

ADDENDUM NO. 2

DECEMBER 15, 2023

PREPARED BY SCHMIDT ASSOCIATES FOR:
FRYEBURG SHOOTING RANGE
MAINE DEPARTMENT OF INLAND FISHERIES & WILDLIFE

BGS PROJECT #2742

This Addendum consists of 2 Addendum pages and 14 attachment pages totaling 16 pages.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

A. Section 001113 “NOTICE TO CONTRACTORS”

1. MODIFY Paragraph 1 as follows:

Submit bids on a completed Contractor Bid Form, plus bid security when required, all scanned and included as an attachment to an email with the subject line marked "**Bid for Fryeburg Shooting Range**" and addressed to the Bid Administrator at: BGS.Architect@Maine.gov. **The bid date and time have been extended to January 11, 2024 at 3:00 PM Eastern Standard Time. Request for Information questions will be accepted until end of business on January 5th, 2024, and the final Addendum, if necessary, will be issued prior to 3pm, January 8, 2024.**

Bid submissions will be opened and read aloud at the time and date noted above at the Bureau of General Services office, accessible as a video conference call. Those who wish to participate in the call must submit a request for access to BGS.Architect@Maine.gov.

Any bid received after the noted time will not be considered a valid bid and will remain unopened. Any bid submitted by any other means will not be considered a valid bid. The Bid Administrator may require the Bidder to surrender a valid paper copy of the bid form or the bid security document in certain circumstances.

Questions on the bid opening process shall be addressed to the Bid Administrator: Joseph H. Ostwald, Director, Division of Planning, Design & Construction, Bureau of

General Services, 77 State House Station, Augusta, Maine 04333-0077,
BGS.Architect@Maine.gov.

B. Section 001133 “NOTICE TO CONTRACTORS”

1. MODIFY Paragraph 7 as follows:

An on-site pre-bid conference *will* be conducted for this project.

If a pre-bid conference is scheduled, it is *mandatory* for General Contractors and optional for Subcontractors and suppliers. Contractors who arrive late or leave early for a mandatory meeting may be prohibited from participating in this meeting and bidding. *This meeting was held on-site at 58 Fish and Game Road, Fryeburg, ME 04037, and was held on December 1, 2023 at 10 am.*

It was addressed at the pre-bid meeting that December 1, 2023 would be the only pre-bid meeting and that it was mandatory. It was also expressed that the existing shooting range is closed for shooting, but is open to contractors anytime who wish to examine the site closer.

2.2 DIVISION 07 – THERMAL AND MOISTURE PROTECTION

A. Section 074113.13 “FORMED METAL ROOF PANELS”

1. ADD Section 074113.13 in its entirety.

B. Section 074116.16 “STANDING SEAM METAL ROOF PANELS”

1. DELETE Section 074113.16 in its entirety.

PART 3 - CHANGES TO THE DRAWINGS

Modifications described herein shall be incorporated in the Drawings. All other Work shall remain unchanged.

3.1 DRAWING SHEETS: ADDITIONS, DELETIONS AND REPLACEMENTS

	DRAWING NO.	INDICATE ACTION: ADD (A), DELETE (D), DELETE & REPLACE (R),
C-SERIES DRAWINGS		
	CD102	DELETE AND REPLACE
S-SERIES DRAWINGS		
	S101	DELETE AND REPLACE
A-SERIES DRAWINGS		
	A101	DELETE AND REPLACE

END OF ADDENDUM 2

SECTION 074113.13 - FORMED METAL ROOF PANELS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Corrugated-profile, exposed-fastener metal roof panels.
2. Underlayment.

1.2 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1. Meet with Owner, Architect, Owner's insurer if applicable, metal panel Installer, metal panel manufacturer's representative, structural-support Installer, and installers whose work interfaces with or affects metal panels, including installers of roof accessories and roof-mounted equipment.
2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
3. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.
5. Review structural loading limitations of supporting structure during and after roofing.
6. Review flashings, special details, drainage, penetrations, equipment curbs, and condition of other construction that affect metal panels.
7. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
8. Review temporary protection requirements for metal panel systems during and after installation.
9. Review procedures for repair of metal panels damaged after installation.
10. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.3 ACTION SUBMITTALS

A. Product Data:

1. For formed metal roof panels. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of panel and accessory.

B. Shop Drawings:

1. Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
 2. Accessories: Include details of flashing, trim, and anchorage systems, at a scale of not less than 1-1/2 inches per 12 inches.
- C. Samples for Initial Selection: Manufacturer's standard color charts, showing full range of available colors for each type of exposed finish.
1. Include similar Samples of trim and accessories involving color selection.
- D. Samples for Verification: Actual sample of finished products for each type of exposed finish for metal panels, clips, fasteners, closures, and other metal panel accessories.
1. Size: Manufacturers' standard size.
- E. Sustainable Design Submittals:
1. Product Test Reports: For roof materials, documentation indicating that roof materials comply with Solar Reflectance Index requirements.
- 1.4 INFORMATIONAL SUBMITTALS
- A. Certificates for portable roll-forming equipment.
 - B. Product Test Reports: For formed metal roof panels, for tests performed by a qualified testing agency.
 - C. Field quality-control reports.
 - D. Qualification Statements: For roof installers.
 - E. Sample warranties.
- 1.5 CLOSEOUT SUBMITTALS
- A. Maintenance Data: For metal panels.
- 1.6 QUALITY ASSURANCE
- A. Roof Installer Qualifications: Entity that employs a supervisor who is an NRCA ProCertified Roofing Foreman or installers who are NRCA ProCertified Metal Panel Roof Systems Installers .
 - B. Portable Roll-Forming Equipment Certification: UL-certified, portable roll-forming equipment capable of producing metal panels warranted by manufacturer to be the same as factory-formed products. Maintain UL certification of portable roll-forming equipment for duration of Work.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal panels, and other manufactured items so as not to be damaged or deformed. Package metal panels for protection during transportation and handling.
- B. Unload, store, and erect metal panels in a manner to prevent bending, warping, twisting, and surface damage.
- C. Stack metal panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal panels to ensure dryness, with positive slope for drainage of water. Do not store metal panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Retain strippable protective covering on metal panels during installation.

1.8 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal panels to be performed in accordance with manufacturers' written installation instructions and warranty requirements.

1.9 COORDINATION

- A. Coordinate sizes and locations of roof curbs, equipment supports, and roof penetrations with actual equipment provided.

1.10 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures, including rupturing, cracking, or puncturing.
 - b. Deterioration of metals and other materials beyond normal weathering.
 - 2. Warranty Period: Two years from date of Substantial Completion.
- B. Special Warranty on Panel Finishes: Manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Exposed Panel Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Delta E units when tested in accordance with ASTM D2244.

- b. Chalking in excess of a No. 8 rating when tested in accordance with ASTM D4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing in accordance with ASTM E1592:
 1. Wind Loads: As indicated on Drawings.
 2. Other Design Loads: As indicated on Drawings.
 3. Deflection Limits: For wind loads, no greater than 1/240 of the span.
- B. Air Infiltration: Air leakage of not more than 0.06 cfm/sq. ft. when tested in accordance with ASTM E1680 or ASTM E283/E283M at the following test-pressure difference:
 1. Test-Pressure Difference: 6.24 lbf/sq. ft..
- C. Water Penetration under Static Pressure: No water penetration when tested in accordance with ASTM E1646 or ASTM E331 at the following test-pressure difference:
 1. Test-Pressure Difference: [2.86 lbf/sq. ft.] [6.24 lbf/sq. ft.].
- D. Watertightness: No water penetration when tested in accordance with ASTM E2140 for hydrostatic-head resistance.
- E. Wind-Uplift Resistance: Provide metal roof panel assemblies that comply with UL 580 for wind-uplift-resistance class indicated.
 1. Uplift Rating: UL 90.
- F. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes.
 1. Temperature Change: 120 deg F, ambient; 180 deg F, material surfaces.

2.2 EXPOSED-FASTENER METAL ROOF PANELS, GENERAL

- A. Provide factory-formed metal roof panels designed to be installed by lapping side edges of adjacent panels and mechanically attaching panels to supports using exposed fasteners. Include accessories required for weathertight installation.

2.3 CORRUGATED-PROFILE, EXPOSED-FASTENER METAL ROOF PANELS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. AEP Span a brand of ASC Profiles LLC, a part of BlueScope.
2. Arconic.
3. Berridge Manufacturing Company.
4. CENTRIA, a Nucor Brand.
5. Elevate; Holcim Building Envelope.
6. Fabral; a brand of OmniMax International.
7. Firestone Metal Products.
8. Flexospan Steel Buildings, Inc.
9. MBCI; Cornerstone Building Brands.
10. McElroy Metal, Inc.
11. Metal Sales Manufacturing Corporation.
12. Morin - A Kingspan Group Company.
13. Union Corrugating Company.
14. Or approved equal.

B. Panels: Formed with alternating curved ribs.

1. Basis-of-Design Product: Multi-Cor Corrugated Panels by McElroy Metal.
2. Structural Support: Over open framing.
3. Material: Aluminum Stainless steel Copper.
4. Rib Spacing: 2.67 inches Insert dimension o.c. across width of panel.
5. Panel Coverage: 35.5 inches.
6. Panel Height: 0.875 inch.
7. Fasteners: Manufacturer's standard screw fasteners.

2.4 UNDERLAYMENT

A. Self-Adhering, High-Temperature Underlayment: Provide self-adhering, cold-applied, sheet underlayment, a minimum of 30 mils thick, specifically designed to withstand high metal temperatures beneath metal roofing. Provide primer when recommended by underlayment manufacturer.

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
 - a. ATAS International, Inc.
 - b. Carlisle WIP Products; a brand of Carlisle Construction Materials.
 - c. GCP Applied Technologies Inc.
 - d. Henry Company; a Carlisle company.
 - e. Owens Corning.
 - f. Polyglass U.S.A., Inc.
 - g. Protecto Wrap Company.

- h. SDP Advanced Polymer Products Inc.
 - i. Or approved equal.
 - 2. Thermal Stability: Stable after testing at 220 deg F; ASTM D1970/D1970M.
 - 3. Low-Temperature Flexibility: Passes after testing at minus 20 deg F; ASTM D1970/D1970M.
- B. Slip Sheet: Manufacturer's recommended slip sheet, of type required for application.

