

DOCUMENT 00 90 00
ADDENDUM

ADDENDUM: 2

DATE: APRIL 30, 2026

PROJECT: SCHOOL DISTRICT OF HOLMEN
ROOF REPLACEMENT
VIKING ELEMENTARY
SAND LAKE ELEMENTARY - ALTERNATE
500 EAST WALL STREET (VIKING ELEM.)
3600 SAND LAKE ROAD (SAND LAKE ELEM.)
HOLMEN, WISCONSIN 54636
HSR PROJECT NUMBER: **26007**

FROM: HSR Associates, Inc
100 Milwaukee Street
La Crosse, WI 54603
(608) 784-1830

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated APRIL 2026. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of: 1 PAGE, 0 DOCUMENTS, 1 SECTION, and 0 DRAWINGS.

CHANGES TO SPECIFICATIONS:

1. Section 07 40 01 Metal Panel Systems for Metal Roofing Soffit and Walls at Roof Assemblies
 - a. See the revised section included in this addendum. Disregard the previous version.
 - b. Relocated the paragraph specifying aluminum materials. The intent is for steel roofing and aluminum wall and soffit.
 - i. Removed paragraph 2.03 B.2.
 - ii. Replaced paragraph 2.04 B. and 2.05 B. with the paragraph from 2.03 B.2. which gives additional requirements for aluminum materials.

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SECTION 07 40 01

METAL PANEL SYSTEMS FOR METAL ROOFING SOFFIT AND WALLS AT ROOF ASSEMBLIES PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Architectural roofing system of preformed aluminum panels and accessories.
 - 1. Section also describes metal panel used for walls between roof assemblies and soffits.
- B. Snow guards.

1.02 RELATED REQUIREMENTS

- A. Applicable provisions of Division 1 govern the work of this section.
- B. Section 06 10 00 - Rough Carpentry: Requirement for roof carpentry.
- C. Section 07 27 00 - Air Barriers: Install underlayment and associated assemblies as air barriers for continuous air barrier in roofing assemblies.
- D. Section 07 62 00 - Sheet Metal Flashing and Trim: Roof Edge sheetmetal, gutter, downspouts.

1.03 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); 2022.
- B. ASCE 7 - Minimum Design Loads and Associated Criteria for Buildings and Other Structures; Most Recent Edition Cited by Referring Code or Reference Standard.
- C. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2025a.
- D. ASTM B209/B209M - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate; 2021a.
- E. ASTM E1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference; 2025.
- F. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; Current Edition, Including All Revisions.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements for procedures.
- B. Provide submittal transmittals that include all submittal items identified in each submittal group below.
- C. Review Submittals - Preparatory:
 - 1. Product Data: Manufacturer's data sheets on each product to be used, including:
 - a. Summary of test results, indicating compliance with specified requirements.
 - b. Storage and handling requirements and recommendations.
 - c. Installation methods.
 - d. Specimen warranty.
 - 2. Shop Drawings: Include layouts of roof panels, details of edge and penetration conditions, spacing and type of connections, flashings, underlayments, and special conditions.
 - a. Show work to be field-fabricated or field-assembled.
- D. Review Submittals - Samples:
 - 1. Selection Samples: For each roofing system specified, submit color chips representing manufacturer's full range of available colors and patterns.
 - 2. Verification Samples: For each roofing system specified, submit samples of minimum size 12 inches square, representing actual roofing metal, thickness, profile, color, and texture.

- E. Information Submittals - Preparatory:
 - 1. Test Reports: Indicate compliance of metal roofing system to specified requirements.
- F. Closeout Submittals:
 - 1. Warranty: Submit specified manufacturer's warranty and ensure that forms have been completed in Owner's name and are registered with manufacturer.

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than five years of documented experience.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Store roofing panels on project site as recommended by manufacturer to minimize damage to panels prior to installation.

