STATEMENT OF WORK

24 March 2025

PROJECT LOCATION: 181st Intelligence Wing, Indiana Air National Guard
8005 Petercheff St.
Terre Haute, IN 47403

PROJECT TITLE: Roof Replacement for Building 17

WORK ORDER NUMBER: LDXF242004

1. **Scope**

1.1 Work of this contract comprises of providing all materials, tools, equipment, and labor necessary to provide a hydrostatic standing seam metal roof replacement on building 17 (CLIN001) and new interior finishes (CLIN002). Contractor will remove areas of building 17 roof consisting of single ply EPDM roofing and 3-tab shingles as outlined below and in attached sketch. Contractor will recycle the EPDM membrane and dispose of the shingles. Contractor will remove all edge flashing and recycle or dispose. Contractor will remove all curb flashing and recycle or dispose. Contractor will remove and dispose of any coverboard and insulation board down to metal roof deck, wood sheathing, or base roof support structure. Wood sheathing will be removed and disposed. Wood sheathing will be replaced with metal roof decking, or support structure, appropriate for currently installed rafter construction and application of new vapor barrier, insulation, and metal roof. Contractor will coordinate with the COR once roof deck is exposed to perform an evaluation of the condition of roof deck to ensure it meets standards and UFCs and replace/repair as needed. Repair and replacement of deck should consider the replacement of any obvious rot and/or structurally compromised structural or support members. Contractor will provide a continuous sealed vapor barrier below the insulation layer and adhered to the metal roof deck. Contractor will provide a 2” minimum insulation layer over vapor barrier and below the metal roof panels. Contractor will provide all components required for a metal roofing system to include: panels, panel clips, trim/flashing, fascia, ridge, closures, sealants, fillers and other required items for a complete standing seam metal roof system as specified below. System will adhere to performance testing requirements as specified in the ‘Special Regulations’ section. Contractor will adhere to quality assurance references specified below. Contractor shall utilize a manufacturer with a minimum of three years of experience in manufacturing metal roofing systems and accredited under the International Accreditation Service. Contractor will have an installer that meets the minimum criteria set forth in the ‘Special Regulations’ section. Contractor will coordinate with the COR for initial, intermediate, and final inspections to ensure compliance with final approved installation drawings and manufacturer’s installation procedures.

CLIN 0001

2. Building 17 consists of three areas of consideration. These areas are detailed in the attached sketch but should be field verified prior to any bid. Area 1 is a high pitch roof of approx. 6720 SF EPDM roofing with roughly 348 LF of edge flashing and 20 LF of curb flashing and 5 penetrations. This area will be a complete tear off and replacement with scope detailed in this document. Area 2 is a low pitch roof of approx. 3938 SF EPDM roofing with roughly 278 LF of edge flashing. This area will be a complete tear off and replacement with scope detailed in this document. Area 3 is a low pitch roof of approx. 450 SF three-tab shingle and 90 LF of edge flashing. This area will be a complete tear off and replacement with scope detailed in this document.

   2.1 Steep Slope Roof Standing Seam Metal System

   A. Metal Roof Panel

      i. Profile: 2 inch high rib x 16 inch wide panel.
      ii. Seam Type: Interlocking design with integral sealant to be mechanically seamed.
      iii. Minimum Thickness: Panel to meet all specified design loads, but not less than 0.023 inches (24 Gauge).
      iv. Panel Base Material
         (a) Galvalume® steel sheet, AZ50, conforming to ASTM A792 for painted panels.
         (b) Galvalume® steel sheet, AZ55, conforming to ASTM A792 for unpainted panels.
      v. Texture: Smooth
      vi. Finish: factory color finish will be specified upon receiving samples. Finish must be produced with minimum 70% PVDF resin.

   B. Metal roof panels from section A shall extend 12” beyond exterior walls on all sides of the building.

   C. Metal roof panels from section A will utilize concealed anchor clips. Clip bases shall have factory punched or drilled holes for attachment. Clips shall be made from multiple pieces with the allowance for the total thermal movement required within the clip. Fixed clips are permitted when the manufacturer can substantiate that the system can accommodate the thermal cyclic movement under sustained live or snow loads.

   D. Fasteners

      i. Minimize the use of fasteners that penetrate the weathering surface of the roof panels and flashings. Use only at end-to-end joining and at the lower termination point of the panel. Fastening through any portion of the roof panel in the ridge or hip areas shall be concealed. Sealing washers shall be EPDM and back-up plates shall be used when fastening sheet-to-sheet.

E. Components

i. Components shall be compatible with the roof panel furnished. Flashing, trim, metal closure strips, caps, gutters, downspouts, roof curbs, and similar metal components shall not be less than the minimum thickness specified by the Manufacturer. Exposed metal components shall be finished to match the panels or trim, as furnished. Molded closure strips shall be closed-cell or solid-cell synthetic rubber or neoprene, or polyvinyl chloride pre-molded to match configuration of the covering and shall not absorb or retain water. Thermal spacer blocks and other thermal barriers at concealed clip fasteners shall be as recommended by the Manufacturer.

ii. Pipe flashings shall provide a weathertight joint at projections through the roof, taking into account the thermal movement of the roof and the service temperature of the projection. Pipe flashings shall have an aluminum-flanged base ring.