2.5 PANEL MATERIALS

- A. Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with minimum ASTM A653/A653M, G90 coating designation, or aluminum-zinc alloy-coated steel sheet complying with minimum ASTM A792/A792M, Class AZ50 coating designation; structural quality. Sheet prepainted by coil-coating process to comply with ASTM A755/A755M.
- 1. Nominal Thickness: 0.052 inch.

2.6 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C645; cold-formed, metallic-coated steel sheet, minimum ASTM A653/A653M, G90 hot-dip galvanized coating designation or ASTM A792/A792M, Class AZ50 aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. Panel Accessories: Provide components required for a complete, weathertight panel system, including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
- 1. Closures: Provide closures at eaves and ridges, fabricated of same metal as metal panels.
 - 2. Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
 - 3. Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- thick, flexible closure strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
- C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, eaves, rakes, corners, bases, framed openings, ridges, fasciae, and fillers. Finish flashing and trim with same finish system as adjacent metal panels.
- D. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of plastic caps or factory-applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.

- E. Panel Sealants: Provide sealant types recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
 - 1. Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing. Provide permanently elastic, nonsag, nontoxic, nonstaining tape 1/2 inch wide and 1/8 inch thick.
 - 2. Joint Sealant: ASTM C920; elastomeric polyurethane or silicone sealant; of type, grade, class, and use classifications required to seal joints in metal panels and remain weathertight; and as recommended in writing by metal panel manufacturer.
 - 3. Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C1311.

2.7 FABRICATION

- A. Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. On-Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using UL-certified, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate in accordance with equipment manufacturer's written instructions and to comply with details shown.
- C. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
- D. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.
- E. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations that apply to design, dimensions, metal, and other characteristics of item indicated.
 - 1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
 - 2. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat-lock seams. Tin edges to be seamed, form seams, and solder.
 - 3. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with manufacturer's recommendations.

2.8 FINISHES

- A. Protect mechanical and painted finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

- B. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in same piece are unacceptable. Variations in appearance of other components are acceptable if they are within range of approved Samples and are assembled or installed to minimize contrast.
- C. Steel Panels and Accessories:
 - 1. Siliconized Polyester: Epoxy primer and silicone-modified, polyester-enamel topcoat; with a dry film thickness of not less than 0.2 mil for primer and 0.8 mil for topcoat.
 - 2. Concealed Finish: Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
 - 1. Examine primary and secondary roof framing to verify that rafters, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof panel manufacturer.
 - 2. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal roof panel manufacturer.
 - a. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
- B. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages in accordance with ASTM C754 and metal panel manufacturer's written recommendations.

3.3 INSTALLATION OF UNDERLAYMENT

- A. Self-Adhering Sheet Underlayment: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated below, wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches staggered 24 inches between courses. Overlap side edges not less than 3-1/2 inches. Roll laps with roller. Cover underlayment within 14 days.
 - 1. Apply over the entire roof surface.
- B. Slip Sheet: Apply slip sheet over underlayment before installing metal roof panels.
- C. Flashings: Install flashings to cover underlayment to comply with requirements specified in Section 076200 "Sheet Metal Flashing and Trim."

3.4 INSTALLATION OF METAL ROOF PANELS

- A. Install metal panels in accordance with manufacturer's written instructions in orientation, sizes, and locations indicated. Anchor metal panels and other components of the Work securely in place, with provisions for thermal and structural movement.
 - 1. Shim or otherwise plumb substrates receiving metal panels.
 - 2. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that are concealed by metal panels are installed.
 - 3. Install screw fasteners in predrilled holes.
 - 4. Locate and space fastenings in uniform vertical and horizontal alignment.
 - 5. Install flashing and trim as metal panel Work proceeds.
 - 6. Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.
 - 7. Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
 - 8. Provide weathertight escutcheons for pipe- and conduit-penetrating panels.
- B. Fasteners:
 - 1. Steel Panels: Use stainless steel fasteners for surfaces exposed to exterior; use galvanized-steel fasteners for surfaces exposed to interior.
- C. Metal Protection: Where dissimilar metals contact each other or corrosive substrates, protect against galvanic action as recommended in writing by metal panel manufacturer.
- D. Exposed-Fastener, Metal Roof Panels: Fasten metal panels to supports with fasteners at each lapped joint at location and spacing recommended by manufacturer.
 - 1. Lap ribbed or fluted sheets one full rib. Apply panels and associated items true to line for neat and weathertight enclosure.

2. Provide metal-backed washers under heads of exposed fasteners bearing on weather side of metal panels.
 3. Locate and space exposed fasteners in uniform vertical and horizontal alignment. Use proper tools to obtain controlled uniform compression for positive seal without rupture of washer.
 4. Install screw fasteners with power tools having controlled torque adjusted to compress washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
 5. Flash and seal panels with weather closures at perimeter of all openings.
 6. Watertight Installation:
 - a. Apply a continuous ribbon of sealant or tape to seal lapped joints of metal panels, using sealant or tape as recommend by manufacturer on side laps of nesting-type panels and elsewhere as needed to make panels watertight.
 - b. Provide sealant or tape between panels and protruding equipment, vents, and accessories.
 - c. At panel splices, nest panels with minimum 6-inch end lap, sealed with sealant and fastened together by interlocking clamping plates.
- E. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
1. Install components required for a complete metal panel system, including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal panel manufacturer; or, if not indicated, provide types recommended in writing by metal panel manufacturer.
- F. Flashing and Trim: Comply with performance requirements and manufacturer's written installation instructions. Provide concealed fasteners where possible, and set units true to line and level. Install work with laps, joints, and seams that are permanently watertight.
1. Install exposed flashing and trim that are without buckling and tool marks, and that are true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and achieve waterproof performance.
 2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 ft., with no joints allowed within 24 inches of corner or intersection. Where lapped expansion provisions cannot be used or would not be sufficiently waterproof, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).
- G. Pipe and Conduit Penetrations: Fasten and seal to metal roof panels as recommended by manufacturer.
- 3.5 ERECTION TOLERANCES
- A. Installation Tolerances: Shim and align metal panel units within installed tolerance of 1/4 inch in 20 ft. on slope and location lines and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

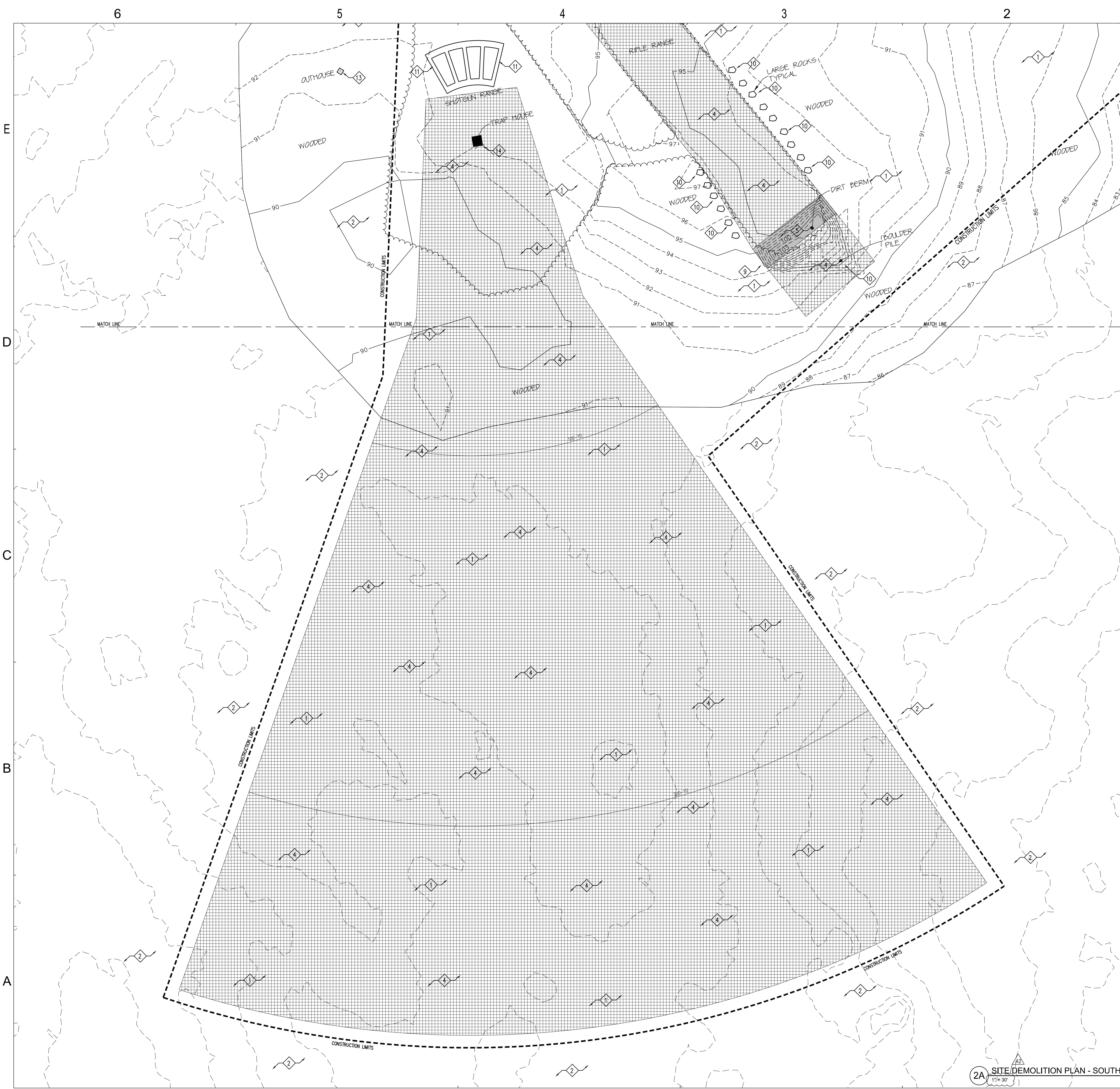
3.6 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect completed metal panel installation, including accessories. Report results in writing.
- B. Remove and replace applications where tests and inspections indicate that they do not comply with specified requirements.
- C. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.
- D. Prepare test and inspection reports.

