



United States Department of Agriculture
Agricultural Research Service

STATEMENT OF WORK

Backflow Preventer Replacements

U.S. Arid Land Agricultural Research Center

Maricopa, AZ

Date: 6/9/2026

STATEMENT OF WORK

1.0 CONTRACT PROJECT:

- a. Project Number: TBD
- b. RPT 2.0 Number: FY26-011705
- c. Project Title: Backflow Preventer Replacements
- d. Project Location: U.S. Arid Land Agricultural Research Center
21881 N Cardon Ln, Maricopa AZ 85138

2.0 PROJECT CONTACT PERSONS:

- a. CONTRACTING OFFICER (CO):
NAME
USDA-ARS-PWA
Email: Tel. No.:
- b. CONTRACTING SPECIALIST (CS):
NAME
USDA-ARS-PWA
Email: Tel. No.:
- c. LOCATION MONITOR (LM):
Roger Clemo
USDA-ARS-PWA
2000 E. Allen Road, Tucson AZ 85719
Email: roger.clema@usda.gov Tel. No.: 520-330-1896
- d. ADMINISTRATIVE OFFICER (AO):
Joseph Garrett
USDA-ARS-PWA
21881 N Cardon Ln, Maricopa AZ 85138
Email: joseph.garrett@usda.gov Tel. No.: 602-303-4860
- e. CONTRACTING OFFICERS REPRESENTATIVE (COR):
Roger Clemo
USDA-ARS-PWA
2000 E. Allen Road, Tucson AZ 85719
Email: roger.clema@usda.gov Tel. No.: 520-330-1896
- f. AREA SAFETY AND HEALTH MANAGER
Ken Cushman
USDA-ARS-PWA
800 Buchanan Street Albany, CA 94710
Email: ken.cushman@usda.gov Tel. No.: 510-529-5921
- g. ENGINEERING PROJECT MANAGER (EPM)
Name
USDA-ARS-PWA
Email: Tel. No.:

3.0 **PROJECT DESCRIPTION:**

Need to have 8 – 6” Backflow Preventer Assemblies removed and replaced with new ones.

4.0 **PROJECT REQUIREMENTS:**

- a. Provide a standard commercial warranty against product defects and breakage and one year warranty on labor and other parts.
- b. Contractors shall provide and maintain all necessary guards, lights, barricades, etc., to protect persons, property, and materials in and around the site.
- c. As builds, shop drawing, Architectural or Engineered drawings
- d. Do not disturb hazardous materials and report condition immediately to the Contracting Officer's Representative (COR) regarding potentially hazardous conditions that are uncovered. Stop work in the area of the questionable material or condition until identification and direction is provided.
- e. The Contractor's work shall adhere to the criteria stated within these project requirements, drawings, and specifications. All construction shall comply with applicable federal, state, and local code requirements as well as current industry standards, (i.e., IBC, NEC, NSPC, NFPA, EPA, ASTM, GSA, AASHTO, etc.) and health and safety codes, in effect at the time of contract award.
- f. All work shall meet all pertinent Unified Facilities Guide Specifications (UFGS) and ARS 242.1M standards. UFGS available at <http://www.wbdg.org/ffc/dod/unified-facilities-guide-specifications-ufgs>. ARS 242.1M available at <https://www.afm.ars.usda.gov/ppweb/pps-and-manuals/>.

4.1 **Background & Site Description:**

Carl Hayden Bee Research facility

4.2 **Bid Schedule:**

Provide all labor, equipment and materials to perform this Statement of Work and Schedule of Items.

4.3 **Description of Work:**

- a. Demolition & Inspection
 - i. **Remove Assemblies:** Disconnect and extract 8 existing 6-inch backflow preventers.
 - ii. **Remove Fittings:** Disconnect and extract 3 existing 6-inch T-fittings.
 - iii. **Assess Conditions:** Inspect the surrounding piping and infrastructure.
 - iv. **Report Costs:** Document and submit any unforeseen expenses needed for the new installation.
- b. New Installation

- i. **Install DCDA Assembly:** Supply and place 7 new 6-inch Double Check Detector Assembly.
 - Model/Spec: 709 OSY-CFM (outside screw and yoke valves, cubic feet per minute bypass meter).
 - ii. **Install T-Fittings:** Supply and connect 3 new 6-inch T-fittings to 3 of the new DCDA assembly.
 - iii. **Install Backflow Preventer RPZ Assemblies:** Supply and place 1 new 6-inch reduced pressure zone (RPZ) backflow preventer assemblies.
 - Model: Watts LF909-NRS-FS (lead-free, cast iron).
 - Features: Non-rising stem (NRS) shutoff valves and integrated flood sensors.
- c. Site Housekeeping
- i. **Daily Cleaning:** Sweep and tidy the workspace at the end of every shift.
 - ii. **Waste Disposal:** Haul away and eliminate all job-related trash daily.
 - iii. **Material Staging:** Neatly organize and safely store all leftover materials together.
- d. Project Communication
- i. **Frequency:** Submit progress reports every single day.
 - ii. **Recipients:** Deliver updates directly to one of the following personnel:
 - Facility Operations Specialist/Location Monitor – Roger Clemo
 - Designated Representative – Mario Aguilera

4.4 Government Furnished Equipment\Services

- a. The government will furnish a reasonable amount of electricity and water.

