



Purchasing Division

ADDENDUM NO. 3

DATE: May 3, 2013
FROM: City of Grand Junction Purchasing Division
TO: All Offerors
RE: Re-Roofing Projects for City of GJ Facilities Buildings IFB-4231-16-DH

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

1. See attached Scope and Specifications for the siding option of the Senior Rec Center.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

A handwritten signature in black ink, appearing to read "Duane Hoff Jr.", is written over a horizontal line.

Duane Hoff Jr., Senior Buyer
City of Grand Junction, Colorado

Senior Rec Center

Metal Siding and Soffit Specifications

- A. Standing seam sheet metal roof panels product "Image II" made by Metal Sales Manufacturing Corporation or equal.
 - 1. Thickness Requirement: 26 gauge (0.018-inch or 0.46-mm)
- B. Soffit Panels by Metal Sales Manufacturing Corporation or equal:
 - 1. Space Configuration: Flat pan.
 - 2. Panel Fasteners: Concealed, Direct Fastened.
 - 3. Panel coverage: 12 inches (304.8 mm).
 - 4. 26 Gauge Aluminum material.
 - 5. Panel Depth: 1 inch (25.4 mm).
- C. Color selection of Roof panels and Soffit panels to be Owners choice.

SECTION 07 41 13 - METAL ROOF PANELS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Architectural metal roof panels, including trim accessories.

1.2 REFERENCES

A. General: Standards listed by reference form a part of this specification section. Standards listed are identified by issuing authority, abbreviation, designation number, title or other designation. Standards subsequently referenced in this Section are referred to by issuing authority abbreviation and standard designation.

B. ASTM International:

- 1. ASTM A 792 - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
- 2. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- 3. ASTM D 2244 - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates.
- 4. ASTM D 4214 - Standard Test Methods for Evaluating the Degree of Chalking of Exterior Paint Films.

C. Underwriters Laboratories (UL):

- 1. UL 263 - Fire Tests of Building Construction and Materials.
- 2. UL 580 - Tests For Uplift Resistance of Roof Assemblies.
- 3. UL 790 - Standard Test Methods for Fire Tests of Roof Coverings.
- 4. UL 2218 - Impact Resistance of Prepared Roof Covering Materials.

1.3 ADMINISTRATIVE REQUIREMENTS

A. Pre-installation Meetings: Conduct pre-installation meeting to clarify Project requirements, substrate conditions, manufacturer's installation instructions and manufacturer's warranty requirements.

1.4 ACTION SUBMITTALS

A. Product Technical Data: For each type of product required, including manufacturer's preparation recommendations, storage and handling requirements, and recommended installation methods.

C. Shop Drawings: Showing methods of installation, plans, sections, elevations and details of roof and wall panels, specified loads, flashings, roof curbs, vents, sealants, interfaces with all materials not supplied by the metal panel system manufacturer, and identification of proposed component parts and their finishes. Do not proceed with fabrication prior to approval of shop drawings.

D. Samples: Selection and verification samples for finishes, colors and textures. Submit two complete sample sets of each type of panel, trim, clip and fastener required.

E. Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics, criteria and physical requirements.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For installed products including maintenance methods and precautions against cleaning materials and methods detrimental to finishes and performance.

1.6 MAINTENANCE MATERIAL

A. Extra Materials: Deliver to Owner extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Division 01 Closeout Submittals Section.

1.8 DELIVERY, STORAGE AND HANDLING

A. General: Comply with manufacturer's current printed product storage recommendations.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage: Store materials above ground, under waterproof covering, protected from exposure to harmful weather conditions and at temperature and humidity conditions recommended by manufacturer. Provide proper ventilation of metal panel system to prevent

condensation build-up between each panel and trim or flashing component. Tilt stack to drain in wet conditions. Remove strippable plastic film before storage under high-heat conditions. Store products in manufacturer's unopened packaging until just prior to installation.

D. Handling: Exercise caution in unloading and handling metal panel system to prevent bending, warping, twisting and surface damage.

1.9 WARRANTY

A. Special Exposed Panel Finish Warranty: Manufacturer's standard form PVDF (Fluorocarbon) System Warranty for film integrity, chalk rating and fade rating in which manufacturer agrees to repair or replace panels that show evidence of deterioration within specified warranty period.

