

Part 1 – The Schedule

Lincoln Sign Shed

SPECIFICATIONS

SECTION 01 33 00 – SUBMITTAL PROCEDURES

PART 1 – GENERAL

1.01 PROCEDURES FOR SUBMITTALS

- A. Reviewing, Certifying, Approving Authority: Contractor shall be responsible for reviewing and certifying that submittals are in compliance with contract requirements.
- B. Scheduling: Allow review period, beginning with receipt by approving authority that includes at least 5 working days for submittals for contracting officer approval. Period of review for submittals with contracting officer approval begins when Government receives submittal from contractor. Period of review for each resubmittal is the same as for initial submittal.
- C. Variations: Variations from contract requirements require Government approval pursuant to contract Clause entitled “FAR 52.236-21, Specifications and Drawings for Construction” and will be considered where advantages to government.

END OF SECTION 01 33 00

SECTION 01 74 00 – CLEAN UP AND DISPOSAL

PART 1 – GENERAL

1.01 CLEAN UP

- A. The contractor shall keep the work site free from accumulation of waste materials and rubbish resulting from the work. Clean areas daily as required to maintain a safe working site.
- B. Before final acceptance of the project by the Government, the contractor shall remove from the site all excess material, waste, and rubbish resulting from this work.

1.02 DISPOSAL

- A. Waste and excess material:

- a. Material that is either waste or in excess of the needs of the contractor shall be disposed of at the contractor's expense in accordance with all local, state and federal regulations at an approved offsite location.
- b. Burning of waste or excess material on site is not permitted.

END OF SECTION 01 74 00

SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section includes cast-in-place concrete, reinforcement, concrete materials, mix design, placement procedures, and finishes.

1.02 SUBMITTALS

- A. Design Mixes: For each concrete mix indicated.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products complying with ASTM C 94 requirements for production facilities and equipment.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Formwork: Furnish formwork and form accessories according to ACI 301.
- B. Steel Reinforcement
 - a. Reinforcing Bars: ASTM A 615/A 615M, Grade 60 (Grade 420), deformed.
- C. Concrete Materials:
 - a. Portland Cement: ASTM C 150, Type I .
 - b. Normal-Weight Aggregate: ASTM C 33, uniformly graded, not exceeding 1-1/2-inch (38-mm) nominal size.
 - c. Water: Complying with ASTM C 94.
- D. Admixtures:

- a. Air-Entraining Admixture: ASTM C 260.
 - b. Water-Reducing Admixture: ASTM C 494, Type A.
 - c. Water-Reducing and Accelerating Admixture: ASTM C 494, Type E.
 - d. Water-Reducing and Retarding Admixture: ASTM C 494, Type D.
- E. Curing Materials: Select from options below;
- a. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
 - b. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf.
 - c. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
 - d. Water: Potable.
 - e. Clear, Waterborne, Membrane-Forming Curing and Sealing Compound: ASTM C 1315, Type 1, Class A.

2.02 CONCRETE MIXES

- A. Comply with ACI 301 requirements for concrete mixtures.
- B. Prepare design mixes, proportioned according to ACI 301, for normal-weight concrete determined by either laboratory trial mix or field test data bases, as follows:
 - a. Compressive Strength (28 Days): 3000psi.
 - b. Slump: 3 inches for slabs and footings
- C. Synthetic Fiber: Not permitted.

2.03 CONCRETE MIXING

- A. Ready-Mixed Concrete: Comply with ASTM C 94.
 - a. When air temperature is between 85 and 90 deg F (30 and 32 deg C), reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F (32 deg C), reduce mixing and delivery time to 60 minutes.
 - c. Provide batch ticket for each batch discharged and used in the Work, indicating Project identification name and number, date, mix type, mix time and quantity. Record approximate location of final deposit in structure.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Formwork: Design, construct, erect, shore, brace, and maintain formwork according to ACI 301.
- B. Steel Reinforcement: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.
- C. Clean all surfaces prior to placement. Abandoned pipe stub ups shall be cut off within ½" of existing concrete slab surface and filled with bentonite

3.02 CONCRETE PLACEMENT

- A. Comply with recommendations in ACI 304R for measuring, mixing, transporting, and placing concrete.
- B. Do not add water to concrete during delivery, at Project site, or during placement.

