

Missouri Department of Transportation
Patrick K. McKenna, Director

1.888.ASK MODOT (275.6636)

ADDENDUM 001 Request for Bid Osage Beach Maintenance Building Reroof and Exterior Modifications RFB 9-160615KH1

Bidders should acknowledge receipt of Addendum 001 (ONE) by signing and including it with the original bid. The due date for receipt of bids **has not** changed by this Addendum; the due date is **June 15, 2016 2:00 PM Central Time**. Accordingly, the following clarifications, and or additional information, are believed to be of general interest to all potential bidders. All other terms and conditions remain unchanged and in full force.

Name and Title of Signer (Print or type)	Name and Title of Department Authority Kristi Hixson General Services Senior Specialist
Contractor/Offeror Signature <hr/> (Signature of person authorized to sign)	Department of Transportation <i>Kristi Hixson</i> <hr/> (Authorizing Signature)
Date Signed:	Date Signed:5/31/2016

- **Revised Drawings – Replace the drawings with the updated drawings (separate attachment)**
- **Remove Specification 07465 Aluminum Soffit Panels of the Osage Beach Maintenance Building Reroof and Exterior Modifications Specification.**
- **Replace Specification 07465 Aluminum Soffit Panels with the attached.**



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07465

ALUMINUM SOFFIT PANELS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Preformed aluminum soffit panels, trim, and accessories for enclosing exterior roof overhangs.

1.2 RELATED SECTIONS

- A. Section 06112 – Framing and Sheathing.
- B. Section 07900 – Joint Sealers.

1.3 REFERENCES

- A. AAMA 1402-86 – Aluminum Siding, Soffit, and Fascia.
- B. ASTM B 209 – Aluminum and Aluminum-Alloy Sheet and Plate.
- C. ASTM D 226 – Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
- D. ASTM E 84 – Surface Burning Characteristics of Building Materials.

1.4 PERFORMANCE REQUIREMENTS

- A. Soffits shall be fabricated and installed to withstand positive and negative wind pressure loads in accordance with applicable codes.
- B. Soffit system to accommodate without damage to components or failure of weather barrier movement caused by seasonal temperature cycling and deflection of structural support framing.
- C. Moisture entering or condensation occurring within soffit system shall drain to exterior.

1.5 SUBMITTALS

- A. Provide in accordance with Section 01300:
 - 1. Product data including material descriptions, dimensions, and profiles.
 - 2. Shop drawings showing layout, location of vents, dimensions, penetrations, trim, and installation methods.
 - 3. 4 inch long minimum samples of soffit panel and trim in color selected.
 - 4. Certificates documenting soffit system complies with requirements specified.
 - 5. Manufacturer’s installation instructions.
 - 6. Copy of warranty for review by Architect.

1.6 QUALITY ASSURANCE

- A. Manufacturer: Company with a minimum 5 years’ successful experience manufacturing aluminum soffit.
- B. Single Source Responsibility: To ensure functional and appearance compatibility, soffit panels and all trim pieces shall be products of single manufacturer.
- C. Aluminum soffit system shall be fabricated and installed to comply with:
 - 1. AAMA 1402-86.
 - 2. International Code Council-ES Legacy – Report No. 97-64.
 - 3. International Conference of Building Officials (ICBO): Report No. 2027.

1.7 PRODUCT HANDLING

- A. Deliver components in manufacturer’s protective cartons clearly labeled as to specific products contained.

- B. During delivery and storage keep cartons flat and supported along entire length.
- C. Store material off ground, out of weather, in dry place. Provide ventilation. Protect from falling objects and construction activities.
- D. Handling: Avoid gouging, scratching, and denting.

1.8 WARRANTY

- A. Provide under provisions of section 01780 – Closeout Submittals: Fifty (50) year lifetime limited, non-prorated, transferable warranty.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Fabricate soffit panels and trim from sheet aluminum complying with ASTM B 209, AA3000 Alloy:
- B. Minimum Aluminum Properties:
 1. Ultimate Strength: 25 KSI.
 2. Yield Strength: 22 KSI.
 3. Modulus of Elasticity: 10,000 KSI.
 4. Coefficient of Linear Thermal Expansion: 1.31×10^{-5} inch/inch/degree F.
 5. Melting Range: 1175 to 1210 degrees F.

