

SECTION 01 00 00  
ADMINISTRATIVE PROCEDURES

PART 1 GENERAL

1.01 CONTRACT REQUIREMENTS

A. Scope of Work:

Project consists of the removal of all existing plywood below the existing steel structure and its replacement with marine grade plywood (approximately 26,000 square feet). Any lighting and range support structures attached to the plywood will be removed, salvaged, and reattached as originally found. Attachment of new plywood will be in accordance with plans and specifications originally provided by Oak Point Associates.

B. Contract Method

1. Basis of award of this Contract will be in accordance with Section 1 Instructions to Bidder, Paragraph 2.
2. Contract type: State of Maine – Section 2-E, Contract for Minor Public Improvements.
3. The project will be constructed under a single lump sum contract.

C. Work Sequence

1. Work of the Contract and related provisions are as described in the Contract Documents.

D. Contractor Use of Premises

- I. Work of this Contract includes coordinating the work with the daily operations of the Owner.
2. Limited use of premises for Work and construction operations only, to allow for Owner occupancy, work by other Contractors, and public access.
3. Limit access to Owner's site, hours of operations are 7:00 A.M. - 4:00 P.M Monday through Friday. No work to be performed on weekends, state or federal holidays.
  - a. Exceptions to the weekend, state or federal holiday restrictions are allowed if the project site has no unit presence and access to the site is controlled entirely by the contractor. Local municipal codes regarding construction and noise will be adhered to. Also, not all state holidays are federal holidays and allowances may be made if unit personnel are available on the site to allow site access to the contractor.

4. Contractor will ensure that project site is left in a state that will not interfere with unit drill weekends, annual training or any other unit events. Owner will provide contractor with dates when these events are scheduled at the preconstruction meeting.
5. In the event of an unforeseen unit mission requirement that prohibits access to the construction site, the Owner shall extend the contractor's construction completion times accordingly with no penalty to the contractor.
6. Coordinate use of premises under direction of Owner.
7. The Contractor shall be responsible for his/her security in Construction Area until substantial completion. The contractor shall coordinate security of Building with Owner. This includes access to the facility and the organization parking area where applicable.

F. Owner Occupancy

1. Owner will occupy surrounding areas during entire period of construction to conduct Owner's normal operations. The Contractor shall cooperate with Owner to minimize conflict to the Owner's operations.

F. Owner-furnished Products: Not Used

G. Schedule of Allowances: Not Used

H. Additive Alternate: Not Used

I. Unit Prices: Not Used

J. Applications for Payment:

1. Submit one (1) electronic copy of each application under procedures of Section 00 72 13 (General Conditions) item 32 (Payments to the Contractor), on "Requisition for Payment", Form B.G.S. 00 62 76, Application for Payment revised with included Base Contract Work and Change Order Work forms.
2. All Applications for Payment shall be emailed to the Owner at the following email address: [Invoices.DFE@maine.gov](mailto:Invoices.DFE@maine.gov). The DFE Project Manager will be Cc'd on this email.

3. Owner shall provide the contractor with the administrative information required to complete the application for payment such as CT#; BGS #, signatories and their respective titles. Owner shall also inform the contractor of any revisions to these documents.
4. The contractor shall provide both the Application for Payment and Continuation Sheets in excel format. The contractor shall provide all supporting documentation IAW all provisions of item 32 in section – 00 72 13, General Conditions.
5. The contractor shall ensure that all applicable change orders are reflected in the Application for Payment.
6. Applications for Payment that contain requests for payment for materials suitably stored away from the site shall include all documentation required IAW item 32.6, Section 00 72 13 General Conditions.
7. Applications for Payment that are incomplete, not in the proper format, or contain errors will be returned to the contractor for correction.
8. **Updated project schedule shall be supplied with each Application for Payment.**
9. The proper Application for Payment form may be found at <https://www.maine.gov/dafs/bgs/forms>.

K. Coordination:

1. Work of this Contract includes coordination of the entire Work of the Project.
2. Coordinate work with all utilities. Interruption of services shall be coordinated with the Owner to minimize the disruption of operations within the facility. Interruption of utilities will be coordinated with and approved by the Owner 72 hours in advance.
3. Notify an appropriate official at the facility at least three days in advance of the need to move furnishings, equipment, materials, etc. from areas affected by the construction.
4. Control on-site activities to minimize the disruption of the occupants.
5. Coordinate the work of equipment and material suppliers and subcontractors.
6. Plan for the timely delivery of materials and supplies to the job site and for their temporary storage on site.
7. Maintain the project site in a neat condition.
8. Assist the Owner as required in the review of construction.



9. Maintain up to date progress records and as-built drawings.
10. Contractor responsible for obtaining all required permits from the **Town of West Gardiner, Maine** and **any Authority Having Jurisdiction (AHJ)** which requires one. Provide Owner with copies of all required permits.

#### L. CONFLICTS

1. Contractor shall notify Owner in writing of any real or apparent conflicts in the Contract Documents and, except in cases of emergency, await Owner's determination before proceeding.
2. The **Owner's Project Manager** shall resolve conflicts that arise during construction.
3. If two or more solutions are indicated in the Contract Documents, the Contractor shall assume the cost of the more expensive solution unless otherwise directed by the Owner.
4. The only entity who may modify schedule, scope or funding for this project is the DFE Project Manager.

#### M. Field Engineering

1. The Contractor shall be responsible for all field engineering as required.

#### N. Field Testing and Inspections:

1. The Contractor shall carry all costs for material testing and inspections required by the Contract Documents. The Contractor shall hire only Consultant approved and Owner approved independent testing agencies to perform all testing and inspections. All testing and inspections shall be scheduled and paid for by the contractor.

#### O. Reference Standards

1. For products specified by association or trade standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
2. The date of the standard is that in effect as of the Bid date, or date of Owner-Contractor Agreement when there are no bids, except when a specific date is given.
3. Obtain copies of standards when required by Contract Documents. Maintain copy at job site during progress of the specific work.

### 1.02 SCHEDULING AND PHASING OF WORK

#### A. Substantial Completion: Work of the Contract must be Substantially Completed by **31 October 2026** so that the Owner can have full use of interior space.

1. Except as otherwise specified, Substantial Completion is hereby defined to mean a stage of completion sufficient for the Owner to have full beneficial use and



- occupancy of the structure involved, less only minor corrections and repairs that can be performed without undue annoyance to building occupants which shall be documented on the "punch list" as specified hereinafter. Beneficial use and occupancy mean removal of all debris, interior and exterior scaffolding, surplus equipment and material and cleaning as required under the Contract completed.
2. Normal building operations will continue throughout the length of the Project.
  3. Within ten (10) working days following issuance of a Letter to Proceed, and notwithstanding any delay in execution of a formal Contract Agreement, the Contractor shall prepare a proposed Phasing and Progress Schedule. The final Schedule shall be as mutually agreed to by the Owner and Contractor, and within the following guidelines:
    - a. The Owner's business operations must continue throughout the entire construction period.
    - b. Work within the building interior must comply with the Owner's requirements for continued use and occupancy.
    - c. Applicable egress codes must be complied with during the construction period. Building entrances and exit paths must be always kept open.
- B. Final Completion of all Work of this Contract shall be by **15 November 2026**
1. Except as otherwise specified, Final Completion is when the Work of the Contract has been completed in accordance with the terms and conditions of the contract documents with no "punch list" items open and is ready for final payment.
- C. Expiration date of this Contract is **31 December 2026**.
1. Except as otherwise specified, Expiration Date is hereby defined to mean the date when all engagements of the parties have ended, except to those which arise from the nonfulfillment of obligations created during its existence, such as warranties.

#### 1.03 REGULATORY REQUIREMENTS

- A. Conform to all Local, State and Federal codes.

#### 1.04 PROJECT MEETINGS

- A. Requirements:

1. Contractor shall, upon acceptance of a Contract and before commencing Work, contact the Owner and request a pre-construction conference as required in Section 00 72 13 (General Conditions), Item 1 (Preconstruction Conference).

- B. Pre-construction Conference

1. The OWNER will administer pre-construction conference for execution of Owner-Contractor Agreement and exchange of preliminary submittals.

C. Progress Meetings

1. The Contractor shall schedule and administer Project meetings throughout progress of the Work, called meetings, and pre-installation conferences.
2. The Contractor shall make physical arrangements for meetings, prepare agenda with copies for participants, preside at meetings, record minutes, and distribute copies within two days to Owner, participants, and those affected by decisions made at meetings.
  - a. Attendance: Job superintendent, major Subcontractors and suppliers, Owner and those appropriate to agenda topics for each meeting.
  - b. Suggested Agenda: Review of Work progress, status of progress schedule and adjustments thereto, delivery schedules, submittals, maintenance of quality standards, pending changes and substitutions, and other items affecting progress of Work.

1.05 SUBMITTALS

A. Procedures

1. In all submittals always refer to project number **23TR17-604-D.**
2. Refer to schedule of Contractor Deliverables provided by Owner/Designer.
3. Transmit each item under OWNER-accepted form. Identify Project, Contractor, Subcontractor, major supplier; identify pertinent drawing sheet and detail number, and Specification Section number, as appropriate. Identify deviations from Contract Documents. Provide space for Contractor and OWNER review stamps.
4. Submit initial Progress Schedules and Contract Schedule Of Values in duplicate within 10 days after date of Owner - Contractor Agreement. After review by DESIGNER revise and resubmit as required. Submit revised schedules with each Application for Payment, reflecting changes since previous submittal.
5. Submittals can be delivered electronically to both the Designer and Owner. If submitting by e-mail, submit to the Designer for approval, and the Owner for review at the address below:

Designer: N/A

Owner: edward.a.starkey2.nfg@army.mil

6. Comply with progress schedule for submittals related to Work progress. Coordinate submittal of related items.
7. Submittal Sheets:



- a. Transmit each item under “Transmittal of Shop Drawings, Equipment Data, Material Samples, or Manufacturer’s Certificates of Compliance” in a format acceptable to the Owner.
  - b. Identify Project, Contractor, Subcontractor, major supplier.
  - c. Identify drawing sheet and detail number, and Specification Section number, as appropriate.
  - d. Identify deviations from Contract Documents.
  - e. Identify products submitted comply with the Build America, Buy America Act.
7. Designer submittal actions shall be taken with such reasonable promptness as to cause no delay in the Work or in the activities of the Owner, Contractor, or separate contractors, while allowing time in the Designer’s professional judgement to permit adequate review.
  8. After DESIGNER review of submittal, revise and resubmit as required identifying changes made since previous submittal.
  9. Distribute copies of reviewed submittals to concerned persons. Instruct recipients to promptly report any inability to comply with provisions.

**B. Quality Assurance**

1. Substitutions, in accordance with Section 01 00 00, para. 1.08 (E).

**C. Construction Progress Schedule**

1. Within ten (10) working days following issuance of a Notice to Proceed, the Contractor shall provide an Initial Construction Progress Schedule to the Owner
2. Show submittal dates required for Shop Drawings, Product Data, and Samples, and product delivery dates, including those furnished by Owner and those under Allowances as applicable.

**D. Schedule Of Values**

1. Submit typed schedule on Form 00 62 76.01 Continuation Sheet revised 2 Feb 2026. This form is found within the Application for Payment (00 62 76) referenced in 1.01 J. Applications for Payment of this specification section.
2. Include in each line item a directly proportional amount of Contractor's overhead and profit.
3. Revise schedule to list change orders, for each application for payment.

**E. Shop Drawings**

1. Shop drawings will be submitted to Owner, in accordance with para. 1.05 of this Section.



F. Product Data

1. Mark each copy to identify applicable products, models, options, and other data; supplement manufacturers' standard data to provide information unique to the Work.
2. Submit the number of copies, which Contractor requires, plus two copies, which will be retained by OWNER.
3. Provide data certifying that each product complies with the provisions contained in the THE INFRASTRUCTURE INVESTMENT AND JOBS ACT ("IIJA"), see Special Conditions 00 73 00, Section 14.