3.7 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
- B. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION



DEMOLITION LEGEND

- REMOVE STONE PAVEMENT, REGRADE WITH TOPSOIL FROM ELSEWHERE ON SITE.
- LEAD IMPACTED SOILS, REMOVE TOP 12" FOR PLACEMENT IN DESIGNATED AREAS ONLY.
- LEAD IMPACTED SOILS, REMOVE TOP 36" FOR PLACEMENT IN DESIGNATED AREAS ONLY.
- CONSTRUCTION LIMITS

DEMOLITION KEY NOTES

- 1 OWNER WILL CLEAR TIMBER WITHIN CONSTRUCTION LIMITS PRIOR TO START OF CONSTRUCTION. CONTRACTOR TO REMOVE ALL REMAINING VEGETATION, STUMPS, AND CLEAR AND GRUB ENTIRE AREA.
- 2 PROTECT EXISTING WOODLAND OUTSIDE OF CONSTRUCTION LIMITS WITH TEMPORARY FENCING AND/OR SILT FENCE.
- 3 REMOVE STONE/GRAVEL SURFACE. REGRADE AREA WITH TOPSOIL FROM ELSEWHERE ON SITE.
- 4 AREA OF LEAD IMPACTED SOILS. REMOVE TOP 12" OF SOIL AND PLACE IN PROPOSED RANGE BACKSTOP BERMS ONLY. SEE SITE GRADING PLAN.
- 5 AREA OF LEAD IMPACTED SOILS. REMOVE TOP 36" OF SOIL AND PLACE IN PROPOSED RANGE BACKSTOP BERMS ONLY. SEE SITE GRADING PLAN.
- 6 REMOVE SIGNS, POSTS AND/OR POLES.
- 7 REMOVE FIRING LINE CANOPY STRUCTURE, ASSOCIATED FURNISHINGS, AND CONCRETE PAD.
- 8 REMOVE EARTH PERIMETER BERM. EXCESS NON-LEAD IMPACTED SOILS MAY BE STOCKPILED ELSEWHERE ON THE SITE FOR REUSE. SEE SITE GRADING PLAN.
- 9 REMOVE EXISTING EARTH BACKSTOP. ALL LEAD IMPACTED SOILS SHALL BE PLACED IN DESIGNATED AREAS ONLY. EXCESS NON-LEAD IMPACTED SOILS MAY BE STOCKPILED ELSEWHERE ON THE SITE FOR REUSE. SEE SITE GRADING PLAN.
- 10 RELOCATE EXISTING BOULDERS AT DIRECTION OF OWNER.
- 11 REMOVE EXISTING SHOTGUN RANGE PAVEMENT.
- 12 REMOVE STORAGE BUILDING IN ITS ENTIRETY.
- 13 REMOVE OUTHOUSE. PROVIDE FACILITY CLOSURE IN ACCORDANCE WITH MAINE DEM GUIDELINES.
- 14 EXISTING TRAP HOUSE TO REMAIN. PROTECT DURING CONSTRUCTION.

DEMOLITION NOTES

1. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL MATERIALS INDICATED ON THE PLAN. GENERALLY, DEMOLITION AREAS AND FACILITIES ARE INDICATED WITH BOLD LINES, SHADDED AREAS AND/OR KEY NOTES.
2. DISPOSAL OF ALL DEMOLITION MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL GUIDELINES AND PROCEDURES.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING FEATURES ALONG THE PERIMETER OF THE SITE. THESE FEATURES INCLUDE, BUT ARE NOT LIMITED TO: BUILDINGS, PAVEMENTS, FENCES, VEGETATION, UNDERGROUND UTILITIES, ABOVE GROUND UTILITIES, PROPERTY MARKERS, ETC. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE WHICH OCCURS DURING OR AS A RESULT OF CONSTRUCTION ACTIVITY. REPLACEMENT OF DAMAGED PROPERTY OR FEATURES SHALL BE EQUAL TO EXISTING CONDITIONS.
4. FOLLOWING THE REMOVAL OF INDICATED NATURAL FEATURES AND SITE IMPROVEMENTS, AND FOLLOWING THE COMPLETION OF EARTHWORK AS INDICATED ON THE GRADING PLAN, CONTRACTOR SHALL SUPPLY AND INSTALL TOPSOIL FILL IN ALL PROPOSED PLANTING AREAS TO THE GRADES INDICATED ON THE GRADING PLAN, AND IN ACCORDANCE WITH THE EARTHWORK SPECIFICATIONS.
5. ALL TREES, BRUSH, STUMPS, AND GRUBBING DEBRIS SCHEDULED FOR DEMOLITION SHALL REMAIN ON THE SUBJECT SITE AND SHALL BE CHIPPED AND PLACED AT THE DIRECTION OF THE OWNER. STUMPS REMOVED FROM AREAS CONTAINING LEAD IMPACTED SOILS SHALL BE HANDLED SEPARATELY AND ANY SOILS ADHERING TO THOSE STUMPS SHALL BE REMOVED PRIOR TO PROCESSING AND THOSE SOILS SHALL BE PLACED IN THE PROPOSED RANGE BERMS.
6. SCREENING AND RECOVERY OF LEAD FRAGMENTS IN THE RANGES SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL APPLICABLE AND REFERENCED ENVIRONMENTAL HEALTH AND SAFETY MEASURES AND REGULATIONS SHALL BE FOLLOWED. THE LEAD SCREENING AND RECOVERY SHALL BE PERFORMED IN THE AREAS INDICATED ON THE DRAWING AND THE CONTRACTOR SHALL RETAIN THE VALUE OF THE SCREENED LEAD SOLD TO THE RECYCLER.
7. LEAD RECYCLING BID ALTERNATES
 - 7.1. LEAD RECYCLING BASE BID: PERFORM LEAD SCREENING AND RECOVERY ON SOILS WITHIN THE IMPACT FACE OF THE RIFLE AND PISTOL RANGE BACKSTOP BERMS AND WITHIN A 10 FOOT WIDE APRON ADJACENT TO THE TOP SLOPE OF THE BACKSTOP BERM IMPACT FACE.
 - 7.2. LEAD RECYCLING ALTERNATE BID 2: PERFORM LEAD SCREENING AND RECOVERY ON OTHER LEAD IMPACTED SOILS WITHIN THE RIFLE AND PISTOL RANGES AS INDICATED ON THIS DRAWING.
 - 7.3. LEAD RECYCLING ALTERNATE BID 3: PERFORM LEAD SCREENING AND RECOVERY ON LEAD IMPACTED SOILS WITHIN THE SHOTGUN RANGE AS INDICATED ON THIS DRAWING.
8. THE ASSUMED LEAD IMPACTED SOILS MAY BE EXCAVATED TO THE DEPTHS INDICATED ON THE DRAWING AND RELOCATED TO THE PROPOSED BERMS WITHOUT TESTING. ANY SOILS BELOW THOSE DEPTHS THAT ARE EXCAVATED AND RELOCATED TO NON-BERM AREAS SHALL BE TESTED TO CONFIRM THAT THE LEAD CONCENTRATION IS LESS THAN 530 PPM. IF THE TESTED LEAD CONCENTRATION IS GREATER THAN 530 PPM, THOSE SOILS MAY ONLY BE PLACED IN THE PROPOSED BERMS. TESTING SHALL CONDUCTED ON THE EXPOSED SUBGRADE AT A RATE OF 1 TEST PER 1/4 ACRE OF AREA PRIOR TO RELOCATION OF THOSE SOILS TO NON-BERM AREAS.
9. CURRENT FIELD CONDITIONS MAY VARY SOMEWHAT FROM THOSE INDICATED ON THIS PLAN. THE INFORMATION SHOULD NOT BE CONSIDERED AS EXACT OR COMPLETE.
- 9.1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO CONSTRUCTION. CONTACT THE MAINE UNDERGROUND UTILITY PLANT PROTECTION SERVICE AT DIAL 811 (DISSAFE).
- 9.2. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OR RESUMPTION OF WORK THAT COULD POTENTIALLY DISRUPT THE RESPECTIVE UTILITY SERVICE OF INFRASTRUCTURE.
- 9.3. UNLESS NOTED OTHERWISE, THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION OF ALL EXISTING UTILITIES WHICH ARE IN CONFLICT WITH THE PROPOSED SITE IMPROVEMENTS.
- 9.4. ANY DAMAGE TO EXISTING UTILITY LINES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

2A SITE DEMOLITION PLAN - SOUTH
1"=30'

SCHMIDT ASSOCIATES
415 Massachusetts Avenue
Indianapolis, IN 46204
www.schmidt-arch.com

Project No. 2016-114.FSR
Project Date 11.20.2023
Produced ATJ

Final Construction Plans

Allen T. Jacobsen
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#	Revision	Date
A1	ADDENDUM 1	12.07.2023
A2	ADDENDUM 2	12.15.2023