3.03 FINISHING UNFORMED SURFACES

- A. General: Comply with ACI 302.1R for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Screed surfaces with a straightedge and strike off. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane before excess moisture or bleedwater appears on the surface.
 - a. Do not further disturb surfaces before starting finishing operations.
- C. Trowel Finish: Apply a smooth trowel finish.

3.04 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection, and follow recommendations in ACI 305R for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions occur before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.

- C. Begin curing after finishing concrete, but not before free water has disappeared from concrete surface.
- D. Cure formed and unformed concrete for at least seven days utilizing one of the following options;
 - a. Moisture Curing: Keep surfaces continuously moist with absorptive cover, water saturated and kept continuously wet.
 - b. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches (300 mm), and sealed by waterproof tape or adhesive. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
 - c. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

END OF SECTION 03 30 00

SECTION 06 10 00 – ROUGH CARPENTRY

PART 1 – GENERAL

1.01 SUMMARY

- A. Work includes wall framing.

1.02 SUBMITTALS

- A. None

PART 2 – PRODUCTS

2.01 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Factory mark each piece of lumber with grade stamp of grading agency.

2.02 WOOD – PRESERVATIVE – TREATED LUMBER

- A. Preservative Treatment by Pressure Process: AWPA C2

- B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.

2.03 DIMENSION LUMBER FRAMING

- A. Maximum moisture content: 15 percent
- B. Load-Bearing members: No. 2 grade of any species (min)
- C. Other deck members: Construction or No. 2 grade of any species (min)

2.04 FASTENERS

- A. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide stainless steel fasteners.
- B. Nails, Brads, and Staples: ASTM F 1667'
- C. Power-Driven Fasteners: NES NER – 272
- D. Wood Screws: ASME B18.6.1
- E. Lag Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- B. Comply with AWPA M4 for applying field treatment to cut services of preservative-treated lumber.
- C. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
 - a. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.

END OF SECTION 06 10 00

SECTION 06 16 00 - SHEATHING

PART 1 – GENERAL

1.01 SUMMARY

- A. Work includes the installation of exterior sheathing for walls and roof.

1.02 SUBMITTALS

- A. None

PART 2 – PRODUCTS

2.01 WOOD PRODUCTS, GENERAL

- A. Plywood
- B. Oriented Strand Board
- C. Thickness: 1/2 inch and 5/8 inch.

PART 3 – EXECUTION

3.01 INSTALLATION, GENERAL

- A. Use methods necessary to install plywood that will securely remain in place.
- B. Use mechanical fasteners (not adhesives)

END OF SECTION 06 16 00

SECTION 06 17 53 – SHOP-FABRICATED WOOD TRUSSES

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section includes the following:
 - 1. Wood roof trusses.
 - 2. Truss accessories.
- B. See Division 6 Section "Rough Carpentry " for supplementary framing and permanent bracing.

1.02 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide metal-plate-connected wood trusses capable of withstanding design loads indicated without exceeding TPI 1 deflection limits.

1.03 SUBMITTALS

- A. Product Data: For metal-plate connectors, metal framing anchors, bolts, and fasteners indicated.
- B. Shop Drawings: Show location, pitch, span, camber, configuration, and spacing for each type of truss required; species, sizes, and stress grades of lumber; splice details; type, size, material, finish, design values, orientation, and location of metal connector plates; and bearing details.

- a. Include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation who is licensed in the state where project is constructed.
- C. Qualification Data: For the following:
 - a. Metal-plate manufacturer.
 - b. Fabricator.
- D. Research/Evaluation Reports: For the following:
 - a. Metal-plate connectors.
 - b. Metal framing anchors.