G. Manufacturer's Instructions

1. Submit two copies of each of Manufacturer's Instructions.

H. Samples Not Used

I. Field Samples Not Used

J. Background Check Requirements:

1. Anyone allowed into the facility by the contracted vendor's personnel is a representative of the contractor and is required to have a prior approved background check before gaining access to the facility.
2. All Contractors/vendors must be in possession of a valid (not suspended, revoked, or expired) official government issued photo credential (i.e. driver's license, state issued identification card, green card, etc.) and be screened through National Crime Information Center. Contractor badges shall be issued only in special cases (flight line access, etc...)
3. The Contractor shall supply a list of personnel who may be either involved in the work effort or be present at the facility to the Owner. The list shall be supplied to Owner within two weeks after the award of the contract or two weeks prior to the beginning of the contract work, whichever comes first. Owner will provide contractor with an excel spreadsheet to fill in with required employee information. Contractor shall provide these lists to the Owner only through approved, secured means and methods (DoDSAFE).
4. The required employee information shall include Company name, last name, first name, middle initial, suffix, maiden name(s), date of birth, sex M/F, Driver License Number and State, Social Security Number, and Address with street, city and state; copy of green card (if applicable) for each person. DO NOT send this information directly to the Owner in an email. Send this information to the Owner encrypted through the DoDSAFE link which will be provided by the Owner.
5. Results from the NCIC background check are controlled under the Privacy Act of 1974 and not permitted to be given to anyone not acting in a Security Force

- capacity. No details of the background check will be revealed other than a pass/fail or suspended/revoked.
6. The Department retains the right to screen and restrict from the facility, personnel employed by or who represent the contractor, who do not receive a satisfactory/passing background check.
  7. The Department will provide to the Contractor the names of those personnel that are acceptable for access to facilities and those who are not acceptable for unescorted access.

## 1.06 QUALITY CONTROL

### A. Quality Control, General

1. Maintain quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce work of specified quality.

### B. Workmanship

1. Comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
2. Perform work by qualified people to produce workmanship of specified quality.
3. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and racking.

### C. Manufacturers' Instructions

1. Comply with instructions in full detail, including each step in sequence. Should instructions conflict with Contract Documents, request clarification from Owner before proceeding.

### D. Manufacturers' Certificates

1. When required by individual Specifications Section, submit manufacturer's certificate, in duplicate, those products that meet or exceed specified requirements.

### E. Mockups:

1. Before installation, build mockups for each required construction form and finish using materials for the completed work. Mockup requirements include:
  - a. Provide individual mockups as required by specific Specification Sections to evaluate and set the quality standard for that work.
  - b. Using the same supervisory personnel and workers for mockup construction as will be used for the Project.



## 1.07 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

### A. Electricity

1. The Contractor shall be allowed to connect to existing electrical panel in building, for temporary power. The Contractor will not disrupt power at building. The Owner will only pay for cost of electricity.
2. The Contractor shall provide all temporary electrical panels.
3. The Contractor shall be responsible to fix any damages, caused by modifications for temporary services.

### B. Lighting

1. The Contractor shall provide source of lighting.

### C. Temporary Heat

1. The Contractor shall provide temporary heat and equipment in interior spaces:
  - a. The Contractor shall not use electrical heating units if the Owner is supplying electrical power to the Contractor.
  - b. The Contractor shall be completely responsible for providing all equipment and labor required to comply with this section.
  - c. The Contractor shall utilize the services of a qualified Heating subcontractor for providing Temporary Heat. These services shall be paid for by the Contractor.
  - d. At no time shall any part of the building served by the boiler be allowed to be without heat if called upon by the building control system.
2. Temporary heating system work shall be performed under the direct supervision of individuals properly licensed to perform the necessary work.
3. All temporary work shall be provided in conformity with all applicable codes, State laws, and requirements of the utility company.
4. The Contractor shall pay the costs of all fuel required for temporary heating until Substantial Completion, unless specified otherwise.
5. Utilizing the Permanent Heat Distribution System for Temporary Heat:
  - a. The Contractor may, with the approval of the Owner, elect to utilize the permanent heat distribution system for temporary heat.
  - b. If the permanent heat distribution system cannot be utilized or if work requires a shutdown of the existing system the Contractor shall make arrangements, acceptable to the Owner, to comply with this requirement at no additional cost to the Owner.

- c. The Contractor shall furnish and pay the costs of any materials and equipment which are not part of the permanent heating system, and which may be required to operate the permanent heat distribution system on a temporary basis.
- 6. Unit heaters, if used, shall be of the smokeless type and be installed and operated in such a way that finished work will not be damaged. "Salamanders" shall not be used.
- 7. Providing temporary heating service and equipment for exterior work:
  - a. Installation of weather protection and heating devices shall comply with all safety regulations including provisions for adequate ventilation and fire protection devices.
  - b. Unit heaters, if used, shall be of the smokeless type and be installed and operated in such a way that finished work will not be damaged. "Salamanders" shall not be used.

D. Snow Removal:

- 1. The Contractor is responsible for the removal of all snow that would impede the work of the contract, access to the work area as well as storage and delivery of materials. The Owner may require the removal of snow for the entire facility based upon the size and scope of the project. To be determined at the pre-bidding conference.

E. Water

- 1. The Contractor shall be allowed to hook to existing water in building, for temporary water supply. The Contractor will pay for cost of water usage for dust control and compaction [large amounts of water].

F. Sanitary Facilities

- 1. The Contractor shall provide their Sanitary Facilities. ~~This requirement may be waived depending upon the size and scope of the project (determined at pre-bidding conference).~~

G. Barriers

- 1. Provide as required to prevent public entry to construction areas, to provide for Owner's use of site, and to protect existing facilities and adjacent properties from damage from construction operations.

H. The Contractor will provide:

- 1. Office Trailer: Contractor shall coordinate with Owner for space within the facility to conduct his/her daily business. This requirement may be waived depending upon the size and scope of the project (determined at pre-bidding conference).
- 2. Storage Sheds for Tools, Materials, and Equipment: Weather tight, with adequate space for organized storage and access, and lighting for inspection of stored materials.



3. His/her own on-site telephone, if so required for the conduct of his/her business.
4. Protected storage, if necessary.
5. Temporary barricades to separate the Contract Site areas from the Owner's area or public area.

#### I. Protection And Restoration

1. The Contractor shall be responsible for all damages to furnishings, equipment, supplies, existing construction, including finished surfaces, caused by Work of Contract.
2. The Contractor shall be fully responsible for maintaining weather-tight integrity of the roofing system and wall systems, including permanent and temporary flashings, during the entire construction period.
3. The Contractor's responsibilities shall include the cost to repair damage to the existing building's structure, finishes and contents associated with the Contractor's failure to maintain the watertight integrity of the roofing system and wall system, whether permanent or temporary, at no additional cost to the Owner.
4. The Contractor shall protect paved areas and lawns around the building from damage associated with the construction. Costs to repair major damage to paved areas and lawns will be deducted from Contractor's final payment to cover Owner's expenses to repair damage. The Owner will determine if damages to lawns are minor or major.

#### II. Security

1. Provide security programs and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, and theft. Coordinate with Owner's security program.

#### III. Waste Control See Attachment A, Section 01 35 43 Environmental Protection.

#### IV. Cleaning during Construction

1. Throughout the construction period the Contractor shall be responsible for maintaining building and site areas affected by the Work in a standard of cleanliness.
  - a. Retain stored items in an orderly arrangement allowing maximum access, not impeding traffic or drainage, and providing protection of materials.
  - b. Completely remove all scrap, debris, waste material and other items not required for construction from the site at least once a week.
  - c. Provide adequate storage for all items awaiting removal from the job site, observing requirements for fire protection and protection of the ecology.
  - d. Conduct daily inspection, more often, if necessary, to verify that requirements for cleanliness are being satisfied.
  - e. Provide required personnel, equipment and materials needed to maintain the specified standard of cleanliness.

- f. Use only those cleaning materials and equipment that are compatible with the surface being cleaned, as recommended by the manufacturer of the material.
2. Foreign Object Debris (FOD- Bangor East Training Site Only): Construction site is adjacent to an active military and commercial flight line. At no time will trash or debris be left loose on the site. All trash and debris shall be contained to not allow it to blow onto the flight line.

#### M. Removal

1. Materials to be removed, including all components and accessories, become property of the Contractor and shall be promptly removed from the Contract Site and legally disposed of at Contractor's expense.
2. Remove all debris, rubbish, surplus materials and equipment immediately from the Project Site and legally dispose of at Contractor's expense.
3. Remove temporary materials, equipment, services, and construction prior to Substantial Completion inspection.
4. Clean and repair damage caused by installation or use of temporary facilities. Restore existing facilities used during construction to be specified, or to original, condition.
5. Do not assume that local landfill facilities will accept construction debris, even if paid for.
6. All materials removed from the job site will be accounted for on the Waste Management Tracking Form found at the end of Section 01 35 43 Environmental Protection. IAW AR 420-1 23.11.e and ARNG Environmental Check, Section 7, Solid Waste, dated 3 March 2023 requires all military construction, renovation and demolition projects shall include performance requirements for a 50 percent minimum diversion of construction and demolition (C&D) waste by weight, from landfill disposal.

### 1.08 MATERIAL AND EQUIPMENT

#### A. Products

1. Products include material, equipment, and systems.
2. Comply with Specifications and referenced standards as minimum requirements.
3. Components required to be supplied in quantity within a Specification section shall be the same and shall be interchangeable.
4. Do not use materials and equipment removed from existing structure, except as specifically required, or allowed, by Contract Documents.
5. Materials and equipment must comply with the provisions contained in the THEINFRASTRUCTURE INVESTMENT AND JOBS ACT ("IIJA"), see Special



Conditions 00 73 00, Section 14. Provide certification document at project completion.

6. Purchased products must meet the Federal sustainability procurement requirements and the State sustainable procurement preferences. See Special Conditions 00 73 00, Section 17 for specific requirements.
7. ACBM (ASBESTOS CONTAINING BUILDING MAT'LS) NOT ALLOWED, materials containing asbestos in any manner or quantity are not allowed on this Project. If such materials are installed, they shall be removed and replaced at no additional cost to the Owner.

**B. Transportation and Handling**

1. Transport products by methods to avoid product damage; deliver in undamaged condition in manufacturer's unopened containers or packaging, dry.
2. Provide equipment and personnel to handle products by methods to prevent soiling or damage.
3. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undamaged.

**C. Storage and Protection**

1. For exterior storage of fabricated products, place on sloped supports above ground. Cover products subject to deterioration with impervious sheet covering; provide ventilation to avoid condensation.
2. Arrange storage to provide access for inspection. Periodically inspect to ensure products are undamaged and are maintained under required conditions.
3. Products Specified by Reference Standards or by Description Only: Any product meeting those standards.
4. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not specifically named.

**D. Products List**

1. Within 15 days after date of Owner-Contractor Agreement, submit complete list of major products proposed for use, with name of manufacturer, trade name, and model number of each product.

**E. Substitutions**

1. Substitutions shall be submitted a minimum of 72 hours prior to bid date, any substitutions not submitted 72 hours prior to bid date shall not be permitted.
2. Do not assume that "or Equal" or terms of similar meaning indicate automatic approval of substitute products.

3. Document each request with complete data substantiating compliance of proposed substitution with Contract Documents.
4. Request constitutes a representation that the Contractor:
  - a. Has investigated proposed product and determined that it meets or exceeds, in all respects, specified product.
  - b. Will provide the same warranty for substitution as for specified product.
  - c. Waives claims for additional costs, which may subsequently become apparent.
5. The OWNER will determine acceptability of proposed substitution and will notify the Contractor of acceptance or rejection in writing within a reasonable time.

## 1.09 CONTRACT CLOSEOUT

### A. Closeout Procedures

1. When Contractor considers Work has reached final completion, submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for OWNER's inspection.
2. When the Consultant and Owner considers the Work of this contract has reached Substantial Completion, the Contractor and Owner shall sign a Certificate of Substantial Completion (Section 00 65 16). Substantial Completion is the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use. This Certificate of Substantial Completion will be prepared by the Architect/Engineer as stated in Specification 00 72 13, Section 37.4. When the Certificate of Substantial Completion has been signed by the Owner and the Contractor, the completed Certificate of Substantial Completion shall set the date for Substantial Completion of the work or a designated portion of the work.
3. When the Contractor considers the Work of this contract has reached final completion, the Contractor shall submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for OWNER's inspection. This written notification shall be submitted to the Owner 7 calendar days prior to the proposed inspection date. Per Specification 00 72 13, Section 36.4, the Contractor shall not call for final inspection of any portion of the Work that is not complete and permanently installed. The Contractor may be found liable for the expenses of individuals called to final inspection meetings prematurely.
4. Contractor must provide certificate of compliance that materials and equipment comply with the provision of the THE INFRASTRUCTURE INVESTMENT AND



JOBS ACT (“IIJA”). See 00 73 00 Special Conditions Section 14 for additional requirements.

