

ADDENDUM 01

**RFB #CPPM 2026-012 UM DEMERITT FOREST SAWMILL
UNIVERSITY OF MAINE**

Date: February 19, 2026

To: Prospective Bidders

*From: University of Maine System
5765 Service Building
Orono, ME 04469-5765*

This Addendum forms a part of the Contract Documents and modifies the original Bid Documents and Specifications dated January 23, 2026. Portions of the bid and contract documents not altered by this Addendum remain in full force.

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 the following:

- Questions with Response*
- Specification Changes*
- Drawing Changes*
- Pre-Bid Attendance Sheet*

QUESTIONS WITH RESPONSE:

1. There are a number of conflicts on the door scope:

A. Hollow Metal Doors: Please confirm owner is looking for Curries 777 Mercury series at exterior doors, and 747 Steel Stiffened doors at interior.

B. Door Hardware: University of Maine Campus Standards are:

a. Exit Devices: Von Duprin 98 Series

b. Closers: LCN 4040 Series

c. Schlage Mortise Locks – L9000 Series

Please confirm these models are what should be included, as the drawings have alternate manufacturers listed.

Confirmed, Curries 777 Mercury series at exterior doors, and 747 Steel Stiffened doors at interior is the design intent for bid.

Use Von Duprin 33 series and von duprin series 99 fire rated as specified.

Use Schlage ND Series as specified.

Confirmed, Closers – LCN 4040 XP Series are the design intent.

2. Is engineer of record providing all documents for the LID Policy? Does GC have to use these to submit what is needed to UMaine?

The contractor is required to adhere to MDEP best management practices including low impact development management approach.

3. Sitework testing to be carried by GC?

Material testing to be supplied by owner and coordinated with GC for schedule of testing.

4. Are all of the walls in the bathroom getting FRP?

Yes

5. All interior trim noted to be stained and in finish notes says all trim to be painted?

Wood trim to be stained.

6. Fire extinguishers location and quantity?

Provide (3) Fire extinguishers as shown on fire protection plan.

7. Is the owner providing LP Smartside soffit materials?

Soffit materials should be supplied and installed by contractor.

8. Alt 3 M3A shows ERV elevation detail with R-60 insulation? The added insulation for roof, exterior walls and sound batt below is this to be carried only on alt 3? Base bid doesn't show any insulation at the roof or exterior walls at trusses level? What kind of insulation is to be used at ERV elevation? Also is it the entire roof or are we creating a mechanical room?

For bid assume, R-49 blown-in fiberglass insulation, as detailed in wall sections and details.

Correction, for alt 3 provide roof insulation equal to R-49.

Base bid insulation, is shown in typical exterior wall section detail 1/B1, and typical ceiling section 4/-- (on sheet B3)

Attic insulation for Alt 3 is acceptable to be fiberglass by Owens Corning or approved equal with thickness sufficient to provide R-values as specified.

9. Is there drywall being installed at the bottom of the pre-engineered trusses?

Yes, as shown on detail 4/-- (on sheet B3)

10. On alt 3 are we to change the pre-engineered trusses to attic trusses to accommodate the erv and duct? If we go to attic trusses do we have to sheetrock and fire rate this space? Please provide cuts and details if we do need to.

Yes, pre-engineered trusses should create an attic space for ERV and duct. for bid assume attic space 10' wide by 40' following the length of the classroom. Attic space for Alt 3 should have sheetrock walls mud and tapped with floor sheathing of 3/4" Advantech sheathing. Space is not rated space.

11. Can we get an allowance for the utilities costs from Versant for poles, wire, conduit, transformers, meter connections, etc.

Contractor responsible to include all fees by utilities.

12. Two lean-tos removed by owner or GC? C1 doesn't mention owner and C2 says by owner.

Lean-tos will be removed by owner.

13. Slabs sealed by owner or GC?

Slab shall be sealed by contractor

14. White pine boards provided by owner prefinished?

White pine boards will be provided prefinished by the owner.

15. Building section T1-1 on S4 shows piers total height of 6'-6" from footing and Building section detail 2-2 on S4 shows piers at total height of 7'-0"? Which is it supposed to be?

For bid assume pier height of 7'-0".