1. Deterioration shall include but is not limited to:

- a. Color fading of more than 5 Hunter units when tested according to ASTM D 2244.
- b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
- c. Cracking, checking, peeling or failure of paint to adhere to bare metal.

2. Warranty Period: Film integrity for 45 years and chalk and fade rating for 35 years from date of Substantial Completion.

3. Manufacturer's warranty may exclude surface deterioration due to physical damage and exposure to salt air environments.

C. Special Warranty: Installer's standard form in which installer agrees to repair or replace standing seam panels that fail due to poor workmanship or faulty installation within the specified warranty period.

1. Warranty Period: One year from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 ARCHITECTURAL METAL ROOF PANELS

A. Basis of Design Product: Subject to compliance with requirements provide Metal Sales Manufacturing Corporation; Image II.

B. Substitution Limitations: Approved Equal

C. Product Options:

1. Panel Coverage: [**12 inches (304.8 mm)**] [**16 inches (406.4 mm)**].
2. Rib Height: 1 inch (25.4 mm).
3. Material: Aluminum-zinc alloy-coated steel sheet, ASTM A 792, [**AZ50**] [**AZ55**] coating designation, structural quality, Grade 50, [**0.018-inch (0.46-mm)**] [**0.0236-inch (0.60-mm)**] minimum thickness.
4. Material: Aluminum sheet, ASTM B 209, 0.032 inch (0.813 mm) thick.

5. Minimum Roof Slope Capability: 3:12 over solid substrate.
6. Side Lap: Snap seamed.
7. Attachment: Concealed direct fastened panel.
8. Application: Designed for application over solid substrate.
9. Panel Surface Configuration: [**Striations**] [**Minor Ribs**].
10. Surface Finish: [**PVDF (Kynar 500 or Hylar 5000)**] [**MS Colorfast45**] [**Acrylic Coated Galvalume**].
11. Color: [**As selected by Architect from manufacturer's standard colors**] <Insert color>.
12. Fire Resistance Rating: Comply with UL 263 and UL 790 Class A Fire Resistance Ratings.
13. Impact Resistance: Comply with UL 2218, Class 4.
14. Water Infiltration: No leakage when tested according to Florida Building Code TAS 100.
15. Wind Uplift Resistance: Comply with UL 580, Class 90 Wind Uplift, Construction #529.

2.2 FIELD-INSTALLED THERMAL INSULATION

- A. General: Refer to and coordinate with requirements in Division 07 - Thermal Insulation.
- B. Products: Polyethylene Vapor Retarder

2.3 UNDERLAYMENT MATERIALS

2.6 SOURCE QUALITY CONTROL

- A. Source: Obtain architectural metal roof panels, trim and other accessories from a single manufacturer.
- B. Quality Control: Obtain architectural metal roof panels, trim and other accessories from a manufacturer capable of providing on-site technical support and installation assistance.

PART 3 - EXECUTION

3.5 ARCHITECTURAL METAL ROOF PANEL INSTALLATION

- A. General: Comply with panel manufacturer's installation instructions including but not limited to special techniques, interface with other work, and integration of systems.
- B. Fasten metal roof panels to supports with concealed clips at each standing-seam joint at location, spacing, and using proper fasteners as recommended by panel manufacturer.

3.6 ACCESSORY INSTALLATION

A. General: Install accessories using techniques recommended by manufacturer and which will assure positive anchorage to building and weather tight mounting. Provide for thermal movement. Coordinate installation with flashings and other components.

B. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and the SMACNA "Architectural Sheet Metal Manual." Provide concealed fasteners where possible, and install units to true level. Install work with laps, joints, and seams that will be permanently watertight.

3.8 CLEANING

A. Remove temporary coverings and protection of adjacent work areas.

B. Repair or replace any installed products that have been damaged.

C. Clean installed panels in accordance with manufacturer's instructions prior to Owner's acceptance.

D. Remove and lawfully dispose of construction debris from Project site.

3.9 PROTECTION

A. Protect installed product and finish surfaces from damage during construction.

END OF SECTION 07 41 13 - METAL ROOF PANELS