5. Contractor must provide certificate of compliance that purchased products comply with the Sustainable Procurement requirements. See 00 73 00 Special Conditions Section 17 for specific requirements.
6. In addition to submittals required by the conditions of the Contract, provide release of all liens, claims and submit final requisition.
7. The Contractor’s failures to comply with Closeout Procedures, if the Closeout Documentation Requirements are not completed by the Substantial Completion Date. The Owner reserves the right to recover the costs to complete the Closeout Documentation Requirements from the Schedule of Values item Closeout Documentation Line Item. The Owner reserves the right to hire an Architect/Engineer to complete the required Contract Closeout Documentation.
8. Liquidated Damages: The minimum liquidated damages for this project shall be applied as described under Section 00 72 13 General Conditions, paragraph 37.5 and based on the Substantial Completion Date. The work to be performed under this contract shall be Substantially Completed on or before Liquidated Damages: The minimum liquidated damages for this project shall be applied as described under Section 00 72 13 General Conditions, paragraph 37.5 and based on the Substantial Completion Date. The work to be performed under this contract shall be Substantially Completed on or before insert date, SAME as 1.02.A ABOVE.
9. Under this contract amount per under Section 00 72 13 General Conditions, paragraph 37.5 \_\_\_\_\_ dollars per day shall be charged as liquidated damages for work required beyond the Substantial Completion date.

B. Facility Cost Data: (Not Applicable this Project)

1. At the pre-construction meeting the owner will provide the contractor with a specific list of items (facilities) that the contractor shall report on all costs associated with the construction or installation of that item (facility).
2. The Contractor shall provide a preliminary cost (Appendix A this specification section) for these items at substantial completion and will provide the Owner a final cost figure for these items as part of close-out.

C. Project Record Documents

1. Store documents separate from those used for construction.
2. Keep documents current; do not permanently conceal any work until Owner has inspected and required information has been recorded.

3. At Contract closeout, submit documents with transmittal letter containing date, Project title, Contractor's name and address, list of documents, and signature of Contractor.

## PART 2 PRODUCTS

Not Used

## PART 3 EXECUTION

### 3.01 FINAL CLEANING

- A. Execute final cleaning before final project assessment.
- B. Clean interior and exterior glass, surfaces exposed to view; remove temporary labels, stains and foreign substances, polish transparent and glossy surfaces, vacuum carpeted and soft surfaces.
- C. Clean equipment and fixtures to sanitary condition with cleaning materials appropriate to surface and material being cleaned.
- D. Replace filters of operating equipment.
- E. Clean debris from roofs, gutters, downspouts, and drainage systems.
- F. Clean site; sweep paved areas, rake clean landscaped surfaces.
- G. Remove waste and surplus materials, rubbish, and construction facilities from site.

### 3.02 STARTING OF SYSTEMS

- A. Coordinate schedule for start-up of various equipment and systems.
- B. Notify Architect/Engineer seven days before start-up of each item.
- C. Verify each piece of equipment or system has been checked for proper lubrication, drive rotation, belt tension, control sequence, and for conditions that may cause damage.
- D. Verify tests, meter readings, and specified electrical characteristics agree with those required by equipment or system manufacturer.
- E. Verify wiring and support components for equipment are complete and tested.
- F. Execute start-up under supervision of applicable manufacturer's representative in accordance with manufacturers' instructions.
- G. When specified in individual specification Sections, require manufacturers to provide authorized representative to be present at site to inspect, check, and approve equipment or system installation before start-up, and to supervise placing equipment or system in operation.
- H. Submit a written report in accordance with Division 23 that equipment or system has been properly installed and is functioning correctly.

### 3.03 DEMONSTRATION AND INSTRUCTIONS



- A. Demonstrate operation and maintenance of products to Owner's personnel two weeks before date of Substantial Completion.
- B. Use operation and maintenance manuals as basis for instruction. Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.
- C. Demonstrate start-up, operation, control, adjustment, troubleshooting, servicing, maintenance, and shutdown of each item of equipment at equipment location.
- D. Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.
- E. Required instruction time for each item of equipment and system is specified in individual sections.

#### 3.04 TESTING, ADJUSTING AND BALANCING

- A. Contractor will appoint and employ services of independent firm, acceptable to the Owner, to perform testing, adjusting, and balancing. Contractor shall pay for services.
- B. Independent firm will perform services as specified in Division 23.
- C. Reports will be submitted by independent firms to Architect/Engineer indicating observations and results of tests and indicating compliance or non-compliance with requirements of Contract Documents.

#### 3.05 PROTECTING INSTALLED CONSTRUCTION

- A. Protect installed Work and provide special protection where specified in individual specification sections.
- B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- C. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
- D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.
- E. Prohibit traffic or storage upon waterproofed or roofed surfaces. When traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturers.
- F. Prohibit traffic from landscaped areas.

#### 3.06 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
  - 1. Drawings.

2. Specifications.
  3. Addenda.
  4. Change Orders and other modifications to the Contract.
  5. Reviewed Shop Drawings, Product Data, and Samples.
  6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress, not less than weekly.
- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
1. Manufacturer's name and product model and number.
  2. Product substitutions or alternates used.
  3. Changes made by Addenda and modifications.
- F. As builds (Red-Lines): Legibly mark each item to record actual construction including:
1. Measured depths of foundations in relation to finish main floor datum.
  2. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
  3. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the Work.
  4. Field changes of dimension and detail.
  5. Details not on original Contract drawings.
- G. Submit documents to Consultant for approval. Consultant must approve prior to payment of final Application for Payment.

### 3.07 OPERATION AND MAINTENANCE DATA

- A. Submit data bound in 8-1/2 x 11-inch (A4) text pages, three D side ring binders with durable plastic covers. Provide the Owner with two (2) copies of these binders.
- B. Prepare binder cover with printed title "OPERATION AND MAINTENANCE INSTRUCTIONS", title of project, and subject matter of binder when multiple binders are required.
- C. Internally subdivide binder contents with permanent page dividers, logically organized as described below; with tab titling clearly printed under reinforced laminated plastic tabs.
- D. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.



- E. Contents: Prepare Table of Contents for each volume, with each product or system description identified, typed on white paper, in three parts as follows:
1. Part 1: Directory, listing names, addresses, and telephone numbers of Architect/Engineer, Contractor, Subcontractors, and major equipment suppliers.
  2. Part 2: Operation and Maintenance Instructions, arranged by system and subdivided by specification section. For each category, identify names, addresses, and telephone numbers of Subcontractors and suppliers. Identify the following:
    - a. List of equipment.
    - b. Operating instructions.
    - c. Maintenance instructions for equipment and systems.
    - d. Maintenance instructions for special finishes, including recommended cleaning methods and materials, and special precautions identifying detrimental agents.
    - e. Copies of warranties with effective dates included. This includes warranties provided by subcontractors.
    - f. Copies of any licenses for software and effective dates required for this project.
  3. Part 3: Project Documents and Certificates, including the following:
    - a. Shop drawings
    - b. Air and water balance reports.
    - c. Certificates.
  4. Contractor shall provide the O&M Manual to the Owner in digital form. All sections of the electronic form of the O&M Manual shall be searchable, excluding drawings and warranties. Every effort should be made to have the "Technical Data" section searchable as well, with the understanding this may not be possible in some instances.
  5. Do not provide the O&M manuals on CD or flash drives.

### 3.08 SPARE PARTS AND MAINTENANCE PRODUCTS

- A. Furnish spare parts, maintenance, and extra products in quantities specified in individual specification sections.
- B. Deliver to Project site and place in location as directed by Owner; obtain receipt before final payment.

### 3.9 PRODUCT WARRANTIES (Inserted in O&M Manuals where indicated in that section.)

- A. Obtain warranties responsible subcontractors, suppliers, and manufacturers, within ten days after completion of applicable item of work.

- B. Execute and assemble transferable warranty documents and bonds from subcontractors, suppliers, and manufacturers.
- C. Submit before final Application for Payment.
- D. Time of Submittals:
  - 1. For equipment or component parts of equipment put into service during construction with Owner's permission, submit documents within ten days after acceptance.
  - 2. Make other submittals within ten days after Date of Substantial Completion, before final Application for Payment.
- E. For items of Work for which acceptance is delayed beyond Date of Substantial Completion, submit within ten days after acceptance, listing date of acceptance as beginning of warranty or bond period.

#### PART 4 – GARDINER TRAINING SITE RANGE LEAD

- 4.1 The plywood is not an issue. There is too much bulk waste mass to be Hazardous Waste on the mass of lead waste entrained within it.
- 4.2 The lead dust in the range & on the plywood is an OSHA consideration is a few locations, generally toward the target end. PPE and working wet is recommended. OSHA requirements shall be followed.
- 4.3 The lead sampling results Dated April 29, 2026, are attached.

END OF SECTION



**Appendix A Facility Cost Data**      **Not Applicable for this project**

[illegible]

Columns Facility No; CAT Code; Description and Unit of Measure provided by Owner. Contractor provides figures for QTY and Cost. Cost is defined as all funds used to either remove or install the item to include all administrative costs associated with that facility.

## **SECTION 01 35 43**

### **ENVIRONMENTAL PROTECTION**

#### **PART 1 - GENERAL**

##### **1.01 DEFINITIONS OF CONTAMINANTS:**

- A. Sediment: Soil and other debris that has been eroded and transported by runoff water.
- B. Solid Waste: Rubbish, debris, garbage, and other discarded solid materials resulting from industrial, commercial, and agricultural operations, and from community activities.
- C. Rubbish: A variety of combustible and noncombustible wastes such as paper, boxes, glass, crockery, metal, lumber, cans and bones.
- D. Debris: Includes combustible and noncombustible wastes such as ashes, waste materials that result from construction or maintenance and repair work, leaves, and tree trimmings.
- E. Chemical Wastes: Includes salts, acids, alkalies, herbicides, pesticides, organic chemicals, and all hazardous and universal wastes.
- F. Sanitary Wastes: See Section 01 00 00, para. 1.07. E.1.
- G. Sewage: Wastes characterized as domestic sanitary sewage.
- H. Garbage: Refuse and scraps resulting from preparation, cooking, dispensing, and consumption of food.
- I. Oily Waste: Includes petroleum products and bituminous materials.

##### **1.02 ENVIRONMENTAL PROTECTION REQUIREMENTS:**

###### **A. General:**

- 1. Provide and maintain during the life of the contract, environmental protection as defined herein. Provide environmental protective measures as required to control pollution that develops during normal construction practice. Provide also environmental protection measures required to correct conditions that develop during the construction of permanent or temporary environmental features associated with the project. Comply with all federal, state, and local regulations pertaining to water, air, and noise pollution.

#### **PART 2 - PRODUCTS: NOT USED**

#### **PART 3 - EXECUTION**

##### **3.01 PROTECTION OF NATURAL RESOURCES:**

###### **A. General:**

- 1. The natural resources within the project boundaries and outside the limits of permanent work performed under this contract shall be preserved in their existing condition or restored to an



equivalent or improved condition upon completion of the work. Confine construction activities to areas defined by the work schedule, drawings, and specifications.

B. Land Resources:

1. Except in areas indicated to be cleared, do not remove, cut, deface, injure, or destroy trees or shrubs without special approval of the Owner. Do not fasten or attach ropes, cables, or guys to any existing nearby trees for anchorages unless specifically authorized. Where such special emergency use is authorized, the Contractor shall be responsible for any resultant damage.

C. Protection:

1. Protect existing trees which are to remain and which may be injured, bruised, defaced, or otherwise damaged by construction operators. Remove displaced rocks from uncleared areas. Protect monuments, markers and works of art.

D. Repair and Restoration:

1. Repair or restore to their original condition all trees or other landscape features scarred or damaged by the equipment operations. Obtain approval of the repair or restoration from the Owner prior to its initiation.

