVIDE PIPING INSULATION ON ALL EXISTING DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPING SERVING THIS FLOOR AND THE FLOOR ABOVE. REFER TO SPECIFICATION 220700 PIPING INSULATION FOR ADDITIONAL INFORMATION.
- PROVIDE 1-1/2" HOSE VALVE AND 1-1/2" HOSE RACK MOUNTING NIPPLE. HOSE VALVE SHALL BE CROKER MODEL 5020 OR APPROVED EQUAL. HOSE VALVE CABINET NIPPLE SHALL BE CROKER MODEL 3365 OR APPROVED EQUAL. CONNECT 1-1/2" HOSE VALVE TO EXISTING 1-1/2" MALE NPT THREADED CONNECTION PENETRATING EXISTING CABINET. REUSE EXISTING PLASTIC HOSE VALVE CAP SECURED TO THE CABINET.



KEY PLAN
SCALE: NOT TO SCALE

1" = 1" BAR EQUALS ONE INCH WHEN DRAWING IS PRINTED TO SCALE

CONSULTANT
CERTIFICATE OF AUTHORIZATION #: 017869

Friedman Fisher Associates, P.C.

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: **PLUMBING**
TITLE: REPAIR HVAC CONTROLS & REHABILITATE BEDROOMS & BATHROOMS
LOCATION: GOSHEN SECURE CENTER
97 CROSS RD
GOSHEN, NY 10924
CLIENT: NYS OFFICE OF GENERAL SERVICES

REVISED DRAWING 03/27/2025

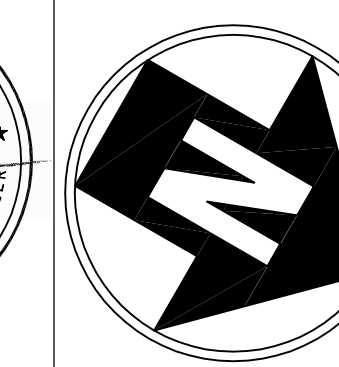
1	03/27/2025	ADDENDUM 1
	02/17/2025	BID DOCUMENTS
	DATE	DESCRIPTION

PROJECT NUMBER: **Q1874 - P**
DESIGNED BY: MJC
DRAWN BY: MJC
FIELD CHECK:
APPROVED:
SHEET TITLE:
PARTIAL FIRST FLOOR PLUMBING PLAN
DRAWING NUMBER:
P-102
SHEET 19 OF 44



WARNING:

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REGISTRATION EXPIRES: 10/31/27

CONTRACT:

