



**Anniston Army Depot  
Directorate of Public Works  
Engineering Division  
Anniston, Alabama**

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# **Statement of Work**

**Project No. QA66-20**

**Project Title: Sulfuric Acid Line Replacement Building 162U**

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## **STATEMENT OF WORK (SOW)**

### **Project No. QA66-20 Sulfuric Acid Line Replacement at 162U**

#### **1. OBJECTIVE**

- 1.1. Contractor shall provide all material, transportation, labor, equipment, coordination, planning, and supervision necessary to replace the Double Wall Sulfuric Acid Line at Building 162U as per original installation. All work shall be performed in accordance with the contract specifications, this statement of work, drawings, and technical requirements.

#### **2. CONTRACTOR'S POINT OF CONTACT**

- 2.1. The Contractor shall provide the Contracting Officer (KO) with a point of contact and a telephone number for the Government to make any arrangements needed. The KO will supply the Contractor with the name and telephone number of his/her designated Contracting Officer Representative (COR) and Contract Specialist. The KO, COR and Contract Specialist shall serve as the Contractor's point of contact with the government for this task order. The Contractor shall not seek direction or guidance with regard to this task order from anyone else but the designated KO, COR and Contract Specialist.

#### **3. PERIOD OF PERFORMANCE**

- 3.1. The period of performance for this project shall be **21 calendar days** from Notice to Proceed (NTP). All work to include time required to process any coordination for materials or utility outage requests must be scheduled to complete within this timeframe. Any modifications or extensions will be requested through the KO or representative for review and discussion.

#### **4. SUPPORTING DOCUMENTS**

- 4.1. Project Design Drawings.

#### **5. WORK TASKS**

- 5.1. All work carried out will conform to the latest edition of: The National Standard Plumbing Code and The International Building Code, and the Installation Design Guide for Anniston Army Depot.
- 5.2. Contractor shall remove and replace existing Double Wall Sulfuric Acid Line at Building 162U as per original installation in attached Drawing PID-09, PID-013 & M-8.
- 5.3. Material and all fittings shall be ½" Halar® ECTFE (Poly Ethylene Chlorotrifluoroethylene) surrounded with 2" Halar® ECTFE rated for transporting H<sup>2</sup>SO<sup>4</sup> (Sulfuric Acid). PVDF (Polyvinylidene Fluoride or Polyvinylidene Difluoride rated for transporting H<sub>2</sub>SO<sub>4</sub>) may be substituted for 2" Containment Line. All fittings supplied in the piping system (Pipe, fittings, valves, etc.) shall be from same manufacturer. Personnel installing piping system shall show proof of Factory Fusion Training (if field welding is required).

- 5.4. Lines shall be pressure tested to line's full pressure rating for one hour.
- 5.5. Line shall be reinsulated as per original installation in attached Drawing E-14 & E-36.
- 5.6. Old sulfuric lines shall be flushed and disposed of in Hazardous Waste container provided by ANAD.
- 5.7. Contractor shall re-plumb piping and insulation and heat tracing at Building for entrance and exit of sludge pump at 162AC. New 4" SCH 80 PVC shall be installed plumb and level. Install new Raychem (or equal) 120V 6 watts per foot (WPF) heat tracing, AP Armaflex insulation, (or equal) (see attachment), of the same thickness that was removed, and fitted aluminum jacketing with a minimum thickness of .016" shall be installed on all piping. Quantities for quoting purposes are: 21 ft. of 4" pipe with three ninety-degree bends, one forty-five-degree bend and three 4" flanges; Use 1" thick insulation for bidding. (See Drawing M-9)
- 5.8. Contractor shall re-plumb piping and insulation and heat tracing at Building 162A&A2. New 4" SCH 80 PVC shall be installed plumb and level. Install new Raychem (or equal) 120V 6 watts per foot (WPF) heat tracing, AP Armaflex insulation, (or equal) (see attachment), of the same thickness that was removed, and fitted aluminum jacketing with a minimum thickness of .016" shall be installed on all piping. Quantities for quoting purposes are: 10 ft. of 4" pipe with two crosses six flanges; 7 ft. 3" pipe with two flanges; five new plug valves shall be installed; Use 1" thick insulation for bidding. (See Drawing M-23A & 23B)
- 5.9. Contractor shall install insulation and heat tracing at Building 162A&A2. Install new Raychem (or equal) 120V 6 watts per foot (WPF) heat tracing, AP Armaflex insulation, (or equal) (see attachment), of the same thickness that was removed, and fitted aluminum jacketing with a minimum thickness of .016" shall be installed on all piping. Quantities for quoting purposes are: 18 in of 1" pipe; 14 ft. 2" pipe Use 1" thick insulation for bidding.
- 5.10. Contractor shall install insulation and heat tracing at Building 162M. Install new Raychem (or equal) 120V 6 watts per foot (WPF) heat tracing, AP Armaflex insulation, (or equal) (see attachment), of the same thickness that was removed, and fitted aluminum jacketing with a minimum thickness of .016" shall be installed on all piping. Quantities for quoting purposes are: 4 ft. of 10" pipe with one ninety-degree bend and one flange; Use 1" thick insulation for bidding.
- 5.11. Contractor shall install insulation and heat tracing at Building 162J&K. Install new Raychem (or equal) 120V 6 watts per foot (WPF) heat tracing, AP Armaflex insulation, (or equal) (see attachment), of the same thickness that was removed, and fitted aluminum jacketing with a minimum thickness of .016" shall be installed on all piping. Quantities for quoting purposes are: 20 ft. of 2" pipe with two ninety-degree bends and four forty-five-degree bends; Use 1" thick insulation for bidding.
- 5.12. Contractor shall construct and install removable insulation blankets on flow valves at Building 162N&P. Blankets measured approx. 8 dia. (for internal dim) x 18 in length. Verify by field measurements.
- 5.13. Contractor shall clean all areas affected by work and all debris shall be removed from the work areas and disposed into an ANAD provided dumpster.

## **6. REQUIREMENTS**

- 6.1. Contractor shall provide a draft DD 1354 minimum of 30 days prior to project completion to COR for Real Property Coordination. Final DD 1354 shall be submitted on or before project completion date to same.
- 6.2. All equipment and associated parts installed by the Contractor shall remain the property of the Government and shall at no time be removed from ANAD without approval.
- 6.3. Contractor shall prepare and submit with its proposal a critical path method schedule (preferably in Gantt chart or MS Project format) with target dates and milestones which shall, at a minimum, meet the above identified days for completion.

## **7. PROJECT SUBMITTALS**

- 7.1. Contractor shall provide one hard copy and one electronic copy of all submittals to the COR, courtesy copying Contract Specialist for review and approval prior to construction. All submittals shall be in PDF format as well as hard copies as required.
- 7.2. List of Submittals:
  - 7.2.1. Site Specific Safety Plan.
  - 7.2.2. Quality Control Plan
  - 7.2.3. Project Schedule.
  - 7.2.4. Warranty Provisions.

## **8. FINAL ACCEPTANCE**

- 8.1. Upon completion of the project, the Contractor must schedule a Final Inspection walkthrough with the COR to the satisfaction of the Government. This final project walkthrough must demonstrate that all contract work has been completed, including any deficiencies known to exist in accordance with the contract and scope. Once all contract work has been fulfilled, project acceptance will be granted.