F. Sealants

i. All tape sealant shall be a pressure sensitive, 100 percent solid, sealing tape with a release paper backing. Provide permanently elastic, non-sagging, non-toxic, non- staining tape sealant approved by the Manufacturer.

ii. The Manufacturer shall approve all joint sealant that will come into contact with the roof system.

2.2 Insulation and Moisture Barrier

A. 2 inch, minimum, fiberglass batt insulation or rigid poly-iso board.
B. Continuous sealed vapor barrier

CLIN 0002

3. Within building 17, rooms 117 and 118 have had extensive water damage due to an improperly installed roof. The scope of this CLIN is to remediate the damage and supply a completely new usable space as detailed below.

3.1 Remove all GWB on north wall in both rooms, ~410SF, and west wall in room 118, ~120SF. Ensure all outlet covers are removed and stored, radiant heaters are removed and stored, window and door trim removed and stored. All drywall fasteners to be removed from studs. Base coping can be removed and disposed

A. Ensure power is disconnected to work area. Use Panel B (125A) to disconnect service in the area. Use LOTO procedures.

B. Remove suspended ceiling tiles and grid to permit access to GWB and needed removal.

3.2 Inspect all 2x4 stud wall construction and make recommendations for repair and replacement for structural integrity, weatherproofing, and blocking.

A. Repair or replace required wood members

B. Take care to replace framing members around windows and doors as needed.

3.3 Remove carpet from both rooms, ~550SF, and dispose

3.4 Install new 5/8” GWB in both rooms, where previously removed. Tape, mud, sand, and paint to finish.

3.5 Reinstall all previously removed finishes and equipment

3.6 Provide a new epoxy finish on floor.

CLIN 0003

4. Within building 17, room 106 has two west-facing windows which need replaced.

4.1 Remove interior and exterior window trim

4.2 Remove and dispose of windows

4.3 Provide and install new windows for opening

A. Ensure window rough opening is secure and adequate to accept new windows

B. Ensure new window has waterproof installation and is sealed and insulated appropriately for installation on current construction

4.4 Provide and install new interior and exterior window trim

5. **SUBMITTALS**

5.1 Summary: This section specifies requirements for handling submittals.

5.2 General Procedures: Unless noted otherwise, the Contractor is required to submit material submittals for the contract within 10 business days after acceptance of the award (or as directed by the Contracting Officer). Data shall be collected into a single submittal for each element. Submit a minimum of three (3) copies of all data for each submittal along with one (1) copy of the completed AF Form 3000. Identify the line item that corresponds with the "Schedule of Material Submittals" (AF Form 66) for each submittal. Deliver submittals to Contracting Officer's Technical Representative (COTR). Deliver AF Form 3000 to Contracting Officer (KO). The Government will review the material submittals and respond within 10 business days after receipt of the completed AF Form 66.

5.3 Contractor shall submit the following:

A. Schedule of work. For project coordination purposes (i.e., among the Contractor, Contracting Officer's Technical Representative, Fire, Safety, Environmental, Security, etc.), the Contractor shall submit a proposed work schedule. The work schedule shall include but not be limited to the following: date for delivery of material/equipment; service start date; number of days service will occur; hours during which service will occur; etc.

B. Schedule of values. Contractor shall submit a proposed schedule of values. The values shall include any labor and/or materials from the prime contract as well as any sub-contractors utilized for the project.

C. Safety Data Sheets

D. Contractor Hazardous Material Identification Part 1; Part one is a list and specifications of potential hazardous materials that may be used during the contract.

E. Contractor Hazardous Material Identification Part 2; Part 2 is a list and specifications of hazardous materials that were used during the contract.

F. Security Affidavits

G. Written Guarantees shall meet the following:

i. A 20 year, no dollar limit, system warranty issued by the manufacturer which covers both labor and materials.

ii. A 20 year, non pro-rated, water-tightness full system warranty issued jointly by the manufacturer and contractor which includes all penetrations and flashing as well as the metal roof system itself.

iii. A 5 year general contractor warranty on watertightness.

H. Product Data:

i. Submit samples and color chips for all proposed finishes; one 12-inch long sample of panel, including clips.

I. Tests Reports

i. Submit test report showing that metal panels have been tested in accordance with ASTM E1592.
ii. Submit test report showing that metal panels meet the water penetration requirements of ASTM E1646.
iii. Submit test report showing that metal panels meet the air infiltration requirements of ASTM E1680.

J. Certifications

i. Submit a letter from the SSSRS manufacturer verifying that the SSSRS

has been produced in a plant that is accredited under the IAS AC472 or AC473 program.

ii. Submit a letter from the manufacturer identifying the installer of the metal roofing system as an authorized installer, approved by the manufacturer [within the last ___ year(s)] prior to the start of the installation of the metal roofing system.

