

STATEMENT OF WORK

CORROSION PROTECTION COATING FOR ABOVEGROUND WATER PIPELINE HOUSTON NATIONAL CEMETERY, HOUSTON, TEXAS 77038

- A. The Contractor: Shall furnish all labor, material, equipment, and supervision to remove the existing corroded coating from the aboveground irrigation water distribution main pipeline, flanges, fittings, and appurtenances; prepare the surfaces and apply new corrosion protection coating system at Houston National Cemetery in accordance with the contract requirements specified below and per applicable industry standards and codes.
- B. The Work: The Work shall include, but shall not be limited to the following (not necessarily in the order indicated):

CLIN 1: Refurbish Pipe Coating

1. The Contractor shall prepare all metal surfaces of the aboveground steel piping including removal of existing paint system through near-white blasting in accordance with Society of Protective Coatings' standard SSPC SP 10 to make the surfaces acceptable for the application of the three-part exterior coating system. These facilities were constructed in 1992 and recent testing has confirmed that the existing coatings contain no lead-based or asbestos materials.
2. Disassemble five (5) metal pipe restraint straps from concrete pipeline sleepers (aka saddles) in order to refinish pipe under straps, as well.
3. The Contractor shall be required to work with various blast media materials such as garnet (black beauty) walnut shell, glass bead, and steel shot. This media shall be used on metals such as steel and aluminum. The Contractor shall contain and capture all blast media. Dispose of paint debris and spent blast media.
4. Recoat all exposed metal surfaces with the following three-coat system:
 - a. Primer: Inorganic zinc-rich, epoxy primer.
 - b. Intermediate and stripe: Epoxy polyamide paint.
 - c. Top coat: High-solids formulation polyurethane paint.

Exterior surfaces to be painted are indicated in the attached pictures and well piping schematic.

5. All surfaces that are not to be painted shall be masked and covered to prevent paint splatters, drops, etc. from contacting the surfaces. The two (2) sand separators and blue expansion tank are not included in the scope for recoating. The Contractor shall take special and extreme precautions to protect the pump motor, gauges, and electronics from damage or infiltration of paint or abrasives.
6. Take all necessary precautions to avoid paint fallout beyond boundary of Owner's property. All costs associated with drifting spray, fallout, or other damage caused by

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coatings or abrasives leaving the site and restoration of site conditions, including tilling, leveling and reseedling of damaged areas shall be solely borne by the Contractor.

7. All work shall be in compliance with paint specification Section 09 97 13, "*Exterior Coating of Steel Structures*" (attached).

CLIN 2: Pipe Support Stands and U-Bolt Anchors

1. The Contractor shall saw cut and remove top of five (5) concrete support block saddles.
2. Provide and install new welded and coated steel pipe support stands; anchor bolt to existing concrete blocks.
3. Provide and install new hot-dipped galvanized u-bolt pipe anchors with high-density thermoplastic semi-rod pipe support per the attached drawings. The thermoplastic compressive strength shall be no less than 15 ksi, tensile strength of 9.4 ksi. U-bolt shall have cross-linked polyolefin applied to shank (any part in contact with water pipe).

CLIN 3: Repair Sand Separator

1. After recoating, the Contractor shall repair any pin-hole leaks in the sand separators with a polyurethane fiberglass wrap system that will seal and hold at least to 200 psi. There is currently one obvious leak on one of the separators. Once cured, apply a topcoat of the same paint as used on the rest of the recoating.

C. General Conditions:

1. Remove, cut, alter, replace, patch and repair existing work as necessary to install new work. Existing work to be altered or extended and that is found to be defective in any way, shall be reported to the COR before it is disturbed. Materials and workmanship used in restoring work shall conform in type and quality to that of original existing construction, except as otherwise shown or specified.
2. Thoroughly clean up the work area at the end of each day's work including any mud or dirt tracked onto Cemetery streets, and at completion of the project. Leave premises clean and free of waste, scrap, used equipment, or other material intentionally or incidentally delivered to the site by Contractor or Contractor's personnel. Haul away & dump debris and waste to an approved disposal site.
3. The Contractor shall preserve and protect all structures, equipment, and vegetation (such as trees, shrubs, and grass) on or adjacent to the work site not to be removed and do not unreasonably interfere with the work required under this contract. If any limbs or branches of trees are broken during contract performance, or by the careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with a tree-pruning compound as directed by the Contracting

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Officer.

4. The Contractor shall protect from damage all existing improvements and utilities at or near the work site and on adjacent property of a third party, the locations of which are made known to or should be known by the Contractor. The Contractor shall repair any damage to those facilities, including those that are the property of a third party, resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damage promptly, the Contracting Officer may have the necessary work performed and charge the cost to the Contractor.
5. All utilities required for the continuous operation of all existing facilities shall be maintained in service at all times except when disruptions are needed. The contractor shall inform the Cemetery Director and the Contracting Officer (CO) in writing for such disruptions and obtain approval from the CO in writing at least 2 weeks prior to such need. When option exists, implement options to minimize interruption of services to the facilities.
6. The Contractor shall coordinate with the Cemetery Director for parking, material storage, temporary portable restroom facilities, and any other needs for the work. Public access to the National Cemetery shall not be impaired.
7. The Contractor shall assume sole responsibility for safety of all persons on or about the construction site, in accordance with applicable laws and codes. Guard all materials in accordance with the safety provisions according to OSHA and Associated General Contractors of America (AGC).

