

ADDENDUM NO. 2

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

**USB Roof Replacement & Latrine Renovation
Chillicothe Readiness Center
1500 Washington St.
Chillicothe, Missouri 64601
PROJECT NO.: T2519-01**

Bid Opening Date: 1:30 PM, Tuesday, September 8, 2026 (Not Changed)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. Section 06 40 23 – Interior Architectural Woodwork
 - a. ADDED section in its entirety.
2. Section 07 01 50 – Preparation for Re-Roofing
 - a. REVISED section in its entirety.
3. Section 07 53 23 – EPDM Roofing
 - a. REVISED paragraph 1.10.A.3 to have a Wind Resistance warranty: 72 MPH for 20 years from date of Substantial Completion.
 - b. REMOVED paragraph 2.4 INSULATION.
4. Section 07 62 00 – Sheet Metal Flashing and Trim
 - a. REVISED paragraph 2.3.A. Gutters: SMACNA (ASMM) Box profile – Style A.
 - b. REVISED paragraph 2.3.B. Downspouts: Box profile to match gutters.
 - c. REVISED paragraph 2.3.C. Gutters and Downspouts: 7 inches.

DRAWING CHANGES:

1. Sheet A-100 – First Floor Demolition Plans
 - a. ADDED area of floor to be saw cut for plumbing demolition and addition of new plumbing lines.
2. Sheet A-200 – Roof Demolition Plan & Roof Plan – USB Building
 - a. REVISED key notes regarding extent of roof demolition.
3. Sheet A-300 – Exterior Demolition Elevations – USB Building
 - a. REVISED key notes regarding extent of roof demolition.

4. Sheet A-400 – Wall Sections – USB Building
 - a. REVISED details to eliminate the addition of roofing insulation.
5. Sheet A-500 – Interior Elevations, Schedules & Details
 - a. REVISED Detail 7 to indicate finish materials as SSM-1 to align with the finishes schedule on F-100 First Floor Finishes Plan.
6. Sheet F-100 – First Floor Finishes Plan
 - a. ADDED ceiling designation to the room finishes schedule.

GENERAL COMMENTS:

1. Addendum No. 3 will be issued not later than 09/01/2026 with any changes resulting from Contractor submitted questions. The last day for Contractor submitted questions was 08/31/2026 at 12:00 P.M.

ATTACHMENTS:

1. Specification Sections: 064023, 070150, 075323, 076200
2. Drawings Sheets: A-100, A-200, A-300, A-400, A-500, F-100

August 31, 2026

END OF ADDENDUM NO. 2

SECTION 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK

1. PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Solid surface countertops.
- B. Related Requirements:
 - 1. Division 00 Section 00 73 00 "Supplementary Conditions", if included, for requirements relating to interpretation of the drawings and specifications.
 - 2. Division 01 Section 01 21 00 "Allowances", if included, for use of allowances and what may and may not be included in them.

1.3 DEFINITIONS

- A. Interior architectural woodwork includes wood furring, blocking, shims, and hanging strips for installing woodwork items unless concealed within other construction before woodwork installation.
- B. Rough carriages for stairs are a part of interior architectural woodwork. Platform framing, headers, partition framing, and other rough framing associated with stair work are specified in Division 06 Section "Rough Carpentry".

1.4 SUBMITTALS

- A. Product Data: For each type of product indicated, including finishing materials and processes.
- B. Product Data: For solid-surfacing material.
 - 1. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements.
- C. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.
 - 1. Show details full size.
 - 2. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections.
 - 3. Show locations and sizes of cutouts and holes for plumbing fixtures, faucets, soap dispensers and other items installed in architectural woodwork.

- D. Samples for Initial Selection:
 - 1. Solid-surfacing materials.
- E. Samples for Verification:
 - 1. Solid-surfacing materials, 6 inches (150 mm) square.
- F. Product Certificates: For each type of product, signed by product manufacturer.
- G. Woodwork Quality Standard Compliance Certificates: AWI Quality Certification Program certificates
- H. Qualification Data: For Installer and fabricator.

1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project, whose products have a record of successful in-service performance, and have sufficient capacity to produce required units without causing delay in the Work.
- B. Installer Qualifications: Fabricator of products who can demonstrate successful experience in installing architectural woodwork items similar in type and quality to those required for this project.
- C. Source Limitations: Engage a qualified woodworking firm to assume undivided responsibility for production of interior architectural woodwork with Solid Surface construction.
- D. Fire-Test-Response Characteristics: Where fire-retardant materials or products are indicated, provide materials and products with specified fire-test-response characteristics as determined by testing identical products per test method indicated by UL, ITS, or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify with appropriate markings of applicable testing and inspecting agency in the form of separable paper label or, where required by authorities having jurisdiction, imprint on surfaces of materials that will be concealed from view after installation.
- E. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 01 Section "Project Management and Coordination".

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Protect woodwork during delivery, storage, and handling to prevent damage, soilage, and deterioration.
- B. Do not deliver woodwork until painting, wet work, grinding, and similar operations that could damage, soil, or deteriorate woodwork have been completed in installation areas. If woodwork must be stored in other than installation areas, store only in areas where environmental conditions comply with requirements specified in "Project Conditions" Article.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver or install woodwork until building is enclosed, wet work is complete, and HVAC system is operating and maintaining temperature between 60 and 90 deg F (16 and 32 deg C) and relative humidity between and 70 percent during the remainder of the construction period.
- B. Field Measurements: Where woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
 - 1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before being enclosed, and indicate measurements on Shop Drawings.
 - 2. Established Dimensions: Where field measurement cannot be made without delaying the Work, establish dimensions and proceed with fabricating woodwork without field measurements. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

1.8 COORDINATION

- A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that interior architectural woodwork can be supported and installed as indicated.

2. PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Provide materials that comply with requirements of AWI's quality standard for each type of woodwork and quality grade specified, unless otherwise indicated.
- B. Solid-Surfacing Material: Homogeneous solid sheets of filled plastic resin complying with ISSFA-2.
 - 1. Manufacturers: Subject to compliance with requirements, provide products from one of the following manufacturers that may be incorporated into the Work:
 - a. ABA Industries.
 - b. Avonite, Inc.
 - c. E. I. du Pont de Nemours and Company.
 - d. Formica Corporation.
 - e. LG Chemical, Ltd.
 - f. Meganite Inc.; a division of the Pyrochem Group.
 - g. Nevamar Company, LLC; Decorative Products Div.
 - h. Samsung; Cheil Industries Inc.
 - i. Swan Corporation (The).
 - j. Transolid, Inc.
 - k. Wilsonart International; Div. of Premark International, Inc.
 - 2. Type: Standard type unless Special Purpose type is indicated.
 - 3. Colors and Patterns:

- a. **SSM-1**, (Basis of Design) DuPont Corian Solid Surface, Style/Color – Glacier White.
 - b. Solid Surfacing Material Thickness: As indicated.
4. Sinks and Lavatories:
- a. (Basis of Design) Seamed Under-mount Restroom Lavatories: DuPont Corian Solid Surface Seamed Under-mount Restroom Lavatory **810**, Style/Color – Glacier White

2.2 FIRE-RETARDANT-TREATED MATERIALS

- A. General: Where fire-retardant-treated materials are indicated, use materials complying with requirements in this Article that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified.
- 1. Do not use treated materials that do not comply with requirements of referenced woodworking standard or that are warped, discolored, or otherwise defective.
 - 2. Use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
 - 3. Identify fire-retardant-treated materials with appropriate classification marking of UL, U.S. Testing, Timber Products Inspection, or another testing and inspecting agency acceptable to authorities having jurisdiction.
- B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Comply with performance requirements of AWPA C20 (lumber) and AWPA C27 (plywood). Use the following treatment type:
- 1. Exterior Type: Organic-resin-based formulation thermally set in wood by kiln drying.
 - 2. Interior Type: Low-hygroscopic formulation.
 - 3. Mill lumber after treatment within limits set for wood removal that do not affect listed fire-test-response characteristics, using a woodworking plant certified by testing and inspecting agency.
 - 4. Mill lumber before treatment and implement special procedures during treatment and drying processes that prevent lumber from warping and developing discolorations from drying sticks or other causes, marring, and other defects affecting appearance of treated woodwork.
 - 5. Kiln-dry materials before and after treatment to levels required for untreated materials.
- C. Fire-Retardant Particleboard: Panels complying with the following requirements, made from softwood particles and fire-retardant chemicals mixed together at time of panel manufacture to achieve flame-spread index of 25 or less and smoke-developed index of 25 or less per ASTM E 84.
- 1. For panels 3/4 inch (19 mm) thick and less, comply with ANSI A208.1 for Grade M-2 except for the following minimum properties: modulus of rupture, 1600 psi (11 MPa); modulus of elasticity, 300,000 psi (2070 MPa); internal bond, 80 psi (550 kPa); and screw-holding capacity on face and edge, 250 and 225 lbf (1100 and 1000 N), respectively.

2. For panels 13/16 to 1-1/4 inches (20 - 32 mm) thick, comply with ANSI A208.1 for Grade M-1 except for the following minimum properties: modulus of rupture, 1300 psi (9 MPa); modulus of elasticity, 250,000 psi (1720 MPa); linear expansion, 0.50 percent; and screw-holding capacity on face and edge, 250 and 175 lbf (1100 and 780 N), respectively.
 3. Product: Subject to compliance with requirements, provide "Duraflake FR" by Weyerhaeuser.
- D. Fire-Retardant Fiberboard: Medium-density fiberboard panels complying with ANSI A208.2, made from softwood fibers, synthetic resins, and fire-retardant chemicals mixed together at time of panel manufacture to achieve flame-spread index of 25 or less and smoke-developed index of 200 or less per ASTM E 84.
1. Product: Subject to compliance with requirements, provide "Medite FR" by SierraPine Ltd.; Medite Div.

2.3 MISCELLANEOUS MATERIALS

- A. Furring, Blocking, Shims, and Hanging Strips: Softwood or hardwood lumber, kiln dried to less than 15 percent moisture content.
- B. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant treated softwood lumber, kiln dried to less than 15 percent moisture content.
- C. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide nonferrous metal or hot-dip galvanized anchors and inserts on inside face of exterior walls and elsewhere as required for corrosion resistance. Provide toothed steel or lead expansion bolt devices for drilled-in-place anchors. Furnish inserts and anchors, as required, to be set into concrete or masonry work for subsequent woodwork anchorage.
- D. Adhesives: Do not use adhesives that contain urea formaldehyde.
- E. VOC Limits for Installation Adhesives and Glues: Use installation adhesives that comply with the following limits for VOC content when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
1. Wood Glues: 30 g/L.
 2. Contact Adhesive: 250 g/L.
- F. Fasteners: Select material, type, size, and finish required for each use. Comply with FS FF-S-111 for screws; FS FF-N-105 for nails.

2.4 FABRICATION, GENERAL

- A. Interior Woodwork Grade: Unless otherwise indicated, provide Custom-grade interior woodwork complying with referenced quality standard.
- B. Wood Moisture Content: Comply with requirements of referenced quality standard for wood moisture content in relation to ambient relative humidity during fabrication and in installation areas.

- C. Sand fire-retardant-treated wood lightly to remove raised grain on exposed surfaces before fabrication.
- D. Fabricate woodwork to dimensions, profiles, and details indicated. Ease edges to radius indicated for the following:
 - 1. Corners of Cabinets and Edges of Solid-Wood (Lumber) Members 3/4-inch (19 mm) Thick or Less: 1/16 inch (1.5 mm).
 - 2. Edges of Rails and Similar Members More Than 3/4-inch (19 mm) Thick: 1/8-inch (3 mm).
 - 3. Corners of Cabinets and Edges of Solid-Wood (Lumber) Members and Rails: 1/16-inch (1.5 mm).
- E. Complete fabrication, including assembly, finishing and hardware application, to maximum extent possible before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
 - 1. Notify Architect seven days in advance of the dates and times woodwork fabrication will be complete.
 - 2. Trim fit assemblies at fabrication shop that cannot be shipped completely assembled. Install dowels, screws, bolted connectors, and other fastening devices that can be removed after trial fitting. Verify that various parts fit as intended and check measurements of assemblies against field measurements indicated on Shop Drawings before disassembling for shipment.
- F. Shop-cut openings to maximum extent possible to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.
 - 1. Seal edges of openings in countertops with a coat of varnish.
- G. Install glass to comply with applicable requirements in Division 08 Section "Glazing" and in GANA's "Glazing Manual". For glass in wood frames, secure glass with removable stops.

2.5 SOLID-SURFACING MATERIAL COUNTERTOPS

- A. Quality Standard: Comply with AWI Section 400 and its Division 400C "Countertops".
- B. Grade: Custom.
- C. Solid-Surfacing Material Thickness: 1/2-inch (13 mm)
- D. Colors, Patterns, and Finishes: Provide materials and products that result in colors and textures of solid surfacing complying with the following requirements:
 - 1. As indicated by manufacturer's designations
- E. Fabricate tops in one piece, unless otherwise indicated. Comply with solid-surfacing material manufacturer's written recommendations for adhesives, sealers, fabrication, and finishing.

1. Fabricate tops with shop-applied edges of materials and configuration indicated.
2. Fabricate tops with loose backsplashes for field application.

F. Install integral sink bowls in countertops in shop.

G. Drill holes in countertops for plumbing fittings and soap dispensers in shop.

3. PART 3 - EXECUTION

3.1 PREPARATION

- A. Before installation, condition woodwork to average prevailing humidity conditions in installation.
- B. Before installing architectural woodwork, examine shop-fabricated work for completion and complete work as required, including removal of packing and back-priming.

3.2 INSTALLATION

- A. Install woodwork plumb, level, true, and straight with no distortions. Shim as required with concealed shims. Install to a tolerance of 1/8 inch in 8'-0" (3 mm in 2400 mm) for plumb and level (including tops) and with no variations in flushness of adjoining surfaces.
- B. Scribe and cut woodwork to fit adjoining work and refinish cut surfaces or repair damaged finish at cuts.
- C. Fire-Retardant Treated Wood: Handle, store, and install fire-retardant treated wood to comply with chemical treatment manufacturer's written instructions, including those for adhesives used to install woodwork.
- D. Anchor woodwork to anchors or blocking built in or directly attached to substrates. Secure with countersunk, concealed fasteners and blind nailing as required for complete installation. Use fine finishing nails or finishing screws for exposed fastening, countersunk, and filled flush with woodwork and matching final finish if transparent finish is indicated.
- E. Standing and Running Trim: Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to the greatest extent possible. Do not use pieces less than 36 inches (900 mm) long, except where shorter single-length pieces are necessary. Scarf running joints and stagger in adjacent and related members. Stagger joints in adjacent and related members. Cope at returns and miter at corners.
 1. Fill gaps, if any, between top of base and wall with plastic wood filler, sand smooth, and finish same as wood base if finished.
 2. Install wall railings on indicated metal brackets securely fastened to wall framing.
 3. Install standing and running trim with no more variation from a straight line than 1/8-inch in 8'-0" (3 mm on 2400 mm).
- F. Countertops: Anchor securely by screwing through corner blocks of base cabinets or other supports into underside of countertop.
 1. Align adjacent solid-surfacing material countertops and form seams to comply with manufacturer's written recommendations using adhesive in color to match countertop. Carefully dress joints smooth, remove surface scratches, and clean entire surface.

2. Install countertops with no more than 1/8-inch in 8'-0" (3 mm in 2400 mm) sag, bow, or other variation from a straight line.
 3. Secure backsplashes to tops with concealed metal brackets at 16 inches (400 mm) o.c. and to walls with adhesive.
 4. Caulk space between backsplash and wall with sealant specified in Division 07 Section "Joint Sealants".
- G. Touch up finishing work specified in this Section after installation of woodwork. Fill nail holes with matching filler where exposed.
- H. Quality Standard: Install woodwork to comply with AWI Section 1700. Quality Standard: Install woodwork to comply with AWI Section 1700.
- I. Miscellaneous Accessories: Install per manufacturer's instructions using fasteners appropriate to substrate and recommended by manufacturer of unit. Install units plumb and level, firmly anchored, at locations as indicated on drawings.