16. The white pine boards provided by owner as they going to be T & G? Is this wood to be used for walls finish with T&G Wood and Ceiling finish for T&G Wood Panels Stained?

The white pine boards provided by the owner will be tongue-and-groove and are intended to be installed in a nickel gap pattern. The white pine finish is for wall applications only. The ceiling finish will be acoustical tile.

17. S6 1-1/S1 is shown on three sides of the classroom portion including a drip edge. Is it the intent to have drip edge around three sides of this building?

Yes, detail 1-1/S1 shows intent with drip edge at three sides of classroom portion.

18. S6 detail 3-1 and 3-2 show a foundation drain only about a foot below the grade level. Is this the intent? How does this one tie into the other foundation drains which are shown about 5' down at the bottom of the footing?

Foundation drains to be at same elevation as drip edge drain.

19. Does the under drain go around all four sides of the build or only where the drip edge is?

Provide foundation drain around all four sides of the building.

20. S6 detail 1-1 shows roughly 5' of rigid insulation standing vertically and basically being used as a form to pour the slab? Is this the intent because to keep the rigid all one piece you cannot use one continuous piece of rigid. Would it be possible to continue the 3" rigid horizontally out 4'? This way you can properly form the foundation.

Horizontal insulation interferes with drip edge drains, provide vertical insulation as detailed.

21. *Could I get a copy of the sign in sheet or a list of plan holders*

Sign-in sheet from non-mandatory prebid walkthrough is included as a part of this addendum.

22. *Window substitution - Mathews Brothers Spencer Walcott windows in place of the Harvey Classic*

Window alternates are acceptable and are to be approved via submittal.

Performance of windows to be minimum energy code and meet or exceed specified windows.

23. *(074113-4, 2.2, A., 2.) Self locking: not requiring field seaming. (074113-5, 2.3, A.) Roll formed, produced in a permanent factory. (074113-8, 3.6, C.) Panels must be locked in the field by mechanical seamer. Would pan formed panels and in the field, seamer be acceptable?*

Design intent is to provide self-locking standing seam panels.

Delete call out for roll-formed roofing panels produced in permanent factory environment with fixed-base roll-forming equipment.

24. *Please clarify roof and finish warranty's; 10yr, 20yr, 25yr, etc...*

As specified in section 07 41 13-4, provide 20-year warranty.

25. *Please clarify Roof assembly – from roof deck (plywood), 2” ISO, insulation, insulation coverboard, HT vapor barrier. The coverboard should be plywood or a material to properly secure standing seam clips to, otherwise, fasteners will need to be excessively long to properly secure to the roof decking, (plywood). The longer fasteners through insulation may result in movement.*

Roof deck assembly as designed and detailed on plans,

3/4" Advantech sheathing (roof deck), roof underlayment, standing seam metal roofing.

Delete 07 41 13 -8 - 3.3 Insulation installation of above roof deck insulation, and 3.4 Cover board installation.

26. *Please clarify roofer's responsibility to protect adjacent construction, property, vehicles, people. The roofing contractor will be responsible for only damages caused by said roofer.*

General Contractor is responsible for construction safety on site, including coordination, means and methods of construction with all sub-contractors.

27. *Please clarify protection of finished roofing from other trades.*

General Contractor is responsible for coordinating and protecting finished products as required during construction.

28. *Please clarify the verification requirements (074113-8, 3.2, C., D., and E.) of fasteners, substrates, work of other trades, openings, curbs, pipes, sleeves, ducts, vents, penetrations, and their proper locations. We, the Roofing Contractor follow the roofing manufacturers specifications for roof installation. We are not responsible for verification of these items.*

General Contractor to verify and coordinate all work as specified.

- 29. Please clarify "Protection" (074113-10, 3.10) The roofing contractors are not responsible for the damages caused by other trades. Protection of a completed standing seam roof from traffic of other trades does not exist and will require additional design and direction. The General Contractor should schedule non-roof related work around completed standing seam roofing.**

Construction means and method by Contractor. Intent is for no work to be needed on/over new standing seam roof. If additional work is required, refer to specification indicated.

- 30. It is our intention to provide alternates as specified (074113-4, 2.1, A.), for cost savings, freight, available warranties, and to provide a more superior product for the intended application.**

Alternate products are acceptable provided they are an approved equal. Alternate products are to be approved via submittal process.