58 Fish & Game Road
Fryeburg, ME 04037

Maine Dept. of Inland Fisheries & Wildlife

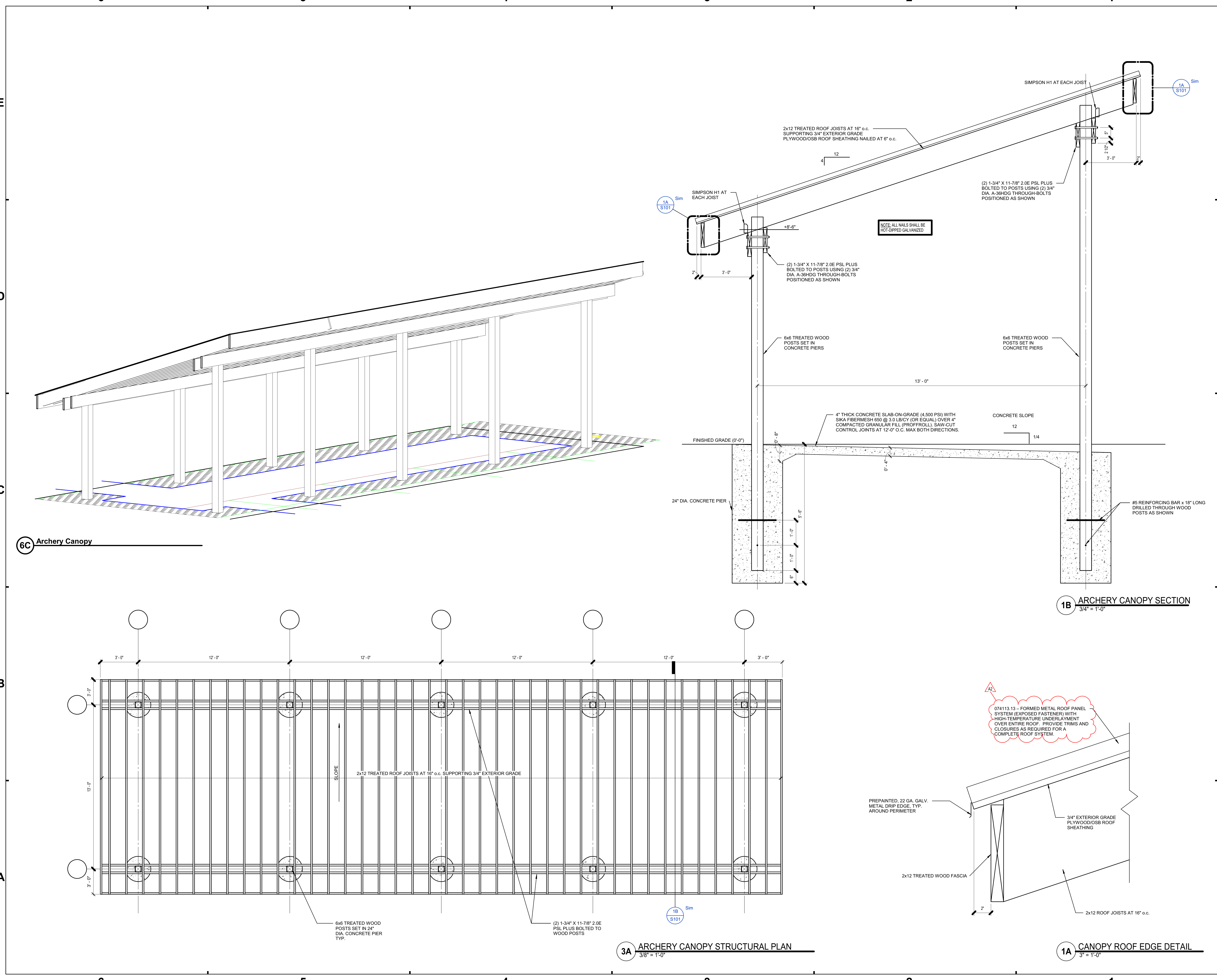
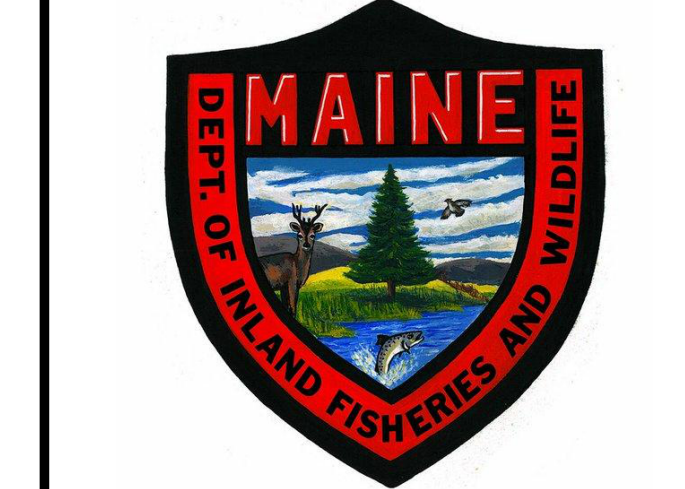


Fryeburg Shooting Range

SITE DEMOLITION PLAN
CD102

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#	Revision	Date
A2	Addendum 2	12.15.2023



2024 ARCHITECT: SCHMIDT ASSOCIATES, INC.
 2024 ENGINEER: TME ENGINEERING, INC.
 2024 ARCHITECT: SCHMIDT ASSOCIATES, INC.
 2024 ENGINEER: TME ENGINEERING, INC.
 2024 ARCHITECT: SCHMIDT ASSOCIATES, INC.
 2024 ENGINEER: TME ENGINEERING, INC.

DOOR & FRAME SCHEDULE															
MARK	TYPE	QTY	MATL	GLAZ	SIZE			MARK	MATL	GLAZ	LABEL	HDWR SET	NOTES	MARK	Comments
					H	W	TH								
A101B	F	1	HM	--	7'-0"	3'-0"	0'-1 3/4"	F1	HM	--		1		A101B	1
A101A	F	1	HM	--	7'-0"	3'-0"	0'-1 3/4"	F1	HM	--		1		A101A	1

GENERAL NOTES

A. This Door Schedule(s) is furnished for whatever assistance it may afford the Contractor. Do not consider it as entirely inclusive. Carefully examine the Drawings (especially the Floor Plans) and the Specifications to determine the extent of door and frame quantities required (including interior borrowed lites or sidelite openings). Should any particular door, frame, or interior borrowed lite or sidelite shown on the Drawings be inadvertently omitted from this Schedule, supply same as required for similar openings.

B. The "QTY" column designates the number of leaves in the opening. The "Door Width" column designates the total width of all leaves. In multiple leaf conditions, the leaves shall equally divide the "Door Width" unless noted otherwise; however, the active leaf shall not be less than 3'-0" wide.

C. Door Type "X" denotes a frame with no door such as a borrowed lite, reference Frame Elevations.

D. An asterisk (*) in a dimension denotes a width that varies, reference plans, elevations, details and schedules.

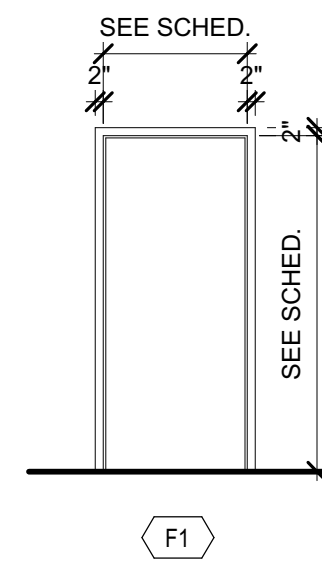
E. Verify locksets with the Owner during submittals.

ABBREVIATIONS

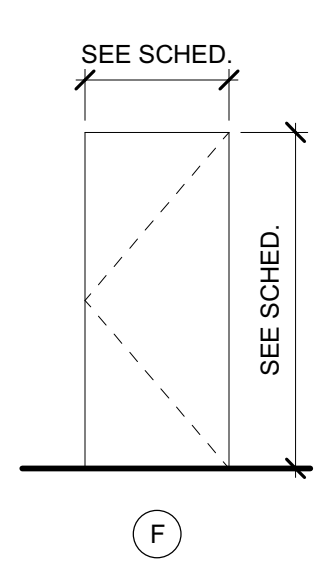
AL Aluminum
HM Hollow Metal ST Steel
WD Wood
TG Tempered Glazing
IG Insulated Glazing
LG Laminated Glazing
FG Frosted Glazing
SP Spandrel Panel

DOOR & FRAME SCHEDULE NOTES
See Door Schedule

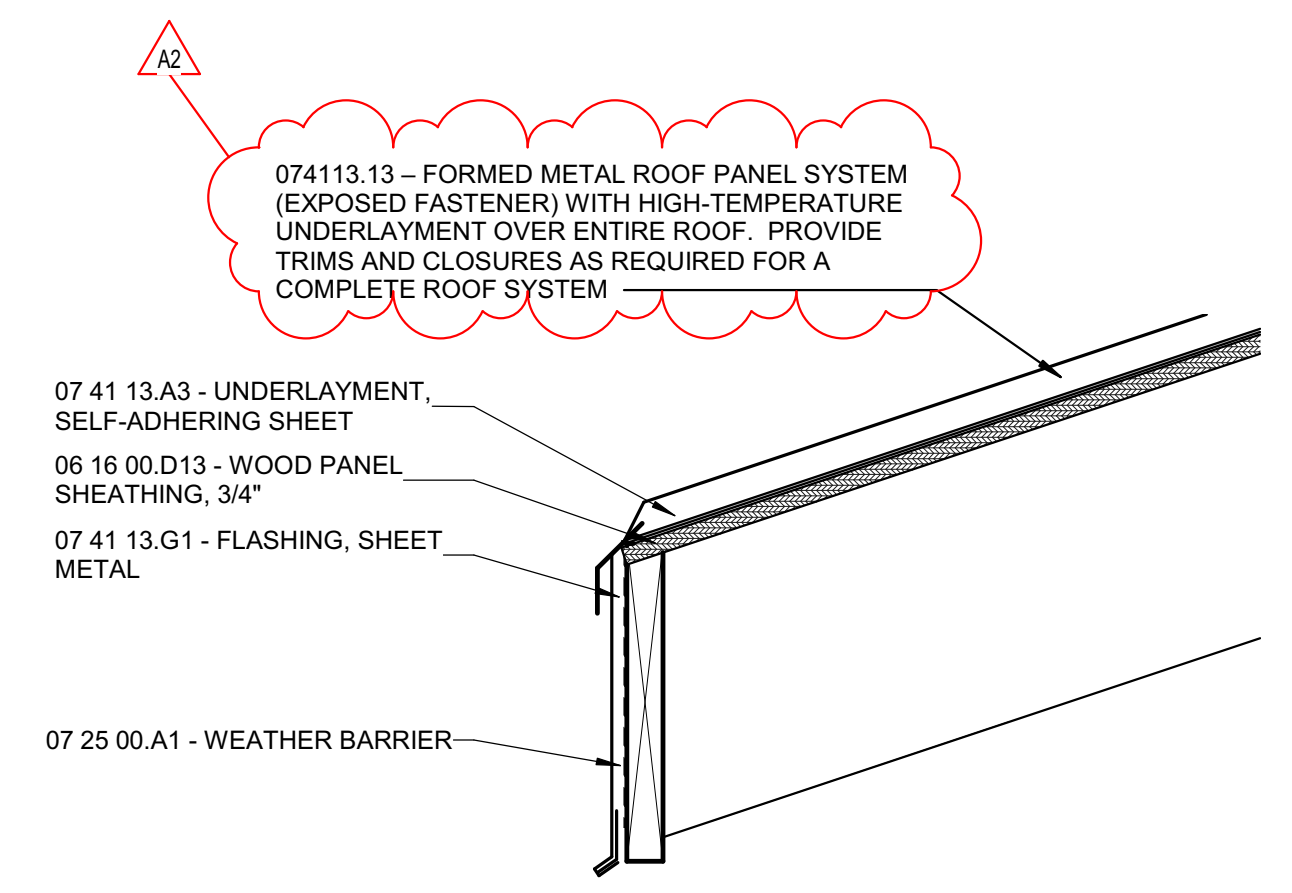
- Existing door and frame to remain. New hardware only. Field verify all existing door and frame information as labeled for installation of new hardware.
- New door/frame in existing masonry wall. Tooth in new masonry into existing as required.
- Set door in frame to allow for 180° door swing.