ELECTRICAL

TITLE: REPAIR HVAC CONTROLS & REHABILITATE BEDROOMS & BATHROOMS

LOCATION: GOSHEN SECURE CENTER
97 CROSS RD
GOSHEN, NY 10924

CLIENT: NYS OFFICE OF GENERAL SERVICES

REVISED DRAWING 03/27/2025

NO.	DATE	DESCRIPTION
1	03/27/2025	ADDENDUM 1
	02/17/2025	BID DOCUMENTS
		DATE DESCRIPTION

PROJECT NUMBER: Q1874 - E

DESIGNED BY: MLS

DRAWN BY: MLS

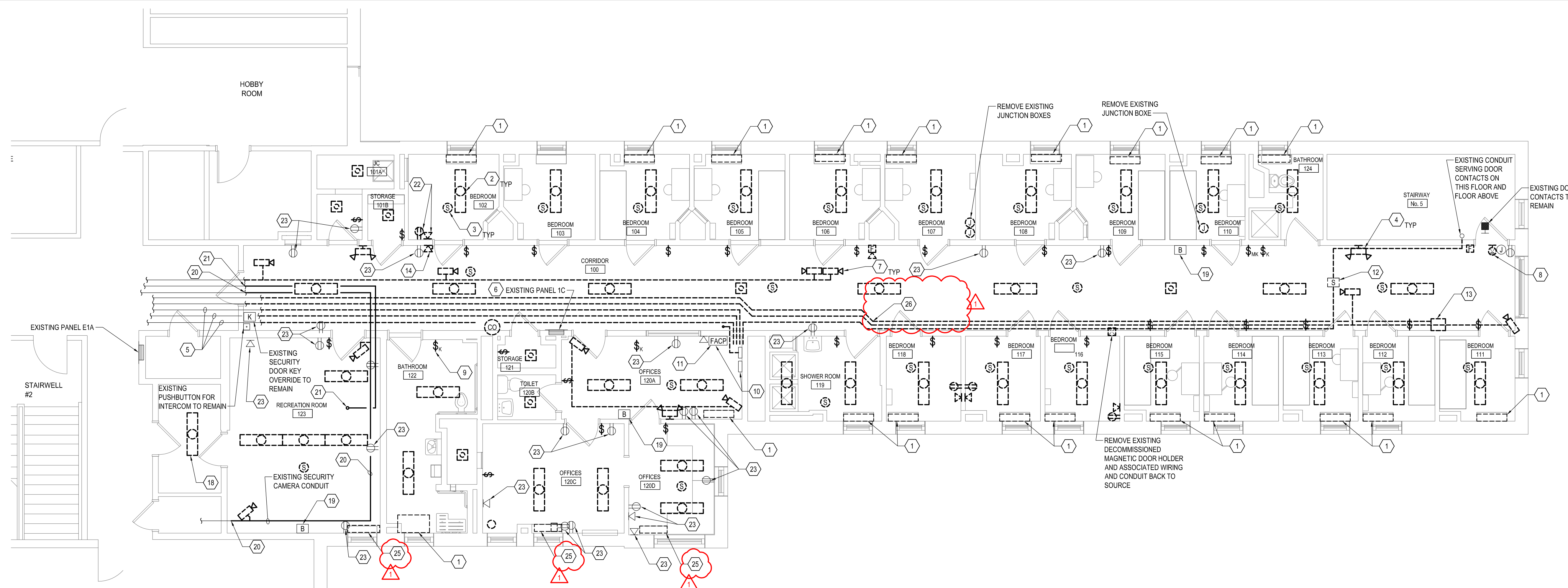
FIELD CHECK:

APPROVED:

SHEET TITLE:

PARTIAL FIRST AND SECOND FLOOR ELECTRICAL REMOVAL PLAN

DRAWING NUMBER: ED-101



1 PARTIAL FIRST FLOOR ELECTRICAL REMOVAL PLAN

SCALE: 3/16" = 1'-0"