3.3 ADJUSTING AND CLEANING

- A. Repair damaged and defective woodwork where possible to eliminate functional and visual defects; where not possible to repair, replace woodwork. Adjust joinery for uniform appearance.
- B. Clean, lubricate, and adjust hardware.
- C. Clean woodwork on exposed and semi-exposed surfaces. Touch up shop-applied finishes restoring damaged or soiled areas.

3.4 PROTECTION

- A. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, which ensures that woodwork is without damage or deterioration at time of Substantial Completion.

END OF SECTION 06 40 23

SECTION 07 01 50 - PREPARATION FOR REROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Full roof recovering of roof areas indicated.
 - 2. Removal of base flashings.
 - 3. Temporary roofing.
- B. Related Requirements:
 - 1. Section 01 10 00 "Summary of Work" for use of the premises and phasing requirements.
 - 2. Section 01 50 00 "Construction Facilities and Temporary Controls" for temporary construction and environmental-protection measures for reroofing preparation.

1.3 DEFINITIONS

- A. Roofing Terminology: Definitions in ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" apply to work of this Section.
- B. Roof Re-Cover Preparation: Existing roofing system is to remain and be prepared for new roof installed over it.
- C. Full Roof Tear-Off: Removal of existing roofing system from deck.
- D. Partial Roof Tear-Off: Removal of selected components and accessories from existing roofing system.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Include plans, sections, and details.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces, that might be misconstrued as having been damaged by reroofing operations. Submit before Work begins.

1.6 QUALITY ASSURANCE

- A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning roofing removal. Comply with hauling and disposal regulations of authorities having jurisdiction.
- B. Roofing Re-Cover Conference: Conduct conference at Project site.
 - 1. Meet with Owner; Architect; Owner's insurer if applicable; testing and inspecting agency representative; roofing system manufacturer's representative; roofing Installer, including project manager, superintendent, and foreman; and installers whose work interfaces with or affects reroofing, including installers of roof deck, roof accessories, and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing system tear-off and replacement, including, but not limited to, the following:
 - a. Re-roofing preparation, including roofing system manufacturer's written instructions.
 - b. Temporary protection requirements for existing roofing system components that are to remain.
 - c. Existing roof drainage during each stage of reroofing, and roof-drain plugging and plug removal.
 - d. Construction schedule and availability of materials, Installer's personnel, equipment, and facilities needed to avoid delays.
 - e. Existing roof deck conditions requiring notification of Architect.
 - f. Existing roof deck removal procedures and Owner notifications.
 - g. Condition and acceptance of existing roof deck and base flashing substrate for reuse.
 - h. Structural loading limitations of roof deck during reroofing.
 - i. Base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that affect reroofing.
 - j. HVAC shutdown and sealing of air intakes.
 - k. Governing regulations and requirements for insurance and certificates if applicable.
 - l. Existing conditions that may require notification of Architect before proceeding.

1.7 FIELD CONDITIONS

- A. Existing Roofing System: EPDM membrane roofing over built up roofing system.
- B. Owner will occupy portions of building immediately below reroofing area. Conduct reroofing so Owner's operations are not disrupted. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.
 - 1. Coordinate work activities daily with Owner so Owner can place protective dust and water-leakage covers over sensitive equipment and furnishings, shut down HVAC and fire-alarm or -detection equipment if needed, and evacuate occupants from below work area.
 - 2. Before working over structurally impaired areas of deck, notify Owner to evacuate occupants from below affected area. Verify that occupants below work area have been evacuated before proceeding with work over impaired deck area.
- C. Protect building to be re-roofed, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from reroofing operations.
- D. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
- E. Conditions existing at time of inspection for bidding are maintained by Owner as far as practical.

- F. Weather Limitations: Proceed with reroofing preparation only when existing and forecasted weather conditions permit Work to proceed without water entering existing roofing system or building.
 - 1. Remove only as much roofing in one day as can be made watertight in the same day.
- G. Hazardous Materials: It is not expected that hazardous materials, such as asbestos-containing materials, will be encountered in the Work.
 - 1. If materials suspected of containing hazardous materials are encountered, do not disturb; immediately notify Architect and Owner. Hazardous materials will be removed by Owner under a separate contract.

1.8 WARRANTY

- A. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during reroofing, by methods and with materials so as not to void existing roofing system warranty. Notify warrantor before proceeding.
 - 1. Notify warrantor of existing roofing system on completion of reroofing, and obtain documentation verifying that existing roofing system has been inspected and warranty remains in effect. Submit documentation at Project closeout.

PART 2 - PRODUCTS

2.1 INFILL AND REPLACEMENT MATERIALS

- A. Use infill materials matching existing roofing system materials unless otherwise indicated.
- B. Wood blocking, curbs, and nailers are specified in Section 06 10 00 "Rough Carpentry."

2.2 AUXILIARY REROOFING MATERIALS

- A. General: Use auxiliary reroofing preparation materials recommended by roofing system manufacturer for intended use and compatible with components of existing and new roofing system.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Shut off rooftop utilities and service piping before beginning the Work.
- B. Protect existing roofing system that is to be re-roofed.
 - 1. Maintain temporary protection and leave in place until replacement roofing has been completed. Remove temporary protection on completion of reroofing.
- C. Coordinate with Owner to shut down air-intake equipment in the vicinity of the Work. Cover air-intake louvers before proceeding with reroofing work that could affect indoor air quality or activate smoke detectors in the ductwork.

- D. During re-covering operations, have sufficient and suitable materials on-site to facilitate rapid installation of temporary protection in the event of unexpected rain.
- E. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.
 - 1. If roof drains are temporarily blocked or unserviceable due to roofing system removal or partial installation of new roofing system, provide alternative drainage method to remove water and eliminate ponding. Do not permit water to enter into or under existing roofing system components that are to remain.

3.2 ROOF TEAR-OFF

- A. General: Notify Owner each day of extent of roof tear-off proposed for that day.
- B. Full Roof Re-Cover: Where indicated, remove existing roofing and other roofing system components down to the existing built up roofing system.
 - 1. Remove existing epdm membrane and 1/2" wood fiber as applicable.
 - 2. Remove wood blocking, curbs, and nailers.

3.3 PREPARATION

- A. If existing structural surface is unsuitable for receiving new roofing or if structural integrity of structure or decking (if applicable) is suspect, immediately notify Architect. Do not proceed with installation until directed by Architect.

3.4 INFILL MATERIALS INSTALLATION

- A. Immediately after roof tear-off, and inspection and repair, if needed, of deck, fill in tear-off areas to match existing roofing system construction.
 - 1. Installation of wood blocking, curbs, and nailers is specified in Section 06 10 00 "Rough Carpentry."
- B. Install new roofing patch over roof infill area. If new roofing is installed the same day tear-off is made, roofing patch is not required.

3.5 BASE FLASHING REMOVAL

- A. Remove existing base flashings. Clean substrates of contaminants, such as asphalt, sheet materials, dirt, and debris.
- B. Do not damage metal counterflashings that are to remain. Replace metal counterflashings damaged during removal with counterflashings of same metal, weight or thickness, and finish.
- C. Inspect wood blocking, curbs, and nailers for deterioration and damage. If sheathing, wood blocking, curbs, or nailers have deteriorated, immediately notify Architect.
- D. When directed by Architect, replace parapet framing, wood blocking, curbs, and nailers to comply with Section 06 10 00 "Rough Carpentry."

3.6 DISPOSAL

- A. Collect demolished materials and place in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
 - 1. Storage or sale of demolished items or materials on-site is not permitted.
- B. Transport and legally dispose of demolished materials off Owner's property.

END OF SECTION 07 01 50

SECTION 07 53 23 - ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Adhered ethylene-propylene-diene-monomer (EPDM) roofing system.
 - 2. Polyisocyanurate Insulation.
 - 3. Cover Board.
- B. Related Requirements:
 - 1. Section 061000 "Rough Carpentry" for wood nailers, curbs, and blocking
 - 2. Section 070150 "Preparation for Re-Roofing" for re-cover board beneath new roofing.
 - 3. Section 076200 "Sheet Metal Flashing and Trim" for metal roof flashings and counterflashings.
 - 4. Section 079200 "Joint Sealants" for joint sealants, joint fillers, and joint preparation.

1.3 DEFINITIONS

- A. Roofing Terminology: Definitions in ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" apply to work of this Section.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Roofing Conference: Conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, testing and inspecting agency representative, roofing Installer, roofing system manufacturer's representative, deck Installer, and installers whose work interfaces with or affects roofing, including installers of roof accessories and roof-mounted equipment.
 - 2. Review methods and procedures related to roofing installation, including manufacturer's written instructions.
 - 3. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 4. Examine deck substrate conditions and finishes for compliance with requirements, including flatness and fastening.
 - 5. Review structural loading limitations of roof deck during and after roofing.
 - 6. Review base flashings, special roofing details, roof drainage, roof penetrations, equipment curbs, and condition of other construction that affects roofing system.
 - 7. Review governing regulations and requirements for insurance and certificates if applicable.

8. Review temporary protection requirements for roofing system during and after installation.
9. Review roof observation and repair procedures after roofing installation.

1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: For roofing system. Include plans, elevations, sections, details, and attachments to other work, including:
 1. Base flashings and membrane terminations.
 2. Insulation fastening patterns for corner, perimeter, and field-of-roof locations.
- C. Samples for Verification: For the following products:
 1. 12 inch by 12 inch sample of sheet roofing membrane from material used in project.

1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and manufacturer.
- B. Manufacturer Certificates: Signed by roofing manufacturer certifying that roofing system complies with requirements specified in "Performance Requirements" Article.
 1. Submit evidence of complying with performance requirements.
- C. Product Test Reports: For components of roofing system, tests performed by manufacturer and witnessed by a qualified testing agency.
- D. Research/Evaluation Reports: For components of roofing system, from ICC-ES.
- E. Field quality-control reports.
- F. Sample Warranties: For manufacturer's special warranties.

1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For roofing system to include in maintenance manuals.

1.8 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer that is FM Global approved for roofing system identical to that used for this Project.
- A. Installer Qualifications: Company specializing in performing work of this section with at least five years of documented experience and manufacturer's certification to install the specified roof system.
 1. Roof foreman and 50% of installing crew must be trained and certified in the installation of specified roofing system. In addition, foreman will be full time at project site through roof completion

B. DELIVERY, STORAGE, AND HANDLING

- C. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, approval or listing agency markings, and directions for storing and mixing with other components.
- D. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight.
1. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- E. Protect roof insulation materials from physical damage and from deterioration by sunlight, moisture, soiling, and other sources. Store in a dry location. Comply with insulation manufacturer's written instructions for handling, storing, and protecting during installation.
- F. Handle and store roofing materials, and place equipment in a manner to avoid permanent deflection of deck.

1.9 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within specified warranty period.
1. Special warranty includes membrane roofing, base flashings, and other components of roofing system.
 2. Warranty Period: 20 years from date of Substantial Completion.
 3. Wind Resistance warranty: 72 MPH for 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain components including primary roofing materials for roofing system from same manufacturer as membrane roofing to the extent possible.

2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Installed roofing and base flashings shall withstand specified uplift pressures, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Roofing and base flashings shall remain watertight.

1. Accelerated Weathering: Roofing system shall withstand 2000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
 2. Impact Resistance: Roofing system shall resist impact damage when tested according to ASTM D 3746 or ASTM D 4272.
 3. Uplift Requirements: Roofing system shall
- B. Material Compatibility: Roofing materials shall be compatible with one another and adjacent materials under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- C. FM Global Listing: Roofing, base flashings, and component materials shall comply with requirements in FM Global 4450 or FM Global 4470 as part of a roofing system, and shall be listed in FM Global's "RoofNav" for Class 1 or noncombustible construction, as applicable. Identify materials with FM Global markings.
1. Fire/Windstorm Classification: Class 1A-90.
 2. Hail-Resistance Rating: SH
 3. Minimum Wind Speed Warranty: 72 MPH.
- D. Exterior Fire-Test Exposure: ASTM E 108 or UL 790, Class A; for application and roof slopes indicated; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- E. Fire-Resistance Ratings: Comply with fire-resistance-rated assembly designs indicated. Identify products with appropriate markings of applicable testing agency.

2.3 EPDM ROOFING

- A. EPDM: ASTM D 4637, Type I, nonreinforced, uniform, flexible EPDM sheet.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Carlisle SynTec Incorporated.
 - b. Elevate.holcimelevate.com/#sle
 - c. GAF Materials Corporation.
 - d. Johns Manville.
 - e. Mule-Hide Products Co., Inc.
 - f. Versico Incorporated.
 - g. Or equal, if and as specifically approved by Architect.
 2. Thickness: 60 mils (1.5 mm), nominal.
 3. Exposed Face Color: As selected by Architect from Manufacturer's full range.

2.4 COVER BOARDS

- A. Cover Boards: Glass-mat faced gypsum panels complying with ASTM C1177/C1177M.
1. Thickness: 1/2 inch (12.7 mm), fire resistant.
 2. Products:
 - a. Georgia-Pacific; DensDeck: www.densdeck.com/#sle.
 - b. Gold Bond Building Products, LLC provided by National Gypsum Company; DEXcell Glass Mat Roof Board: www.goldbondbuilding.com/#sle.

- c. USG Corporation; Securock Ultralight Glass-Mat Roof Board: www.usg.com/#sle.

2.5 AUXILIARY ROOFING MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with roofing.
 - 1. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
 - 2. Adhesives and sealants that are not on the exterior side of weather barrier shall comply with the following limits for VOC content:
 - a. Plastic Foam Adhesives: 50 g/L.
 - b. Gypsum Board and Panel Adhesives: 50 g/L.
 - c. Multipurpose Construction Adhesives: 70 g/L.
 - d. Fiberglass Adhesives: 80 g/L.
 - e. Single-Ply Roof Membrane Adhesives: 250 g/L.
 - f. Single-Ply Roof Membrane Sealants: 450 g/L.
 - g. Nonmembrane Roof Sealants: 300 g/L.
 - h. Sealant Primers for Nonporous Substrates: 250 g/L.
 - i. Sealant Primers for Porous Substrates: 775 g/L.
 - j. Other Adhesives and Sealants: 250 g/L.
 - 3. Adhesives and sealants that are not on the exterior side of weather barrier shall comply with the testing and product requirements of the California Department of Public Health's (formerly, the California Department of Health Services') "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- B. Sheet Flashing: 60-mil- (1.5-mm-) thick EPDM, partially cured or cured, according to application.
- C. Protection Sheet: Epichlorohydrin or neoprene nonreinforced flexible sheet, 55- to 60-mil- (1.4- to 1.5-mm-) thick, recommended by EPDM manufacturer for resistance to hydrocarbons, non-aromatic solvents, grease, and oil.
- D. Bonding Adhesive: Manufacturer's standard, water based.
- E. Modified Asphaltic Fabric-Backed Membrane Adhesive: Roofing system manufacturer's standard modified asphalt, asbestos-free, cold-applied adhesive formulated for compatibility and use with fabric-backed membrane roofing.
- F. Water-Based, Fabric-Backed Membrane Adhesive: Roofing system manufacturer's standard water-based, cold-applied adhesive formulated for compatibility and use with fabric-backed membrane roofing.
- G. Low-Rise, Urethane, Fabric-Backed Membrane Adhesive: Roof system manufacturer's standard spray-applied, low-rise, two-component urethane adhesive formulated for compatibility and use with fabric-backed membrane roofing.
- H. Seaming Material: Manufacturer's standard, synthetic-rubber polymer primer and 3-inch- (75-mm-) wide minimum, butyl splice tape with release film.