1.04 QUALITY ASSURANCE

- A. Metal Connector-Plate Manufacturer Qualifications: A manufacturer that is a member of TPI and that complies with TPI quality-control procedures for manufacture of connector plates published in TPI 1.
- B. Manufacturer's responsibilities include preparation of Shop Drawings and comprehensive engineering analysis by a qualified professional engineer.
- C. Fabricator Qualifications: Shop that participates in a recognized quality-assurance program that involves inspection by SPIB, Timber Products Inspection, TPI, or other independent testing and inspecting agency acceptable to Contracting Officer and authorities having jurisdiction.
- D. Comply with TP1 1, "National Design Standard for Metal Plate Connected Wood Truss Construction," and TPI HIB, "Commentary and Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses."
- E. Wood Structural Design Standard: Comply with applicable requirements in AFPA's "National Design Specifications for Wood Construction" and its "Supplement."

PART 2 – PRODUCTS

2.01 DIMENSION LUMBER

- A. Lumber: DOC PS 20 and applicable rules of lumber grading agencies certified by the American Lumber Standards Committee Board of Review.
- B. Grade and Species: Any species for truss chord and web members, graded visually or mechanically, and capable of supporting required loads without exceeding allowable design values according to AFPA's "National Design Specifications for Wood Construction" and its "Supplement."SS

2.02 METAL PRODUCTS

- A. Metal Connector Plates: Fabricate connector plates to comply with TPI 1 from hot-dip galvanized steel sheet complying with ASTM A 653/A 653M, G60 (Z180) coating designation; Designation SS, Grade 33, and not less than 0.036 inch (0.9 mm) thick.
- a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Alpine Engineered Products, Inc.
 2. CompuTrus, Inc.
 3. Eagle Metal Products.
 4. Jager Industries, Inc.
 5. Mitek Industries, Inc.
 6. Robbins Manufacturing Company.
 7. TEE-LOK Corporation.
 8. Truswal Systems Corporation.
- B. Fasteners: Where trusses are exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
- b. Nails, Wire, Brads, and Staples: FS FF-N-105.
- c. Power-Driven Fasteners: CABO NER-272.
- d. Wood Screws: ASME B18.6.1.
- e. Lag Bolts: ASME B18.2.1. (ASME B18.2.3.8M).
- f. Bolts: Steel bolts complying with ASTM A 307, Grade A (ASTM F 568M, Property Class 4.6); with ASTM A 563 (ASTM A 563M) hex nuts and, where indicated, flat washers.
- C. Metal Framing Anchors: Provide framing anchors made from hot-dip, zinc-coated steel sheet complying with ASTM A 653/A 653M, G60 (Z180) coating designation.
- a. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Alpine Engineered Products, Inc.
 2. Cleveland Steel Specialty Co.
 3. Harlen Metal Products, Inc.
 4. KC Metals Products, Inc.
 5. Silver Metal Products, Inc.

6. Simpson Strong-Tie Company, Inc.
7. Southeastern Metals Manufacturing Co., Inc.
8. United Steel Products Company, Inc.

- b. Allowable Design Loads: Meet or exceed those indicated per manufacturer's published values determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.

2.03 FABRICATION

- A. Assemble truss members in design configuration indicated; use jigs or other means to ensure uniformity and accuracy of assembly with joints closely fitted to comply with tolerances in TPI 1. Position members to produce design camber indicated.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Install and brace trusses according to TPI recommendations and as indicated. Install trusses plumb, square, and true to line and securely fasten to supporting construction.
- B. Anchor trusses securely at bearing points; use metal framing anchors. Install fasteners through each fastener hole in metal framing anchor according to manufacturer's fastening schedules and written instructions.
- C. Securely connect each truss ply required for forming built-up girder trusses. Anchor trusses to girder trusses in accordance with manufacturer's installation instructions.
- D. Install and fasten permanent bracing during truss erection and before construction loads are applied. Anchor ends of permanent bracing where terminating at walls or beams.
- E. Install wood trusses within installation tolerances in TPI 1.
- F. Do not cut or remove truss members.
- G. Return wood trusses that are damaged or do not meet requirements to fabricator and replace with trusses that do meet requirements.

END OF SECTION 06 17 53

SECTION 07 25 00 – BUILDING PAPER

PART 1 – GENERAL

1.01 SUMMARY

- A. Work includes the installation of house wrap to cover all of the exterior sheathing.