E. Temporary Construction:

1. Obliterate all signs of temporary construction facilities such as haul roads, work areas, structures, foundations of temporary structures, stockpiles of excess or waste materials, and all other vestiges of construction. Temporary roads, parking areas, and similar temporary use areas shall be graded in conformance with surrounding areas, tilled, and seeded. Include topsoil or nutriment during the seeding operation as necessary to establish a suitable stand of grass.

F. Water Resources:

1. Perform all work in such a manner that any adverse environmental impact on water resources is reduced to a level acceptable to the Owner.

G. Oil Substances:

1. Take special measures to prevent oily or hazardous substances from entering the ground, drainage areas or local bodies of water. Surround all temporary fuel oil, petroleum, or liquid chemical storage tanks with a temporary berm of sufficient size and strength to contain the contents of the tanks in the event of content leakage or spillage.

H. Fish and Wildlife Resources:

1. During the performance of the work take such steps as required to prevent interference or disturbance to fish and wildlife. Do not alter water flows or otherwise significantly disturb native habitat adjacent to the project area which are critical to fish and wildlife except as may be indicated or specified.

I. Historical and Archaeological Resources:

1. Carefully preserve and report immediately to the Owner all items having any apparent

historical or archaeological interest which are discovered in the course of any construction activities.

### 3.02 EROSION AND SEDIMENT CONTROL MEASURES:

#### A. Burn-off:

1. Burn-off of ground cover is not permitted.

#### B. Protection of Erodible Soils:

1. All earthwork brought to final grade shall be immediately finished as indicated or specified. Protect immediately side slopes and backslopes upon completion of rough grading. Plan and conduct all earthwork in such a manner as to minimize the duration of exposure of unprotected soils.

#### C. Temporary Protection to Erodible Soils:

1. Utilize the following methods to prevent erosion and control sedimentation.

#### D. Mechanical Retardation and Control of Runoff:

1. Mechanically retard and control the rate of runoff from the construction site. This includes construction of diversion ditches, benches, and berms, to retard and divert runoff to protected drainage courses.

#### E. Vegetation and Mulch:

1. Provide temporary protection on all side and back slopes as soon as rough grading is completed or sufficient soil is exposed to require protection to prevent erosion. Such protection shall be by accelerated growth of permanent vegetation, temporary vegetation, mulching, or netting. Stabilize slopes by hydroseeding, anchoring mulch in place, covering with anchored netting, sodding, or such combination of these and other methods necessary for effective erosion control.

### 3.03 CONTROL AND DISPOSAL OF SOLID, CHEMICAL AND SANITARY WASTES:

#### A. General:

1. Handle and dispose of wastes in accordance with this specification section. If directions conflict with another included specification, the other specification shall take precedence.
2. Track the disposal of all solid and chemical wastes including earthwork operations using the Waste Disposal Tracking Sheet listed below.
3. The preparation, cooking, and disposing of food is strictly prohibited on the project site.
4. Conduct handling and disposal of wastes to prevent contamination of the site and other areas. On completion, leave areas clean and natural looking. Obliterate signs of temporary construction and activities incidental to construction of permanent work in place.



B. Solid Wastes:

1. Pick up solid wastes and place in containers which are emptied on a regular schedule at the Contractor's expense.
2. Solid wastes shall be recycled whenever practicable.
3. The Contractor shall be responsible for contacting disposal facilities to determine what types of solid waste they will accept. The Contractor shall dispose of solid wastes only at facilities allowed to accept such material per Federal, State, and local regulations.

C. Sewage, Odor, and Pest Control:

1. Dispose of sewage through connection to the installation sanitary sewage system. Where such a system is not available, use chemical toilets or comparable effective units and periodically empty wastes into the installation sanitary sewerage system. Include provisions for pest control and elimination of odors.

D. Chemical Wastes:

1. Store chemical waste in corrosion resistant containers labeled to identify type of waste and date filled. Remove containers from the project site, and dispose of chemical waste in accordance with Federal, State, and local regulations. For oil and hazardous material spills which may be large enough to violate Federal, State, or local regulations, notify the MEARNG Environmental Specialist immediately - Telephone (207) 592-0379.

E. Petroleum Products:

1. Conduct fueling and lubricating of equipment and motor vehicles in a manner that affords the maximum protection against spills and evaporation. Dispose of lubricants to be discarded and excess oil in accordance with approved procedures meeting federal, state and local regulations.

3.04 DUST CONTROL:

A. General:

1. Keep dust down at all times, including nonworking hours, weekends, and holidays. Sprinkle or treat with dust suppressors, the soil at the site, haul roads, and other areas disturbed by operations. Petroleum products will not be used as suppressors. No dry power brooming is permitted. Instead use vacuuming, wet mopping, wet sweeping, or wet power brooming. Air blowing is permitted only for cleaning of non-particulate debris, such as steel reinforcing bars. No unnecessary shaking of bags is permitted where bagged cement, concrete mortar and plaster is used.

3.05 NOISE:

A. General:

1. When available, make the maximum use "low-noise-emission products" as certified by EPA. No blasting or use of explosives is permitted without written permission of the Contracting Officer and then only during designated times.

### WASTE DISPOSAL TRACKING SHEET

|               |              |
|---------------|--------------|
| Project Name: | Project No.: |
|---------------|--------------|

| Date | Material | Amount | Units | Cost | Disposition |
|------|----------|--------|-------|------|-------------|
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |
|      |          |        |       |      |             |

**Instructions:**

Date – The date the material was shipped off site or removed from the project.

Material – Type/description of material (scrap metal, construction & demo debris, wood, leaves, tree trimmings, chemical wastes, etc.)

Amount – How much material was removed.

Units – Units of weight measurement are preferred. However, if not available another unit (ex: cu yd) may be used as long as there is a detailed description of the material.

Cost – Total cost to dispose of material (or total amount received from recycling)

Disposition – Where the material was sent, i.e. metal recycling facility, landfill, saved for reuse by owner, sold to X contractor, etc.

**END OF SECTION**



**MAINE ARMY NATIONAL GUARD**

**GARDINER TRAINING SITE  
RANGE LEAD**

**ST1847**

**Jennifer Prescott  
207-874-2400**

**SGS NORTH AMERICA, INC.  
600 TECHNOLOGY WAY  
SCARBOROUGH, ME 04074**

**How did we do today?**

Your feedback helps us improve our service  
and takes less than a minute to complete.

**START SURVEY**



Andrew Moore  
Maine Army National Guard  
194 Winthrop Street  
Augusta, ME 04330

Lab Login Number: ST1847  
Project Name: Gardiner Training Site Range Lead  
Project Manager: Darrian Lewry  
Sample Receipt Date(s): April 29, 2026

The following information is enclosed:

- \* Report of Analysis (Analytical and/or Field)
- \* Quality Control Data Summary
- \* Chain of Custody (COC)
- \* Login Report

A copy of the Chain of Custody is included in the paginated report. If requested, the original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. The results contained in this report relate only to the submitted samples. This cover letter is an integral part of the ROA.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in an attached technical narrative or in the Report of Analysis.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Please go to <https://www.env.sgs.com/document-library/#certificationsaccreditations> for copies of current certificates and analyte lists.

**Jennifer Prescott - Quality Assurance Officer**

05/05/2026

**Date**



## METALS SAMPLE FLAGGING

| FLAG | SPECIFIED MEANING                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E    | The reported value is estimated because of the presence of interference (as indicated by serial dilution).                                                                                                                                                                                                                                                                                                                                                  |
| N    | The pre-digestion spiked sample recovery is not within control limits.                                                                                                                                                                                                                                                                                                                                                                                      |
| *    | The duplicate sample analysis relative percent difference (RPD) is not within control limits.                                                                                                                                                                                                                                                                                                                                                               |
| B    | Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.                                                                                                                                                                                                                                                                                                                                                    |
| A    | The post-digestion spiked sample recovery is not within control limits.                                                                                                                                                                                                                                                                                                                                                                                     |
| •    | Analytical run QC sample (e.g. ICV, CCV, ICB, CCB, ICSA, ICSAB) not within control limits.                                                                                                                                                                                                                                                                                                                                                                  |
| U    | <p>The analyte was not detected above the specified level. This level may be the Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.</p> <p>Note: All results reported as “U” MDL have a 50% rate for false negatives compared to those results reported as “U” PQL, “U” LOQ or “U” LOD, where the rate of false negatives is &lt;1%.</p> |
| J    | Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Level (PQL) (also called Limit of Quantitation (LOQ)), but above the Method Detection Limit (MDL).                                                                                                                                                                                                                               |
| Q    | One or more quality control criteria failed (e.g., LCS recovery, surrogate spike recovery or CCV).                                                                                                                                                                                                                                                                                                                                                          |

## Report of Analytical Results

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| <b>SDG :</b>              | ST1847     | <b>Sample Date :</b>  | 04/29/2026 |
| <b>Lab Sample ID :</b>    | ST1847-001 | <b>Receive Date :</b> | 04/29/2026 |
| <b>Client Sample ID :</b> | 1A         | <b>Report Date :</b>  | 05/05/2026 |
| <b>Matrix :</b>           | WP         |                       |            |

| Parameter | Qualifier | Result | Units   | Dilution |     | Adjusted |  | Analytical  |          |    | Preparation |          |    |          | Notes |
|-----------|-----------|--------|---------|----------|-----|----------|--|-------------|----------|----|-------------|----------|----|----------|-------|
|           |           |        |         | Factor   | PQL | PQL      |  | Method      | Date     | By | Method      | Date     | By | Batch    |       |
| LEAD      |           | 247    | ug/Wipe | 1        | 1.0 | 1.0      |  | SW846 6010C | 05/04/26 | CH | SW846 3050B | 04/30/26 | PD | TD30ICS4 |       |

## Report of Analytical Results

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| <b>SDG :</b>              | ST1847     | <b>Sample Date :</b>  | 04/29/2026 |
| <b>Lab Sample ID :</b>    | ST1847-002 | <b>Receive Date :</b> | 04/29/2026 |
| <b>Client Sample ID :</b> | 1B         | <b>Report Date :</b>  | 05/05/2026 |
| <b>Matrix :</b>           | WP         |                       |            |

| Parameter | Qualifier | Result | Units   | Dilution |     | Adjusted |  | Analytical  |          |    | Preparation |          |    |          | Notes |
|-----------|-----------|--------|---------|----------|-----|----------|--|-------------|----------|----|-------------|----------|----|----------|-------|
|           |           |        |         | Factor   | PQL | PQL      |  | Method      | Date     | By | Method      | Date     | By | Batch    |       |
| LEAD      |           | 36.4   | ug/Wipe | 1        | 1.0 | 1.0      |  | SW846 6010C | 05/04/26 | CH | SW846 3050B | 04/30/26 | PD | TD30ICS4 |       |



## Report of Analytical Results

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| <b>SDG :</b>              | ST1847     | <b>Sample Date :</b>  | 04/29/2026 |
| <b>Lab Sample ID :</b>    | ST1847-003 | <b>Receive Date :</b> | 04/29/2026 |
| <b>Client Sample ID :</b> | 2A         | <b>Report Date :</b>  | 05/05/2026 |
| <b>Matrix :</b>           | WP         |                       |            |

| Parameter | Qualifier | Result | Units   | Dilution |     | Adjusted |  | Analytical  |          |    | Preparation |          |    |          | Notes |
|-----------|-----------|--------|---------|----------|-----|----------|--|-------------|----------|----|-------------|----------|----|----------|-------|
|           |           |        |         | Factor   | PQL | PQL      |  | Method      | Date     | By | Method      | Date     | By | Batch    |       |
| LEAD      | U         | 1.0    | ug/Wipe | 1        | 1.0 | 1.0      |  | SW846 6010C | 05/04/26 | CH | SW846 3050B | 04/30/26 | PD | TD30ICS4 |       |

## Report of Analytical Results

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| <b>SDG :</b>              | ST1847     | <b>Sample Date :</b>  | 04/29/2026 |
| <b>Lab Sample ID :</b>    | ST1847-004 | <b>Receive Date :</b> | 04/29/2026 |
| <b>Client Sample ID :</b> | 2B         | <b>Report Date :</b>  | 05/05/2026 |
| <b>Matrix :</b>           | WP         |                       |            |

| Parameter | Qualifier | Result | Units   | Dilution |     | Adjusted |  | Analytical  |          |    | Preparation |          |    |          | Notes |
|-----------|-----------|--------|---------|----------|-----|----------|--|-------------|----------|----|-------------|----------|----|----------|-------|
|           |           |        |         | Factor   | PQL | PQL      |  | Method      | Date     | By | Method      | Date     | By | Batch    |       |
| LEAD      |           | 8.3    | ug/Wipe | 1        | 1.0 | 1.0      |  | SW846 6010C | 05/04/26 | CH | SW846 3050B | 04/30/26 | PD | TD30ICS4 |       |