1.07 WARRANTY

- A. See Conditions of the Contract and General Requirements for additional warranty requirements.
- B. Finish Warranty: Provide manufacturer's special warranty covering failure of factory-applied exterior finish on metal roof panels and agreeing to repair or replace panels that show evidence of finish degradation, including significant fading, chalking, cracking, or peeling within specified warranty period of 20 year period from date of Substantial Completion.
- C. Special Warranty: Provide 2-year warranty for weathertightness of roofing system, including agreement to repair or replace metal roof panels that fail to keep out water commencing on the Date of Substantial Completion. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Architectural Metal Roof Panel Manufacturers:
 - 1. ATAS International, Inc: www.atas.com/sle.
 - 2. Berridge Manufacturing Company: www.berridge.com.
 - 3. Drexel Metals Inc: www.drexmet.com.
 - 4. Elevate: www.holcimelevate.com.
 - 5. MBCI: www.mbc.com.
 - 6. McElroy Metal: www.mcelroymetal.com.
 - 7. Metal Roofing Systems, Inc: www.metalroofingsystems.biz.
 - 8. Metl-Span, a Division of NCI Group, Inc: www.metlspan.com.
 - 9. Minnkota Architectural Products, Inc.: www.minnkotawebsite.com.
 - 10. Morin Corporation: www.morincorp.com.
 - 11. MS Metal Sales Manufacturing Corp; metalsales.us.com.
 - 12. Petersen Aluminum Corporation: www.pac-clad.com.
- B. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

2.02 PERFORMANCE REQUIREMENTS

- A. Metal Roof Panels: Provide complete roofing assemblies, including roof panels, clips, fasteners, connectors, and miscellaneous accessories, tested for compliance with the following minimum standards:
 - 1. Structural Design Criteria: Provide panel assemblies designed to safely support design loads at support spacing indicated, with deflection not to exceed L/180 of span length(L) when tested in accordance with ASTM E1592.
 - 2. Overall: Complete weathertight system tested and approved in accordance with ASTM E1592.
 - 3. Wind Uplift: Class 90 wind uplift resistance of UL 580.

4. Thermal Movement: Design system to accommodate without deformation anticipated thermal movement over ambient temperature range of 100 degrees F.

2.03 METAL ROOF PANELS

- A. Metal Panels: Provide complete engineered system complying with specified requirements and capable of remaining weathertight while withstanding anticipated movement of substrate and thermally induced movement of roofing system.
- B. Metal Panels: Factory-formed panels with factory-applied finish.
 1. Steel Panels:
 - a. Zinc-coated steel complying with ASTM A653/A653M; minimum G60 galvanizing.
 - b. Wind uplift in compliance with UL Classification 580 for Classified 90 rated assemblies.
 - c. Thermal Performance/Effects: Roof panels shall be free to move in response to expansion and contraction forces resulting from temperature variation as specified in the MBMA Metal Roofing Systems Design Manual.
 - d. Deflection: In accordance to ASCE 7, but not less than a minimum L/180 for roof snow load.
 2. (Removed this paragraph in Addendum 2).
 3. Profile: Standing seam, with minimum 1.5 inch seam height; concealed fastener system for field seaming with special tool. (90 or 180 degree double lock).
 4. Texture: Smooth, with intermediate ribs for stiffness.
 5. Length: Full length of roof.
 6. Width: Maximum panel coverage of 12 inches.
 7. Color: Selected by A/E from manufacturer's standard range.

2.04 WALL PANELS AT ROOF ASSEMBLIES:

- A. Product: Basis of Design: PAC-Clad: Flush.
- B. Aluminum Panels:
 1. Alloy and Temper: Aluminum complying with ASTM B209/B209M; temper as required for forming.
 2. Thickness: Minimum 20 gauge, 0.032 inch.
- C. Panel Width: 12 inches.
- D. Color: As selected by Architect from manufacturer's standard range.
- E. Accessories: Panel Clip for added wind resistance.
- F. As selected by Architect from manufacturer's standard line.