- I. Lap Sealant: Manufacturer's standard, single-component sealant, colored to match membrane roofing.
- J. Water Cutoff Mastic: Manufacturer's standard butyl mastic sealant.
- K. Metal Termination Bars: Manufacturer's standard, predrilled stainless-steel or aluminum bars, approximately 1 by 1/8 inch (25 by 3 mm) thick; with anchors.
- L. Metal Battens: Manufacturer's standard, aluminum-zinc-alloy-coated or zinc-coated steel sheet, approximately 1 inch wide by 0.05 inch thick (25 mm wide by 1.3 mm thick), prepunched.
- M. Fasteners: Factory-coated steel fasteners and metal or plastic plates complying with corrosion-resistance provisions in FM Global 4470, designed for fastening membrane to substrate, and acceptable to roofing system manufacturer.
- N. Miscellaneous Accessories: Provide pourable sealers, preformed cone and vent sheet flashings, molded pipe boot flashings, preformed inside and outside corner sheet flashings, reinforced EPDM securement strips, T-joint covers, in-seam sealants, termination reglets, cover strips, and other accessories.
 - 1. Provide white flashing accessories for white EPDM membrane roofing.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance of the Work:
 - 1. Verify that roof openings and penetrations are in place, curbs are set and braced, and roof-drain bodies are securely clamped in place.
 - 2. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations and that nailers match thicknesses of insulation.
 - 3. Verify that surface plane flatness and fastening of steel roof deck complies with requirements in Section 053100 "Steel Decking."
 - 4. Verify that minimum concrete drying period recommended by roofing system manufacturer has passed.
 - 5. Verify that concrete substrate is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D 4263.
 - 6. Verify that concrete-curing compounds that will impair adhesion of roofing components to roof deck have been removed.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.

- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- C. Install insulation strips according to acoustical roof deck manufacturer's written instructions.

3.3 ROOFING INSTALLATION, GENERAL

- A. Install roofing system according to roofing system manufacturer's written instructions.
- B. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.
- C. Install roofing and auxiliary materials to tie in to existing roofing to maintain weathertightness of transition and to not void warranty for existing roofing system if applicable.

3.4 ADHERED MEMBRANE ROOFING INSTALLATION

- A. Adhere roofing over area to receive roofing according to membrane roofing system manufacturer's written instructions. Unroll membrane roofing and allow to relax before installing.
- B. Start installation of roofing in presence of roofing system manufacturer's technical personnel.
- C. Accurately align roofing, and maintain uniform side and end laps of minimum dimensions required by manufacturer. Stagger end laps.
- D. Bonding Adhesive: Apply to substrate and underside of roofing at rate required by manufacturer, and allow to partially dry before installing roofing. Do not apply to splice area of roofing.
- E. In addition to adhering, mechanically fasten roofing securely at terminations, penetrations, and perimeters.
- F. Apply roofing with side laps shingled with slope of roof deck where possible.
- G. Adhesive Seam Installation: Clean both faces of splice areas, apply splicing cement, and firmly roll side and end laps of overlapping roofing according to manufacturer's written instructions to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of roofing terminations.
 - 1. Apply a continuous bead of in-seam sealant before closing splice if required by roofing system manufacturer.
- H. Tape Seam Installation: Clean and prime both faces of splice areas, apply splice tape, and firmly roll side and end laps of overlapping roofing according to manufacturer's written instructions to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of roofing terminations.
- I. Repair tears, voids, and lapped seams in roofing that do not comply with requirements.
- J. Spread sealant or mastic bed over deck-drain flange at roof drains, and securely seal membrane roofing in place with clamping ring.

- K. Adhere protection sheet over membrane roofing at locations indicated.

3.5 BASE FLASHING INSTALLATION

- A. Install sheet flashings and preformed flashing accessories, and adhere to substrates according to roofing system manufacturer's written instructions.
- B. Apply bonding adhesive to substrate and underside of sheet flashing at required rate, and allow to partially dry. Do not apply to seam area of flashing.
- C. Flash penetrations and field-formed inside and outside corners with cured or uncured sheet flashing.
- D. Clean splice areas, apply splicing cement, and firmly roll side and end laps of overlapping sheets to ensure a watertight seam installation. Apply lap sealant and seal exposed edges of sheet flashing terminations.
- E. Terminate and seal top of sheet flashings and mechanically anchor to substrate through termination bars.

3.6 FIELD QUALITY CONTROL

- A. Final Roof Inspection: Arrange for roofing system manufacturer's technical personnel to inspect roofing installation on completion.
- B. Repair or remove and replace components of roofing system where inspections indicate that they do not comply with specified requirements.
- C. Additional testing and inspecting, at Contractor's expense, will be performed to determine if replaced or additional work complies with specified requirements.

3.7 PROTECTING AND CLEANING

- A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction does not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements, repair substrates, and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 07 53 23

SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Fabricated sheet metal items, including flashings, counterflashings, gutters, downspouts, roofing expansion joint assemblies, and other items indicated in Schedule.
- B. Sealants for joints within sheet metal fabrications.

1.2 RELATED REQUIREMENTS

- A. Section 06 10 00 - Rough Carpentry: Wood nailers for sheet metal work.
- B. Section 07 92 00 - Joint Sealants: Sealing non-lap joints between sheet metal fabrications and adjacent construction.

1.3 REFERENCE STANDARDS

- A. AAMA 2605 - Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2017a.
- B. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2020.
- C. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.
- D. ASTM C920 - Standard Specification for Elastomeric Joint Sealants; 2018.
- E. ASTM D226/D226M - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2017.
- F. CDA A4050 - Copper in Architecture - Handbook; current edition.
- G. SMACNA (ASMM) - Architectural Sheet Metal Manual; 2012.

1.4 QUALITY ASSURANCE

- A. Perform work in accordance with SMACNA (ASMM) and CDA A4050 requirements and standard details, except as otherwise indicated.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.
- B. Prevent contact with materials that could cause discoloration or staining.

PART 2 PRODUCTS

2.1 SHEET MATERIALS

- A. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 24 gauge, (0.0239) inch (0.61 mm) thick base metal, shop pre-coated with PVDF coating.
 - 1. PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic Finish, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system.
 - 2. Color: As selected by Architect from manufacturer's full range of custom colors.
- B. Stainless Steel: ASTM A666, Type 304 alloy, soft temper, 28 gauge, (0.0156 inch) (0.40 mm) thick; smooth No. 4 - Brushed finish.

2.2 FABRICATION

- A. Form sections true to shape, accurate in size, square, and free from distortion or defects.
- B. Form pieces in longest possible lengths.
- C. Hem exposed edges on underside 1/2 inch (13 mm); miter and seam corners.
- D. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.
- E. Fabricate corners from one piece with minimum 18 inch (450 mm) long legs; seam for rigidity, seal with sealant.
- F. Fabricate vertical faces with bottom edge formed outward 1/4 inch (6 mm) and hemmed to form drip.
- G. Fabricate flashings to allow toe to extend 2 inches (50 mm) over roofing gravel. Return and brake edges.

2.3 GUTTER AND DOWNSPOUT FABRICATION

- A. Gutters: SMACNA (ASMM) Box Profile – Style A.
- B. Downspouts: Box profile to match gutters.
- C. Gutters and Downspouts: 7 inches.
- D. Accessories: Profiled to suit gutters and downspouts.
 - 1. Anchorage Devices: In accordance with SMACNA (ASMM) requirements.
 - 2. Gutter Supports: Brackets.
 - 3. Downspout Supports: Brackets.
- E. Downspout Boots: Cast iron.
- F. Seal metal joints.

2.4 ACCESSORIES

- A. Fasteners: Galvanized steel, with soft neoprene washers.
- B. Underlayment: ASTM D226/D226M, organic roofing felt, Type I (No. 15).
- C. Primer: Zinc chromate type.
- D. Concealed Sealants: Non-curing butyl sealant.
- E. Exposed Sealants: ASTM C920; elastomeric sealant, with minimum movement capability as recommended by manufacturer for substrates to be sealed; color to match adjacent material.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof are solidly set, reglets in place, and nailing strips located.
- B. Verify roofing termination and base flashings are in place, sealed, and secure.

3.2 PREPARATION

- A. Install starter and edge strips, and cleats before starting installation.
- B. Back paint concealed metal surfaces with protective backing paint to a minimum dry film thickness of 15 mil (0.4 mm).

3.3 INSTALLATION

- A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted..
- B. Apply plastic cement compound between metal flashings and felt flashings.
- C. Fit flashings tight in place; make corners square, surfaces true and straight in planes, and lines accurate to profiles.
- D. Seal metal joints watertight.
- E. Secure gutters and downspouts in place with concealed fasteners.
- F. Slope gutters 1/4 inch per 10 feet (2.1 mm per m), minimum.
- G. Connect downspouts to downspout boots, and grout connection watertight.

3.4 SCHEDULE

- A. Fascia and Cornices:

- B. Gutters and Downspouts:
- C. 1. Material: Pre-Finished Galvanized Steel
- D. Sheet Metal Roof Expansion Joint Covers, and Roof-to-Wall Joint Covers:
- E. 1. Material: Stainless Steel
- F. Counterflashings at Roofing Terminations (over roofing base flashings):
- G. 1. Material: Pre-Finished Galvanized Steel
- H. Counterflashings at Curb-Mounted Roof Items:
- I. 1. Material: Pre-Finished Galvanized Steel
- J. Roofing Penetration Flashings, for Pipes, Structural Steel, and Equipment Supports:
- K. 1. Material: Stainless Steel

END OF SECTION 07 62 00



PROFESSIONAL SEAL

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OFFICE OF
ADMINISTRATION
DIVISION OF FACILITIES,
MANAGEMENT, DESIGN
AND CONSTRUCTION

DEPARTMENT OF
PUBLIC SAFETY

MISSOURI ARMY
NATIONAL GUARD

Chillicothe Readiness Center -
USB Roof Replacement &
Latrine Renovation

1500 Washington St.
Chillicothe, MO 64601

PROJECT #: T2519-01

SITE #: 6252

ASSET #: 8136252002

REVISION: ADDENDUM #02
DATE: 8/28/2026
REVISION:
DATE:
REVISION:
DATE:

ISSUE DATE: 7/31/2026

DRAWN BY: JK
CHECKED BY: RW
DESIGNED BY: JK

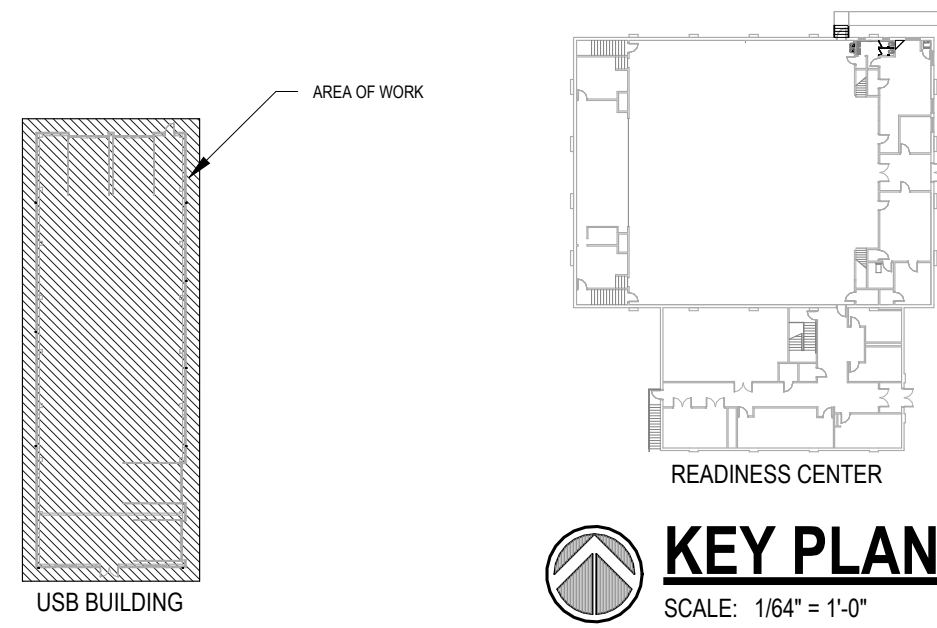
SHEET TITLE:

Roof Demolition Plan &
Roof Plan - USB
Building

SHEET NUMBER:

A-200

7/31/2026



GENERAL DEMOLITION NOTES

1. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL OF ALL SALVAGEABLE ITEMS.
2. PROTECT ITEMS NOT BEING REMOVED FROM DAMAGE DURING CONSTRUCTION.
3. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BIDDING TO DETERMINE THE TOTAL QUANTITIES AND SCOPE OF WORK THAT IS TO OCCUR AND COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF NEW WORK WITHIN EXISTING CONDITIONS.
5. ALL MATERIALS REMOVED AND NOT REUSED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFICALLY DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER.
6. ALL WALLS INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ALL ELECTRICAL RECEPTACLES, SWITCHES AND CONDUITS, TELEPHONE OUTLETS, WIRING, MECHANICAL PIPING, AND PLUMBING, ETC.
7. REMOVE ALL SURFACE MOUNTED OBJECTS IN AREA OF WORK THAT ARE ABANDONED AND NOT INTENDED FOR REUSE. PREPARE SURFACE FOR NEW FINISH.
8. COORDINATE ALL DEMOLITION WORK BETWEEN TRADES.
9. CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DEMOLITION WORK APPEARS TO AFFECT THE STRUCTURAL INTEGRITY OF THE EXISTING BUILDING BEFORE PROCEEDING WITH DEMOLITION ACTIVITIES.
10. REFER TO REFLECTED CEILING PLANS, MECHANICAL SHEETS, & ELECTRICAL SHEETS FOR ADDITIONAL DEMOLITION INFORMATION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING MATERIALS TO REMAIN RESULTING FROM WORK UNDER THIS CONTRACT, AND SHALL RESTORE SUCH DAMAGE TO ITS ORIGINAL CONDITION.
12. BEFORE DEMOLITION BEGINS, CONTRACTOR SHALL CONFER WITH THE OWNER AND/OR BUILDING USERS TO SCHEDULE DISRUPTION OF DAILY ACTIVITIES.
13. ALL PRODUCTS AND EQUIPMENT SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
14. PURSUANT TO THE FEDERAL OSHA EMPLOYEE RIGHT-TO-KNOW ACT, THE CONTRACTOR IS HEREBY ADVISED THAT A POTENTIAL FOR LEAD HAZARD EXISTS. LEAD PAINT CAN BE PRESENT ON OLDER PAINTED SURFACES. THE CONTRACTOR IS ADVISED THAT HE/SHE IS RESPONSIBLE TO COMPLY WITH THE FEDERAL STANDARDS FOR LEAD PAINT IN THE CONSTRUCTION INDUSTRY THAT WERE ADOPTED IN JUNE OF 1993 BY OSHA CFR 29 PART 1926.62. THESE REGULATIONS REQUIRE THE CONTRACTOR TO DEVELOP WORK STRATEGIES WHEN WORKING WITH LEAD TO MINIMIZE AND PROTECT WORKERS FROM LEAD HAZARDS.
15. ASBESTOS ABATEMENT WILL BE PERFORMED UNDER SEPARATE CONTRACT. IF ASBESTOS IS SUSPECTED OR DISCOVERED DURING DEMOLITION, NOTIFY THE ARCHITECT.
16. CONSTRUCTION AREA SHALL BE KEPT CLEAN AND SAFE. DISPOSE OF DEBRIS DAILY AND CLEAN AREAS OF WORK UPON COMPLETION.
17. FINAL CLEANING SHALL INCLUDE THE FOLLOWING:
 - A. REMOVE LABELS THAT ARE NOT INTENDED TO BE PERMANENT.
 - B. CLEAN ALL TRANSPARENT SURFACES, INCLUDING MIRRORS AND GLASS IN DOORS AND WINDOWS.
 - C. CLEAN EXPOSED SURFACES AND INTERIOR HARD-SURFACED FINISHES TO A DUST-FREE CONDITION