KEYED NOTES

- 1 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO FAN COIL UNIT BEING REMOVED. REMOVE CONDUIT/CONDUCTORS TO FLOOR BELOW, COIL AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-USE. FLOOR BELOW CONSISTS OF STORAGE AREAS WITH NO CEILINGS, AND OPEN TO STRUCTURE ABOVE.
- 2 DISCONNECT POWER TO EXISTING SURFACE MOUNTED LIGHTING FIXTURES AT PANEL. REMOVAL OF EXISTING FIXTURES, AND CONDUIT/WIRING ABOVE CEILING SHALL BE BY CONSTRUCTION CONTRACT. TYPICAL FOR ALL LIGHT FIXTURES SHOWN.
- 3 DISCONNECT AND REMOVE ELECTRICAL WIRING CONNECTION TO SMOKE DETECTORS BEING REMOVED. REMOVAL OF ABOVE CEILING CONDUIT/CONDUCTORS SHALL BE REMOVED BY CONSTRUCTION CONTRACT. TYPICAL FOR ALL CEILING MOUNTED FIRE ALARM DEVICES.
- 4 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO EXISTING EMERGENCY LIGHTING UNIT BEING REMOVED. COIL AND PROTECT EXISTING BRANCH CIRCUIT FOR RECONNECTION. TYPICAL FOR ALL ELUS SHOWN.
- 5 EXISTING FIRE ALARM CONDUITS TO BE TEMPORARILY SUPPORTED BY THE CONSTRUCTION CONTRACT DURING THE CEILING ABATEMENT PROCESS. FOLLOWING THE ABATEMENT PROCESS, CUT THE FIRE ALARM CONDUITS IMMEDIATELY INSIDER WING 1 CORRIDOR 100. REMOVE UPSTREAM CONDUIT BACK TO FIRE ALARM PANEL. COIL AND PROTECT FIRE ALARM WIRE BETWEEN REMOVALS AND REINSTALLATION. SEE GENERAL NOTE 3 ON THIS DRAWING.
- 6 DISCONNECT AND REMOVE INTERIOR AND FACE OF EXISTING PANEL 1C. EXISTING BACKBOX TO REMAIN. PROTECT EXISTING PANEL FEEDER AND BRANCH CIRCUITING FOR RE-CONNECTION TO REPLACEMENT PANEL INTERIOR.
- 7 FACILITY SECURITY CONTRACTOR SHALL DISCONNECT AND REMOVE EXISTING CAMERAS PRIOR TO REMOVAL WORK. CONSTRUCTION CONTRACT SHALL REMOVE EXISTING CONDUIT AND WIRING SURFACE MOUNTED TO CEILING AS PART OF THE REMOVAL AND ABATEMENT PROCESS. TYPICAL FOR ALL CAMERAS SHOWN.
- 8 DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION TO EXISTING WALL MOUNTED EXIT LIGHT BEING REMOVED. COIL AND PROTECT EXISTING BRANCH CIRCUIT FOR REUSE.
- 9 DISCONNECT AND REMOVE EXISTING SWITCH. TYPICAL FOR ALL SWITCHES SHOWN.
- 10 EXISTING SIMPLEX 4100ES FIRE ALARM CONTROL PANEL AND ADDITIONAL FIRE ALARM PANELS TO REMAIN.
- 11 PROVIDE TEMPORARY POWER FEEDER AND CONDUIT FROM EXISTING ELECTRICAL EMERGENCY PANEL LOCATED IN THE BASEMENT BOILER ROOM IMMEDIATELY BELOW TO FIRE ALARM CONTROL PANEL. TEMPORARY POWER SHALL BE PROVIDED DURING PANEL 1C INSTALLATION.
- 12 EXISTING SPEAKER AND DOOR CONTACT CONDUIT AND WIRING TO BE TEMPORARILY SUPPORTED BY CONSTRUCTION CONTRACT DURING THE CEILING ABATEMENT PROCESS. FOLLOWING THE ABATEMENT PROCESS, REMOVE CONDUIT AND WIRING BACK TO SOURCE. SEE GENERAL NOTE 4 ON THIS DRAWING. EXISTING SPEAKER TO BE REMOVED AND RETAINED FOR REUSE.
- 13 DISCONNECT AND REMOVE EXISTING FINGER PRINT MACHINE. CONDUIT/CONDUCTORS SHALL BE REMOVED BY CONSTRUCTION CONTRACT.
- 14 DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED WALL TELEPHONE OUTLET. REMOVE SURFACE MOUNTED RACEWAY TO FLOOR. PULL BACK EXISTING TELEPHONE CABLING TO CEILING OF FLOOR BELOW AND COIL.
- 15 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO EXISTING MAKE-UP AIR UNIT S-8 SUPPLY FAN MOTOR. COIL AND PROTECT EXISTING CIRCUIT FOR REUSE.
- 16 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO EXISTING S-8 MOTOR STARTER. REMOVE MOTOR STARTER. COIL AND PROTECT EXISTING CIRCUIT FOR REUSE.
- 17 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO EXISTING CIRCULATING PUMP P-12. COIL AND PROTECT EXISTING CIRCUIT FOR REUSE.