PART 2 – PRODUCTS

2.01 BUILDING PAPER

- A. General: house-wrap, exterior, spun bonded polypropylene.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General: Comply with building paper manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.
- A. Provide minimum 2 inch overlap with existing building paper on all sides.

END OF SECTION 07 25 00

SECTION 07 41 13 – METAL ROOF PANELS

PART 1 – GENERAL

1.01 SUMMARY

- A. Work includes the complete installation of standing seam metal roof panels.

1.02 SUBMITTALS

- A. Product Data: For each type of product indicated, include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Maintenance Data: For each type of roofing and related accessories to include in maintenance manuals.
- C. Warranty: Sample of special warranty.

1.03 WARRANTY

- A. Special Warranty: Standard form in which manufacturer agrees to repair or replace roofing that fail(s) in materials or workmanship within specified warranty period.
 - a. Failures include, but are not limited to, the following:
 - i. Structural failures, including cracking, deforming, and fading.
 - ii. Deterioration of metals, metal finishes, and other materials beyond normal weathering.

- b. Fading is defined as loss of color, after cleaning with product recommended by manufacturer, of more than 7 Hunter units as measured according to ASTM D 2244.
- c. Warranty Period: 15 years from date of substantial completion.

PART 2 – PRODUCTS

2.01 STANDING SEAM METAL ROOFING

A. General:

- a. Basis-of-Design Product: Subject to compliance with requirements, by Custom Bilt-Metals or approved equal.
- b. Roofing shall have 1 ¼-inch high seams spaced at 16 inches on center or an approved equal pattern. A SL-1750 Titan Snap-Lock Roof Panel meets this requirement.
- c. Color coated galvanized steel shall be pretreated and coated with Kynar 500 Paint System, with a minimum 20 year non-prorated finish warranty. The CO shall select the color from the manufacturer's standard colors.
- d. Thickness of sheets shall be 24 gauge.
- e. Roofing system shall be UL-90 rated.

B. KNOWN SOURCES OF SUPPLY

- a. Companies that have indicated they are suppliers of materials or equipment such as called for in this contract are:

S & H Aluminum Products
901 6th Street South
Great Falls, MT 59405
(406) 452-2416

2.02 ACCESSORIES

- A. Joint Cement: If required, shall be as recommended by the manufacturer. Joint cement shall match color of sheets, where exposed to view.
- B. Flashing: Shall be preformed of the same material, finish, and color as the roofing. Thickness shall be 24 gauge w/ 20 year warranty by the manufacturer.
- C. Fasteners: Shall be non-penetrating clips as recommended by the manufacturer, installed at minimum 18 inch centers, or per manufacturer's installation instructions.
- D. Accessories: Closure strips, filler strips, ridge plates, and similar items shall be of the same material, finish and color as the siding. Neoprene rubber may also be used for closure and filler strips.

- E. Underlayment: Underlayment shall be type 15 asphalt saturated fiberglass roofing felt.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General: These specifications and the contract drawings represent minimum Government requirements. Any additional requirements peculiar to the roofing system manufacturer, which must be incorporated into the work, will be at no additional cost to the Government.
- B. Application of Roofing: Apply roofing in accordance with the manufacturer's standard instructions and details. Stained, discolored or damaged materials shall be removed from the job site and replaced with new materials at no cost to the Government.
- C. Standing Seams: Shall be laid in the direction of the roof slope.
- D. All Fasteners and Accessories: Shall be installed in accordance to the roofing manufacturer's recommendations and details and shall be installed in position for complete weathertightness.

3.02 TOUCH-UP - Finish of roofing shall be maintained at all times, using touch-up paint whenever necessary to prevent formation of rust. Rusted areas and areas scarred during installation shall be thoroughly cleaned and touched-up with paint recommended by roofing manufacturer.

3.03 CLEANUP - After roofing installation is complete, all scraps, wrapping, packing, other miscellaneous debris created shall be picked up and removed and disposed of at an appropriate landfill site.

END OF SECTION 07 41 13

SECTION 07 46 00 – SIDING

PART 1 – GENERAL

1.04 SUMMARY

- A. Work includes the installation of new Fiber-Cement siding and associated trim.