5.0 GENERAL REQUIREMENTS:

- 5.1 **Permits:** Where governing regulations and imposed codes and standards require notices, permits, licenses, inspections, tests, and similar items or actions in order to lawfully proceed with the required work, the Contractor shall obtain items and take those actions in accordance with the regulations of the governing authority. The costs of such permits, licenses, inspections, etc., are the obligation of the Contractor.
- 5.2 **Existing Installations / Demolition:** Contractor shall modify existing installations as needed to accommodate the new installation. Contractor shall coordinate modification of existing installations with Government. All disturbances of existing systems shall be thoroughly coordinated with the Government to prevent disturbances that might jeopardize on-going operations and research. Government reserves the right to retain any equipment / materials removed as part of the scope of work. The contractor shall coordinate any equipment / materials to be retained with the Government prior to starting demolition operations. The contractor shall legally dispose of any materials removed that will not be retained.
- 5.3 **Installation:** It shall be the responsibility of the Contractor to complete work in accordance with Federal, State, and Local Code Standards. Additional procedures and materials may be required than is indicated herein. If any item specified herein conflicts with the applicable codes and recommendations, the Contractor shall bring it to the attention of the Contracting Officer Representative for immediate resolution.

- 5.4 Submittals:** Provide manufacturer's descriptive literature/shop drawings for all materials to the Location Monitor for review. The descriptive literature shall be annotated/ highlighted to show its conformance with contract requirements. Submittals are required for new materials and will be stamped and/or signed by the general contractor prior to submission to the Government. The contractor is responsible for any costs incurred for equipment ordered without prior approval.
- 5.5 Quality Control:** The work performed under this contract shall be subject to continuous audit by the Location Monitor. Quality control is the exclusive responsibility of the Contractor.
- 5.6 Protection of Work and Property/Safety Requirements:**
- a. Contractor shall furnish a Site-Specific Safety Plan (SSSP) or Accident Prevention Plan (APP) ten days after contract award. SSSP / APP shall be approved by the Government before construction work commences.
 - b. The Contractor shall protect the work, the site, and all existing property and structures within the limits of the construction activities or that may be affected thereby until acceptance of the work. Any damage to property shall be repaired at the Contractor's expense, to pre-damaged condition to the satisfaction of the Location Monitor.
 - c. Safety and health matters, as they relate to the work, are the exclusive responsibility of the Contractor. The Contractor shall furnish, erect, and maintain barricades, warning lights, signs, guards, or take other precautions as may be required by law or local authorities of the protection and security.
 - d. The contractor is responsible for verifying location of any underground utility and is responsible for any damaged caused to such utilities.
- 5.7 Temporary Facilities:**
- a. Temporary utilities (water and electricity) may be furnished to the Contractor by the Government, if so requested. The Contractor shall maintain and protect all such utilities during the course of construction and shall repair or replace any items damaged through its own negligence.
 - b. Should the Contractor require any power or utility shutdowns during construction, the Contractor shall obtain approval for such shutdown from the Location Monitor twenty-one (21) working days prior to the need.
- 5.8 Materials and Equipment:**
- a. The material and equipment to be furnished under these contract documents shall be the standard products of manufacturers regularly engaged in the production of such materials and equipment and shall be the manufacturer's latest standard design.
 - b. All materials and equipment to be incorporated in the work shall be handled and stored by the manufacturer, fabricator, supplies and Contractor before during and after shipment in a manner to prevent any injury, theft, or damage of any kind to the materials and equipment. All materials and equipment furnished by the Contractor shall be subject to inspection and approval by the CO/Location Monitor.
 - c. Government will not furnish any labor or equipment to unload or move materials or supplies.

- 5.9 Cleanup:** The construction site shall be kept clean and free of debris at all times. Restore areas disturbed as nearly as possible to the original appearance and condition. Upon completion of the project, and prior to final inspection, the Contractor shall remove from the premises all unused material, trash, and debris resulting from the work to the satisfaction of the Location Monitor.
- 5.10 Warranty:**
- a. Submit data concerning the Provided one year warranty on labor and other parts, including the warranty periods (dates), and warranty contacts with names, addresses and telephone numbers.
 - b. Extended Equipment/Product Warranties: Obtain and furnish to the Contracting Officer all written warranties for equipment. The warranty period shall begin on the same date as project acceptance and shall continue for the full/product warranty period. The warranties shall be fully executed and delivered to the Contracting Officer prior to final acceptance of the facility.
- 5.11 Final Payment/Contract Closeout:** The following documents are REQUIRED PRIOR TO FINAL PAYMENT (other documents may also be required):
- a. General contractor's minimum one (1) year warranty on work.
 - b. Manufacturer (years) warranty on equipment
 - c. Operation and Maintenance Data
 - d. Release of liens.
 - e. Final Invoice
- 6.0 PROJECT SCHEDULE:** The Contract time for this project is 90 calendar days from Notice to Proceed. Contractor shall install new system prior to demolishing existing AC and coordinate switchover with Location Monitor.
- 7.0 Figures**

Figure 1. Main Building Plans for Location

Yellow highlights indicate locations of backflow preventers.