KEYED NOTES

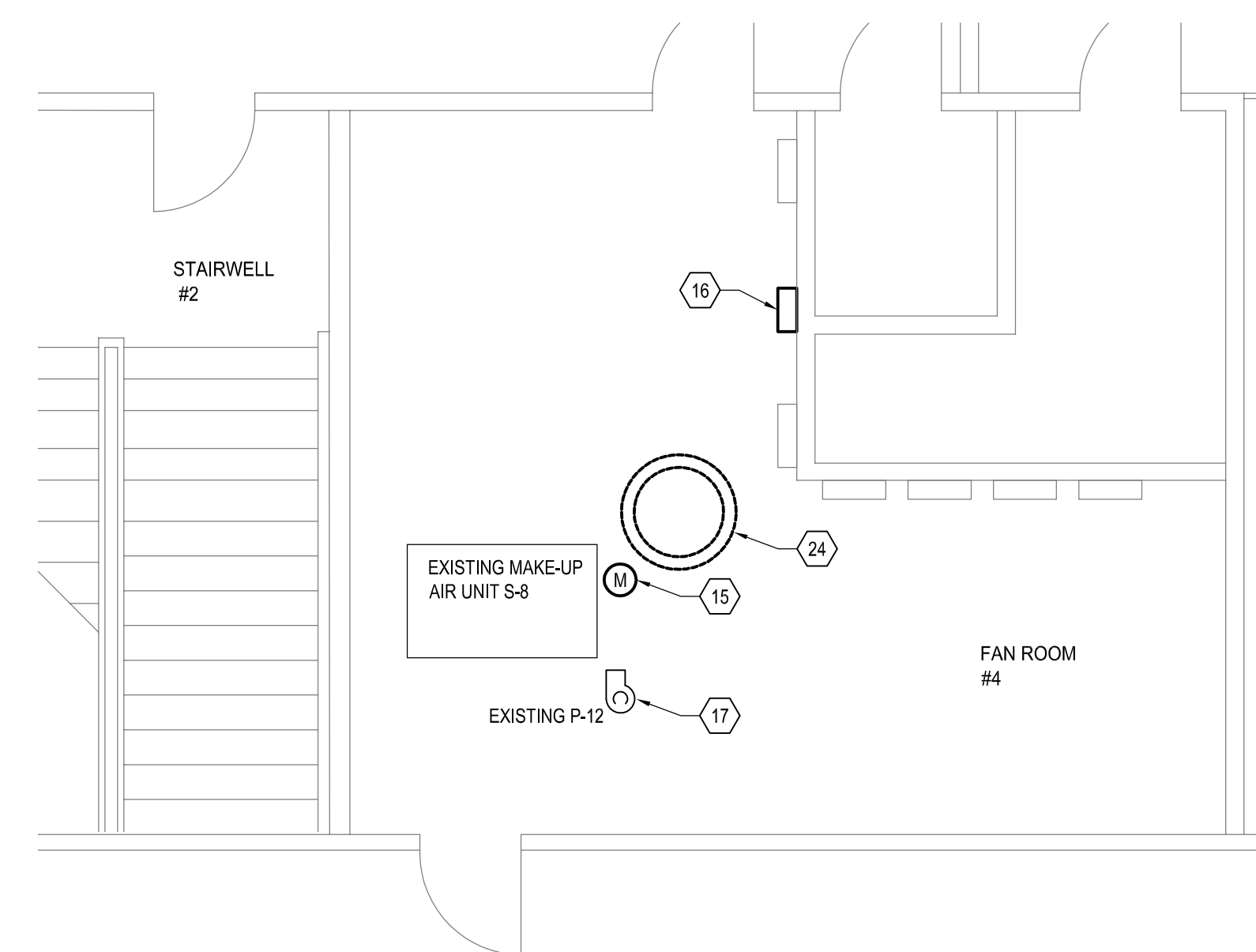
- 18 DETERMINE POWER SOURCE PRIOR TO DISCONNECTION AND DOCUMENT ON AS-BUILTS. FIXTURE MAY NOT BE POWERED FROM PANELBOARD IN WING BEING RENOVATED. DISCONNECT POWER TO EXISTING LIGHTING FIXTURE AT PANEL TO ALLOW SAFE REMOVAL OF LIGHT FIXTURE. REMOVAL OF EXISTING FIXTURES, AND CONDUIT/WIRING ABOVE CEILING SHALL BE BY CONSTRUCTION CONTRACT. COIL AND PROTECT EXISTING BRANCH CIRCUIT FOR REUSE.
- 19 EXISTING BLUETOOTH RADIO BEACON TO REMAIN.
- 20 EXISTING CONDUIT TO BE TEMPORARILY SUPPORTED BY CONSTRUCTION CONTRACT DURING CEILING ABATEMENT PROCESS. FOLLOWING THE ABATEMENT PROCESS CUT EXISTING SECURITY CAMERA CONDUIT WHERE IT ENTERS AND EXITS WING 1. REMOVE CONDUIT AND RETAIN SECURITY CAMERA CABLE FOR REINSTALLATION ABOVE SECURITY CEILING. SEE DRAWING E-301 FOR ADDITIONAL INFORMATION.
- 21 EXISTING CONDUIT TO BE TEMPORARILY SUPPORTED BY CONSTRUCTION CONTRACT DURING CEILING ABATEMENT PROCESS. FOLLOWING THE ABATEMENT PROCESS CUT EXISTING SECURITY CAMERA CONDUIT WHERE IT ENTERS AND EXITS WING 1. REMOVE CONDUIT AND RETAIN SECURITY CAMERA CABLE FOR REINSTALLATION ABOVE SECURITY CEILING. SEE DRAWING E-301 FOR ADDITIONAL INFORMATION.
- 22 DISCONNECT AND REMOVE EXISTING DATA OUTLET AND RECEPTACLE BACK TO SOURCE FOR ALL SHOWN, UNLESS NOTED OTHERWISE.
- 23 EXISTING RECEPTACLE AND DATA OUTLET TO REMAIN.
- 24 DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION TO EXISTING FAN BEING REMOVED LOCATED ON ROOF ABOVE. COIL AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-USE.
- 25 DISCONNECT AND REMOVE ELECTRICAL CONNECTION TO FAN COIL UNIT BEING REMOVED. REMOVE CONDUIT/CONDUCTORS TO FLOOR BELOW, COIL AND PROTECT EXISTING BRANCH CIRCUIT FOR RE-USE. FLOOR BELOW CONSISTS OF CORRIDOR WITH A SECURE CEILING WITH ACCESS DOORS.
- 26 CEILING MOUNTED CONDUITS TRANSITION TO WALL MOUNTED CONDUITS IN THIS LOCATION.