## Report of Analytical Results

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| <b>SDG :</b>              | ST1847     | <b>Sample Date :</b>  | 04/29/2026 |
| <b>Lab Sample ID :</b>    | ST1847-005 | <b>Receive Date :</b> | 04/29/2026 |
| <b>Client Sample ID :</b> | 3A         | <b>Report Date :</b>  | 05/05/2026 |
| <b>Matrix :</b>           | WP         |                       |            |

| Parameter | Qualifier | Result | Units   | Dilution<br>Factor | PQL | Adjusted<br>PQL | Analytical  |          |    | Preparation |          |    |          | Notes |
|-----------|-----------|--------|---------|--------------------|-----|-----------------|-------------|----------|----|-------------|----------|----|----------|-------|
|           |           |        |         |                    |     |                 | Method      | Date     | By | Method      | Date     | By | Batch    |       |
| LEAD      | U         | 1.0    | ug/Wipe | 1                  | 1.0 | 1.0             | SW846 6010C | 05/04/26 | CH | SW846 3050B | 04/30/26 | PD | TD30ICS4 |       |



## Report of Analytical Results

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| <b>SDG :</b>              | ST1847     | <b>Sample Date :</b>  | 04/29/2026 |
| <b>Lab Sample ID :</b>    | ST1847-006 | <b>Receive Date :</b> | 04/29/2026 |
| <b>Client Sample ID :</b> | 3B         | <b>Report Date :</b>  | 05/05/2026 |
| <b>Matrix :</b>           | WP         |                       |            |

| Parameter | Qualifier | Result | Units   | Dilution |     | Adjusted |  | Analytical  |          |    | Preparation |          |    |          | Notes |
|-----------|-----------|--------|---------|----------|-----|----------|--|-------------|----------|----|-------------|----------|----|----------|-------|
|           |           |        |         | Factor   | PQL | PQL      |  | Method      | Date     | By | Method      | Date     | By | Batch    |       |
| LEAD      |           | 18.5   | ug/Wipe | 1        | 1.0 | 1.0      |  | SW846 6010C | 05/04/26 | CH | SW846 3050B | 04/30/26 | PD | TD30ICS4 |       |

## Report of Analytical Results

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| <b>SDG :</b>              | ST1847     | <b>Sample Date :</b>  | 04/29/2026 |
| <b>Lab Sample ID :</b>    | ST1847-007 | <b>Receive Date :</b> | 04/29/2026 |
| <b>Client Sample ID :</b> | 4A         | <b>Report Date :</b>  | 05/05/2026 |
| <b>Matrix :</b>           | WP         |                       |            |

| Parameter | Qualifier | Result | Units   | Dilution |     | Adjusted |  | Analytical  |          |    | Preparation |          |    |          | Notes |
|-----------|-----------|--------|---------|----------|-----|----------|--|-------------|----------|----|-------------|----------|----|----------|-------|
|           |           |        |         | Factor   | PQL | PQL      |  | Method      | Date     | By | Method      | Date     | By | Batch    |       |
| LEAD      |           | 103    | ug/Wipe | 1        | 1.0 | 1.0      |  | SW846 6010C | 05/04/26 | CH | SW846 3050B | 04/30/26 | PD | TD30ICS4 |       |

## Report of Analytical Results

|                           |            |                       |            |
|---------------------------|------------|-----------------------|------------|
| <b>SDG :</b>              | ST1847     | <b>Sample Date :</b>  | 04/29/2026 |
| <b>Lab Sample ID :</b>    | ST1847-008 | <b>Receive Date :</b> | 04/29/2026 |
| <b>Client Sample ID :</b> | 4B         | <b>Report Date :</b>  | 05/05/2026 |
| <b>Matrix :</b>           | WP         |                       |            |

| Parameter | Qualifier | Result | Units   | Dilution |     | Adjusted |  | Analytical  |          |    | Preparation |          |    |          | Notes |
|-----------|-----------|--------|---------|----------|-----|----------|--|-------------|----------|----|-------------|----------|----|----------|-------|
|           |           |        |         | Factor   | PQL | PQL      |  | Method      | Date     | By | Method      | Date     | By | Batch    |       |
| LEAD      |           | 281    | ug/Wipe | 1        | 1.0 | 1.0      |  | SW846 6010C | 05/04/26 | CH | SW846 3050B | 04/30/26 | PD | TD30ICS4 |       |



---

---

**PREPARATION BLANK REPORT**

---

**Sample ID:** PBSTD30ICS4**Batch ID:** TD30ICS4**Work Order:** ST1847

---

| Element Name | Flag | Result | Units      | PQL  | MDL  | File   |
|--------------|------|--------|------------|------|------|--------|
| LEAD         | U    | 1.00   | mg/kgdrywt | 1.00 | 0.34 | NTE01A |

---

U The analyte was not detected in the sample at a level greater than the method detection limit.

J The analyte was detected in the sample at a concentration greater than the method detection limit, but less than the laboratory's Practical Quantitation Level.

H The analyte was detected in the blank at a concentration greater than the laboratory's acceptance limit.

## LABORATORY CONTROL SAMPLE REPORT

**Sample ID:** LCSOTD30ICS4

**Batch ID:** TD30ICS4

**Work Order:** ST1847

| Element Name | True Value | Result | Units      | Recovery(%) | Flag | EPA Limits | DoD Limits | File   |
|--------------|------------|--------|------------|-------------|------|------------|------------|--------|
| LEAD         | 10.0       | 10.7   | mg/kgdrywt | 107.0       |      | 80-120     | 81-112     | NTE01A |

- D Laboratory control sample recovery is outside DoD acceptance limits.
- S Laboratory control sample recovery is outside EPA acceptance limits.
- N Laboratory control sample recovery is outside DoD and EPA acceptance limits.

---

**LABORATORY CONTROL SAMPLE REPORT**

---

**Sample ID:** LC2OTD30ICS4**Batch ID:** TD30ICS4**Work Order:** ST1847

---

| Element Name | True Value | Result | Units      | Recovery(%) | Flag | EPA Limits | DoD Limits | File   |
|--------------|------------|--------|------------|-------------|------|------------|------------|--------|
| LEAD         | 10.0       | 10.3   | mg/kgdrywt | 103.0       |      | 80-120     | 81-112     | NTE01A |

---

- D Laboratory control sample recovery is outside DoD acceptance limits.  
S Laboratory control sample recovery is outside EPA acceptance limits.  
N Laboratory control sample recovery is outside DoD and EPA acceptance limits.



|                                          |                              |                                     |
|------------------------------------------|------------------------------|-------------------------------------|
| Client: <u>Maine Army National Guard</u> | SGS PM: <u>DL</u>            | Sampled By: <u>Client</u>           |
| Project:                                 | KIMS Entry By: <u>ETP</u>    | Delivered By: <u>Client</u>         |
| Work Order#: <u>ST1847</u>               | KIMS Review By: <u>DL</u>    | Airbill #:                          |
|                                          | Labeled By: <u>ETP</u>       | Received By: <u>ETP</u>             |
| SDG #:                                   | Cooler: <u>1</u> of <u>1</u> | Date/Time Rec.: <u>4-29-26 1433</u> |

| Receipt Criteria                                                                                                                                                | Y | N | EX* | NA | Comments and/or Resolution                                                                                                                                                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Custody seals present / intact?                                                                                                                              |   |   |     | /  |                                                                                                                                                                           |
| 2. Chain of Custody present in cooler?                                                                                                                          | / |   |     |    |                                                                                                                                                                           |
| 3. Chain of Custody signed by client?                                                                                                                           | / |   |     |    |                                                                                                                                                                           |
| 4. Chain of Custody matches samples?                                                                                                                            | / |   |     |    |                                                                                                                                                                           |
| 5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.                                                                                |   |   |     | /  | Temp (°C): <u>N/A</u> Thermometer ID: IR-1                                                                                                                                |
| Samples received at <6 °C w/o freezing?                                                                                                                         |   |   |     | /  | Note: Not required for <u>metals</u> (except Hg soil) analysis.                                                                                                           |
| Ice packs or ice present?                                                                                                                                       |   |   |     | /  | The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data. |
| If yes, was there sufficient ice to meet temperature requirements?                                                                                              |   |   |     | /  |                                                                                                                                                                           |
| If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?                       |   |   |     | /  | Note: No cooling process required for metals (except Hg soil) analysis.                                                                                                   |
| 6. Volatiles:                                                                                                                                                   |   |   |     | /  |                                                                                                                                                                           |
| Aqueous: No bubble larger than a pea?                                                                                                                           |   |   |     | /  |                                                                                                                                                                           |
| Soil/Sediment:                                                                                                                                                  |   |   |     | /  |                                                                                                                                                                           |
| Received in airtight container?                                                                                                                                 |   |   |     | /  |                                                                                                                                                                           |
| Received in methanol?                                                                                                                                           |   |   |     | /  |                                                                                                                                                                           |
| Methanol covering soil?                                                                                                                                         |   |   |     | /  |                                                                                                                                                                           |
| D.I. Water - Received within 48 hour HT?                                                                                                                        |   |   |     | /  |                                                                                                                                                                           |
| 7. Trip Blank present in cooler?                                                                                                                                |   |   |     | /  |                                                                                                                                                                           |
| 8. Proper sample containers and volume?                                                                                                                         | / |   |     |    |                                                                                                                                                                           |
| 9. Samples within hold time upon receipt?                                                                                                                       | / |   |     |    |                                                                                                                                                                           |
| 10. Aqueous samples properly preserved?<br>Metals, COD, NH3, TKN, phenol, TPO4,<br>N+N, TOC, DRO, TPH – pH <2<br>Sulfide - >9, no headspace<br>Cyanide – pH >12 |   |   |     | /  |                                                                                                                                                                           |
| 11. pH adjusted? Y / N Reagent used:                                                                                                                            |   |   |     | /  | Reagent Lot# Samples adjusted:                                                                                                                                            |

\* Log-In Notes to Exceptions: document any problems with samples or discrepancies.