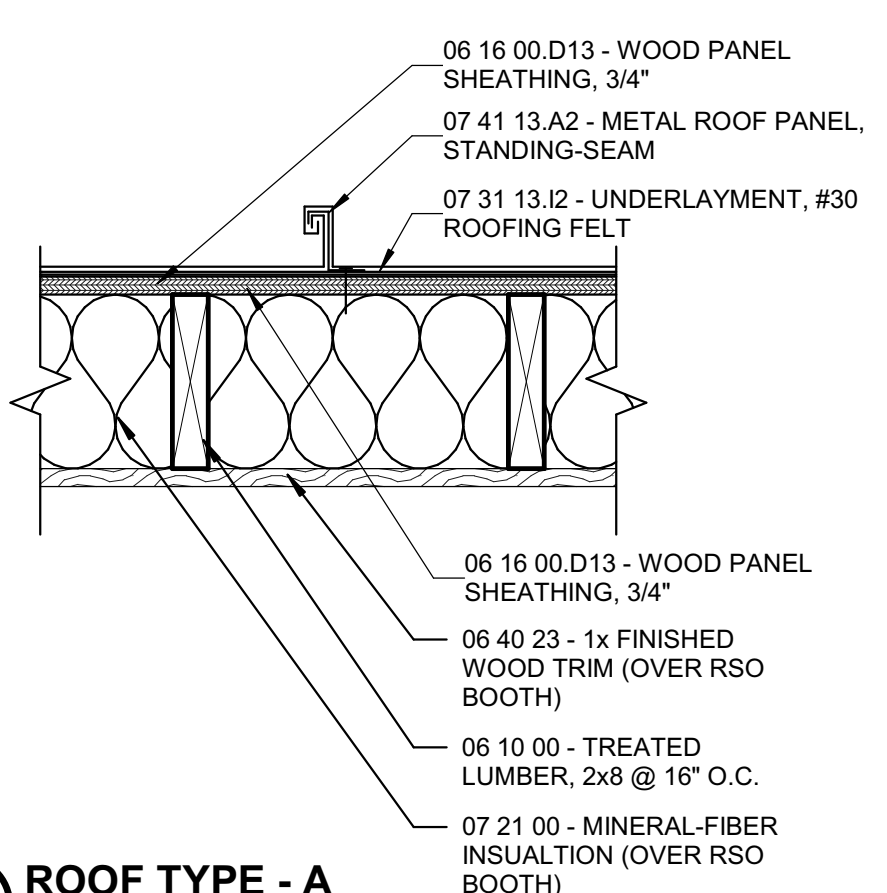
5.4.603 - FRAME ELEVATIONS
1/4" = 1'-0"



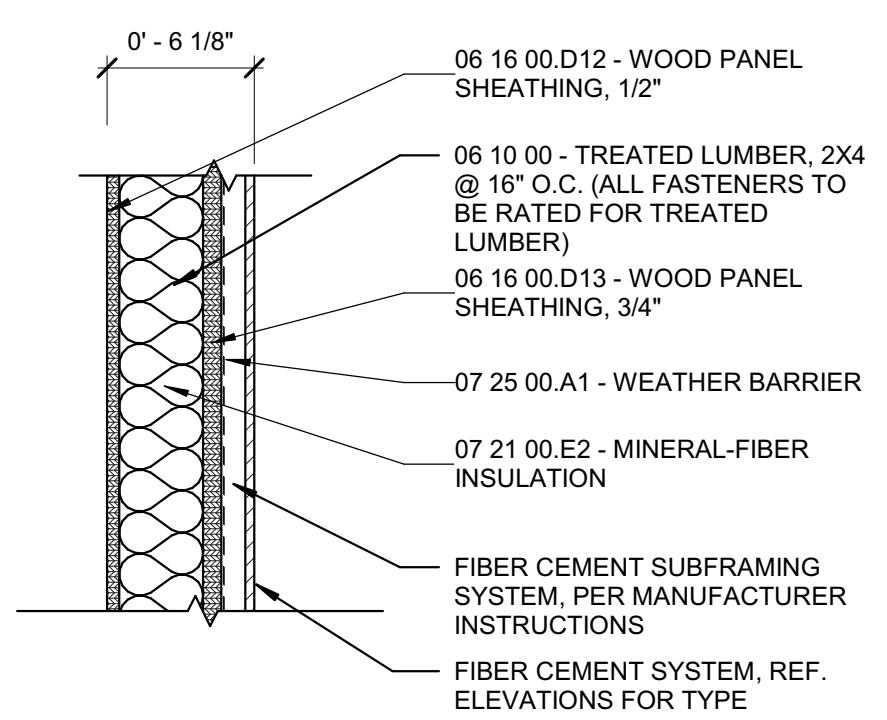
5.4.602 - DOOR PANEL ELEVATIONS
1/4" = 1'-0"



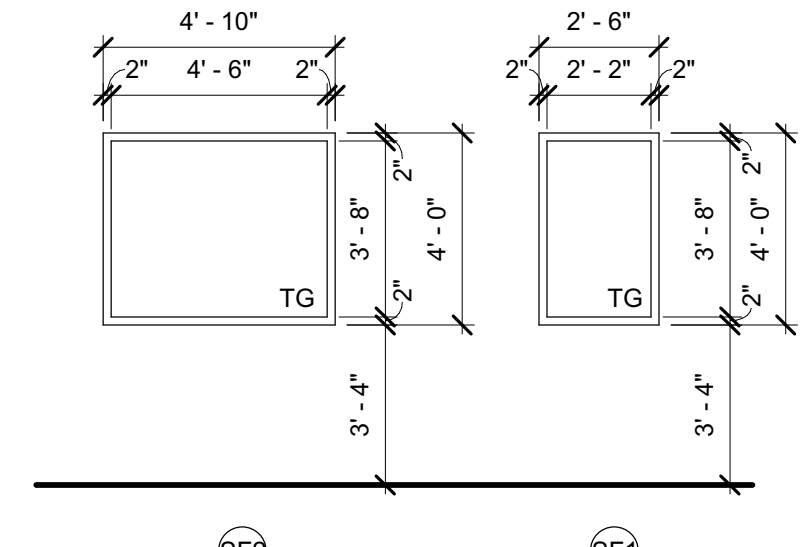
1E RSO OFFICE ROOFING DETAIL
1 1/2" = 1'-0"



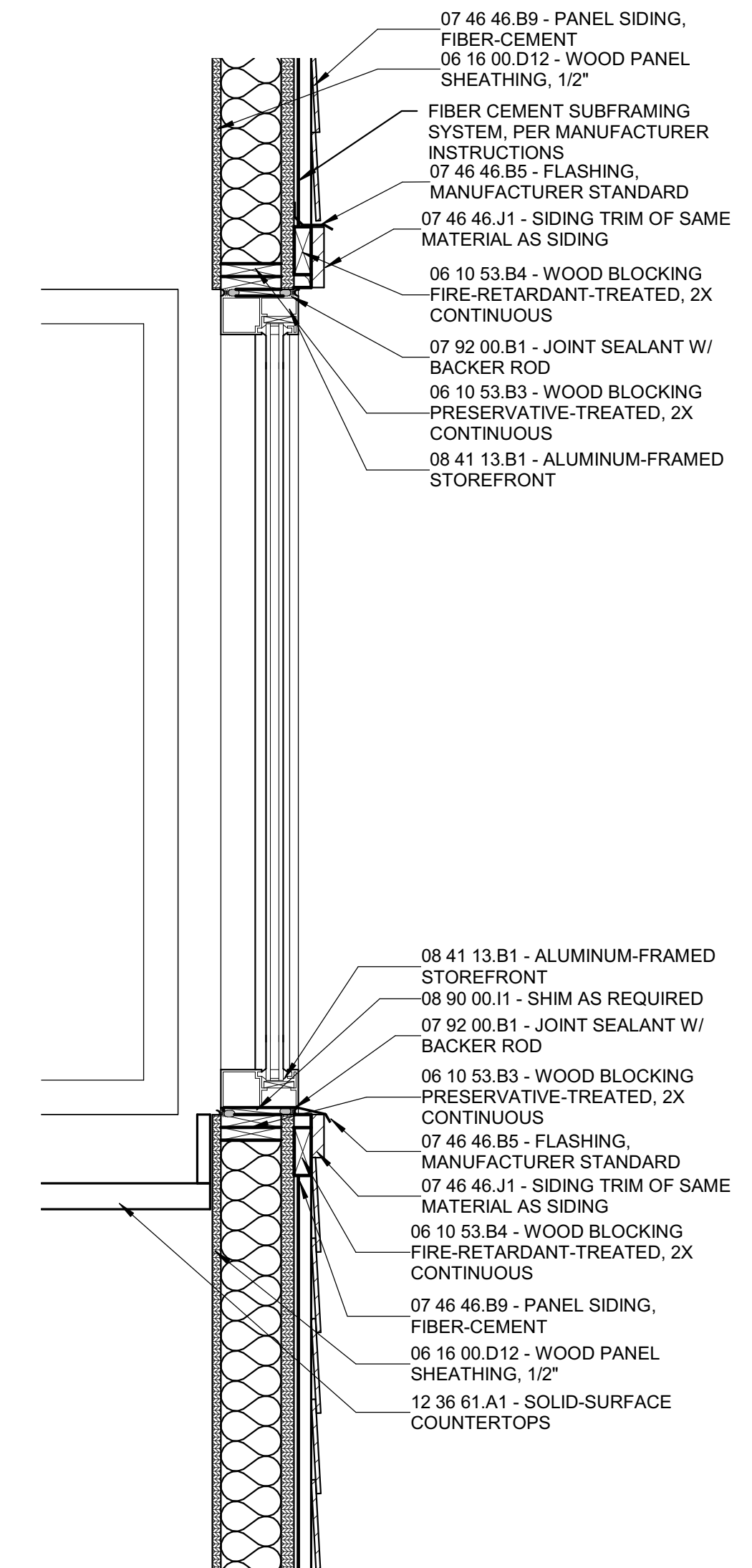
6D ROOF TYPE - A
1 1/2" = 1'-0"