- 31. In an effort to meet certain specification requirements for the roofing portion of this project. Please consider this e-mail response as notice to meet the 10 working day requirement for alternates in our effort to provide UMaine the best roof system available. As required per specification (072700-2, 1.4, D.).**

Alternate products are acceptable provided they are an approved equal. Alternate products are to be approved via submittal process.

- 32. Header schedule H2 states its max span is 3'-6" but the windows they are on are 6'-0". Are W2 windows supposed to be individual windows and not mullled together as the elevation looks mullled together.**

H2 on Header Schedule is acceptable for 3' - 6' spans, as indicated on plans. W2 window design intent is to be mullled together.

- 33. Does any structural framing change if the curtain alternate is accepted?**

For bid, assume no change to structural framing with curtain alternate.

- 34. Mentions temperature controls for curtain system? Are you looking for rain and wind meters also?**

For bid provide Seneca M-4 Manual Controller for Rolling curtains as specified. Approved alternates are acceptable.

- 35. Going to need more information on the curtain system for alt 2. Where on the structure are you wanting this installed? Are you wanting it in between each column? Or are you wanting it to be one continuous curtain installed on the inside face of the piers?**

Provide Curtain continuous on outside face of columns. The intent is to have a full length curtain for each side (2 @ 60'±, 1@30'±).

36. Referencing drawings C2 and E1, it appears that the electrical service points of connection to the building are shown in two different locations—one on the plan’s north side and another on the west side. Please confirm the correct power location and designated connection point at your earliest convenience.

Provide utility meter location as shown on C2, on west side of building.

SPECIFICATION CHANGES

Delete 07 41 13-8, 3.3 Insulation Installation of above roof deck insulation

Delete 07 41 13-8, 3.4 Cover Board Installation

Delete 07 41 13-5, 2.3, A “roll-formed roofing panels produced in permanent factory environment with fixed-base roll-forming equipment.”

DRAWING CHANGES

No changes to the Drawings

UM DEMERITT FOREST SAWMILL, CONTRACTOR SIGN-IN

Date: 10FEB2026

COMPANY NAME	REPRESENTATIVE NAME	CONTACT INFO (PHONE/EMAIL)
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SECTION 07 41 13
METAL PANEL ROOFING SYSTEM
Revised 02-18-2026
Addendum #01

PART 1 - GENERAL

1.1 **SUMMARY**

- A. Furnish and install a double lock metal panel roofing system, including:
1. Roofing manufacturer's requirements for the specified warranty.
 2. Preparation of roofing substrates.
 3. Wood nailers for roofing attachment.
 4. Insulation.
 5. Cover boards.
 6. Self-adhering underlayment.
 7. Metal roof edging and copings.
 8. Flashings.
 9. Other roofing-related items specified or indicated on the drawings or otherwise necessary to provide a complete roofing system.
- B. Disposal of demolition debris and construction waste is the responsibility of Contractor. Perform disposal in manner complying with all applicable federal, state, and local regulations.
- C. Comply with the published recommendations and instructions of the roofing system manufacturer, at <http://manual.fsbp.com> .
- D. Commencement of work by the Contractor shall constitute acknowledgement by the Contractor that this specification can be satisfactorily executed, under the project conditions and with all necessary prerequisites for warranty acceptance by roofing system manufacturer. No modification of the Contract Sum will be made for failure to adequately examine the Contract Documents or the project conditions.

1.2 **RELATED SECTIONS**

- A. Rough Carpentry:
1. Roof Sheathing: AdvanTech, minimum 3/4-inch thickness with tongue-and-grooved joints.
 2. Perimeter wood members for attachment of edge trim.
 3. Wood nailers associated with roof insulation.
- B. Sheet Metal Flashing and Trim: Formed metal flashing and trim items associated with non-metal roofing.
- C. Roof hatches and vents for installation on curbs specified in this section.