GENERAL NOTES

- 1. COORDINATE REMOVAL WITH OTHER TRADES, AND DIRECTORS REPRESENTATIVE.
- 2. ALL DEVICES AND EQUIPMENT, CONDUIT, RACEWAYS SURFACE MOUNTED TO CEILING SHALL BE REMOVED BY CONSTRUCTION CONTRACTOR, TYPICAL.
- 3. COORDINATE THE SHUTDOWN OF THE EXISTING FIRE ALARM SYSTEM WITH THE DIRECTOR'S REPRESENTATIVE TO ALLOW FOR FIRE ALARM REMOVAL AND REINSTALLATION WORK INDICATED ON THIS DRAWING AND E-301. LIMIT FIRE ALARM SHUTDOWN TO A SINGLE 12 HOUR SHUTDOWN. PROVIDE FIRE WATCH SERVICES THROUGH OUT THE FACILITY FOR THE DURATION OF THE 12 HOUR SHUTDOWN.
- 4. COORDINATE STAIRWAY NO. 5 DOOR CONTACT SHUTDOWN WITH DIRECTOR'S REPRESENTATIVE. LIMIT SHUTDOWN TO A SINGLE 8 HOUR SHUTDOWN.
- 5. THERE IS NO CEILING IN FAN ROOM ON THE SECOND FLOOR, AND IS OPEN TO STRUCTURE ABOVE.
- 6. REFER TO DRAWING A-501 FOR WALL DETAILS.
- 7. THERE IS APPROXIMATELY 2'-6-1/4" BETWEEN THE EXISTING CEILING AND THE UNDER SIDE OF THE SLAB ABOVE.