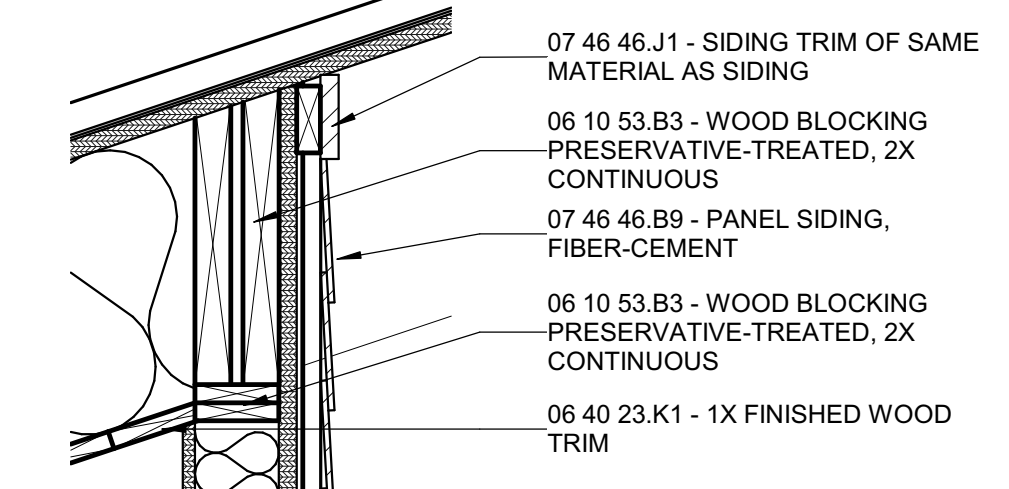
5D EW4F WALL TYPE
1 1/2" = 1'-0"



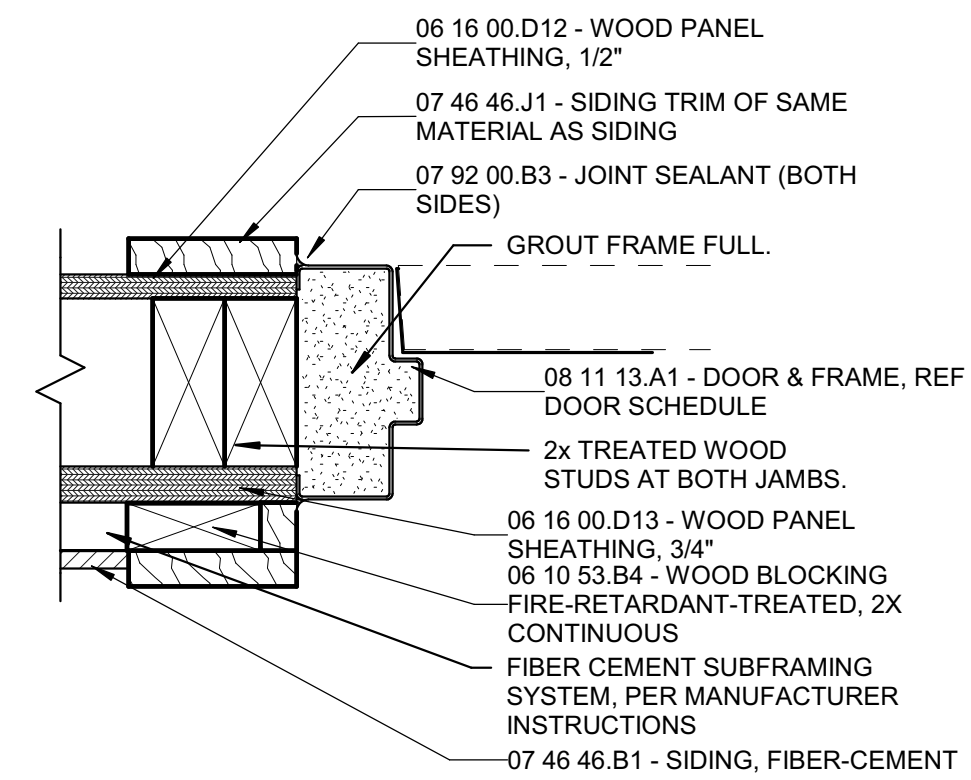
5.4.602 - WINDOW ELEVATIONS
1/4" = 1'-0"



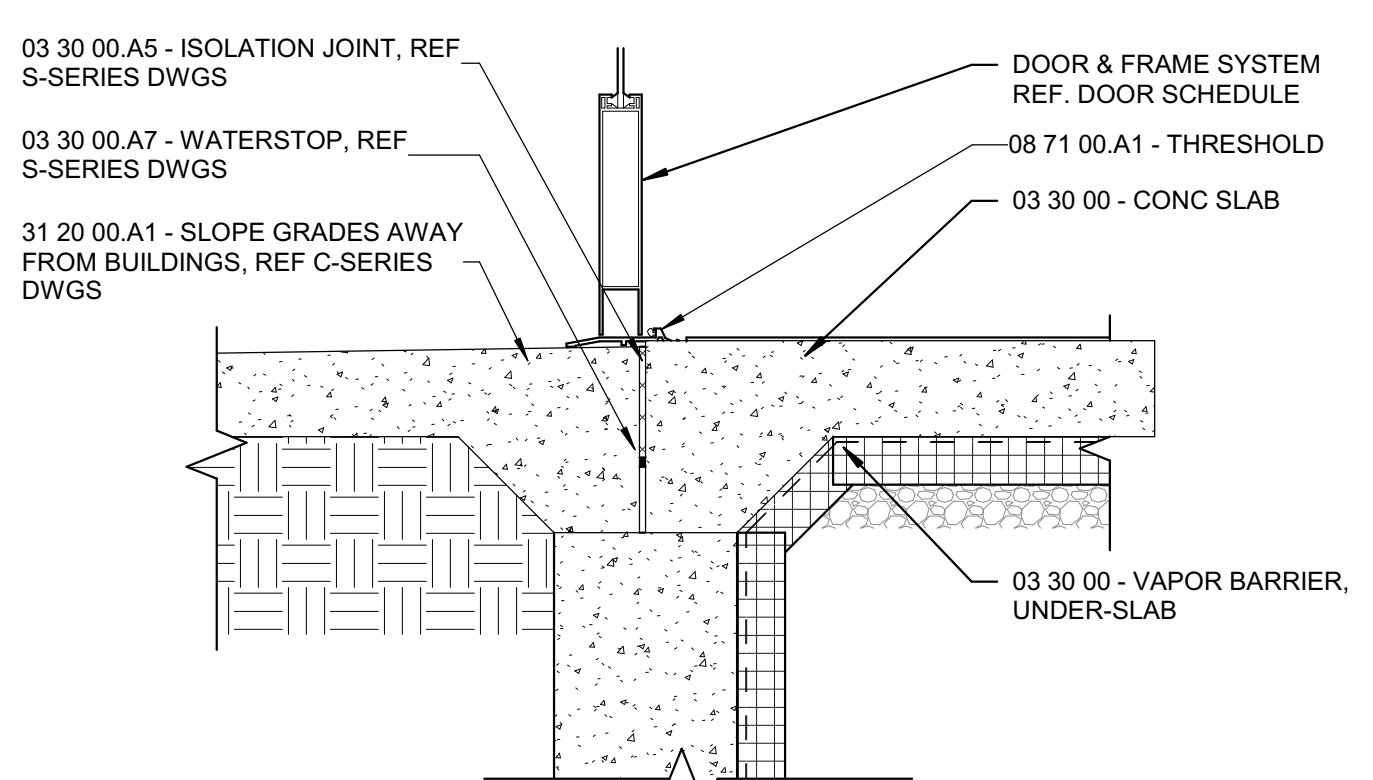
3C RSO OFFICE OPENING DETAIL
1 1/2" = 1'-0"



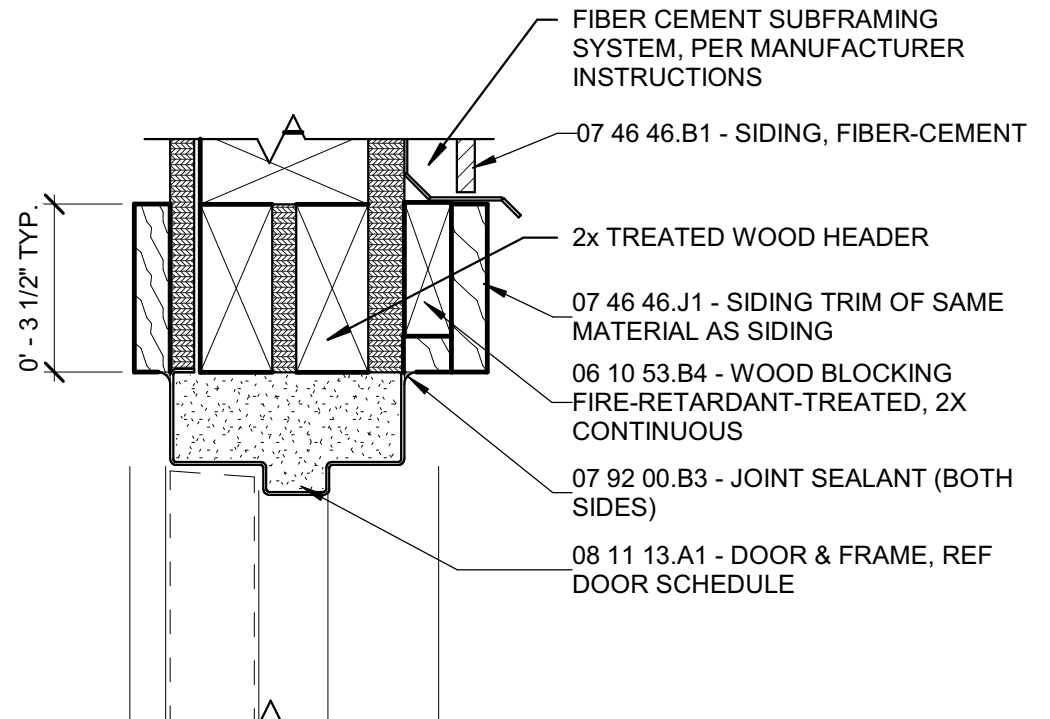
1D DETAIL
1 1/2" = 1'-0"