ROOF DEMOLITION KEY NOTES

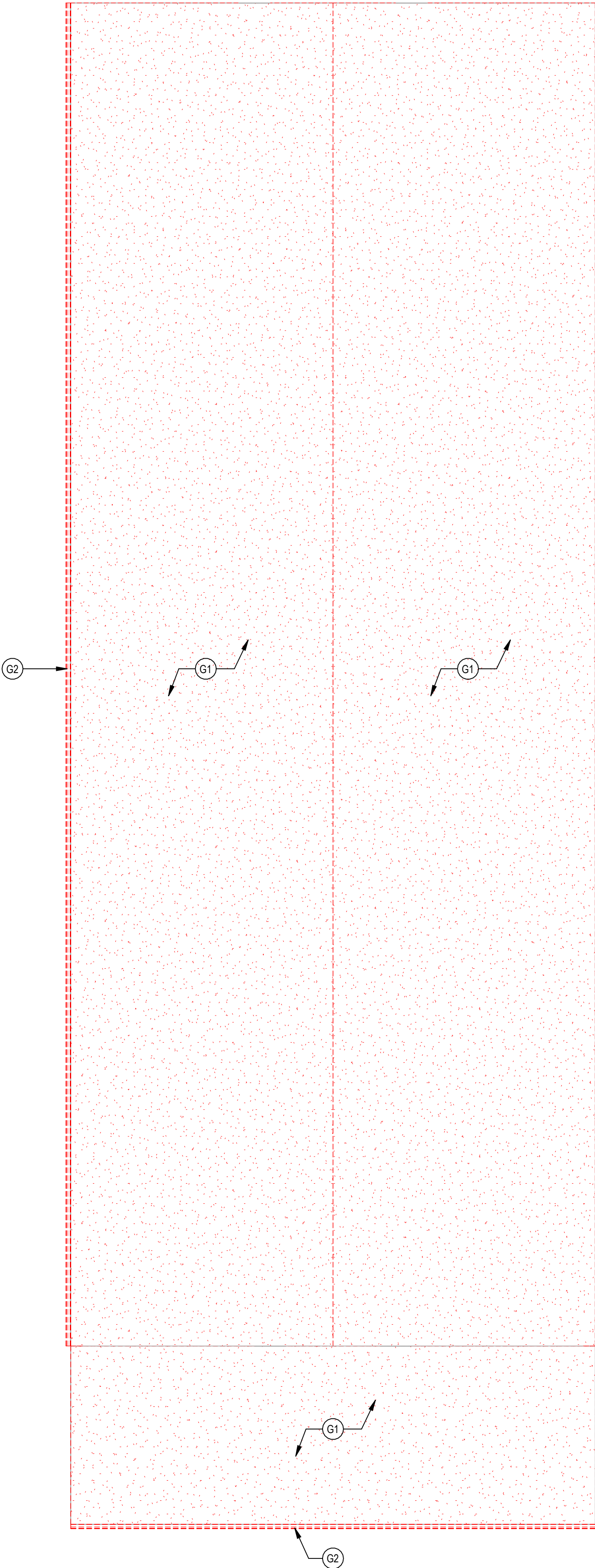
- G-ROOF
1. REMOVE EXISTING EPDM ROOFING MEMBRANE AND 1/2" WOOD FIBER DOWN TO EXISTING BUILT UP ROOF SYSTEM TO REMAIN. PREP BUILT UP ROOFING SURFACE TO RECEIVE NEW COVERBOARD AND EPDM MEMBRANE FOR ROOF RECOVERING.
 2. REMOVE EXISTING METAL GUTTER SYSTEM IN ITS ENTIRETY, INCLUDING BUT NOT LIMITED TO GUTTER DOWNSPOUTS, GUTTER ANCHORS AND DOWNSPOUT ANCHORS AND PREPARE FOR NEW GUTTER AND DOWNSPOUT SYSTEM COORDINATED WITH NEW ROOF.

ROOF PLAN GENERAL NOTES

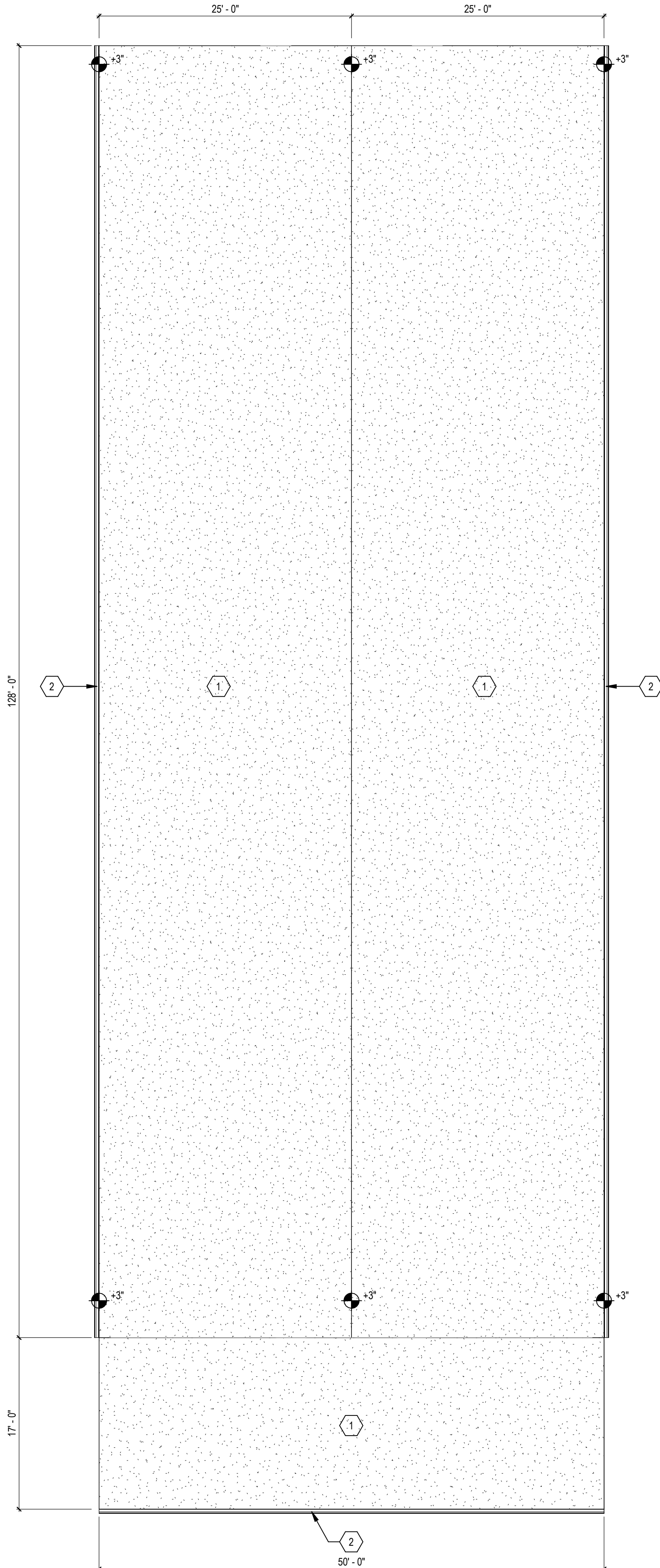
1. ALL ROOFING SHALL BE INSTALLED IN ACCORDANCE WITH - THE NRCA ROOFING MANUAL: MEMBRANE ROOF SYSTEMS - 2007.
2. ROOFING SYSTEM SHALL BE A **80mil FULLY ADHERED EPDM ROOFING SYSTEM OVER POLYISOCYANURATE ROOF INSULATION. SYSTEM SHOULD QUALIFY FOR A MINIMUM 20 YEAR WARRANTY.**
3. ROOF INSULATION THICKNESS SHALL BE PROVIDED AS NOTED ON ROOF PLAN.
4. TYPICAL NOTATION: (+4 1/2" e.g.) INDICATES THE HEIGHT OR THICKNESS OF MATERIALS ABOVE THE ROOF DECK INCLUDING TAPERED POLYISOCYANURATE INSULATION, AND/OR TYP. BASE POLYISOCYANURATE INSULATION THICKNESS. SLOPE REQUIREMENTS DICTATE THICKNESSES- VERIFY THICKNESS INDICATIONS.
5. PROVIDE CHAMFERS, CRICKETS AND SADDLES AS REQUIRED @ INSULATION HEIGHT TRANSITIONS & OBSTRUCTIONS TO DRAINAGE.
6. VERIFY ALL MECHANICAL PENETRATIONS WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR.
7. INSTALL GUTTERS, CONDUCTOR HEADS AND DOWNSPOUTS IN ACCORDANCE WITH SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA) AND NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) ROOFING MANUAL.
8. INSTALL MECHANICAL EQUIPMENT WITH 8" MINIMUM TO TOP OF CURB FROM ADJACENT NEW ROOF MEMBRANE & PROVIDE 2-PIECE FLASHING. ADJUST CURBS AS NECESSARY TO MAINTAIN MINIMUM FLASHING REQUIREMENTS.

ROOF PLAN KEY NOTES

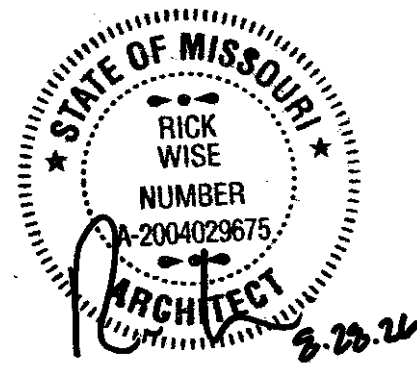
1. NEW COVERBOARD AND EPDM MEMBRANE ROOFING SYSTEM OVER EXISTING BUILT UP ROOF SYSTEM.
2. NEW PREFINISHED METAL GUTTER AND DOWNSPOUT SYSTEM. LOCATE NEW DOWNSPOUTS AT SAME LOCATIONS AS EXISTING.



1 ROOF PLAN DEMOLITION
SCALE: 1/8" = 1'-0"



2 ROOF PLAN
SCALE: 1/8" = 1'-0"



PROFESSIONAL SEAL

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**OFFICE OF
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**DEPARTMENT OF
PUBLIC SAFETY**

**MISSOURI ARMY
NATIONAL GUARD**

Chillicothe Readiness Center -
USB Roof Replacement &
Latrine Renovation

1500 Washington St.
Chillicothe, MO 64601

PROJECT #: T2519-01

SITE #: 6252
ASSET #: 8136252002

REVISION: ADDENDUM #02
DATE: 8/28/2026
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____

ISSUE DATE: 7/31/2026

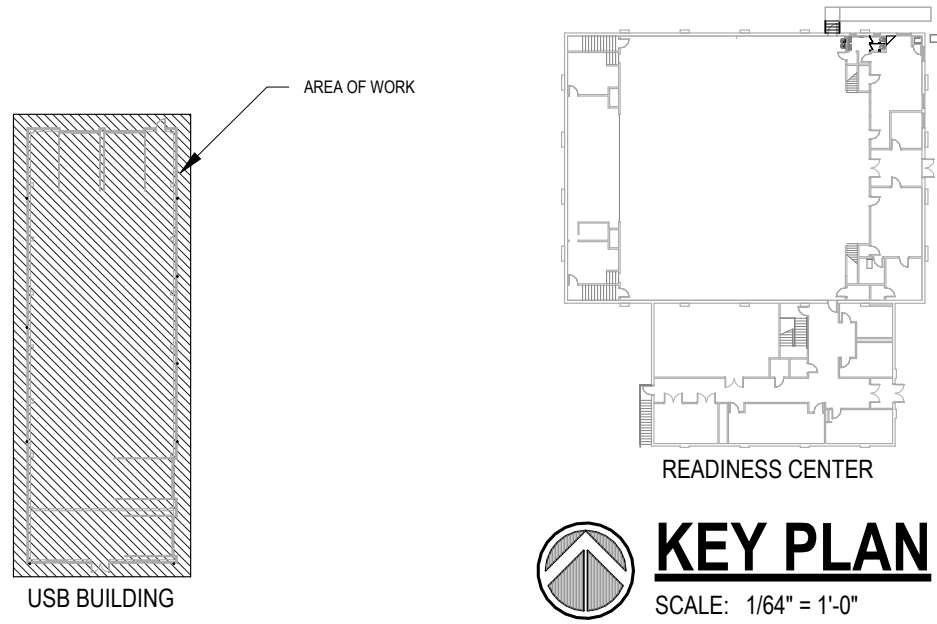
DRAWN BY: JK
CHECKED BY: RW
DESIGNED BY: JK

SHEET TITLE:
Exterior Demolition
Elevations - USB
Building

SHEET NUMBER:

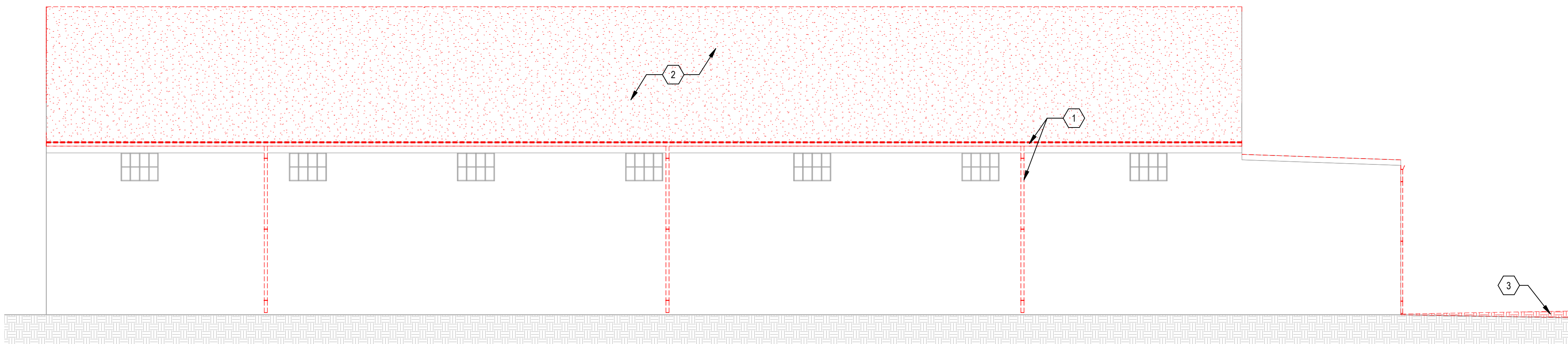
A-300

7/31/2026



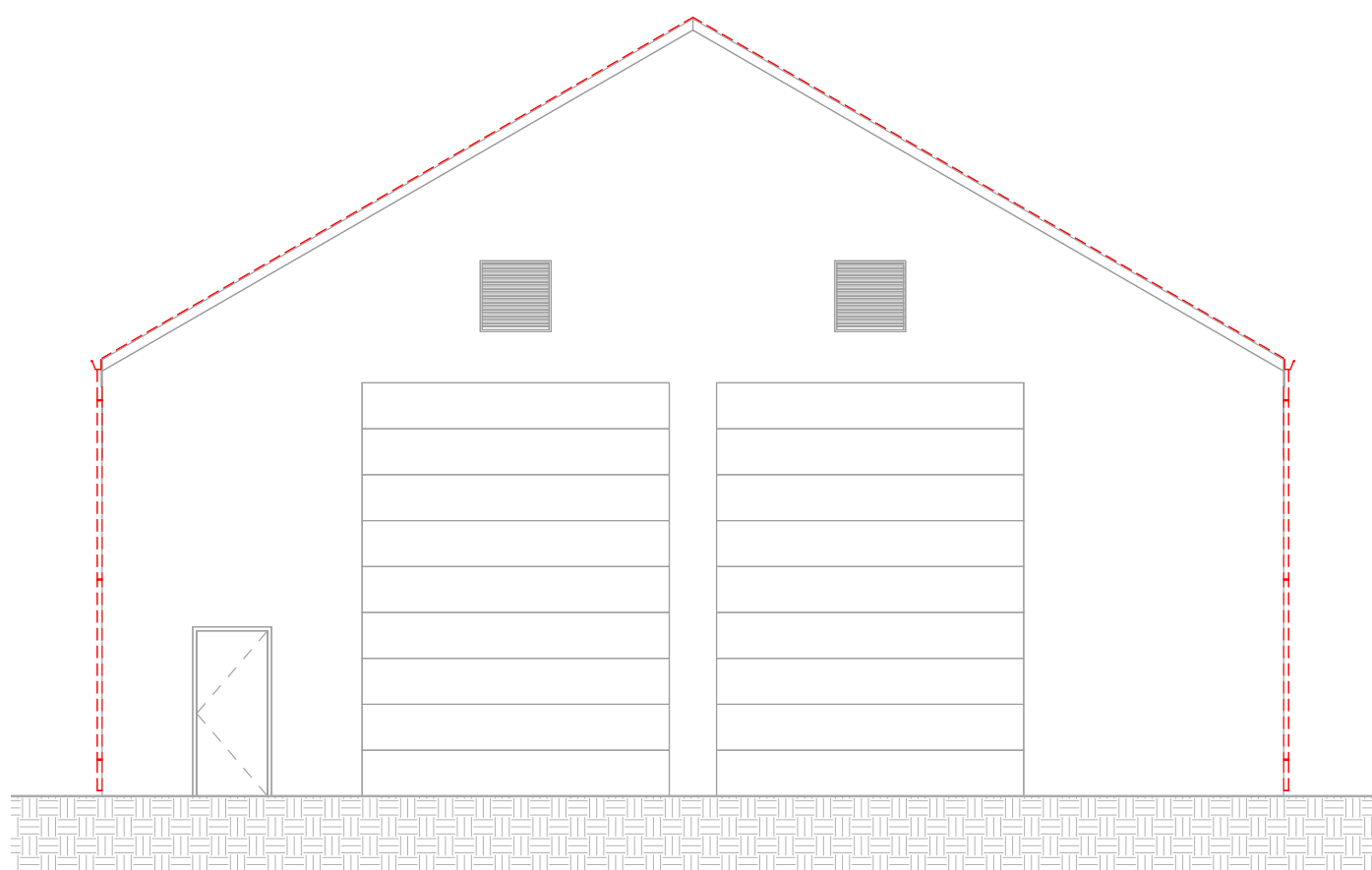
ELEVATION DEMOLITION KEY NOTES

- 1 REMOVE EXISTING METAL GUTTER SYSTEM AND DOWNSPOUTS
- 2 REMOVE EXISTING EPDM ROOFING MEMBRANE AND 1/2" WOOD FIBER DOWN TO EXISTING BUILT UP ROOF SYSTEM TO REMAIN. PREP BUILT UP ROOFING SURFACE TO RECEIVE NEW COVERBOARD AND EPDM MEMBRANE FOR ROOF RE-COVERING
- 3 CUT PORTION OF EXISTING GRADE TO SLOPE AWAY FROM USB BUILDING. REF. TO LANDSCAPE ARCHITECTURE DRAWINGS.