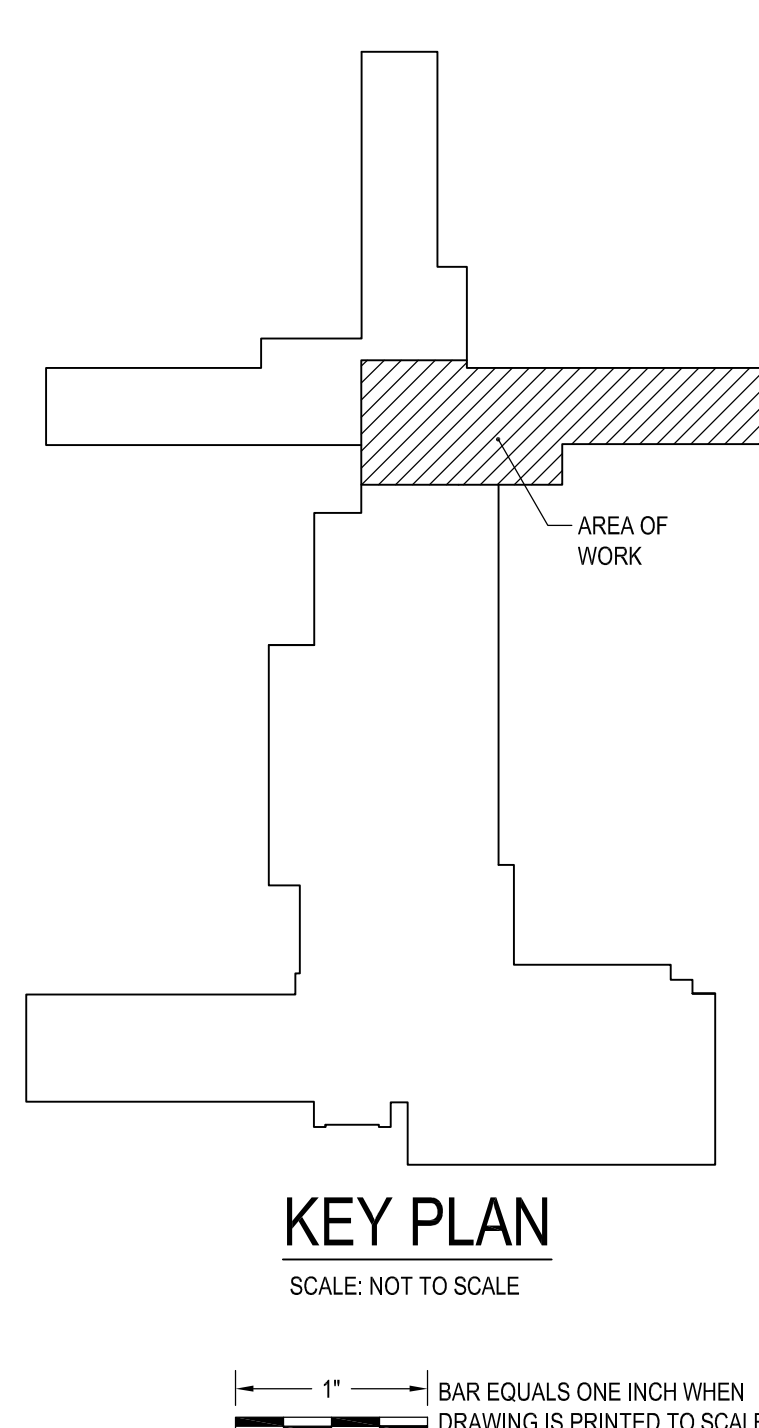
TEMPORARY POWER AND LIGHTING NOTES

- 1. PRIOR TO ANY REMOVAL WORK, CIRCUIT TRACE ALL EXISTING CIRCUITS FROM PANEL 1C, AND LABEL ON PANEL DIRECTORY. CIRCUITS SERVING LIGHTING AND POWER DEVICES, INDICATED TO BE REMOVED ON THE REMOVAL DRAWINGS, SHALL BE DISCONNECTED FROM THE PANEL AND REMOVED FROM PANEL ENCLOSURE. CIRCUITS SERVING RECEPTACLES AND OTHER POWERED DEVICES, INDICATED TO REMAIN, SHALL REMAIN ENERGIZED THROUGH PANEL 1C. EXISTING RECEPTACLES TO REMAIN SHALL BE UTILIZED BY THE CONSTRUCTION WORK CONTRACT FOR TEMPORARY LIGHTING AND POWER DURING THE ABATEMENT PROCESS. REFER TO SPECIFICATION SECTION 015000 FOR ADDITIONAL INFORMATION.
- 2. FOLLOWING THE HAZARDOUS MATERIAL ABATEMENT PROCESS, PROVIDE TEMPORARY LIGHTING WITHIN THE WORK AREA FOR THE DURATION OF THE PROJECT UNTIL PERMANENT LIGHTING IS AVAILABLE. UTILIZE THE EXISTING RECEPTACLES TO POWER THE TEMPORARY LIGHTING.
- 3. PROVIDE ANY ADDITIONAL WIRING AND OTHER EQUIPMENT FROM THE EXISTING POWER OUTLETS FOR TEMPORARY LIGHT AND POWER AS REQUIRED.