# SGS North America Inc - Scarborough Chain of Custody



Work Order #: ST 1847 PAGE      OF     

600 Technology Way, Scarborough, ME 04074 TEL: 207-874-2400 FAX: 207-775-4029 www.sgs.com

| Client / Reporting Information                                                                                                                                                              |         | Project Information                             |    | Analytical Information      |  | Matrix Codes            |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------|----|-----------------------------|--|-------------------------|--|
| Company Name: Maine Army National Guard                                                                                                                                                     |         | Project Name: Gardiner Training Site Range Lead |    |                             |  | DW - Drinking Water     |  |
| Address: 194 Winthrop St                                                                                                                                                                    |         | Street                                          |    |                             |  | GW - Ground Water       |  |
| City: Augusta State: ME Zip: 04333                                                                                                                                                          |         | City: West Gardiner State: ME                   |    |                             |  | WW - Water              |  |
| Project Contact: Andrew Moore Phone #: 207-430-5927                                                                                                                                         |         | Project #                                       |    |                             |  | SW - Surface Water      |  |
| Email: andrew.l.moore.nfg@army.mil                                                                                                                                                          |         | Fax #                                           |    |                             |  | SO - Soil               |  |
| Sampler(s) Name(s) (Printed)                                                                                                                                                                |         | Client Purchase Order #                         |    |                             |  | SL - Sludge             |  |
| Sampler 1: Andrew Moore                                                                                                                                                                     |         | Sampler 2: Andrew Flint                         |    |                             |  | LIQ - Other Liquid      |  |
| SGS Scarborough Sample #                                                                                                                                                                    |         | DATE                                            |    | COLLECTION                  |  | LAB USE ONLY            |  |
| Field ID / Point of Collection                                                                                                                                                              |         | TIME                                            |    | SAMPLED BY:                 |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | MATRIX                      |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | TOTAL # OF BOTTLES          |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | OTHER                       |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | NONE                        |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | HCl                         |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | NaOH                        |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | HNO3                        |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | H2SO4                       |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | NaOH+ZnAc                   |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | DI WATER                    |  |                         |  |
|                                                                                                                                                                                             |         |                                                 |    | MEOH                        |  |                         |  |
| 1A                                                                                                                                                                                          | 4/29/26 | 1126                                            | AM | 1                           |  |                         |  |
| 1B                                                                                                                                                                                          | 4/29/26 | 1125                                            | AM | 1                           |  |                         |  |
| 2A                                                                                                                                                                                          | 4/26/23 | 1126                                            | AM | 1                           |  |                         |  |
| 2B                                                                                                                                                                                          | 4/29/26 | 1135                                            | AM | 1                           |  |                         |  |
| 3A                                                                                                                                                                                          | 4/29/26 | 1140                                            | AM | 1                           |  |                         |  |
| 3B                                                                                                                                                                                          | 4/29/26 | 1145                                            | AM | 1                           |  |                         |  |
| 4A                                                                                                                                                                                          | 4/29/26 | 1150                                            | AM | 1                           |  |                         |  |
| 4B                                                                                                                                                                                          | 4/29/26 | 1155                                            | AM | 1                           |  |                         |  |
| <div> <div>RESULTS ONLY</div> <div>RESULTS PLUS QC</div> <div>LEVEL 3</div> <div>LEVEL 4</div> <div>EDD'S</div> <div>Report for Compliance to State of ME</div> <div>PWSID# ME</div> </div> |         |                                                 |    |                             |  |                         |  |
| <div> <div>5 Day TAT</div> </div>                                                                                                                                                           |         |                                                 |    |                             |  |                         |  |
| <div> <div>Comments / Remarks</div> </div>                                                                                                                                                  |         |                                                 |    |                             |  |                         |  |
| <div> <div>Data Deliverable Information</div> </div>                                                                                                                                        |         |                                                 |    |                             |  |                         |  |
| <div> <div>Sample Custody must be documented below each time samples change possession, including courier delivery.</div> </div>                                                            |         |                                                 |    |                             |  |                         |  |
| Relinquished by Sampler/Affiliation                                                                                                                                                         |         | Date Time: 4/29/26                              |    | Relinquished By/Affiliation |  | Date Time: 4/29/26 1437 |  |
| 1 Andrew Moore                                                                                                                                                                              |         | 2 Andrew Moore                                  |    | 3 Andrew Moore              |  | 4                       |  |
| Relinquished by/Affiliation                                                                                                                                                                 |         | Date Time:                                      |    | Relinquished By/Affiliation |  | Date Time:              |  |
| 5                                                                                                                                                                                           |         | 6                                               |    | 7                           |  | 8                       |  |



Apr. 30, 2026  
02:27 PM

Login Number: ST1847

Account: MEARMYNG001  
Maine Army National Guard  
Project: Gardiner Training Site Range Lead

Primary Report Address:

Andrew Moore  
Maine Army National Guard  
194 Winthrop Street  
  
Augusta, ME 04330  
  
andrew.t.moore.nfg@army.mil

Primary Invoice Address:

Andrew.c.Flint2.nfg@army.mil  
Maine Army National Guard  
194 Winthrop Street  
  
Augusta, ME 04330  
  
andrew.c.flint2.nfg@army.mil; elizabeth.e.barton.nfg@army.mil

Report CC Addresses:  
Invoice CC Addresses:

Quote/Incoming:

Login Information

ANALYSIS INSTRUCTIONS :  
CHECK NO. :  
CLIENT PO# :  
CLIENT PROJECT MANAGE :  
CONTRACT :  
COOLER TEMPERATURE : N/A  
DELIVERY SERVICES : Client  
EDD FORMAT :  
ISM INSTRUCTIONS :  
LOGIN INITIALS : ETP  
PM : DL  
PROJECT NAME : Gardiner Training Site Range Lead  
QC LEVEL : II  
REPORT INSTRUCTIONS : andrew.t.moore.nfg@army.mil  
SDG ID :  
SDG STATUS :  
TEMPLATE :  
VERBAL TAT : 5 Day





Apr. 30, 2026

02:27 PM

Login Number: ST1847

Quote/Incoming:

Account: MEARMYNG001

Maine Army National Guard

Project: Gardiner Training Site Range L

| Laboratory Sample ID    | Client Sample Number | Collect Date/Time           | Receive Date | PR | Due Date           | Verbal Due Date | Mailed |
|-------------------------|----------------------|-----------------------------|--------------|----|--------------------|-----------------|--------|
| ST1847-1                | 1A                   | 29-APR-26 11:20             | 29-APR-26    |    | 06-MAY-26          | 06-MAY-26       |        |
| <b>Sample Comments:</b> |                      |                             |              |    |                    |                 |        |
| <b>Matrix</b>           | <b>Product</b>       | <b>Hold Date (shortest)</b> | <b>Notes</b> |    | <b>Bottle Type</b> |                 |        |
| Wipe                    | S SW3050-PREP        | 26-OCT-26                   |              |    |                    |                 |        |
| Wipe                    | S SW6010-LEAD        | 26-OCT-26                   |              |    | 40 mL Vial         |                 |        |
| Service                 | S WASTE-DISPOSAL     |                             |              |    |                    |                 |        |
| ST1847-2                | 1B                   | 29-APR-26 11:25             | 29-APR-26    |    | 06-MAY-26          | 06-MAY-26       |        |
| <b>Sample Comments:</b> |                      |                             |              |    |                    |                 |        |
| <b>Matrix</b>           | <b>Product</b>       | <b>Hold Date (shortest)</b> | <b>Notes</b> |    | <b>Bottle Type</b> |                 |        |
| Wipe                    | S SW3050-PREP        | 26-OCT-26                   |              |    |                    |                 |        |
| Wipe                    | S SW6010-LEAD        | 26-OCT-26                   |              |    | 40 mL Vial         |                 |        |
| Service                 | S WASTE-DISPOSAL     |                             |              |    |                    |                 |        |
| ST1847-3                | 2A                   | 29-APR-26 11:30             | 29-APR-26    |    | 06-MAY-26          | 06-MAY-26       |        |
| <b>Sample Comments:</b> |                      |                             |              |    |                    |                 |        |
| <b>Matrix</b>           | <b>Product</b>       | <b>Hold Date (shortest)</b> | <b>Notes</b> |    | <b>Bottle Type</b> |                 |        |
| Wipe                    | S SW3050-PREP        | 26-OCT-26                   |              |    |                    |                 |        |
| Wipe                    | S SW6010-LEAD        | 26-OCT-26                   |              |    | 40 mL Vial         |                 |        |
| Service                 | S WASTE-DISPOSAL     |                             |              |    |                    |                 |        |
| ST1847-4                | 2B                   | 29-APR-26 11:35             | 29-APR-26    |    | 06-MAY-26          | 06-MAY-26       |        |
| <b>Sample Comments:</b> |                      |                             |              |    |                    |                 |        |
| <b>Matrix</b>           | <b>Product</b>       | <b>Hold Date (shortest)</b> | <b>Notes</b> |    | <b>Bottle Type</b> |                 |        |
| Wipe                    | S SW3050-PREP        | 26-OCT-26                   |              |    |                    |                 |        |
| Wipe                    | S SW6010-LEAD        | 26-OCT-26                   |              |    | 40 mL Vial         |                 |        |
| Service                 | S WASTE-DISPOSAL     |                             |              |    |                    |                 |        |
| ST1847-5                | 3A                   | 29-APR-26 11:40             | 29-APR-26    |    | 06-MAY-26          | 06-MAY-26       |        |
| <b>Sample Comments:</b> |                      |                             |              |    |                    |                 |        |
| <b>Matrix</b>           | <b>Product</b>       | <b>Hold Date (shortest)</b> | <b>Notes</b> |    | <b>Bottle Type</b> |                 |        |
| Wipe                    | S SW3050-PREP        | 26-OCT-26                   |              |    |                    |                 |        |
| Wipe                    | S SW6010-LEAD        | 26-OCT-26                   |              |    | 40 mL Vial         |                 |        |
| Service                 | S WASTE-DISPOSAL     |                             |              |    |                    |                 |        |
| ST1847-6                | 3B                   | 29-APR-26 11:45             | 29-APR-26    |    | 06-MAY-26          | 06-MAY-26       |        |
| <b>Sample Comments:</b> |                      |                             |              |    |                    |                 |        |
| <b>Matrix</b>           | <b>Product</b>       | <b>Hold Date (shortest)</b> | <b>Notes</b> |    | <b>Bottle Type</b> |                 |        |
| Wipe                    | S SW3050-PREP        | 26-OCT-26                   |              |    |                    |                 |        |
| Wipe                    | S SW6010-LEAD        | 26-OCT-26                   |              |    | 40 mL Vial         |                 |        |
| Service                 | S WASTE-DISPOSAL     |                             |              |    |                    |                 |        |
| ST1847-7                | 4A                   | 29-APR-26 11:50             | 29-APR-26    |    | 06-MAY-26          | 06-MAY-26       |        |
| <b>Sample Comments:</b> |                      |                             |              |    |                    |                 |        |
| <b>Matrix</b>           | <b>Product</b>       | <b>Hold Date (shortest)</b> | <b>Notes</b> |    | <b>Bottle Type</b> |                 |        |
| Wipe                    | S SW3050-PREP        | 26-OCT-26                   |              |    |                    |                 |        |
| Wipe                    | S SW6010-LEAD        | 26-OCT-26                   |              |    | 40 mL Vial         |                 |        |
| Service                 | S WASTE-DISPOSAL     |                             |              |    |                    |                 |        |



Apr. 30, 2026  
02:27 PM

Login Number: ST1847  
Account: MEARMYNG001  
Maine Army National Guard  
Project: Gardiner Training Site Range L

Quote/Incoming:

| Laboratory Sample ID | Client Sample Number | Collect Date/Time    | Receive Date | PR | Due Date    | Verbal Due Date | Mailed |
|----------------------|----------------------|----------------------|--------------|----|-------------|-----------------|--------|
| ST1847-8             | 4B                   | 29-APR-26 11:55      | 29-APR-26    |    | 06-MAY-26   | 06-MAY-26       |        |
| Sample Comments:     |                      |                      |              |    |             |                 |        |
| Matrix               | Product              | Hold Date (shortest) | Notes        |    | Bottle Type |                 |        |
| Wipe                 | S SW3050-PREP        | 26-OCT-26            |              |    |             |                 |        |
| Wipe                 | S SW6010-LEAD        | 26-OCT-26            |              |    | 40 mL Vial  |                 |        |
| Service              | S WASTE-DISPOSAL     |                      |              |    |             |                 |        |

Total Samples: 8                      Total Analyses: 24

## SECTION 061000 - ROUGH CARPENTRY

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:
  - 1. Framing with dimension lumber.
  - 2. Wood blocking and nailers.
- B. Related Sections:
  - 1. Division 06 Section "Sheathing" for plywood roof sheathing.

#### 1.3 DEFINITIONS

- A. Exposed Framing: Framing not concealed by other construction.
- B. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension.
- C. Lumber grading agencies, and the abbreviations used to reference them, include the following:
  - 1. NeLMA: Northeastern Lumber Manufacturers' Association.
  - 2. NLGA: National Lumber Grades Authority.
  - 3. SPIB: The Southern Pine Inspection Bureau.

#### 1.4 SUBMITTALS

- A. Submittals shall comply with the requirements of the Construction Contract Clauses, Division 01 Section "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
  - 1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.



2. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.
  3. Include copies of warranties from chemical treatment manufacturers for each type of treatment.
- C. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.
- D. Evaluation Reports: For the following, from ICC-ES:
1. Wood-preservative-treated wood.
  2. Metal framing anchors.

## 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Stack lumber flat with spacers beneath and between each bundle to provide air circulation. Protect lumber from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

## PART 2 - PRODUCTS

### 2.1 WOOD PRODUCTS, GENERAL

- A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Factory mark each piece of lumber with grade stamp of grading agency.
  2. Where nominal sizes are indicated, provide actual sizes required by DOC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.
  3. Provide dressed lumber, S4S, unless otherwise indicated.
- B. Maximum Moisture Content of Lumber: 15 percent.