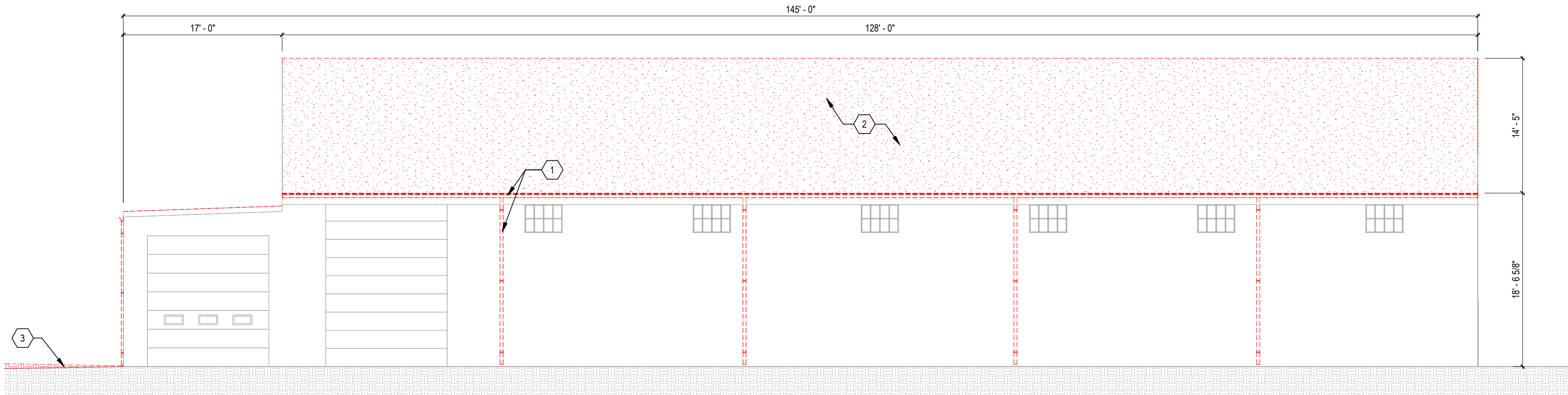
1 USB WEST ELEVATION - DEMOLITION

SCALE: 1/8" = 1'-0"



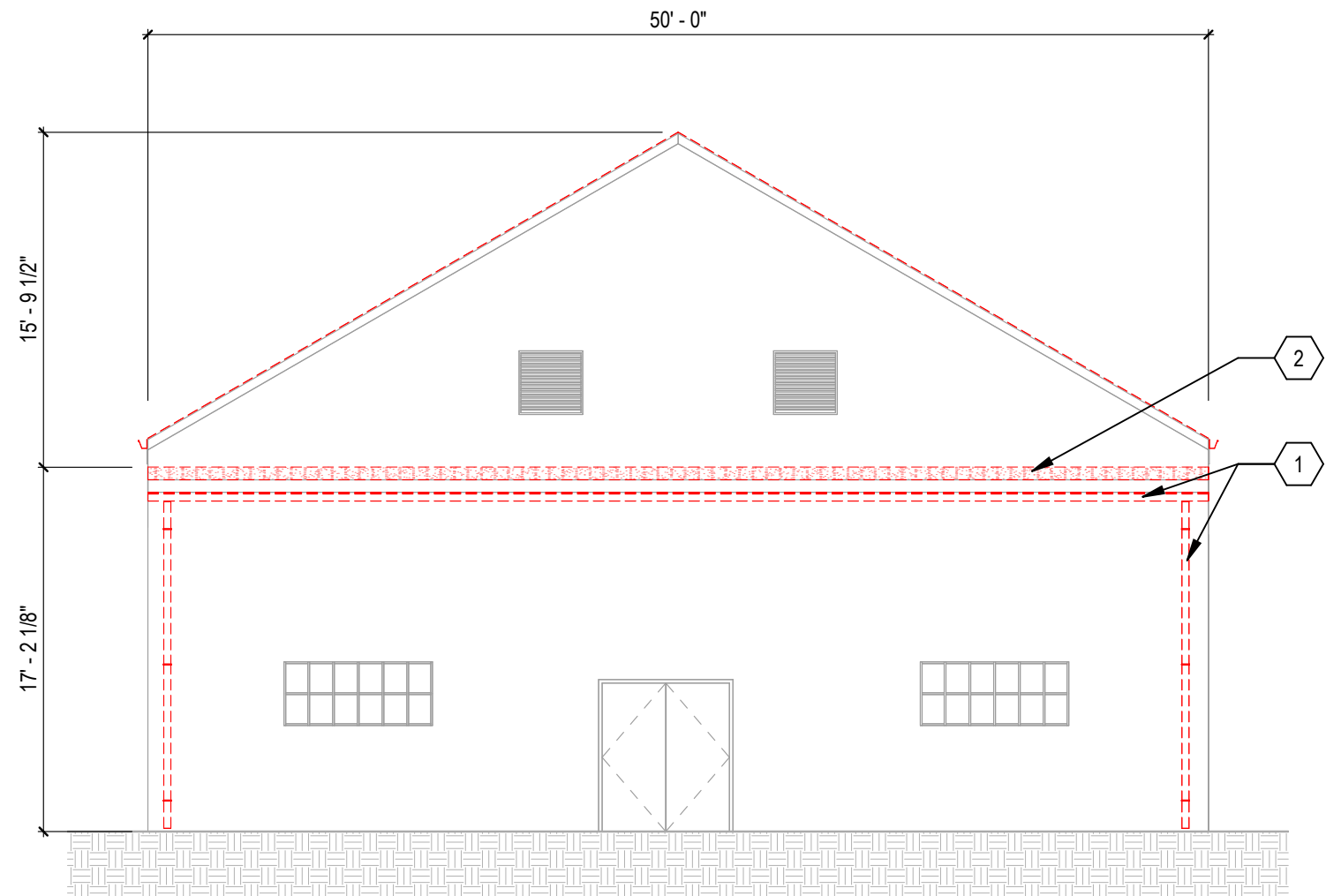
2 USB NORTH ELEVATION - DEMOLITION

SCALE: 1/8" = 1'-0"



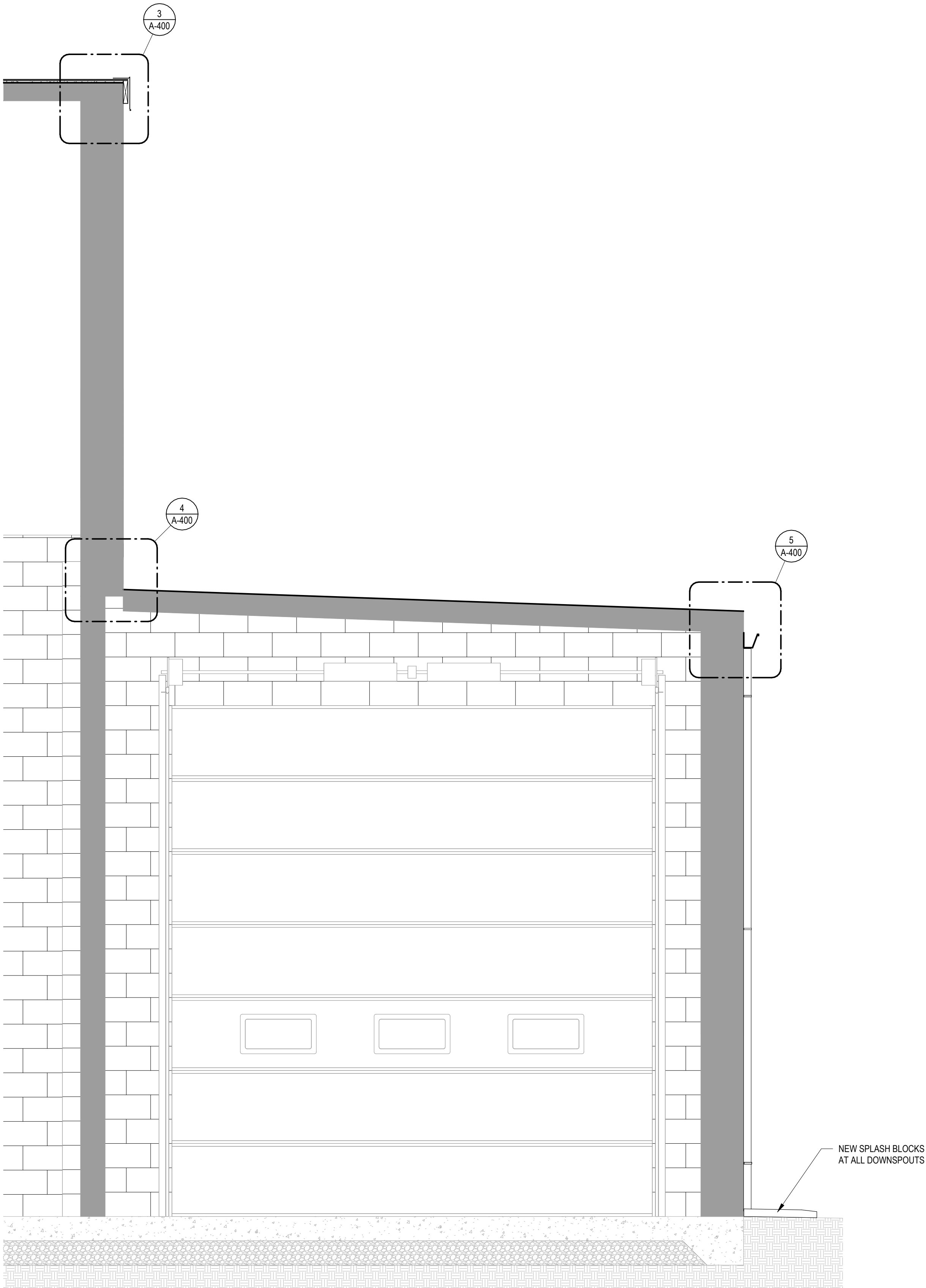
3 USB EAST ELEVATION - DEMOLITION

SCALE: 1/8" = 1'-0"

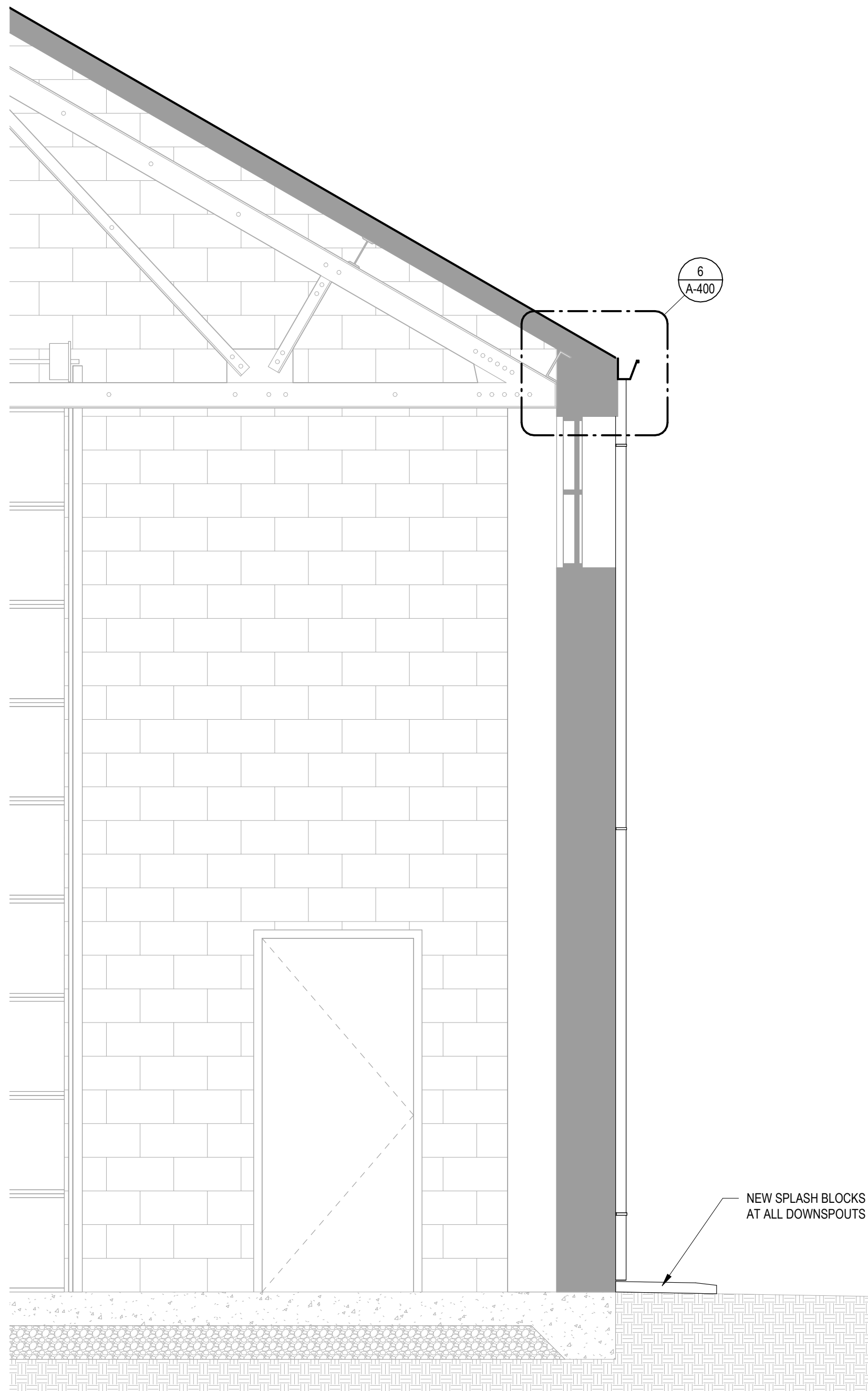


4 USB SOUTH ELEVATION - DEMOLITION

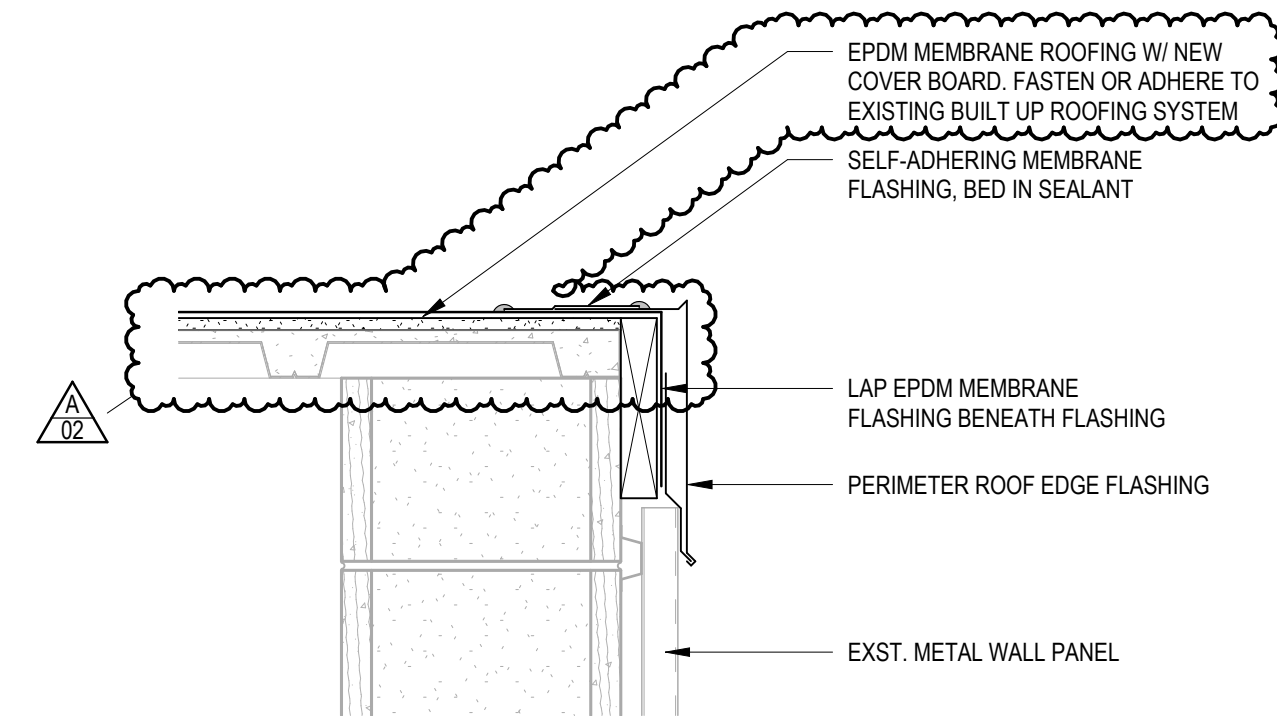
SCALE: 1/8" = 1'-0"