6. SPECIAL REGULATIONS

6.1 System performance testing will meet the following:

A. Metal roofing systems shall be tested in accordance with UL580, Class 90 rating. Steel panels shall be designed in accordance with the AISI S100

B. Metal roof panel systems shall be tested in accordance with ASTM E1592 for negative loading. Capacity for gauge, span or loading other than those tested is permitted to be determined by interpolating between test values only.

C. Metal roof panel systems shall have a maximum air infiltration rate of 0.007 cfm/ft^2 at a pressure differential of 6.24 psf. when tested in accordance with ASTM E1680.

D. Metal roof panel systems shall have no water leakage at a pressure differential of 6.24 psf when tested in accordance with ASTM E1646.

E. The panels and concealed anchor clips shall be capable of supporting a 300-pound temporary concentrated load at the panel mid-span in the installed condition. The load shall be applied over the entire panel width. The panels shall support this concentrated load without displaying permanent distortions that would affect the weathertightness of the metal roof system. Accessories and their fasteners shall be capable of resisting uplift forces and shall allow for thermal movement of the roof panel system.

6.2 The installer shall meet the following minimum criteria:

A. Maintain a minimum $250,000 general liability coverage for each loss. Maintain worker's compensation coverage, as mandated by law. Have no viable claims pending regarding negligent acts or defective workmanship on previously or current projects. Have not filed for protection from creditors under any state or federal insolvency or debtor relief statutes or codes. Have received specific training in the proper installation of the specified system and will be present to supervise whenever material is being installed. Have installed five projects of similar scope and magnitude that have been in service for a minimum of two years with satisfactory performance of the roof system. Installer will be certified, by the manufacturer, to install a twenty-year, no-monetary-limit full-system to ensure compliance with required warranties.

6.3 The Contractor shall comply with OSHA regulations and directives pertaining to safety practices and requirements in so far as they pertain to the Contractor's activities at the base. Note, the installation does not have fall protection. The contractor will be required to provide their own fall protection.

6.4 The Contractor shall meet all existing Government criteria pertaining to safety, air and water pollution, and noise control.

6.5 Each contractor, material dealer, and any other person who provides labor, material, or services of any kind, or who does work of any kind in connection with this project for any trade, must comply at all times, in all respects with the applicable provision of all federal state, county, and municipal laws, ordinances, and statutes.

6.6 The Contractor shall comply with Federal Acquisition Regulation 52.223-3 regarding hazardous material. Contractor shall identify all hazardous material that will be on-site via the Hazardous Material Identification Worksheet Part 1 (referenced in paragraph 2.1.3 above) Contractor shall submit a Material Safety Data Sheets (MSDS) for all material identified on the Hazardous Material Identification Worksheet Part 1. When the physical work is complete, Contractor shall submit the Hazardous Material Identification Worksheet Part 2. This worksheet shall identify all hazardous materials and associated quantities utilized on-site. Contractor shall remove all excess materials, unused materials, and/or hazardous wastes generated during the contract from the base.

7. POINTS OF CONTACT

7.1 Contractor is required to sign in each day with Civil Engineering during the course of the actual contract at a place and time designated by IN ANG SCOR or IN ANG Tech Rep.

A. IN ANG SCOR:	Chad Evans	(812) 877-5366
B. IN ANG Tech Rep:	Trey Lydick	(812) 877-5362
C. IN ANG Owners:	Esther Roman	(812) 877-5144

8. SCHEDULING

8.1 The base is manned and operational every day, and all services must be maintained during the construction period to the greatest extent possible. Work hours are from 0700 – 1630 (M-F). Additional hours outside of that timeframe must be coordinated with 181st CES Points of Contact.

8.2 Contractor is required to have a supervisor on location at all times that work is underway and when deliveries are expected and must provide a 24-hour emergency contact.

8.3 Contractor shall have all necessary materials, tools and equipment on hand before beginning any work operation that could disrupt base functions or facilities. Disruptions include shut-down, relocation and rerouting of any base utilities, services, roads, facilities and personnel. The Contractor is to request approval, as far in advance as possible, of any disruptions. The Contractor shall not proceed with any disruption without consent of the Base Civil Engineer. When given approval for a disruption, the Contractor shall accomplish the work during the period agreed upon. The Contractor is required to notify the Base Civil Engineer or his/her Representative immediately prior to any disruption and as soon as the work is completed and normal functions are restored.

9. PERFORMANCE PERIOD

9.1 The Performance Period for this project shall be 90 calendar days from the Notice to Proceed. Additional time may be added at the written request of the contractor and with approval from the Contracting Officer only.

10. VETTING PROCEDURES

10.1 In order to gain access to the base, all individuals are required to provide identification including full name, date of birth, company name, state-issued driver's license. Contractor will be required to submit a list of employee information. The vetting process takes a minimum of three working days from the date received by Security Forces. Send all vetting information to the SCOR.

11. GENERAL CONTRACT PROVISIONS

11.1 Contractor is responsible to accomplish this work in accordance with and adherence to the Master UFC Specifications, all Federal, State, local laws; regulations, rules and codes, to include OSHA, IOSHA and AFOSH standards and to abide by ALL base policies, guidelines and procedures.

END OF STATEMENT OF WORK