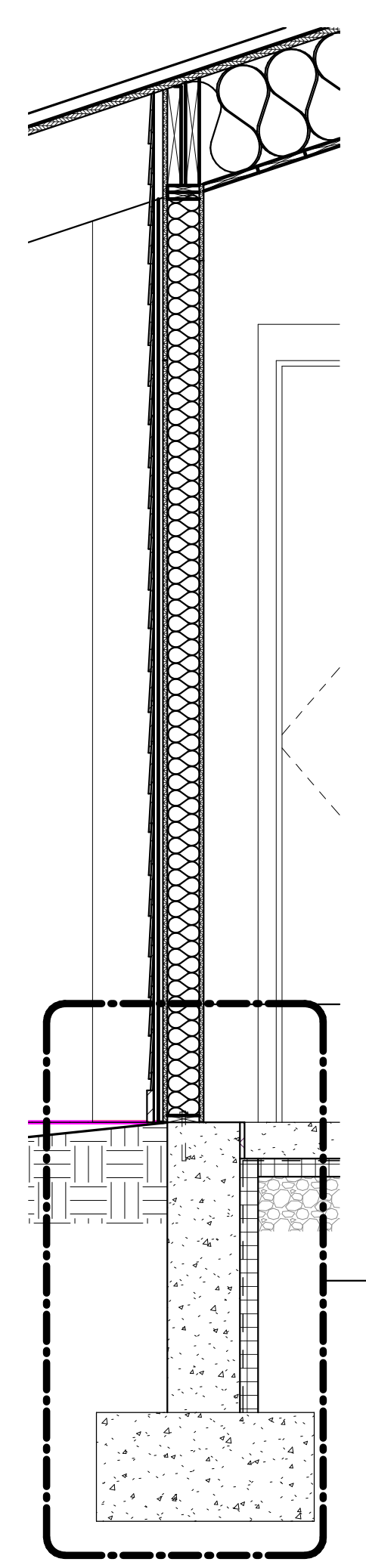
6C Door - Typical - Jamb
3" = 1'-0"



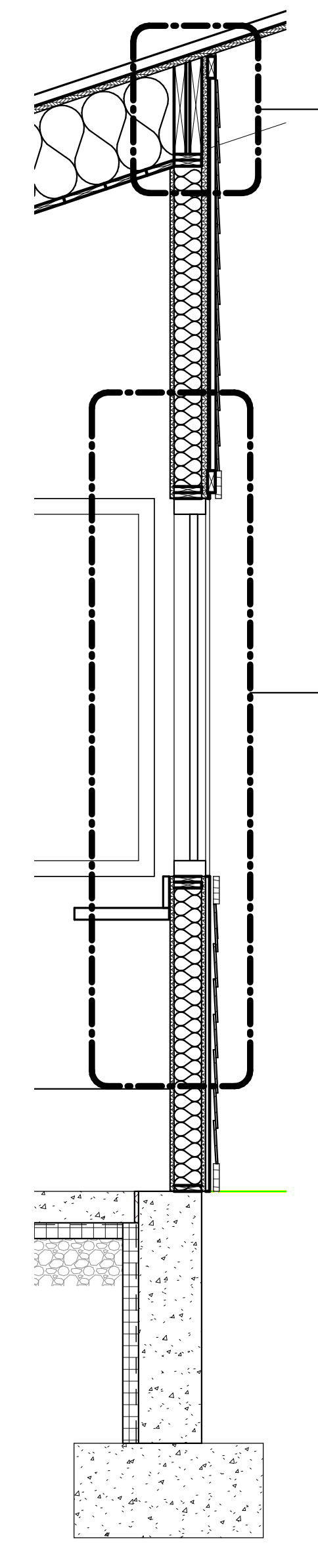
5C FOUNDATION - THRESHOLD
1 1/2" = 1'-0"



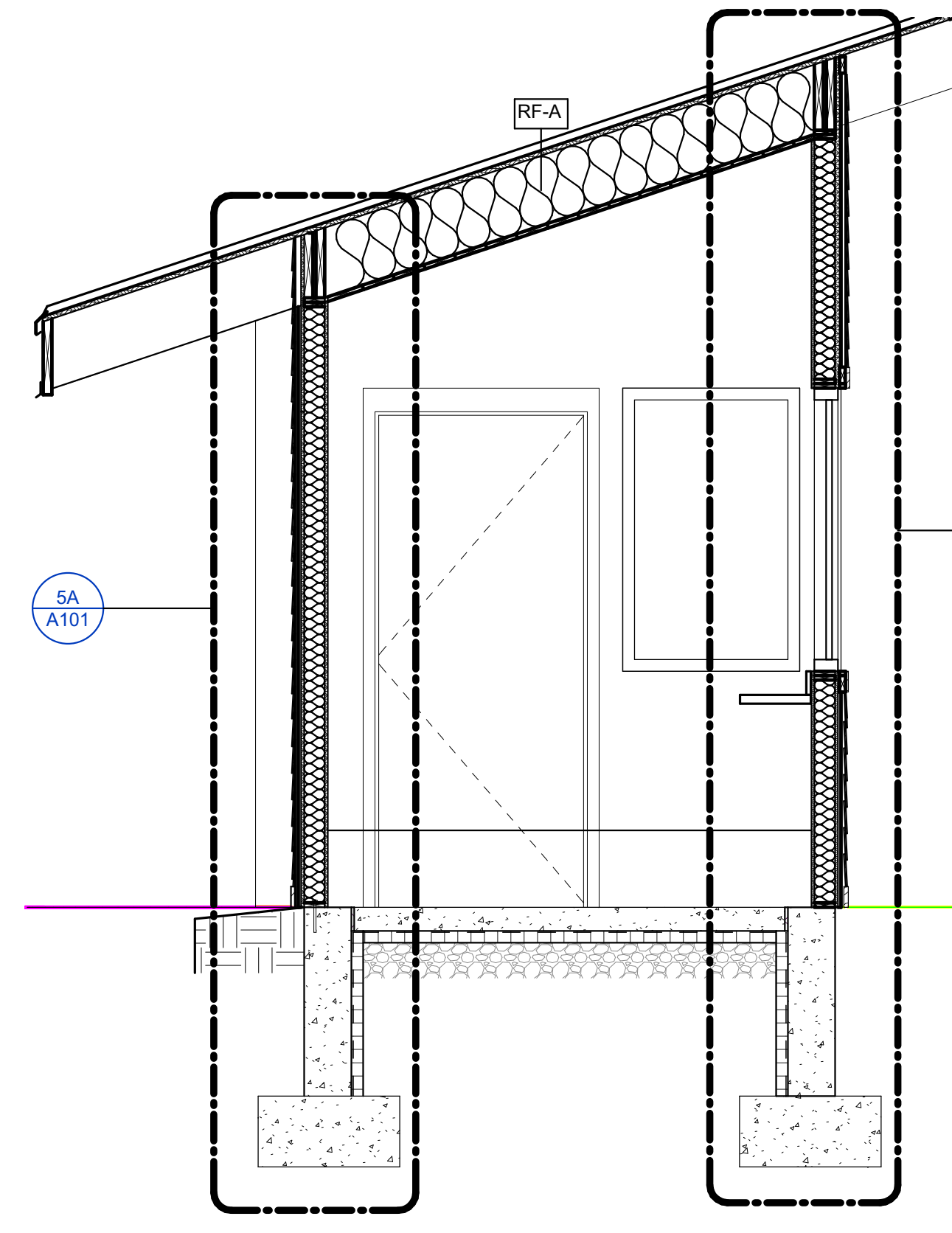
6B Door - Typical - Head
3" = 1'-0"



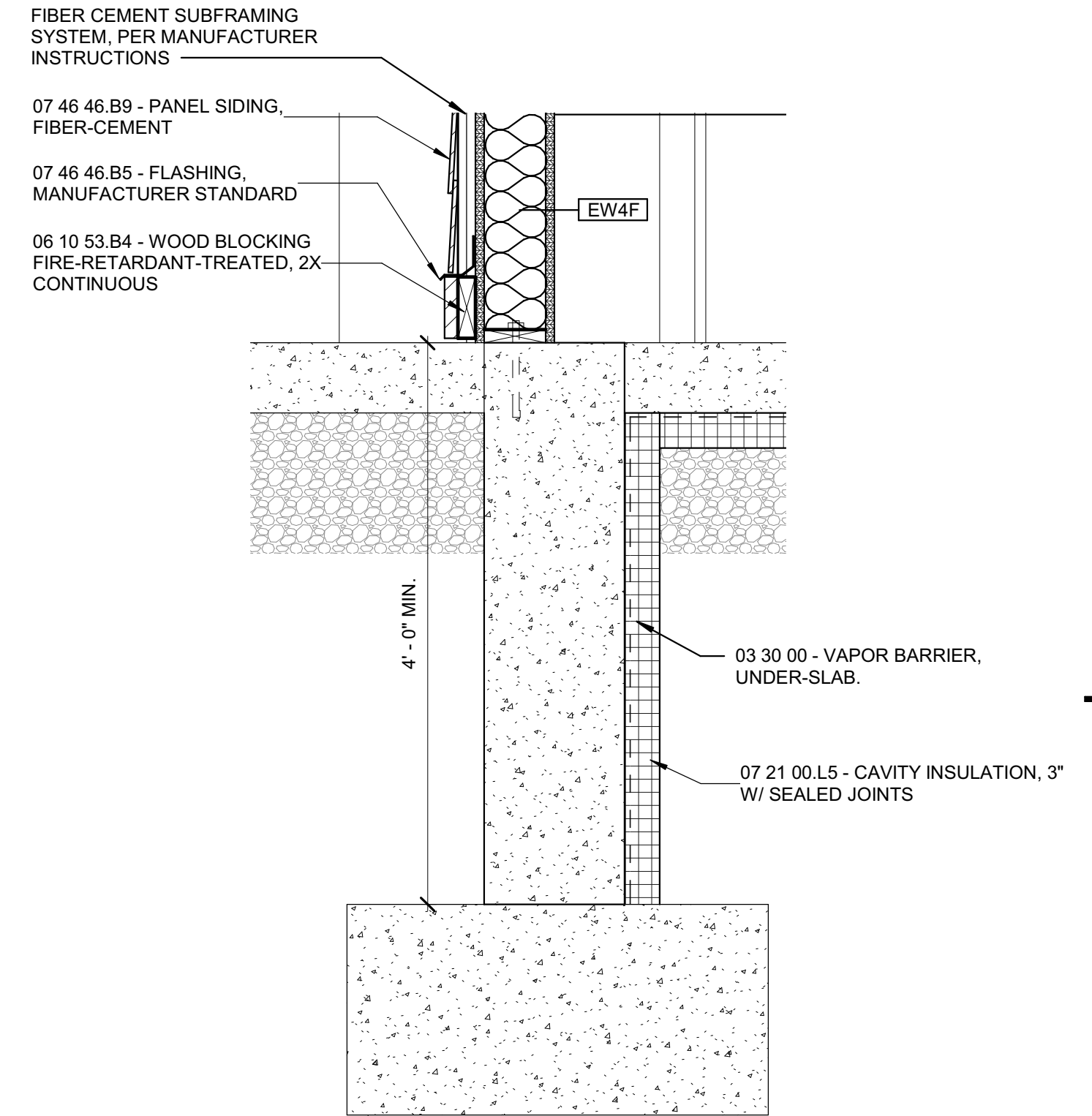
5A WALL SECTION
3/4" = 1'-0"