2.05 SOFFIT PANELS:

- A. Product: Basis of Design: PAC-Clad; Flush Soffit.
 1. Provide Narrow Vent style perforations at soffit locations without sheathing backing.
- B. Aluminum Panels:
 1. Alloy and Temper: Aluminum complying with ASTM B209/B209M; temper as required for forming.
 2. Thickness: Minimum 20 gauge, 0.032 inch.
- C. Panel Width: 12 inches.
- D. Color: As selected by Architect from manufacturer's standard line.

2.06 ATTACHMENT SYSTEM

- A. Concealed System: Provide manufacturer's standard stainless steel concealed anchor clips designed for specific roofing system and engineered to meet performance requirements, including anticipated thermal movement.

2.07 FABRICATION

- A. Panels: Provide factory or field fabricated panels with applied finish and accessory items, using manufacturer's standard processes as required to achieve specified appearance and performance requirements.
- B. Joints: Provide captive gaskets, sealants, or separator strips at panel joints to ensure weathertight seals, eliminate metal-to-metal contact, and minimize noise from panel movements.

2.08 FINISHES

- A. Fluoropolymer Coil Coating System: Polyvinylidene fluoride (PVDF) multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent PVDF resin, and at least 80 percent of coil coated metal surfaces having minimum total dry film thickness (DFT) of 0.9 mil, 0.0009 inch; color and gloss as selected by Architect from manufacturer's standard line.

2.09 ACCESSORIES

- A. Miscellaneous Sheet Metal Items: Provide flashings and trim of the same material, thickness, and finish as used for the roofing panels. Items completely concealed after installation may optionally be made of stainless steel.
- B. Clip fasteners: Stainless steel in size as recommended by system supplier.
- C. Fence Type Snow Bar: Continuous bar type snow guard, fence type.
 - 1. Manufacturer's:
 - a. Dynamic Fastener: Dyna-Guard with Sno-Dams. www.dynamicfastener.com.
 - b. Alpine Snowguards; Sno-Max Standing Seam: www.alpinesnowguards.com.
 - c. Berger Building Products[<>]:www.bergerbp.com.
 - d. Sno-Gem: Sno-Barricade with Barricade Plate. www.snogem.com.
 - e. Or comparable.
 - 2. Bracket Spacing: Attached at every standing seam.
 - 3. Brackets: Aluminum on matching base plate.
 - 4. Bar: Square or flat extruded Aluminum, mill finish, color to match roof or with face color to match roof.
- D. Sealants:
 - 1. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane.
 - 2. Concealed Sealant: Non-curing butyl sealant or tape sealant.
 - 3. Seam Sealant: Factory-applied, non-skinning, non-drying type.
- E. Underlayment: As recommended by the roofing manufacturer and complying with the following:
 - 1. Underlayment: Self-adhering modified bitumen membrane underlayment material in compliance with ASTM D1970/D1970M, suitable for use as underlayment for metal roofing. Use membrane resistant to cyclical elevated temperatures for extended period of time in high heat service conditions. Provide membrane with integral non-tacking top surface of polyethylene film or other surface material to serve as separator between bituminous material and metal products to be applied above.
 - 2. Minimum Thickness: 40 mils per ASTM D5147/D5147M.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Do not begin installation of preformed metal roof panels until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

- A. Broom clean wood sheathing prior to installation of roofing system.
- B. Coordinate roofing work with provisions for roof drainage, flashing, trim, penetrations, and other adjoining work to ensure that completed roof will be free of leaks.
- C. Coordinate installation of waterproof membrane over roof sheathing with Section 06 10 00.
- D. Remove protective film from surface of roof panels immediately prior to installation; strip film carefully to avoid damage to prefinished surfaces.
- E. Separate dissimilar metals by applying a bituminous coating, self-adhering rubberized asphalt sheet, or other permanent method approved by metal roof panel manufacturer.
- F. At locations where metal will be in contact with wood or other absorbent material subject to wetting, seal joints with sealing compound and apply one coat of heavy-bodied bituminous paint.