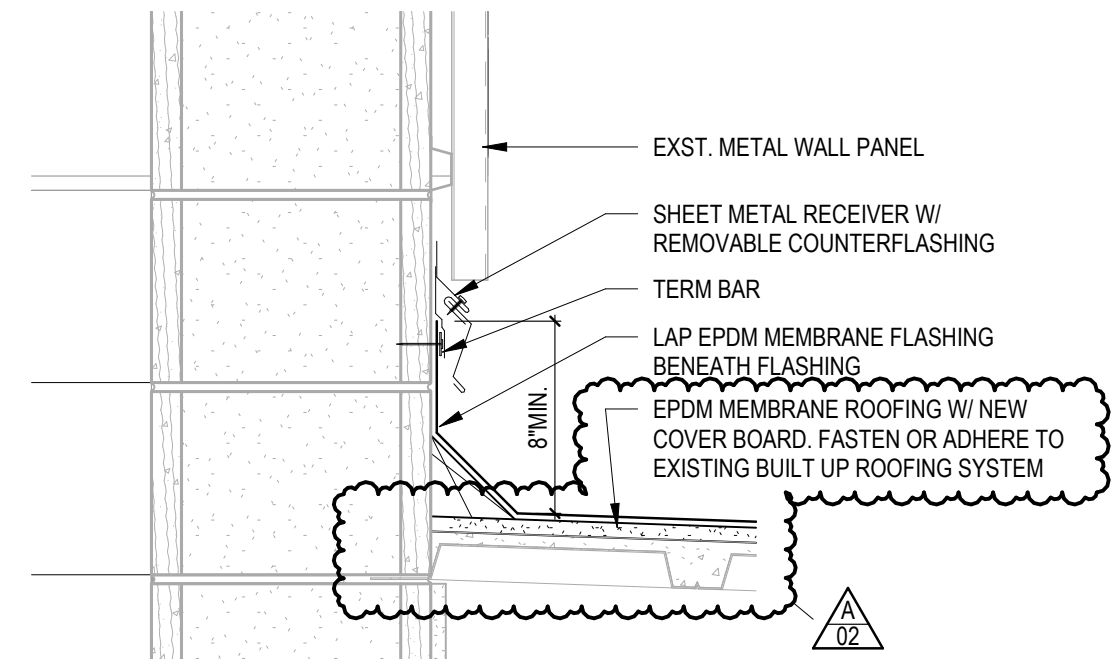
1 USB BUILDING - WALL SECTION
SCALE: 1/2" = 1'-0"



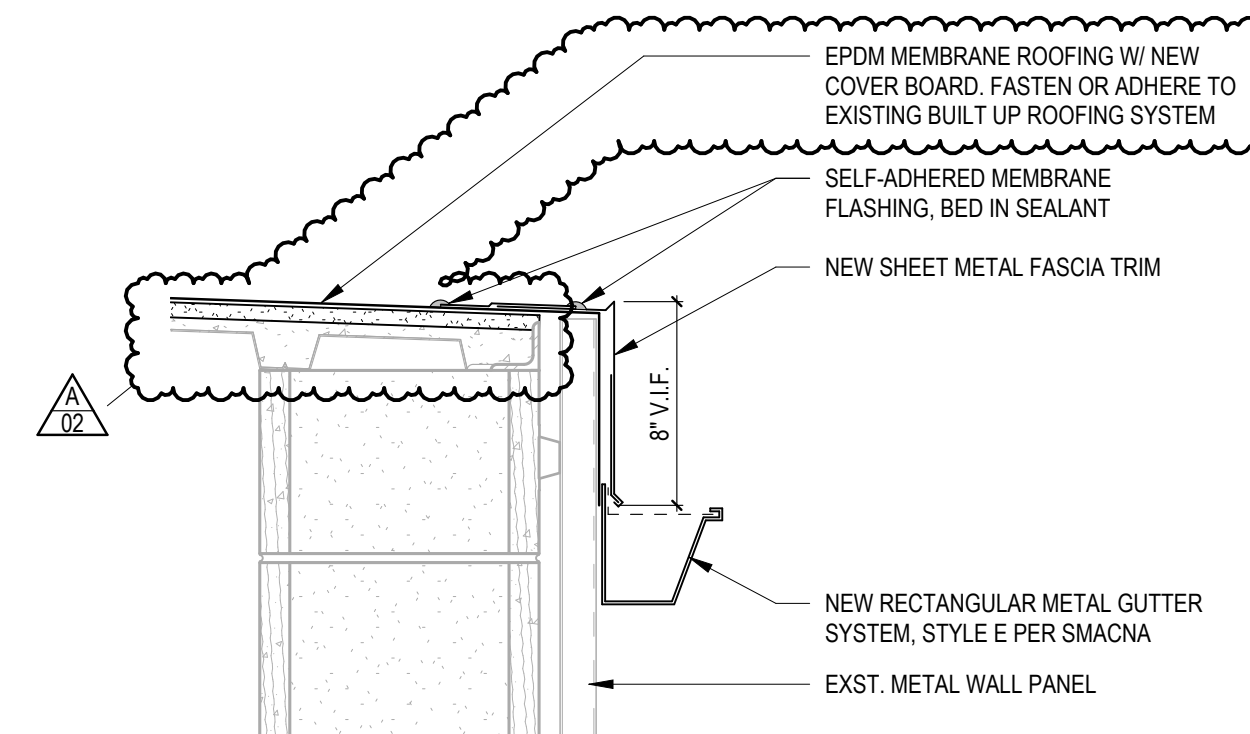
2 USB BUILDING - WALL SECTION
SCALE: 1/2" = 1'-0"



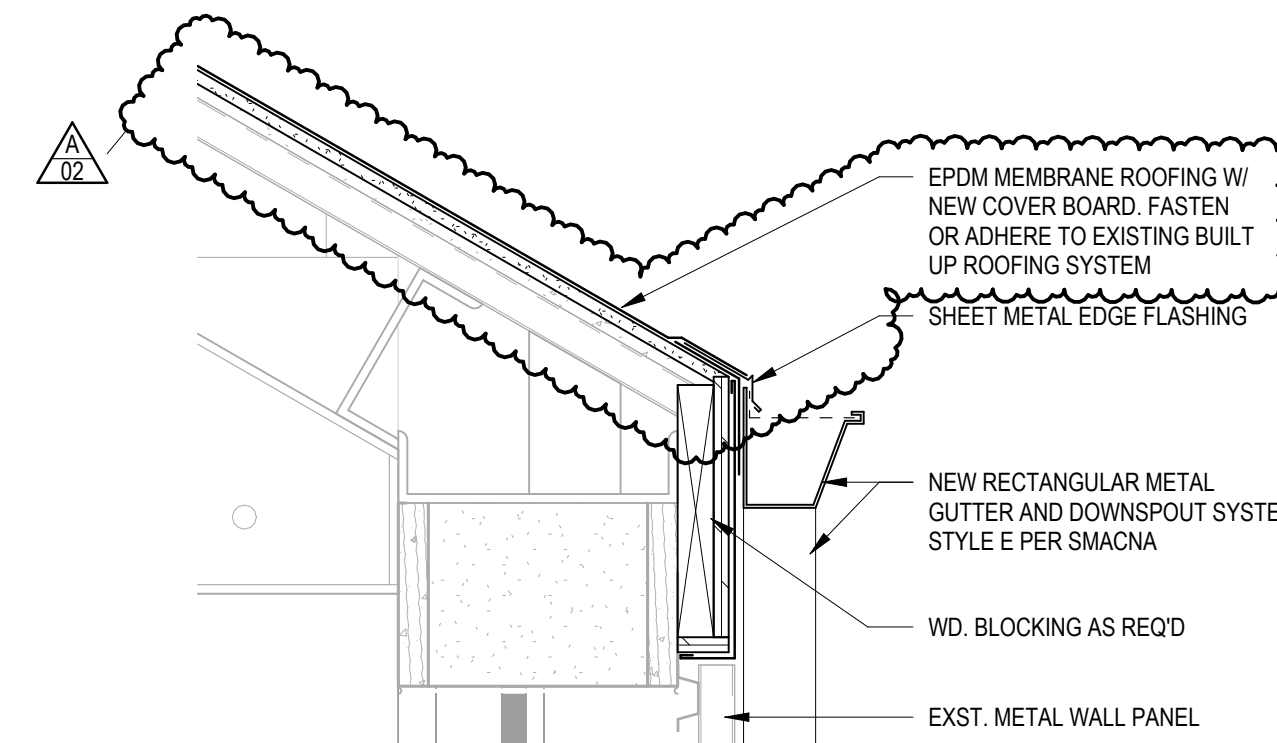
3 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



4 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



5 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



6 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

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**OFFICE OF
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AND CONSTRUCTION**

**DEPARTMENT OF
PUBLIC SAFETY**

**MISSOURI ARMY
NATIONAL GUARD**

Chillicothe Readiness Center -
USB Roof Replacement &
Latrine Renovation

1500 Washington St.
Chillicothe, MO 64601

PROJECT #: T2519-01

SITE #: 6252
ASSET #: 8136252002

REVISION: ADDENDUM #02
DATE: 8/28/2026
REVISION: _____
DATE: _____
REVISION: _____
DATE: _____
ISSUE DATE: 7/31/2026

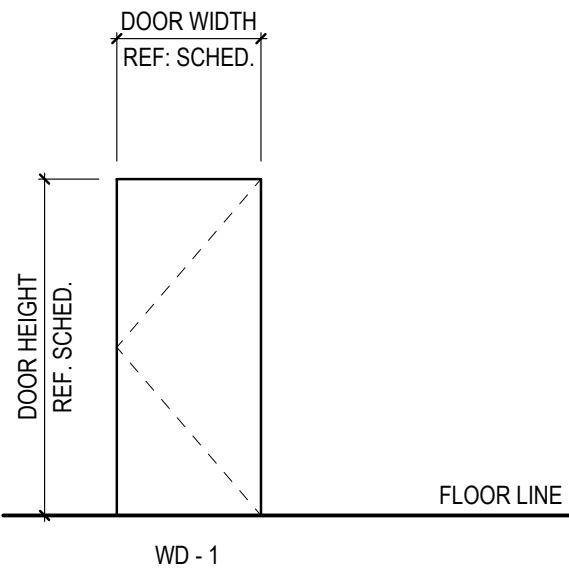
DRAWN BY: JK
CHECKED BY: RW
DESIGNED BY: JK

SHEET TITLE:
**Wall Sections - USB
Building**

SHEET NUMBER:

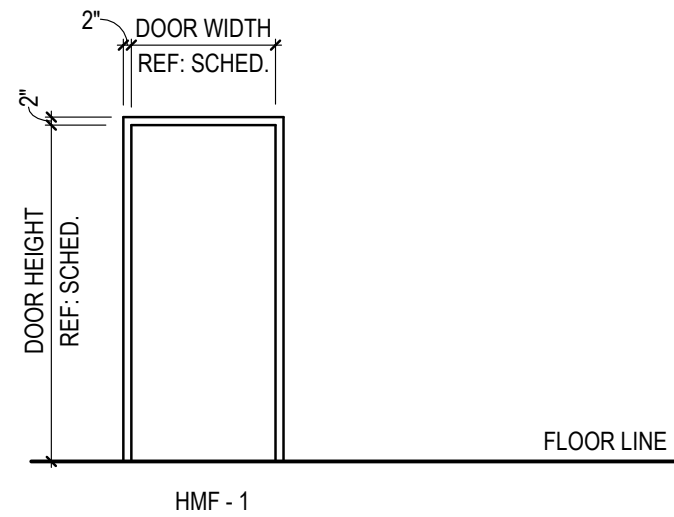
A-400

7/31/2026



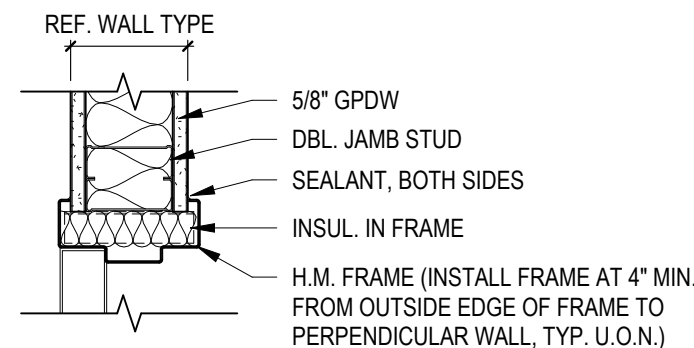
WOOD DOOR TYPES

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

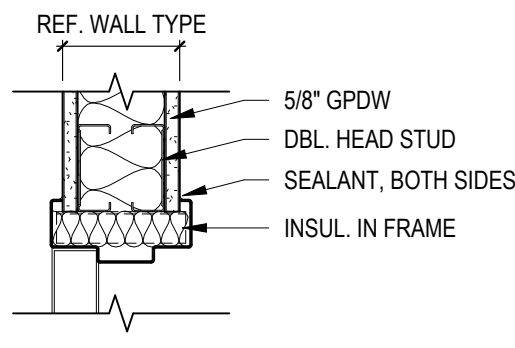


HOLLOW METAL FRAME TYPES

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



JAMB



HEAD

1 HOLLOW METAL FRAME DETAIL

SCALE: 1 1/2" = 1'-0"

DOOR & FRAME TYPE GENERAL NOTES

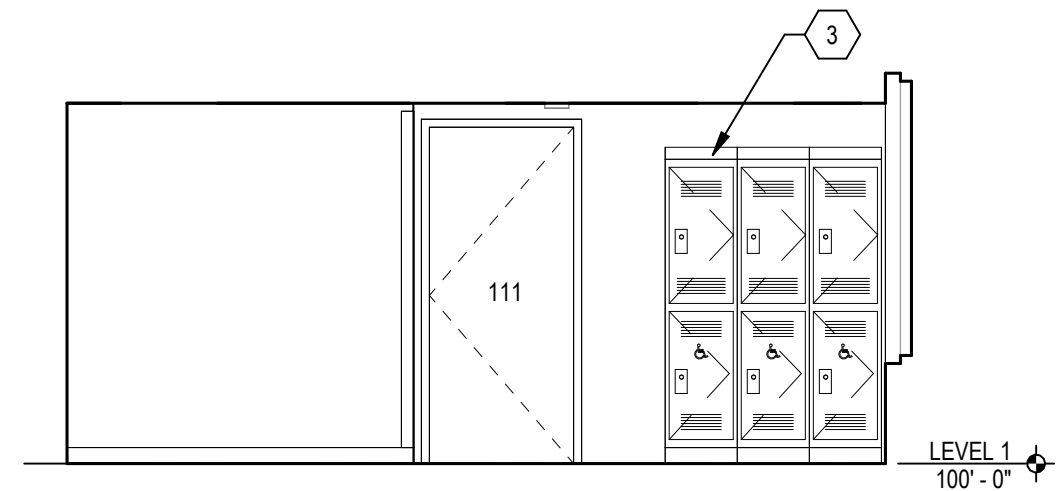
- ALL DIMENSIONS ARE NOMINAL. ACTUAL DIMENSIONS TO BE PROVIDED BY SUPPLIER W/ ADJUSTMENTS MADE FOR INSTALLATION TOLERANCES REQUIRED. VERIFY ALL EXISTING OPENINGS PRIOR TO ORDER OF ALL NEW DOORS AND DOOR FRAMES.
- SEE FLOOR PLANS FOR DIRECTION OF DOOR SWINGS.
- REFER TO WALL TYPE THICKNESS FOR THROAT DEPTHS OF HOLLOW METAL DOOR AND WINDOW FRAMES INSTALLED IN STEEL STUD WALLS W/ GYPSUM. HOLLOW METAL DOOR AND WINDOW FRAMES INSTALLED IN PRECAST, CAST-IN PLACE OR C.M.U. WALLS SHALL HAVE A STANDARD 6" NOMINAL THROAT DEPTH AND SHALL BE CENTERED IN THE WALL, UNLESS NOTED OTHERWISE.
- ALL INTERIOR HOLLOW METAL DOOR FRAMES SHALL BE FILLED FULL W/ BATT INSUL. COORDINATE WITH ELECTRICAL TRADES, FINISH HARDWARE AND ELECTRONIC EQUIPMENT.
- VERIFY HOLLOW METAL FRAME FINISH WITH FINISH SCHEDULE.