### 2.2 WOOD-PRESERVATIVE-TREATED LUMBER

- A. Preservative Treatment by Pressure Process: AWWA U1; use Category UC3b for exterior construction not in contact with the ground.
1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium.
  2. For exposed items indicated to receive a stained or natural finish, use chemical formulations that do not require incising, contain colorants, bleed through, or otherwise adversely affect finishes.

- B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or that does not comply with requirements for untreated material.
- C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- D. Application: Treat all rough carpentry unless otherwise indicated.

## 2.3 DIMENSION LUMBER FRAMING

- A. Roof Framing: No. 2 or better with minimum design values as indicated.
  - 1. Species:
    - a. Hem-fir (north); NLGA.
    - b. Southern pine; SPIB.
    - c. Spruce-pine-fir; NLGA.
- B. Blocking and Nailers: Construction, stud or No. 3 grade.
  - 1. Species
    - a. Hem-fir (north); NLGA.
    - b. Southern pine; SPIB.
    - c. Spruce-pine-fir; NLGA.

## 2.4 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.
  - 1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
- B. Nails, Brads, and Staples: ASTM F 1667.
- C. Power-Driven Fasteners: NES NER-272.
- D. Wood Screws: ASME B18.6.1.
- E. Lag Bolts: ASME B18.2.1.
- F. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.
  - 1. Material: Carbon-steel components, zinc plated to comply with ASTM B 633, Class Fe/Zn 5.

2. Material: Stainless steel with bolts and nuts complying with ASTM F 593 and ASTM F 594, Alloy Group 1 or 2.

## 2.5 METAL FRAMING ANCHORS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
- B. Allowable Design Loads: Provide products with allowable design loads, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.
- C. Hot-Dip, Heavy-Galvanized Steel Sheet: ASTM A 653/A 653M; structural steel (SS), high-strength low-alloy steel Type A (HSLAS Type A), or high-strength low-alloy steel Type B (HSLAS Type B); G185 coating designation; and not less than 0.036 inch thick.
  1. Use for wood-preservative-treated lumber and where indicated.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry to other construction; scribe and cope as needed for accurate fit. Locate blocking and nailers as indicated.
- B. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- C. Metal Framing Anchors: Install metal framing anchors to comply with manufacturer's written instructions. Install fasteners through each fastener hole.
- D. Do not splice structural members between supports unless otherwise indicated.
- E. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.
- F. Comply with AWPAC M4 for applying field treatment to cut surfaces of preservative-treated lumber.
  1. Use inorganic boron for items that are continuously protected from liquid water.
  2. Use copper naphthenate for items not continuously protected from liquid water.
- G. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:



1. NES NER-272 for power-driven fasteners.
  2. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.
- H. Use steel common nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads unless otherwise indicated.
- I. For exposed work, arrange fasteners in straight rows parallel with edges of members, with fasteners evenly spaced, and with adjacent rows staggered.
1. Comply with indicated fastener patterns where applicable.
  2. Use common nails unless otherwise indicated. Drive nails snug but do not countersink nail heads.

### 3.2 WOOD BLOCKING AND NAILER INSTALLATION

- A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work.
- B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

### 3.3 ROOF JOIST FRAMING INSTALLATION

- A. General: Install roof joists with crown edge up and support ends of each member with not less than 1-1/2 inches of bearing on wood or metal. Attach roof joists as follows:
1. Where supported on wood members, by using metal framing anchors.
- B. Provide solid blocking of 2-inch nominal thickness by depth of joist at ends of joists unless nailed to header or band.
- C. Provide bridging of type indicated below, at intervals of 96 inches o.c., between joists.
1. Diagonal wood bridging formed from bevel-cut, 1-by-3-inch nominal- size lumber, double-crossed and nailed at both ends to joists.
  2. Steel bridging installed to comply with bridging manufacturer's written instructions.
- D. Provide special framing as indicated for eaves, overhangs and similar conditions.

### 3.4 PROTECTION

- A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

RANGE REPAIR PROJECT  
GARDINER TRAINING SITE  
MAINE ARMY NATIONAL GUARD  
GARDINER, MAINE

P.N. TR10-601

END OF SECTION

## SECTION 061600 - SHEATHING

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section Includes:

- 1. Roof sheathing.
- 2. Provide plywood sheathing on 100 percent of the steel baffle plates.

- B. Related Requirements:

- 1. Division 06 Section "Rough Framing" for wood framing and blocking.

#### 1.3 SUBMITTALS

- A. Submittals shall comply with the requirements of the Construction Contract Clauses, Division 01 Section "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of factory-fabricated product. Indicate component materials and dimensions and include construction and application details.

#### 1.4 DELIVERY, STORAGE, AND HANDLING

- A. Stack panels flat with spacers beneath and between each bundle to provide air circulation. Protect sheathing from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

### PART 2 - PRODUCTS

#### 2.1 WOOD PANEL PRODUCTS

- A. Plywood: BS 1088 Marine Grade
- B. Thickness: As needed to comply with requirements specified, but not less than thickness indicated.
- C. Factory mark panels to indicate compliance with applicable standard.



## 2.2 ROOF SHEATHING

### A. Plywood Roof Sheathing: Exterior, Structural I sheathing.

1. Nominal Thickness. As indicated.

## 2.3 FASTENERS

### A. General: Provide fasteners of size and type indicated that comply with requirements specified in this article for material and manufacture.

1. For wood roof sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.

### B. Nails: ASTM F 1667.

## PART 3 - EXECUTION

### 3.1 INSTALLATION, GENERAL

- A. Do not use materials with defects that impair quality of sheathing or pieces that are too small to use with minimum number of joints or optimum joint arrangement. Arrange joints so that pieces do not span between fewer than three support members.
- B. Cut panels at penetrations, edges, and other obstructions of work; fit tightly against abutting construction unless otherwise indicated.
- C. Securely attach to substrate by fastening as indicated, complying with the following:
  1. NES NER-272 for power-driven fasteners.
  2. Table 2304.9.1, "Fastening Schedule," in ICC's "International Building Code."
- D. Coordinate sheathing installation with installation of materials installed over sheathing so sheathing is not exposed to precipitation or left exposed at end of the workday when rain is forecast.

### 3.2 WOOD STRUCTURAL PANEL INSTALLATION

- A. General: Comply with applicable recommendations in APA Form No. E30, "Engineered Wood Construction Guide," for types of structural-use panels and applications indicated.
- B. Fastening Methods: Fasten panels as indicated below:
  1. Wood Roof Sheathing:
    - a. Nail to wood framing as indicated.
    - b. Space panels 1/8 inch apart at edges and ends.

RANGE REPAIR PROJECT  
GARDINER TRAINING SITE  
MAINE ARMY NATIONAL GUARD  
GARDINER, MAINE

P.N. TR10-601

END OF SECTION

## SECTION 099113 - EXTERIOR PAINTING

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. This Section includes surface preparation and the application of paint systems on the following exterior substrates:
  - 1. Steel.
  - 2. Galvanized metal.
  - 3. Wood substrates.
- B. Related Sections include the following:
  - 1. Division 05 Sections "Structural Steel Framing," "Steel Joist Framing" and "Metal Fabrications" for shop priming of metal substrates with primers specified in this Section.
  - 2. Division 09 Section "High-Performance Coatings" for special-use coating over structural steel and metal fabrications.

#### 1.3 DEFINITIONS

- A. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D 523.

#### 1.4 SUBMITTALS

- A. Submittals shall comply with the requirements of the Construction Contract Clauses, Division 01 Section "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of product indicated.
- C. Samples for Initial Selection: For each type of topcoat product indicated.
- D. Samples for Verification: For each type of paint system and each color and gloss of topcoat indicated.
  - 1. Submit Samples on rigid backing, 8 inches square.
  - 2. Step coats on Samples to show each coat required for system.
  - 3. Label each coat of each Sample.



4. Label each Sample for location and application area.

E. Product List: For each product indicated, include the following:

1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
2. Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.

F. Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.

1. Quantity: Furnish an additional 5 percent, but not less than 1 gal. of each material and color applied.

## 1.5 QUALITY ASSURANCE

A. MPI Standards:

1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
2. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and paint systems indicated.

## 1.6 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

## 1.7 PROJECT CONDITIONS

A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.

B. Do not apply paints in snow, rain, fog, or mist; when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Benjamin Moore & Co.
  2. California Paints.
  3. ICI Paints.
  4. PPG Architectural Finishes, Inc.
  5. Sherwin-Williams Company (The).

### 2.2 PAINT, GENERAL

- A. Material Compatibility:
1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- B. Colors: As selected by Owner from manufacturer's full range and as indicated on Drawings.

### 2.3 METAL PRIMERS

- A. Alkyd Anticorrosive Metal Primer: MPI #79.
1. VOC Content: E Range of E2.
  2. Basis-of-Design Product: "KEM BOND HS, Universal Metal Primer," Sherwin-Williams Company.
- B. Waterborne Galvanized-Metal Primer: MPI #134.
1. VOC Content: E Range of E2.
  2. Basis-of-Design Product: "KEM AQUA 50P, Water Reducible Primer," Sherwin-Williams Company.

### 2.4 EXTERIOR LATEX PAINTS

- A. Exterior Latex (Flat): MPI #10 (Gloss Level 1).
1. VOC Content: E Range of E2.
  2. Basis-of-Design Product: "Duration, Exterior Latex Coating," Sherwin-Williams Company.

## 2.5 SOLVENT-BASED PAINTS

- A. Alkyd, Exterior Flat (Gloss Level 1): MPI #8.
  - 1. VOC: E Range of E2.
  - 2. Basis-of-Design Product: "All Surface Enamel," Sherwin-Williams Company.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
  - 1. Wood: 15 percent.
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.
  - 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

### 3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
- B. Remove plates, machined surfaces, and similar items already in place that are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
  - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
  - 2. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- C. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
  - 1. Remove incompatible primers and reprime substrate with compatible primers as required to produce paint systems indicated.



- D. Steel Substrates: Remove rust and loose mill scale. Clean using methods recommended in writing by paint manufacturer.
- E. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal fabricated from coil stock by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- F. Wood Substrates:
  - 1. Scrape and clean knots. Before applying primer, apply coat of knot sealer recommended in writing by topcoat manufacturer for exterior use in paint system indicated.
  - 2. Sand surfaces that will be exposed to view, and dust off.
  - 3. Prime edges, ends, faces, undersides, and backsides of wood.
  - 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.

### 3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions.
  - 1. Use applicators and techniques suited for paint and substrate indicated.
  - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
- B. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- C. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

### 3.4 FIELD QUALITY CONTROL

- A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure at any time and as often as Owner deems necessary during the period when paints are being applied:
  - 1. Owner will engage the services of a qualified testing agency to sample paint materials being used. Samples of material delivered to Project site will be taken, identified, sealed, and certified in presence of Contractor.
  - 2. Testing agency will perform tests for compliance of paint materials with product requirements.
  - 3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying-paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

### 3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Owner, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

### 3.6 EXTERIOR PAINTING SCHEDULE

- A. Steel Substrates:
  - 1. Alkyd System:
    - a. Prime Coat: Alkyd anticorrosive metal primer, MPI #79.
    - b. Intermediate Coat: Exterior alkyd enamel matching topcoat, MPI #10.
    - c. Topcoat: Exterior alkyd exterior (flat), MPI #8.
- B. Galvanized-Metal Substrates:
  - 1. Latex Over Water-Based Primer System:
    - a. Prime Coat: Waterborne galvanized-metal primer, MPI #134.
    - b. Intermediate Coat: Exterior latex matching topcoat, MPI #10.
    - c. Topcoat: Exterior latex (flat), MPI #10.
- C. Wood Substrates:
  - 1. Latex System:
    - a. Prime Coat: Exterior latex matching topcoat, MPI #10.
    - b. Intermediate Coat: Exterior latex matching topcoat, MPI #10.
    - c. Topcoat: Exterior latex (flat), MPI #10.

END OF SECTION

## SECTION 099600 - HIGH-PERFORMANCE COATINGS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section includes surface preparation and application of high-performance coating systems on the following substrates:
  - 1. Exterior Substrates:
    - a. Steel.
- B. Related Requirements:
  - 1. Division 05 Sections "Structural Steel Framing," "Steel Joist Framing" and "Metal Fabrications" for shop priming of metal substrates with primers specified in this Section.
  - 2. Division 09 Section "Exterior Painting" for special-use coatings and general field painting.