3.03 INSULATION

- A. Install vapor retarder to deck surface with adhesive in accordance with manufacturer's instructions.
 - 1. Extend vapor retarder under cant strips and blocking to deck edge.
 - 2. Install flexible flashing from vapor retarder to air seal material of wall construction, lap and seal to provide continuity of the air barrier plane.
- B. Ensure vapor retarder is clean and dry, continuous, and ready for application of insulation.
- C. Attachment of Insulation:
 - 1. Mechanically fasten first layer of insulation to deck in accordance with roofing manufacturer's instructions.
 - 2. Embed additional layer(s) of insulation into full bed of adhesive in accordance with roofing and insulation manufacturers' instructions.
- D. Lay subsequent layers of insulation with joints staggered minimum 6 inch from joints in both directions of preceding layer. Use manufacturer's recommended adhesive.
- E. Place tapered insulation to the required slope pattern in accordance with manufacturer's instructions.
- F. Lay boards with edges in moderate contact without forcing. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
- G. At roof drains, use factory-tapered boards to slope down to roof drains over a distance of 18 inches.
- H. Do not apply more insulation than can be covered with membrane in same day.

3.04 INSTALLATION

- A. Overall: Install roofing system (insulation, sheathing, waterproof membrane and metal panels) in accordance with approved shop drawings and panel manufacturer's instructions recommendations and to meet warranty requirements, as applicable to specific project conditions. Anchor all components of roofing system securely in place while allowing for thermal and structural movement.
 - 1. Install roofing system with concealed clips and fasteners, except as otherwise recommended by manufacturer for specific circumstances.
 - 2. Minimize field cutting of panels. Where field cutting is required, use methods that will not distort panel profiles. Use of torches for field cutting is prohibited.
- B. Accessories: Install necessary components that are required for complete roofing assembly, including flashings, trim, and similar roof accessory items.
- C. Install perimeter blocking, sub-fascia and related blocking.
- D. Install plywood sheathing and fasten as required to meet uplift requirements.

- E. Underlayment: Install waterproof membrane on roof deck before installing preformed metal roof panels. Secure by methods acceptable to roof panel manufacturer, minimizing use of metal fasteners. Apply from eaves to ridge in shingle fashion, overlapping horizontal joints a minimum of 3.5 inches and side and end laps a minimum of 6 inches.
- F. Roof Panels: Install panels in strict accordance with manufacturer's instructions, minimizing transverse joints except at junction with penetrations.
 - 1. Form weathertight standing seams incorporating concealed clips, using an automatic mechanical seaming device approved by panel manufacturer.
 - 2. Install sealant or sealant tape at end laps and side joints as recommended by metal roof panel manufacturer.
- G. Insulation: Install insulation between roof covering and supporting members to present a neat appearance; fold, staple, and tape seams unless otherwise approved by Architect.

3.05 SNO-BAR INSTALLATION

- A. Install clamps at every seam.
- B. Bars shall be perpendicular to roof panel.
- C. Distance From Eaves: At bearing wall location or 18 inches from roof edge.
- D. Follow manufacturer's layout design for quantity and spacing.

3.06 CLEANING AND PROTECTION

- A. Clean exposed sheet metal work at completion of installation. Remove grease and oil films, excess joint sealer, handling marks, and debris from installation, leaving the work clean and unmarked, free from dents, creases, waves, scratch marks, or other damage to the finish.
- B. Do not permit storage of materials or roof traffic on installed roof panels. Provide temporary walkways or planks as necessary to avoid damage to completed work. Protect roofing until completion of project.
- C. Touch-up, repair, or replace damaged roof panels or accessories before Date of Substantial Completion.

END OF SECTION