1.3 REFERENCES

- A. Referenced Standards: These standards form part of this specification only to the extent they are referenced as specification requirements.
1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures; American Society of Civil Engineers; 2016.
 2. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2016.
 3. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2008.
 4. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board; 2013.
 5. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2013.
 6. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2013a.
 7. ASTM E108 - Standard Test Methods for Fire Tests of Roof Coverings; American Society for Testing and Materials; 2011.
 8. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C; 2012.
 9. ASTM E1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference; American Society for Testing and Materials; 2005 (Reapproved 2012)
 10. ASTM E1646 - Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference; American Society for Testing and Materials; 1995 (Reapproved 2011).
 11. ASTM E1680 - Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems; American Society for Testing and Materials; 2011.
 12. MBMA - Metal Roofing Systems Design Manual; Metal Building Manufacturers Association; 2012.
 13. PS 1 - Construction and Industrial Plywood; 2009.
 14. PS 20 - American Softwood Lumber Standard; 2010.
 15. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies; Underwriters Laboratories Inc.; Current Edition, Including All Revisions.
 16. UL 2218 - Standard for Impact Resistance of Prepared Roof Covering Materials; Underwriters Laboratories Inc.; Current Edition, Including All Revisions.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's data sheets on each product to be installed and manufacturer's standard detail drawings applicable to this project.
1. Installation Instructions: Provide manufacturer's instructions to installer, marked up to show exactly how all components will be installed; where instructions allow installation options, clearly indicate which option will be used.
- B. Shop Drawings: Provide drawings prepared especially for this project for all relevant conditions, including plans and elevations, sections, and details, specified loads, flashings, roof edges, terminations, expansion joints, curbs, penetrations, and drainage. Specifically include interfaces with materials not supplied by metal roof panel manufacturer and identify each component and its finish.
- C. Pre-Installation Notice: Copy to show that manufacturer's required Pre-Installation Notice (PIN) has been accepted and approved by the manufacturer.

- D. **Manufacturer's Installation Inspection Reports:** Manufacturer may, at its option, inspect the installation at any time to appraise the installing contractor of their compliance with manufacturer's requirements. Typical inspections will include:
1. Prior to the installation of the metal roofing panels to inspect the underlayments. The roofing contractor is responsible for assuring that the substrate is in suitable condition for the installation of the metal roofing components to the substrate.
 2. Intermediate inspections to ensure proper installation of the metal roofing panels (if required).
 3. At final completion of all metal roofing system work.
 4. Submit to Engineer/Owner, for the project record, a copy of each report of inspection made.
- E. Executed Warranty, by authorized company official with final closeout.

1.5 QUALITY ASSURANCE

- A. **Installer Qualifications:** Roofing installer shall have received training from metal panel manufacturer for installation of the specified roof panel system, and:
1. Having and using only equipment authorized and inspected by metal panel manufacturer.
- B. **Pre-Installation Conference:** Before start of roofing work, Contractor shall hold a meeting to discuss the proper installation of materials and requirements to achieve the warranty.
1. Require attendance with all parties directly influencing the quality of roofing work or affected by the performance of roofing work.
 2. Notify Engineer well in advance of meeting.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver products in manufacturer's original containers, dry and undamaged, with seals and labels intact and legible.
- B. Exercise extreme care in unloading, storing, and installing metal panels to prevent bending, warping, twisting, and surface damage.
- C. Store products above ground on well-supported platforms that provide minimum of 1:48 slope. Store under waterproof covering or indoors and provide proper ventilation of metal components to prevent condensation build-up between metal components.

1.7 WARRANTY

- A. Comply with all warranty procedures required by manufacturer, including notifications, scheduling, and inspections.
- B. Manufacturer's warranty is in addition to, and not a limitation of, other rights the owner may have under the contract documents.
- C. **Warranty:** McElroy Metal Warranty covering roof panels and associated metal components, roof sheathing/insulation manufactured by McElroy Metal, and accessories, covering weather tightness, finish, materials, labor, and workmanship.