#### 1.3 DEFINITIONS

- A. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D 523.
- B. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D 523.

#### 1.4 SUBMITTALS

- A. Submittals shall comply with the requirements of the Construction Contract Clauses, Division 01 Section "Submittal Procedures" and the individual sections specifying the work.
- B. Product Data: For each type of product indicated. Include preparation requirements and application instructions.
- C. Samples for Initial Selection: For each type of topcoat product indicated.
- D. Samples for Verification: For each type of coating system and in each color and gloss of topcoat indicated.
  - 1. Submit Samples on rigid backing, 8 inches square.



2. Label each coat of each Sample.
3. Label each Sample for location and application area.

E. Product List: For each product indicated, include the following:

1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
2. Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.
3. VOC content.

F. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

1. Coatings: 5 percent, but not less than 3 gal. of each material and color applied.

## 1.5 QUALITY ASSURANCE

A. Mockups: Apply mockups of each coating system indicated to verify preliminary selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Owner will select one surface to represent surfaces and conditions for application of each coating system specified in Part 3.
  - a. Ceiling Surfaces: Provide samples of at least 10 sq. ft.
  - b. Other Items: Owner will designate items or areas required.
2. Final approval of color selections will be based on mockups.
  - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Owner at no added cost to Owner.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Owner specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

## 1.6 DELIVERY, STORAGE, AND HANDLING

A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

## 1.7 FIELD CONDITIONS

- A. Apply coatings only when temperature of surfaces to be coated and surrounding air temperatures are between 50 and 95 deg F.
- B. Do not apply coatings when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.
- C. Do not apply exterior coatings in snow, rain, fog, or mist.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Behr Process Corporation.
  - 2. Benjamin Moore & Co.
  - 3. Diamond Vogel Paints.
  - 4. Duron, Inc.
  - 5. Euclid Chemical Company.
  - 6. ICI Paints.
  - 7. PPG Architectural Finishes, Inc.
  - 8. Pratt & Lambert.
  - 9. Sherwin-Williams Company (The).
- B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in other Part 2 articles for the paint category indicated.

### 2.2 HIGH-PERFORMANCE COATINGS, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and are listed in "MPI Approved Products List."
- B. Material Compatibility:
  - 1. Provide materials for use within each coating system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
  - 2. For each coat in a coating system, provide products recommended in writing by manufacturers of topcoat for use in coating system and on substrate indicated.
  - 3. Provide products of same manufacturer for each coat in a coating system.
- C. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction.
  - 1. Flat Paints and Coatings: 50 g/L.

2. Nonflat Paints and Coatings: 150 g/L.
3. Primers, Sealers, and Undercoaters: 200 g/L.
4. Anti-Corrosive and Anti-Rust Paints Applied to Ferrous Metals: 250 g/L.
5. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
6. Pre-Treatment Wash Primers: 420 g/L.
7. Floor Coatings: 100 g/L.
8. Shellacs, Clear: 730 g/L.
9. Shellacs, Pigmented: 550 g/L.

D. Colors: As selected by Owner from manufacturer's full range.

## 2.3 METAL PRIMERS

A. Primer, Acrylic, Anti-Corrosive, for Metal: MPI #79.

1. Basis-of-Design: "KEM BOND HS, Universal Metal Primer," Sherwin-Williams Company.

## 2.4 EPOXY COATINGS

A. Epoxy, Gloss: MPI #77.

1. Basis-of-Design: "Industrial Enamel HS," Sherwin-Williams Company.

## 2.5 SOURCE QUALITY CONTROL

A. Testing of Coating Materials: Owner reserves the right to invoke the following procedure:

1. Owner may engage the services of a qualified testing agency to sample coating materials. Contractor will be notified in advance and may be present when samples are taken. If coating materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. Owner may direct Contractor to stop applying paints if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying coating materials from Project site, pay for testing, and recoat surfaces coated with rejected materials. Contractor will be required to remove rejected materials from previously coated surfaces if, on recoating with complying materials, the two coatings are incompatible.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.



- B. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
  - 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.

### 3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
  - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection.
- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
  - 1. Remove incompatible primers and reprime substrate with compatible primers or apply tie coat as required to produce coating systems indicated.
- D. Steel Substrates: Remove rust, loose mill scale, and shop primer if any. Clean using methods recommended in writing by paint manufacturer, but not less than the following:
  - 1. SSPC-SP 10/NACE No. 2, "Near-White Blast Cleaning."
- E. Shop-Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop-primed surfaces.

### 3.3 APPLICATION

- A. Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
  - 1. Use applicators and techniques suited for coating and substrate indicated.
  - 2. Coat surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, coat surfaces behind permanently fixed equipment or furniture with prime coat only.
  - 3. Coat back sides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
  - 4. Do not apply coatings over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.

- B. If undercoats or other conditions show through final coat, apply additional coats until cured film has a uniform coating finish, color, and appearance.
- C. Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.

### 3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test coatings for dry film thickness.
  - 1. Contractor shall touch up and restore coated surfaces damaged by testing.
  - 2. If test results show that dry film thickness of applied coating does not comply with coating manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with coating manufacturer's written recommendations.

### 3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing coating application, clean spattered surfaces. Remove spattered coatings by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from coating operation. Correct damage by cleaning, repairing, replacing, and recoating, as approved by Owner, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

### 3.6 EXTERIOR HIGH-PERFORMANCE COATING SCHEDULE

- A. Steel Substrates:
  - 1. High-Build Epoxy System:
    - a. Prime Coat: Primer, acrylic, anti-corrosive, for metal, MPI #79.
    - b. Intermediate Coat: Epoxy, gloss, MPI #77.
    - c. Topcoat: Epoxy, gloss, MPI #77.

END OF SECTION

11 Aug. 2010 - 4:53pm  
C:\orile\20706.11 - 0001.dwg

|            |                                                                   |
|------------|-------------------------------------------------------------------|
| Ø          | AND AT                                                            |
| Ø          | PERCENT                                                           |
| Ø          | PULS/MINUS                                                        |
| ASH/STO    | AMERICAN ASSOCIATION OF STATE<br>HIGHWAY TRANSPORTATION OFFICIALS |
| ADJ        | ADJACENT                                                          |
| ALUM       | ALUMINUM                                                          |
| ALT        | ALTERNATE                                                         |
| APPROX     | APPROXIMATE                                                       |
| ASTM       | AMERICAN SOCIETY FOR TESTING<br>AND MATERIALS                     |
| BD         | BOARD                                                             |
| BUILDG     | BUILDING                                                          |
| BMP/FS     | BEST MANAGEMENT PRACTICES                                         |
| CB         | CATCHER                                                           |
| CB         | CATCH BASIN                                                       |
| CL         | CONTROL JOINT                                                     |
| CLD        | CEILING                                                           |
| CLR        | CLEAR                                                             |
| COORD      | COORDINATE                                                        |
| CONC       | CONCRETE                                                          |
| CONT       | CONTINUOUS                                                        |
| DIA Ø      | DIAMETER                                                          |
| DN         | DOWN                                                              |
| DWG        | DRAWING                                                           |
| EA         | EACH                                                              |
| ELEV, EL   | ELEVATION                                                         |
| EW         | EXIST                                                             |
| EW         | EXISTING                                                          |
| EXT        | EXTERIOR                                                          |
| EQ         | EQUAL                                                             |
| F          | FINISH                                                            |
| FEN        | FOUNDATION                                                        |
| FE         | FREE EXTINGUISHER                                                 |
| FF         | FINISH FLOOR                                                      |
| FF/E       | FINISH FLOOR ELEVATION                                            |
| FT         | FOOT                                                              |
| GA         | GAGE                                                              |
| GAL        | GALLON                                                            |
| H CR HORIZ | HORIZONTAL                                                        |
| HMV        | HOLLOW METAL                                                      |
| IBC        | INTERNATIONAL BUILDING CODE                                       |
| INV        | INVERT                                                            |

 DETAIL NUMBER  
SHEET WHERE DETAIL IS DRAWN  
SHEETS WHERE DETAIL IS TAKEN

 INDICATES DIRECTION OF CUTTING PLANE  
WALL SECTION OR ELEVATION NUMBER  
SHEET WHERE WALL SECTION OR ELEVATION IS DRAWN  
SHEETS WHERE WALL SECTION OR ELEVATION IS TAKEN

 INDICATES DIRECTION OF CUTTING PLANE  
BUILDING SECTION NUMBER  
SHEET WHERE BUILDING SECTION IS DRAWN  
SHEETS WHERE BUILDING SECTION IS TAKEN

 COLUMN GRID LINE

 DETAIL NUMBER  
SHEET WHERE DETAIL IS DRAWN

 KEYNOTE

— LIMIT OF WORK  
— EXISTING ITEM TO REMAIN  
- - - - - REMOVE OR SALVAGE EXISTING ITEM  
= PROVIDE ITEM OR INSTALL SALVAGED ITEM  
+ ELEVATION TARGET

1. WORK INCLUDED IN THIS CONTRACT SHALL CONFORM TO STATE, NATIONAL AND OTHER CODES AND ORDINANCES WHICH APPLY TO THIS PROJECT.
2. ITEMS AND COMPONENTS SHOWN ON THE DRAWINGS SHALL BE PROVIDED UNLESS NOTED AS EXISTING.
3. WORK INDICATED IS INCLUDED IN THE BASE BID UNLESS NOTED OTHERWISE.
4. WORK FROM GIVEN EMISSIONS AND LARGE SCALE DETAILS. DO NOT SCALE DRAWINGS.
5. VERIFY EXISTING CONDITIONS AND DIMENSIONS AND REPORT DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. PROCEED WITH THE WORK AFTER THE DISCREPANCIES HAVE BEEN RESOLVED BY THE OWNER.
6. DO NOT PENETRATE JOISTS, BEAMS OR OTHER STRUCTURAL MEMBERS.
7. AT ALL TIMES DURING THE CONSTRUCTION, MAINTAIN CONSTRUCTION SITE IN A NEAT, CLEAN AND SAFE MANNER.
8. OTHER THAN ENVIRONMENTAL PERMITS, OBTAIN ALL STATE AND LOCAL PERMITS THAT ARE REQUIRED FOR THE SATISFACTORY COMPLETION OF THE WORK. COMPLY WITH PERMIT APPROVAL CONDITIONS (REFER TO CIVIL NOTE 3 ON DRAWING C001).
9. DISPOSE OF AND/OR RECYCLE NON-HAZARDOUS CONSTRUCTION DEBRIS FROM THE PROJECT SITE. DEBRIS SHALL BE REMOVED FROM THE SITE AND AS REQUIRED BY THE CONTRACT, OBTAIN DISPOSAL PERMITS THAT ARE REQUIRED.
10. POWDER DRYER FASTENERS SHALL BE PROHIBITED FOR SUPPORT OF ARCHITECTURAL, MECHANICAL, OR ELECTRICAL COMPONENT SUPPORT WHEN LOADED IN TENSION.
11. CARE SHALL BE TAKEN TO PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. ALL DAMAGES RESULTING FROM THE CONTRACT WORK SHALL BE REPAIRED OR REPLACED AS APPROVED BY THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
12. OBTAIN APPROVAL FROM THE OWNER FOR THE SEQUENCE AND TIMING OF OPERATIONS PRIOR TO COMMENCING WORK.
13. WORK SHALL BE COMPLETED IN COMPLIANCE WITH INDUSTRY STANDARDS AND PERFORMED IN A WORKMANLIKE PROFESSIONAL MANNER.
14. COORDINATE WITH THE OWNER FOR EXISTING OWNER EQUIPMENT TO BE REMOVED AND RELOCATED.

ALTERNATE NO. 1: ADD ELECTRICAL COMPONENTS  
ALTERNATE NO. 2: DEDUCT HIGH-PERFORMANCE COATINGS  
ALTERNATE NO. 3: DEDUCT EPDM ROOFING  
ALTERNATE NO. 4: ADDITIONAL PLYWOOD SHEATHING

**DEPARTMENT OF DEFENSE, VETERANS  
EMERGENCY MANAGEMENT  
ARMY NATIONAL GUARD**

ET: 2 OF 21