DOOR NO.	S/PR	DOOR					FRAME		HARDWARE
		WIDTH	HEIGHT	TYPE	FINISH		TYPE	FINISH	
110	S	3'-0"	7'-0"	WD-1			HMF-1	PT 03	
111	S	3'-0"	7'-0"	WD-1			HMF-1	PT 02	
112	S	2'-10"	7'-0"	WD-1			HMF-1	PT 01	

ABBR.	ACCESSORY	FURNISHED BY	INSTALLED BY	REMARKS
CH-1	COAT HOOK	CONTRACTOR	CONTRACTOR	
GB-1	36" GRAB BAR	CONTRACTOR	CONTRACTOR	
GB-2	42" GRAB BAR	CONTRACTOR	CONTRACTOR	
GB-3	24" GRAB BAR - VERTICAL	CONTRACTOR	CONTRACTOR	
M-1	5'-4" W x 3'-0" H MIRROR; 3'-4" A.F.F.	CONTRACTOR	CONTRACTOR	
SCR-1	SHOWER CURTAIN & ROD	CONTRACTOR	CONTRACTOR	SHOWER CURTAIN TO BE PROVIDED BY OWNER
SD-1	SOAP DISPENSER	OWNER	OWNER	
SND-1	SANITARY NAPKIN DISPOSAL	CONTRACTOR	CONTRACTOR	
ST-1	CORNER SOAP TRAY	CONTRACTOR	CONTRACTOR	
TH-1	TOWEL HOOK	CONTRACTOR	CONTRACTOR	
TTD-1	TOILET TISSUE DISPENSER	CONTRACTOR	CONTRACTOR	

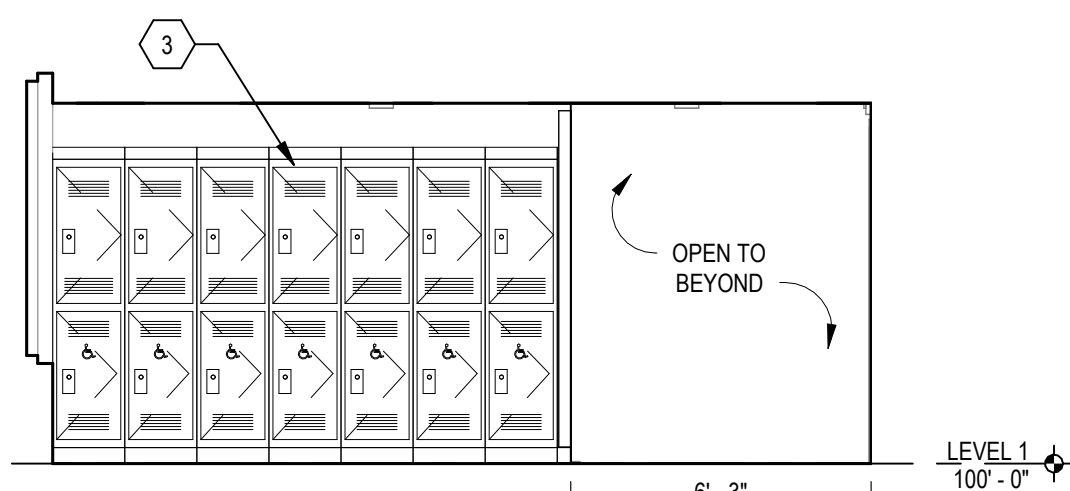
FIXTURE SCHEDULE		
DESCRIPTION	TYPE	MOUNTING LOCATION
TOILET	STANDARD	15" A.F.F. TO TOP OF SEAT
	ADA*	17" A.F.F. TO TOP OF SEAT
SINK	STANDARD	34" A.F.F. TO RIM
	ADA*	34" A.F.F. TO RIM
MIRROR	ABOVE SINK	40" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE
	WITHOUT SINK	35" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE
GRAB BAR	BACK BAR*	6" TO WALL - 35" A.F.F. TO TOP OF BAR
	SIDE BAR*	12" TO WALL - 35" A.F.F. TO TOP OF BAR
TOILET TISSUE DISPENSER	VERTICAL BAR*	40" TO WALL - 40" A.F.F. TO BOTTOM OF BAR
PAPER TOWEL DISPENSER	VERIFY W/ MANUF.	REF. SHEET G-021 FOR MOUNTING RANGE
SANITARY NAPKIN DISPOSAL	VERIFY W/ MANUF.	BELOW GRAB BAR - REF. SHEET G-021 FOR MOUNTING RANGE

*TO COMPLY WITH 2010 ADA STANDARDS OF ACCESSIBLE DESIGN AND MFR. RECOMMENDATIONS.



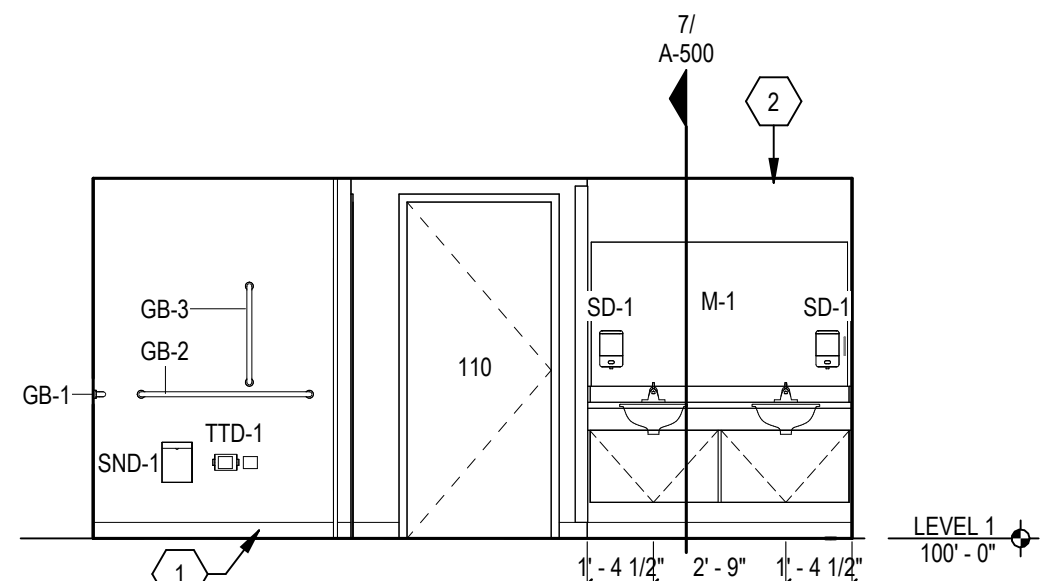
2 WOMEN'S LOCKER ROOM - NORTH

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



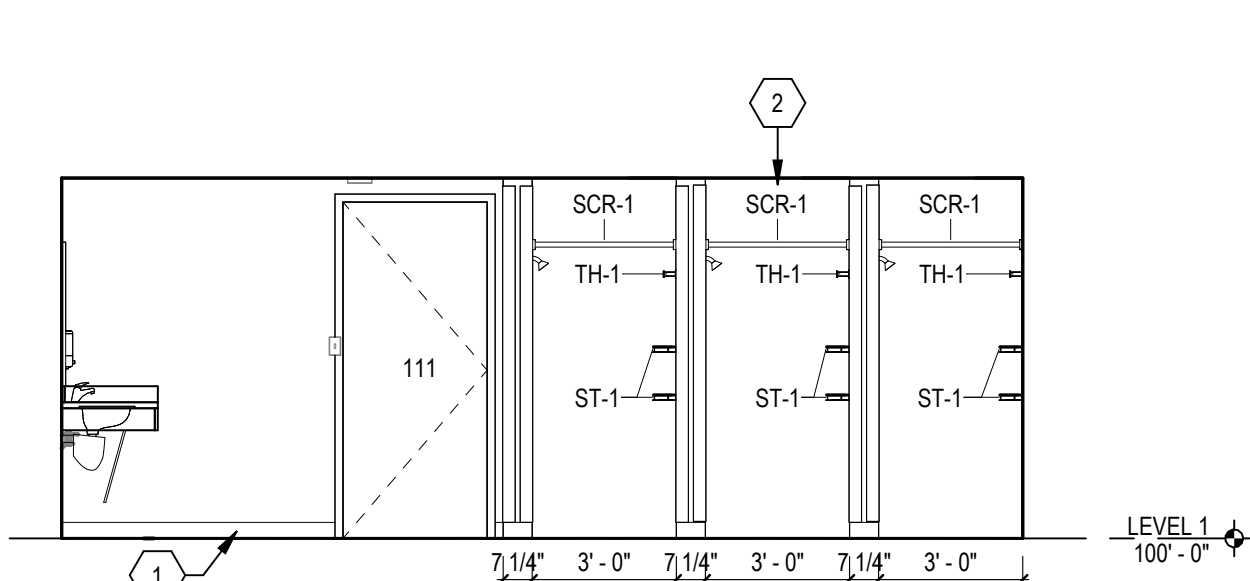
3 WOMEN'S LOCKER ROOM - SOUTH

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



4 WOMEN'S RESTROOM - EAST

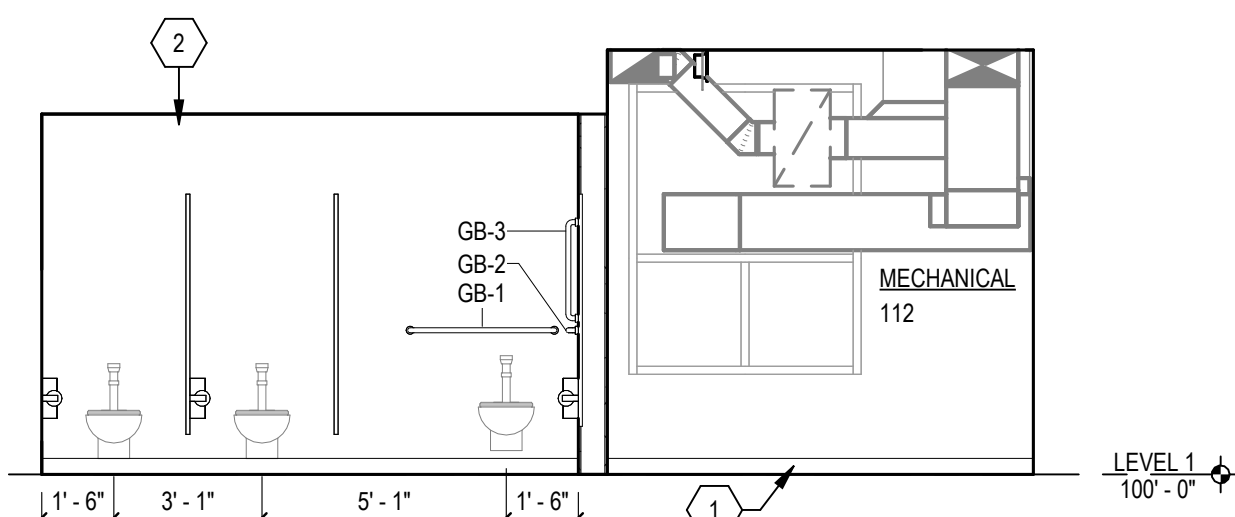
SCALE: 1/4" = 1'-0"



5 WOMEN'S RESTROOM - SOUTH

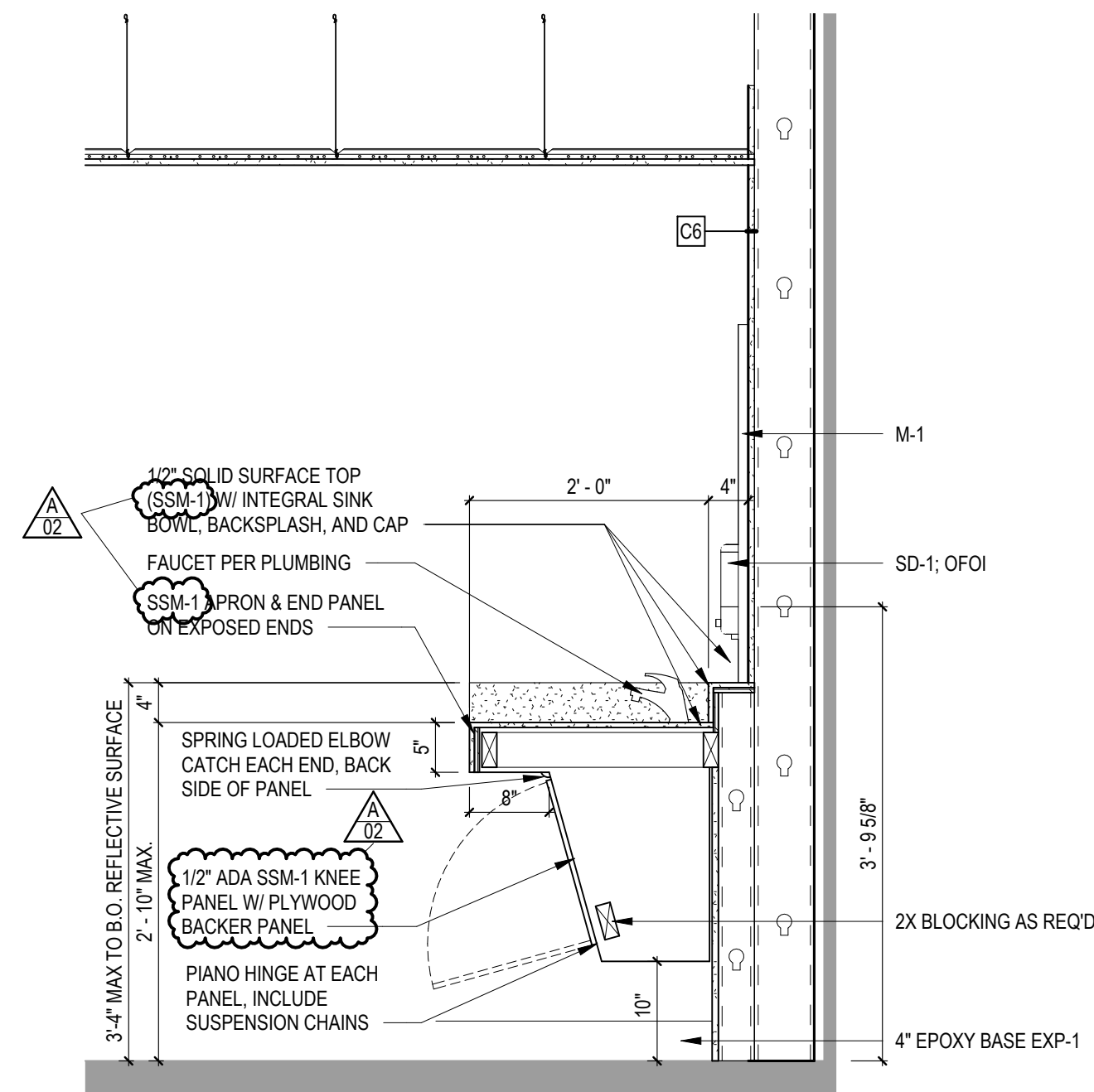
SCALE: 1/4" = 1'-0"

KEY NOTES	
1	EPOXY FLOOR SYSTEM (EPX-1) W/ 4" INTEGRAL EPOXY COVE BASE, REF. FINISH PLAN.
2	ALL WET WALL LOCATIONS TO HAVE MOISTURE AND MOLD RESISTANT GPDW AND RECEIVE EPOXY COATING FINISH.
3	LOCKERS, FURNISHED BY OWNER AND CONTRACTOR INSTALLED.
4	EXISTING WINDOWS TO RECEIVE PRIVACY FILM ON INTERIOR OF WINDOW.