1. Limit of Liability: No dollar limitation.
 2. Scope of Coverage: Repair leaks in the roofing system caused by:
 - a. Ordinary wear and tear of the elements.
 - b. Manufacturing defect in McElroy Metal brand materials.
 - c. Defective workmanship used to install these materials.
 - d. Damage due to winds up to 90 mph.
 3. Not Covered:
 - a. Materials made by entities other than McElroy Metal.
 - b. Damage due to winds in excess of 90 mph.
 - c. Damage due hurricanes or tornadoes.
 - d. Hail.
 - e. Intentional damage.
 - f. Unintentional damage due to normal rooftop inspections, maintenance, or service.
- D. Painted Finish Warranty: Provide McElroy Metal standard Red Shield non-prorated warranty covering durability of painted finish, to include film integrity, color change, fading, and chalking, unless otherwise indicated below.
1. Warranty Period: 20 years commencing on date of substantial completion.
 2. Metallic Colors (as identified by McElroy Metal): Not warranted against color change or fading.
 3. McElroy Metal Standard Color “Regal Red”: Warranted against color change or fading for a maximum period of ten (10) years.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer - Metal Roof Panels and Associated Sheet Metal Components: McElroy Metal or approved equal.
1. Provide all components of system supplied or specified by same manufacturer.
 2. Roofing systems manufactured by others may be acceptable provided the roofing system is completely equivalent in materials and warranty conditions and the manufacturer meets the following qualifications:
 - a. Specializing in manufacturing the roofing system to be provided.
 - ii. Minimum ten years of experience manufacturing the roofing system to be provided.
 - iii. Able to provide a no dollar limit, single source roof system warranty that is backed by corporate assets in excess of one billion dollars.
 - iv. ISO 9002 certified.
 - v. Able to provide waterproofing membrane underlayment.
 - vi. Able to provide polyisocyanurate insulation.
- B. Manufacturer of Insulation: Same manufacturer as metal roof panels.
1. Substitutions: Acceptable approved equal.

2.2 ROOFING SYSTEM DESCRIPTION

- A. Roofing System: Standing seam metal roof panels and other components, together forming a watertight assembly having the following characteristics:

1. Warranty: 20 year.
2. Panel Seam Type: Self-locking; not requiring field seaming, concealed clip attachment to substrate.
3. Panel Material: Steel, 24 gauge (0.64 mm), with fluoropolymer finish, over G90 hot-dipped galvanized coating.
4. Color: Shall be approved by Owner in writing.
5. Design Loads: In accordance with ASCE 7, current edition.
 - a. Design Snow Load: Not less than 80 psf (960 kPa).
 - b. Maximum Deflection Under Snow Load: Not more than L/180 or as recommended by ASCE 7, whichever is less.
 - c. Wind Uplift Resistance: Class 90 rating, minimum, when tested in accordance with UL 580.
 - d. Wind Pull-Off Resistance: No failure of roof panel or fasteners when tested in accordance with ASTM E1592 for negative loading equal to negative design wind load; for assemblies not tested, capacity for gauge, span, or loading may be determined by interpolating between test values only.
6. Impact Resistance: Minimum of Class 4, when tested in accordance with UL 2218.
7. Thermal Effects: Design roof panels and their attachment to allow free movement in response to expansion and contraction forces resulting from temperature variation, as specified in the MBMA Metal Roofing Systems Design Manual.
8. External Fire Resistance: Class A, when tested in accordance with ASTM E108 or UL 790.
9. Provide all necessary members and connections, whether indicated in the manufacturer's standard detail drawings or not.
10. Accessories and Fasteners: Capable of resisting the specified design wind uplift forces and allowing for thermal movement of the roof panel system, not restricting free movement of the roof panel system resulting from thermal forces except at designed points of roof panel fixity.

B. Roof System Components: In order from the top down:

1. Metal roofing panels and trim.
2. Underlayment: Self-adhering, high temperature underlayment over entire roof; material as specified.
3. Wood roof deck sheathing (3/4" Tongue & Groove (T&G) AdvanTech).

2.3 ROOF PANELS AND SHEET METAL FABRICATIONS

A. Roof Panels: McElroy Metal 138t Standing Seam Roofing.

1. Seam Height: 1.5 inches
2. Seam Spacing (Panel Width): 16 inches
3. Texture: Smooth.
4. Clips: As tested and supplied by manufacturer.
5. Provide factory applied integral seam sealant in leg of panel.
6. Form roofing panels in longest practical lengths, true to shape, accurate in size, square, and free from distribution or manufacturing defects.

B. Steel Sheet: ASTM A653/A653M, lock-forming quality, extra smooth, tension-leveled, galvanized/galvannealed steel, minimum spangle.