 - 3.a. WIRING FOR TEMPORARY LIGHT AND SINGLE PHASE POWER SHALL, IN GENERAL, CONSIST OF 3 WIRE, 120/240 VOLT OR 4 WIRE, 120/208 VOLT FEEDERS, WITH BRANCH CIRCUITS OF #12 CONDUCTORS MINIMUM.
 - 3.1.1. INSTALL BRANCH CIRCUITS WITH SUITABLE FLUORESCENT FIXTURES OR INCANDESCENT LAMP HOLDERS FOR TEMPORARY LIGHTING AS REQUIRED TO MAINTAIN A MINIMUM OF 10 FOOT CANDLES IN THE WORK AREAS. EQUIP FIXTURES AND LAMP HOLDERS WITH GUARDS. FIXTURES AND LAMP HOLDERS INSTALLED IN DAMP OR WET LOCATIONS SHALL BE OF THE WEATHERPROOF TYPE.
 - 3.1.2. INSTALL BRANCH CIRCUITS WITH FUSED GROUNDING TYPE RECEPTACLE OUTLETS FOR SINGLE PHASE POWER (FOR POWER TOOLS, ETC.).
- 4. PROVIDE LAMPS AND FUSES INCLUDING REPLACEMENTS REQUIRED.
- 5. PANEL 1C REPLACEMENT: PROVIDE PORTABLE BATTERY POWERED SOURCE OF ELECTRICITY FOR TEMPORARY LIGHT AND POWER OF ADEQUATE CAPACITY TO SUPPLY THE NEEDS OF ALL CONTRACTORS DURING THE REMOVAL OF THE EXISTING POWER PANEL 1C AND THE INSTALLATION OF THE REPLACEMENT POWER PANEL 1C.



2 PARTIAL SECOND FLOOR ELECTRICAL REMOVAL PLAN

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



KEY PLAN

SCALE: NOT TO SCALE

1" = 1" BAR EQUALS ONE INCH WHEN DRAWING IS PRINTED TO SCALE