6 WOMEN'S RESTROOM - NORTH

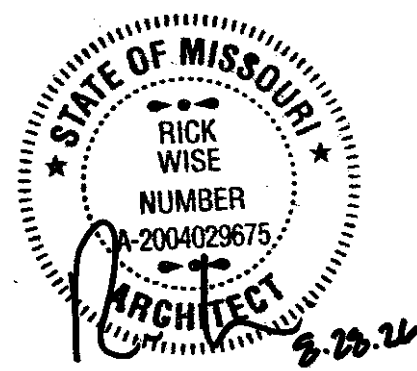
SCALE: 1/4" = 1'-0"



7 WALL SECTION @ LAVATORY, TYP.

SCALE: 3/4" = 1'-0"

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Chillicothe Readiness Center -
USB Roof Replacement &
Latrine Renovation

1500 Washington St.
Chillicothe, MO 64601

PROJECT #: T2519-01

SITE #: 6252

ASSET #: 8136252002

REVISION: ADDENDUM #02
DATE: 8/28/2026
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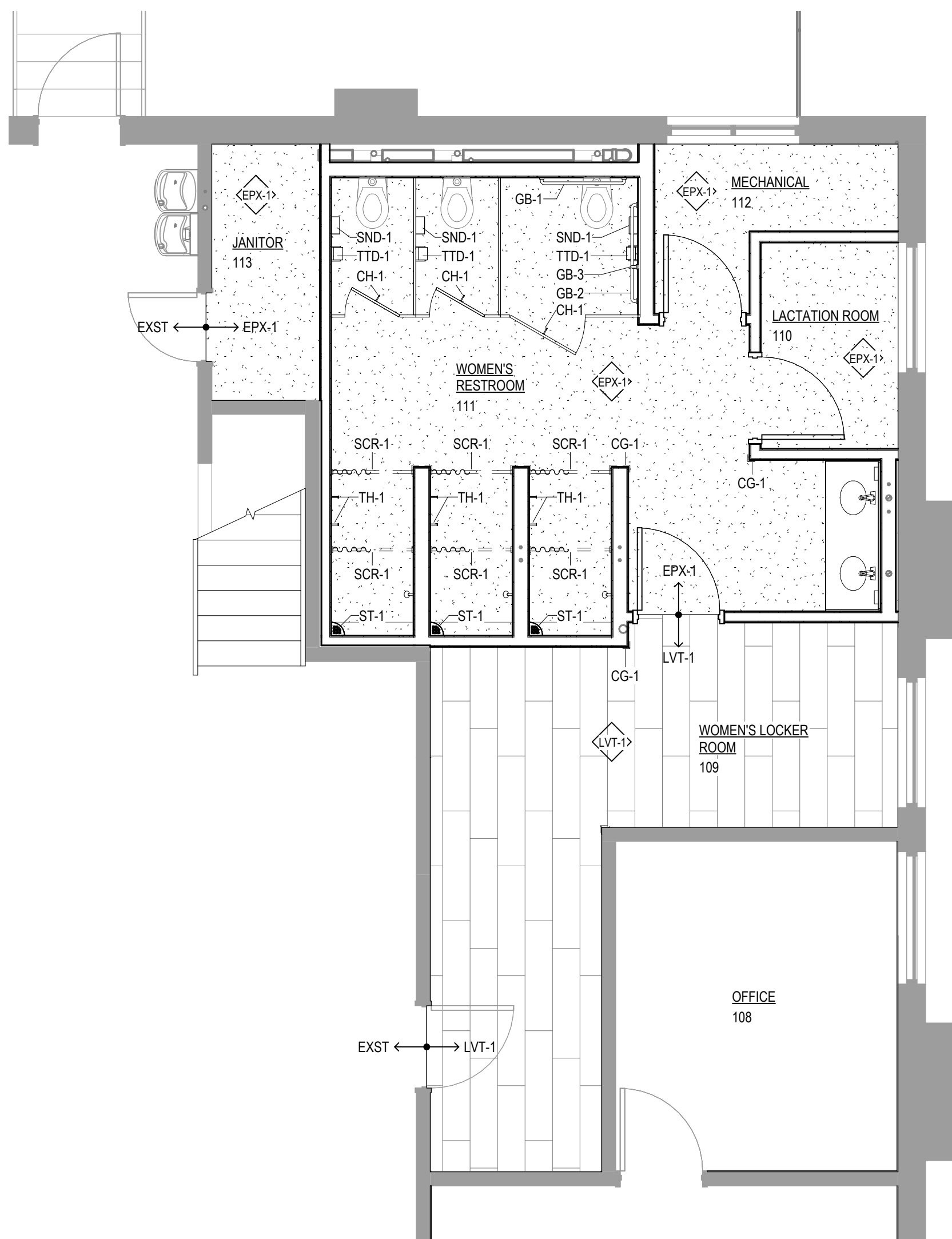
DRAWN BY: JK
CHECKED BY: RW
DESIGNED BY: JK

SHEET TITLE:
Interior Elevations,
Schedules & Details

SHEET NUMBER:

A-500

7/31/2026



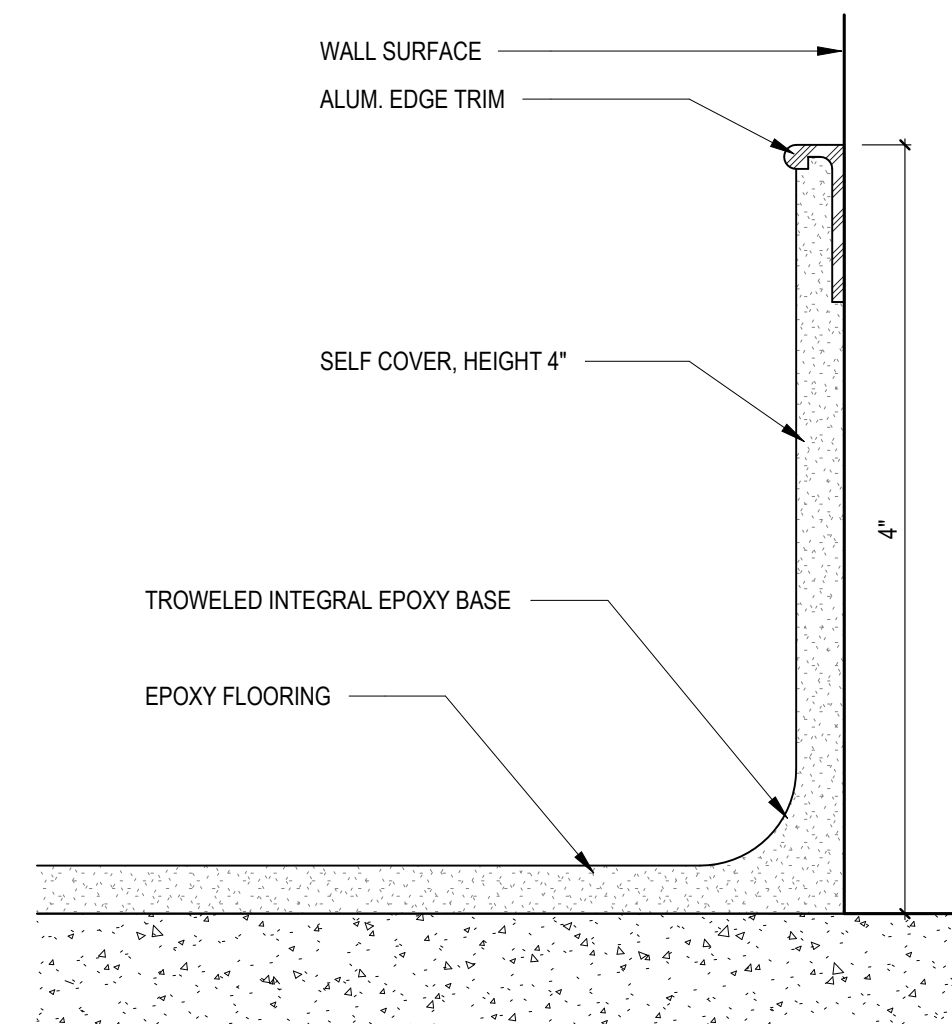
LUXURY VINYL TILE		
LVT-1	MANUFACTURER:	SEE SPECIFICATION
	PRODUCT:	
	COLOR:	
	APPLICATION:	
RESILIENT BASE		
RB-1	MANUFACTURER:	SEE SPECIFICATION
	PRODUCT:	THERMOSET RUBBER WALL BASE
	SIZE:	4" COVED
	COLOR:	--
EPOXY FLOORING AND BASE		
EPX-1	MANUFACTURER:	SEE SPECIFICATION
	PRODUCT:	1/4" TROWELED QUARTZ EPOXY
	COLOR:	SEE SPECIFICATION
	TYPE:	--
PAINT SYSTEMS (EPOXY)		
PTE-1	MANUFACTURER:	SEE SPECIFICATION
	PRODUCT:	SEE SPECIFICATION
	COLOR:	SW 7005 PURE WHITE
	TYPE:	--
PAINT		
PT-1	MANUFACTURER:	SEE SPECIFICATION
	HUE:	SW 7005 PURE WHITE
	FINISH:	SEE SPECIFICATION
	APPLICATION:	SEE SPECIFICATION
PT-2	MANUFACTURER:	SEE SPECIFICATION
	HUE:	SW 7005 PURE WHITE
	FINISH:	SEE SPECIFICATION
	APPLICATION:	SEE SPECIFICATION
FIBER-REINFORCED WALL SYSTEM (EPOXY)		
FRE-1	MANUFACTURER:	SEE SPECIFICATION
	PRODUCT:	SEE SPECIFICATION
	COLOR:	MATCH PT-1 / SW 7005 PURE WHITE
	NOTE:	DRYWALL APPLICATION
SOLID SURFACE		
SSM-1	MANUFACTURER:	SEE SPECIFICATION
	PRODUCT:	SEE SPECIFICATION
	COLOR:	GLACIER WHITE
	TYPE:	--

CORNER GUARDS		
CG-1	PRODUCT:	STAINLESS STEEL CORNER GUARD - CO SERIES
	COLORWAY:	SEE SPECIFICATION
	PROFILE:	

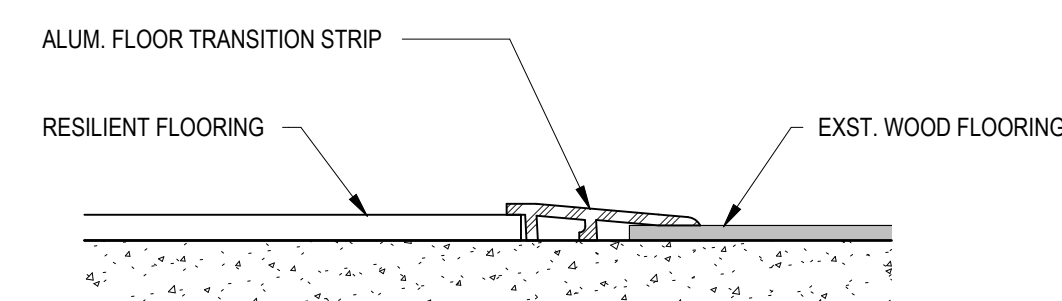
ROOM NO.	ROOM NAME	FINISH	BASE	WALL	EAST WALL	WALL	WEST WALL	CEILING	REMARKS
108	OFFICE	--	--	PT-1	PT-1	PT-1	PT-1	--	2
109	WOMEN'S LOCKER ROOM	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	APC-1	
110	LACTATION ROOM	EPX-1	EPX-1	PT-1	PT-1	PT-1	PT-1	PT-1	
111	WOMEN'S RESTROOM	EPX-1	EPX-1	FRE-1/PT-1	FRE-1/PT-1	FRE-1/PT-1	FRE-1/PT-1	PT-1	3, 4
112	MECHANICAL	EPX-1	EPX-1	PT-1	PT-1	PT-1	PT-1	--	
113	JANITOR	EPX-1	EPX-1	PT-1	PT-1	PT-1	PT-1	PT-1	

Key Name	Comments
1	WHERE REQUIRED, MATCH EXISTING FINISHES
2	IN OFFICE (108), MAINTAIN EXISTING FLOOR FINISH, PATCH AND REPAIR AS REQUIRED IF AFFECTED BY CONSTRUCTION ACTIVITIES.
3	FLOORING AT ALL SHOWER AREAS SHALL BE INSTALLED TO SLOPE TO DRAIN (RE-MECH), COMPLYING WITH ADA SLOPE REQUIREMENTS: 1/4" PER FOOT MIN / 1/2" PER FOOT MAX.
4	AT ALL WET WALLS, FRE-1 IS TO BE UTILIZED. INCLUDE ALL WALLS WITHIN SHOWER STALLS TO RECEIVE FRE-1.

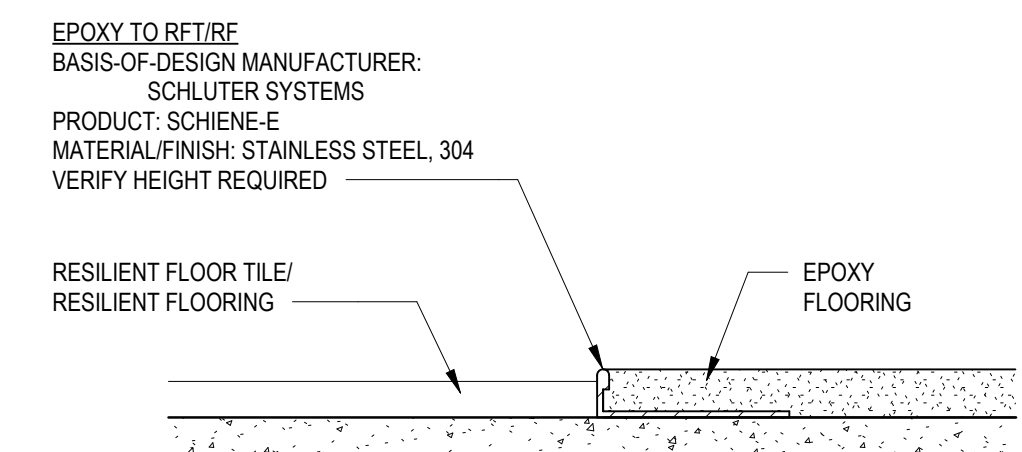
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SCR-1	SHOWER CURTAIN & ROD	CONTRACTOR	CONTRACTOR	SHOWER CURTAIN TO BE PROVIDED BY OWNER
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ST-1	CORNER SOAP TRAY	CONTRACTOR	CONTRACTOR	
TH-1	TOWEL HOOK	CONTRACTOR	CONTRACTOR	
TTD-1	TOILET TISSUE DISPENSER	CONTRACTOR	CONTRACTOR	



SCALE: 12" = 1'-0"



SCALE: 12" = 1'-0"



SCALE: 12" = 1'-0"