C. Fluoropolymer Coating: 70 percent full strength Kynar 500/Hylar 5000.

1. Exposed Surface: 1.0 mil (0.25 mm) plus/minus 0.1 mil (0.025 mm) total dry film thickness.

2. Concealed Surface: 0.2 to 0.3 mils (0.05 to 0.08 mm) total dry film thickness.
 3. Color: To be selected from manufacturer's standard and premium colors.
- C. Sheet Metal Components Associated with Metal Roof Panels: Made by same manufacturer and compatible with roof panels; of not less than minimum thickness required by roof panel manufacturer.
1. Fabricate trim, flashing, and accessories to roofing manufacturer's specified or approved profiles.
 2. Exposed metal components of same finish as panels.
 3. Color: Same as panels.
 4. Provide the following formed sheet metal components:
 - a. Eave.
 - b. Ridge.
 - c. Vented ridge.
 - d. Hip.
 - e. High eave.
 - f. High eave, vented.
 - g. Valleys
 - h. Rake edge.
 - i. Vertical fascia.
 - j. Sidewall flashing.
 - k. Pipe and other penetration flashings, for penetrations over 8 inches.
 - l. Flashings at interface to other roofing types.
 - m. Other flashings.
 - n. Copings, parapet covers.
 - o. Soffit panels, solid.
 - p. Soffit panels, vented.

2.4 ACCESSORY MATERIALS

- A. Self-Adhered Underlayment: Rubberized sheet waterproof membrane complying with ASTM D 1970/D1970M, self-adhering.
1. Resistance to Direct Exposure: At least 90 days.
 2. Minimum High Temperature Resistance: 230 degrees F (110 degrees C).
 3. Water Vapor Permeance: 0.1 perm (5.7 ng/ (Pa s sq m)), maximum.
 4. Acceptable Product: Clad-Gard SA or approved equal.
- B. Fasteners: In strict accordance with metal roof panel manufacturer's requirements; minimize exposed fasteners.
1. Fasteners Exposed to Weather: Sealed or with sealed washers on exterior side of covering to waterproof fastener penetration; washer material compatible with screw head; minimum 3/8-inch (9.5 mm) diameter washer for structural connections; gasket portion of fasteners or washers made of EPDM, neoprene, or other equally durable elastomeric material.
 2. Fasteners Exposed to View: Head of color matching panel or component in which installed.
- C. Installation Clips: Manufacturer standard galvanized or stainless-steel clips, as required by panel selection, for concealed securement of panels. Use only those approved for use by the roof system manufacturer.

PART 3 - INSTALLATION

3.1 GENERAL

- A. Install roofing, insulation, flashings, and accessories in accordance with roofing manufacturer's published instructions and recommendations for the specified roofing system. Where manufacturer provides no instructions or recommendations, follow good roofing practices and industry standards. Comply with federal, state, and local regulations.
- B. Obtain all relevant instructions and maintain copies at project site for duration of installation period.
- C. Verify that shop drawings prepared by metal roof panel manufacturer have been approved and are available to installers; do not use drawings prepared by others for installation drawings.
- D. Verify that the specifications and drawing details are workable and not in conflict with the roofing manufacturer's recommendations and instructions; start of work constitutes acceptable of project conditions and requirements.
- E. Do not start work until Pre-Installation Notice has been submitted to manufacturer as notification that this project requires a manufacturer's warranty.
- F. Perform work using competent and properly equipped personnel.
- G. Temporary closures, which ensure that moisture does not damage any completed section of the new roofing system, are the responsibility of the applicator. Completion of flashings, terminations, and temporary closures shall be completed as required to provide a watertight condition.
- H. Install roofing only when surfaces are clean, dry, smooth, and free of snow or ice; do not apply roofing during inclement weather or when ambient conditions will not allow proper application; consult manufacturer for recommended procedures during cold weather. Do not work with sealants and adhesives when material temperature is outside the range of 60 to 80 degrees F (15 to 25 degrees C).
- I. Protect adjacent construction, property, vehicles, and persons from damage related to roofing work; repair or restore damage caused by roofing work.
 - 1. Protect from spills and overspray from bitumen, adhesives, sealants, and coatings.
 - 2. Particularly protect metal, glass, plastic, and painted surfaces from bitumen, adhesives, and sealants within the range of wind-borne overspray.
 - 3. Protect finished areas of the roofing system from roofing related work traffic and traffic by other trades.
- J. Until ready for use, keep materials in their original containers as labeled by the manufacturer.
- K. Consult panel manufacturer's instructions, container labels, and Safety Data Sheets (SDS) for specific safety instructions. Keep all adhesives, sealants, primers, and cleaning materials away from all sources of ignition.