1.05 SUBMITTALS

- A. Product Data: For each type of product indicated, include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
- B. Maintenance Data: For each type of siding and related accessories to include in maintenance manuals.

- C. Warranty: Sample of special warranty.

1.06 WARRANTY

- A. Special Warranty: Standard form in which manufacturer agrees to repair or replace siding and soffit that fail(s) in materials or workmanship within specified warranty period.
 - a. Failures include, but are not limited to, the following:
 - i. Structural failures, including cracking, deforming, and fading.
 - ii. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - b. Fading is defined as loss of color, after cleaning with product recommended by manufacturer, of more than 7 Hunter units as measured according to ASTM D 2244.
 - c. Warranty Period: 25 years from date of substantial completion.

PART 2 – PRODUCTS

2.02 FIBER-CEMENT SIDING

- A. General: ASTM 1186, Type A, Grade II, Fiber-cement board, noncombustible when tested according to ASTM E 136; with a flame-spread index of 25 or less when tested according to ASTM E 84.
 - a. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - b. Basis-of-Design Product: Subject to compliance with requirements, provide James Hardie products from the HZ5 product line (engineered for Montana climate zone): Hardiplank Lap Siding or comparable product by one of the following:
 - i. Cemplank.
 - ii. CertainTeed Corp.
 - iii. GAF Materials Corporation.
 - iv. James Hardie
 - v. MaxiTile, Inc; a California Corporation.
 - vi. Nichiha Fiber Cement
 - vii. Everlog Siding
 - c. Horizontal Pattern: Boards with 6 - 10 inch exposure.
 - d. Texture: Select Cedarmill or approved equal.
 - e. Factory Priming: Manufacturer's standard acrylic primer.
 - f. Finish: Color as selected by CO. Paint finish included in 25 year warranty.

2.03 ACCESSORIES

- A. Siding Accessories, General: Provide starter strips, edge trim, corner trim, outside and inside corner caps, and other items as recommended by siding manufacturer for building configuration.
 - a. Provide accessories made from same materials as adjacent siding unless otherwise indicated.
- B. Decorative Accessories: Provide the following fiber-cement decorative accessories as indicated:
 - a. Moldings and trim
- C. Colors for Decorative Accessories: Match colors to existing colors.
- D. Flashing: Provide flashing complying with Division 07 Section "Sheet Metal Flashing and Trim" at the door and window.
- E. Fasteners: Siding fasteners should be of sufficient length and location to meet manufacturer and ICC code requirements.
 - a. For fastening to wood, use siding nails of sufficient length to penetrate a minimum of 1 inch into substrate.
 - b. For fastening fiber-cement, use stainless-steel fasteners. Stainless fasteners may be substituted with alternate fastening material components only per manufacturer's approval/recommendation.

PART 3 – EXECUTION**3.01 INSTALLATION**

- A. General: Comply with siding manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.
 - a. Do not install damaged components.
 - b. Center nails in elongated nailing slots without binding siding to allow for thermal movement.
- B. Install fiber-cement siding and related accessories.
 - a. Install fasteners no more than 24 inches o.c.
- C. Where necessary, install joint sealants to produce a weather tight installation.

END OF SECTION 07 46 00

SECTION 07 62 00 – SHEET METAL FLASHING AND TRIM**PART 1 – GENERAL****1.01 SUMMARY**

- A. This section includes the following:
 - a. Trim around window and door
 - b. Fascia
 - c. Soffit

1.02 PERFORMANCE REQUIREMENTS

- A. General: Sheet metal trim assemblies as indicated shall withstand wind loads, structural movement, thermally induced movement, and exposure to weather without failure due to defective manufacture, fabrication, installation, or other defects in construction. Completed sheet metal trim shall not rattle, leak, or loosen, and shall remain water tight.

1.03 WARRANTY

- A. Special Warranty on Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace sheet metal trim that shows evidence of deterioration of factory-applied finishes within specified warranty period.
 - a. Exposed metal finish: Deterioration includes, but is not limited to, the following:
 - i. Color fading more than 5 Hunter units when tested according to ASTM 2244.
 - ii. Chalking in excess of a No. 8 rating when tested according to ASTM 4214.
 - iii. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - b. Finish Warranty Period: 10 years from date of Substantial Completion.