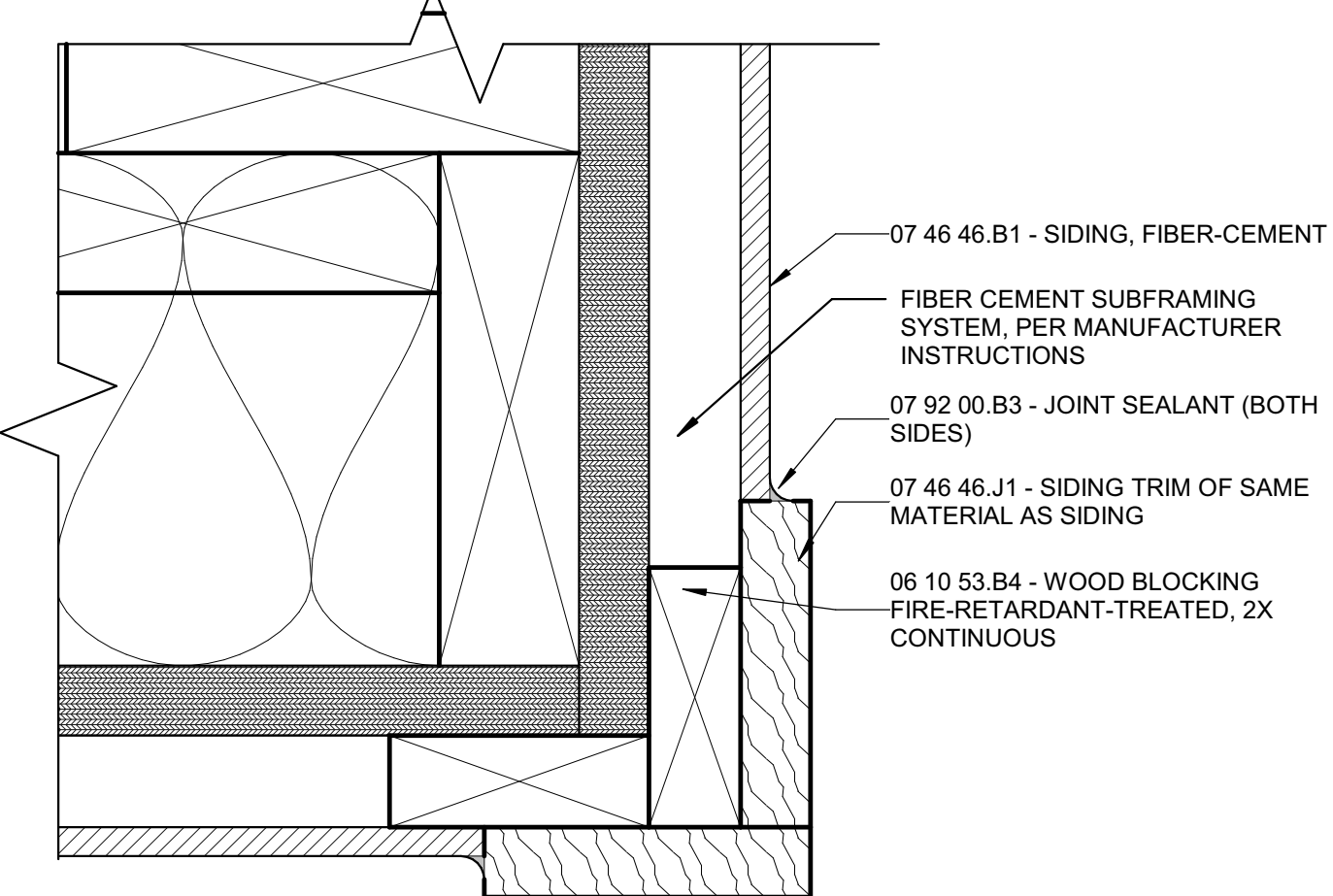
4A WALL SECTION
3/4" = 1'-0"



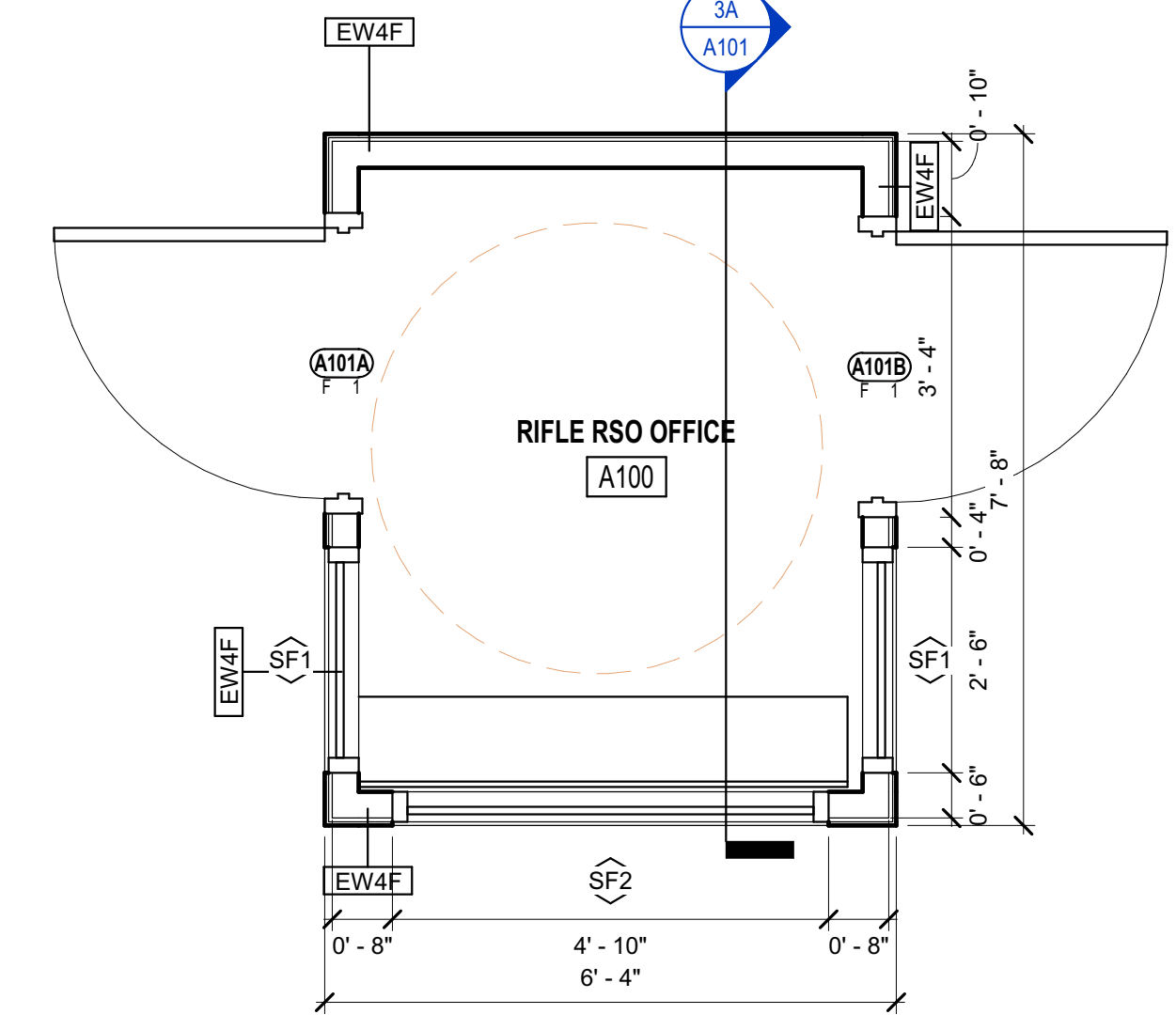
3A RSO OFFICE SECTION
1/2" = 1'-0"



1B RSO OFFICE FOUNDATION DETAIL
1 1/2" = 1'-0"



6A TRIM DETAIL
6" = 1'-0"



1A RIFLE/PISTOL RSO FLOOR PLAN
1/2" = 1'-0"



Project No. 2016-114.FSR
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Produced TME

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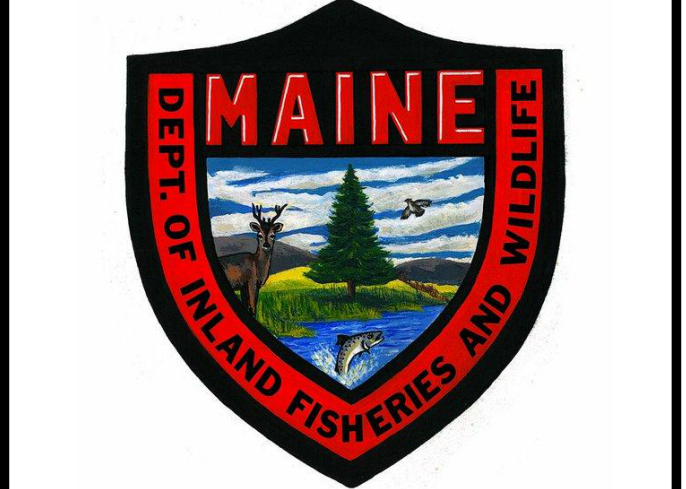
#	Revision	Date
A2	Addendum 2	12.15.2023



58 Fish and Game Road
Fryeburg, ME 04037

KEY PLAN

MAINE DEPT. OF INLAND FISHERIES & WILDLIFE



Fryeburg Shooting Range

RSO OFFICE

A101