3.2 EXAMINATION

- A. Examine roof deck to determine that it is sufficiently rigid to support installers and their mechanical equipment, and that deflection will not strain or rupture roof components or deform deck.

- B. Verify that surfaces and site conditions are ready to receive work. Correct defects in the substrate before commencing with roofing work.
- C. Verify that the substructure installation is in accordance with the approved shop drawings and roof panel manufacturer's requirements that the fasteners are correct for the substrate, and the substrate is installed to accommodate and support the appropriate clip spacing and attachment.
- D. Verify that installed work of other trades that such work is complete to a point where the roofing system installation may commence.
- E. Verify that roof openings, curbs, pipes, sleeves, ducts, vents, and other penetrations through roof substrate are complete and properly located.
- F. In event of discrepancy, notify Engineer in writing; do not proceed with installation until discrepancies have been resolved.

3.3 UNDERLAYMENT INSTALLATION

- A. Install underlayment in accordance with manufacturer's instructions.
- B. Install self-adhered underlayment over entire roofing surface.

3.4 ROOF PANEL INSTALLATION

- A. Install the metal roof panel system in accordance with the manufacturer's instructions, installation drawings, and approved shop drawings, so that it is weathertight and allows for thermal movement.
- B. Locate space and fasten all clips in accordance with roof panel manufacturer's recommendations. For required fasteners, use proper torque settings to obtain controlled uniform compression for a positive seal without rupturing the sealing washers.
- C. Panels must be self locking.
- D. Do not place utility penetrations through the panel seams.
- E. Do not allow panels or trim to come into contact with dissimilar materials (i.e., copper, lead, graphite, treated lumber, mortar, etc). Protect from water run-off from these materials.
- F. Perform field cutting of panels and related sheet metal components by means of hand or electric shears. At no time shall a hot/friction saw be used.
- G. Remove protective film immediately after installation.

3.5 FLASHING AND ACCESSORIES INSTALLATION

- A. Install flashings, including laps, splices, joints, bonding, adhesion, and attachment, as required by roof panel manufacturer's recommendations and details.
- B. Install metal trim, accessories, and edgings in locations indicated on the drawings.
 1. Follow roofing manufacturer's instructions.
 2. Remove protective plastic surface film immediately before installation.

- C. Flashing at Walls, Curbs, and Other Vertical and Sloped Surfaces: Install weathertight flashing at all walls, curbs, parapets, curbs, skylights, and other vertical and sloped surfaces that the roofing system abuts to; extend flashing at least 8 inches high above system surface.
- D. Flashing at Penetrations: Flash all penetrations passing through the panel; make flashing seals directly to the penetration.
 - 1. Pipes, Round Supports, and Similar Items: Flash with specified pre-molded pipe flashings wherever practical.
 - 2. Where pre-molded pipe flashings are not practical, provide flashing detail as recommended by metal panel manufacturer.

3.6 FIELD QUALITY CONTROL

- A. Inspection by Manufacturer: Provide final inspection of the roofing system by a Technical Representative employed by roofing system manufacturer specifically to inspect installation for warranty purposes (i.e., not a sales person).
- B. Perform all corrections necessary for issuance of warranty.

3.7 ADJUSTING AND CLEANING

- A. Repair panels having minor damage.
- B. Remove panels damaged beyond repair and replace with new panels to match adjacent undamaged panels.
- C. Clean exposed panel surfaces promptly after installation in accordance with recommendations of panel and coating manufacturers.
- D. Clean all contaminants generated by roofing work from building and surrounding areas, including adhesives, sealants, and coatings.
- E. Repair or replace building components and finished surfaces damaged or defaced due to the work of this section; comply with recommendations of manufacturers of components and surfaces.
- F. Remove leftover materials, trash, debris, equipment from project site and surrounding areas.

3.8 PROTECTION

- A. Where construction traffic must continue over finished roof panels, provide durable protection, and replace or repair damaged roofing to original condition.

END OF ADDENDUM 01