PART 2 – PRODUCTS**2.01 SHEET METALS**

- A. Metallic-Coated Steel Sheet: Restricted flatness steel sheet, metallic coated by the hot-dipped process and prepainted by the coil-coating process to comply with ASTM A 755/A 755M.
 - a. Surface: Smooth, flat and mill phosphatized for field painting and with manufacturer's standard clear acrylic coating on both sides.
 - b. Exposed Coil-Coated Finish:
 - i. Four-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70% PVDF resin by weight in color coat and clear coats.

Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.

- c. Color: Select color to match existing colors. Selected color to be approved by CO.
 - d. Concealed Finish: Pretreat with 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 (0.013mm).
- B. Aluminum Soffit:
- a. Soffit shall be nominal 0.019-inch thick aluminum.
 - b. Soffit shall be V-groove style, 16-inches wide with tongue and groove.
 - c. Soffit shall be factory finished after forming with polyvinyl chloride based enamel. All edges shall be coated, including lanced protrusions formed on aerated panels.
 - d. Color: As selected by CO.
- C. Steel Fascia:
- a. Fascia shall be nominal 0.0172-inch thick (gauge) galvanized steel.
 - b. Fascia shall be factory finished with polyvinyl chloride based enamel.
 - c. Color: As selected by CO.

2.02 ACCESSORIES

- A. General: Provide materials and types of fasteners, solder, welding rods, protective coatings, separators, sealants, and other miscellaneous items as required for complete sheet metal flashing as recommended by manufacturer of primary sheet metal or manufactured items unless otherwise indicated.
- B. Fasteners: Annular threaded nails, self-tapping screws, self-locking rivets and bolts, and other suitable fasteners designed to withstand design loads and recommended by manufacturer of primary sheet metal or manufactured item.
- a. General: Blind fasteners or self-drilling screws, with hex-washer head.
 - i. Exposed fasteners: Heads matching color of sheet metal.
 - ii. Blind Fasteners: High-strength aluminum or stainless-steel rivets suitable for metal being fastened.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.
- B. Verify that substrate is sound, dry, smooth, clean, and securely anchored.

END OF SECTION 07 62 00

SECTION 08 11 00 – DOORS & FRAMES

PART 1 – GENERAL

1.01 SUMMARY

- A. Work includes the installation of metal exterior grade door.

1.02 SUBMITTALS

- A. Product Data: For each type of product indicated, include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

PART 2 – PRODUCTS

2.01 Exterior Door and Lockset

- A. Door, 4'-0"x7'-0" overhead exterior door.
- B. Lockset, Commercial Cylinder Lockset, uses Forest Service Yale key for access.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.
- B. Placing Frames: Comply with provisions in SDI 105, unless otherwise indicated. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is completed, remove temporary braces and spreaders, leaving surfaces smooth and undamaged.

END OF SECTION 08 11 00

SECTION 08 53 13 – VINYL WINDOWS

PART 1 – GENERAL

1.01 SUMMARY

- A. Work includes the installation of vinyl window.

1.02 SUBMITTALS

- A. Product Data: For each type of product indicated, include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

PART 2 – PRODUCTS

2.01 FABRICATION

- A. Windows: Provide vinyl window in configuration indicated. Provide window frames, fixed and operating sash, operating hardware, and other trim and components necessary for a complete, secure, and weathertight installation

2.02 MATERIALS

- A. Vinyl Frames; Multi-chambered extruded, rigid, impact resistant poly vinyl chloride stabilized for physical properties and color retention. Minimum nominal wall thickness of 0.075 inches. Main frame and sash to be fusion welded.
 - a. Color: Color as selected from manufacturer's standard color range.
- B. Glazing System: Manufacturer's standard factory-glazing system that produces weathertight seal.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. General: Comply with manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.
- B. Install windows level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
- C. Clean exposed surfaces immediately after installing windows. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
- D. Clean factory-glazed glass immediately after installing windows. Comply with manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels and clean surfaces.
- E. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

END OF SECTION 08 53 13