2.2 SOFFIT PANELS

- A. Type: Non-vented, hi-tensil, double V-groove soffit panel with installation flanges along both edges.
 1. Dimensions: 12 inches exposed width by 144 inches long.
 2. Thickness: 0.016 inches.
 3. Profile: V-grooves forming three (3) 4-inch wide panels.
 4. Surface: Smooth.
 5. Finish Color: White

2.3 TRIM

- A. Provide trim pieces as detailed on manufacturer's installation manual and as required for complete, weathertight, functional installation.
- B. Aluminum Trim: Fabricate from same material as soffit to shape, dimensions, and profile required to accommodate soffit panel and project conditions. Provide with channels to receive panels, flanges for concealed weathertight attachment, and slotted attachment holes. Color shall match or coordinate with soffit color. In order to eliminate or minimize visible joints, form in longest possible lengths with 10 feet being minimum.
 1. J-channel: ½ inch wide channel to receive soffit panels with ½ inch attachment flange.
 2. Reverse Frieze Molding: F-shaped piece with ½ inch wide channel to receive aluminum soffit panels.
 3. Soffit T-Bar: Double channel to receive two soffit panels with exposed face.

2.4 ACCESSORIES

- A. Fasteners: Weather and corrosion resistant nails of type, size, and spacing as recommended by soffit manufacturer.
 1. Plain Shank Nails: Use for wood studs, furring, and other framing with minimum lengths of 1-1/2 inches. Allow ¾ inch minimum penetration into wood framing.
 2. Screws: Use for plywood sheathing.
 3. Exposed Nails: Trim nails that match soffit and trim.
- B. Sealants: Silicone type as recommended by soffit manufacturer.

PART 3 EXECUTION

3.1 GENERAL

- A. Prepare substrate and install soffit in accordance with manufacturer's instructions, approved shop drawings, and manufacturer's soffit installation manual.
- B. Coordinate work with provisions and installation of exterior insulation finish system to ensure compatibility and weathertight, neat transition from vertical surface to horizontal soffit panels.

3.2 PREPARATION

- A. Inspection: Verify that soffit support framing is rigid, level, and spacing does not exceed 24 inches. Do not proceed until deficiencies are addressed.

3.3 INSTALLATION

- A. Field Cutting: Accurately measure and cut soffit panels and trim. Use power circular saw with 10-point aluminum cutting blade, duckbill sheet metal snips, or hacksaw as recommended by manufacturer for specific cutting operation.
- B. Trim: Prior to installing soffit panels, locate and anchor perimeter to receive channels.
- C. Soffit Panels:
 - 1. Layout panels as detailed on approved shop drawings.
 - 2. Insert panel into receiver channel, flex panel, and insert other end into opposing receiver channel. Ensure panels are perpendicular to perimeter and aligned. Fasten panel to supports by nailing through attachment flanges.
 - 3. Overlap, engage, and lock subsequent panels over preceding ones.
 - 4. At corners, miter cut soffit panels and install with soffit T-bar. Align joints and grooves of intersecting panels.
- D. Expansion Joints: Where soffit panel engages receiver channel and where aluminum components butt or adjoin other materials, leave expansion gap:
 - 1. Hot weather with aluminum components partially expanded: 1/16 inch.
 - 2. Cold weather with aluminum components partially contracted: 1/8 inch.
- E. Fastening: Install panels and trim with nails. Where exposed, use trim nails with color to match aluminum components.
 - 1. Drive fasteners straight and level. Do not slant fasteners.
 - 2. Do not drive head of fastener tightly against attachment flange. Allow 1/32 inch clearance between fastener head and aluminum surface.
 - 3. Do not place fastener through face of soffit panel.
 - 4. Spacing: Fasten soffit panels at 24 inches maximum.
- E. Sealants: Apply sealants where indicated on manufacturer's approved shop drawings and as required to provide weathertight installation. Depth of sealant bead shall be ¼ inch minimum.

3.4 CLEANING AND PROTECTION

- A. Clean aluminum soffits and trim. Use detergent as required. Do not use solvents, abrasive, wire brushes, or steel scrapers.
- B. Remove Excess materials and debris from site.
- C. Protect soffit from subsequent construction operations. If damage occurs, remove and replace damaged components to provide installation in original, undamaged condition.

END OF SECTION