D. Standards of Employee Conduct:

1. The National Cemetery Administration honors veterans with a final resting place and lasting memorials that commemorate their service to our Nation. National Cemeteries are National Shrines. The standards of work, appearance, and procedures performed by the Contractor at this Cemetery shall reflect this Nation's concern for those interred there. Due to the sensitive mission of the Cemetery, Contractor personnel must always exercise and exhibit absolute decorum, composure, and stability when on Cemetery grounds.
2. Contractor personnel shall be required to adhere to the following standards of dress and conduct, as briefly mentioned here, while performing work in the National Cemetery. These standards and regulations are enforceable under Title 38, U.S.C., Part I, Chapter 9, Section 5901.
3. Clothing shall be presentable and suitable to the work while maintaining proper appearance and decorum indicative for a National Shrine. Uniform shirts and hats are preferred. Clothing shall be clean and cleanliness and personal hygiene are imperative. T-

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shirts and/or tank tops as outer garments are prohibited. Protective/safety clothing and shoes shall meet or exceed OSHA and state requirements.

4. Behavior and language must be appropriate, reverent, and respectful at all times when on Cemetery grounds.
 5. Eating and drinking (except water) is prohibited in the work areas and within sight of a committal shelter during a service.
 6. Use of intoxicating beverages, any tobacco products, and illegal drugs on the Cemetery premises is strictly prohibited.
 7. Contractor personnel shall not lean, sit, or stand on or against headstones or monuments. No tools, equipment or other items will be placed or leaned on headstones or monuments.
 8. The Contractor shall be responsible for maintaining satisfactory standards of personnel conduct and work performance and shall administer disciplinary action as required. The Contractor is expected to remove any employees from the Cemetery for cause, to include, but not limited to, safety violations, other misconduct in performance of duty under these specifications and/or conduct contrary to the best interests of the Government. If the Contractor fails to act in this regard, or the reason for a removal is immediately required to protect the interests of the Government, the COR may direct the removal of an employee from the premises. Contractor objections to any such action will be referred to the Contracting Officer (CO) for final resolution; however, the Contractor will first immediately comply with COR direction pending any CO final resolution at a later time or date. The Contractor will not be due any type of compensation for their costs incurred as a result of an employee being removed for cause; unless the removal is directed by the COR, and is later found invalid and/or unreasonable by the Contracting Officer.
- E. Time of Completion: The project shall be completed within 60 calendar days after Notice to Proceed. Contractor shall submit a detailed project schedule to the COR at most five (5) business days after Award. Work outside of the Cemetery's normal operating hours of 8:00 am to 4:30 pm shall be permitted only by approval of the COR and only in order to meet the Period of Performance.
- F. Code Compliance: All work shall be performed in accordance with National, State, and Local Codes including the International Building Code (IBC), the International Mechanical Code (IMC), and the International Plumbing Code (IPC).
- G. Contractor Quality Control:
1. The Contractor shall guarantee that all work done under this contract shall be free from defaults and no faulty materials or workmanship with a five (5)-year warranty. The Contractor hereby agrees to repair deficiencies within the specified time frame by the

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direction of the CO at Contractor's own expense and shall be corrected to the satisfaction of the Government.

2. Contractor Supervisor: A competent and experienced English-speaking Contractor Supervisor shall be provided by the Contractor whenever work is being performed, other than trash and debris pick-up.
 3. The Contractor Supervisor shall review and approve submittals, ensure all specifications are being met, inspect the quality of work performed, ensure contract work does not conflict with ceremonies and funerals, ensure employees are adequately supervised and proper conduct maintained, and certify the completed work for payment and other purposes.
- E. Submittals After Award: Submit manufacturer's literature and specifications for the all components, equipment, and materials used to perform the work to the COR for review and approval.
- G. Plans/details:
- (1) Attachment 1, Pictures
 - (2) Attachment 2, Well Piping Schematic
 - (3) Attachment 3, Specification Section 09 97 13, "*Exterior Coating of Steel Structures*"
 - (4) Attachment 4, Pipe Support Drawings (CLIN 2)
- H. POC: The Contracting Officer's Representative (COR) for this project is Scott Weber, Work Leader, Houston National Cemetery.
- I. Project completion: The project site shall be protected and/or restored to a condition equal to that existing prior to the commencement of work. Upon completion of contract, deliver work complete and undamaged. Existing work disturbed or removed as a result of performing required new work, shall be patched, repaired, reinstalled, or replaced with new work, and refinished and left in as good condition as existed before commencing work.

END OF STATEMENT OF WORK

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ATTACHMENT 1
PHOTOGRAPHS OF EXISTING CONDITIONS



Figure 1: Western limits of work
(protect circled pump motor from damage)



Figure 2: Distribution piping
(protect water meter, center)

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PHOTOGRAPHS OF EXISTING CONDITIONS



Figure 1: Eastern limits of work
(blue expansion tank and circled
sand separator not part of scope)



Figure 2: Eastern limits of work
(where pipe dives underground)

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ATTACHMENT 1
PHOTOGRAPHS OF EXISTING CONDITIONS

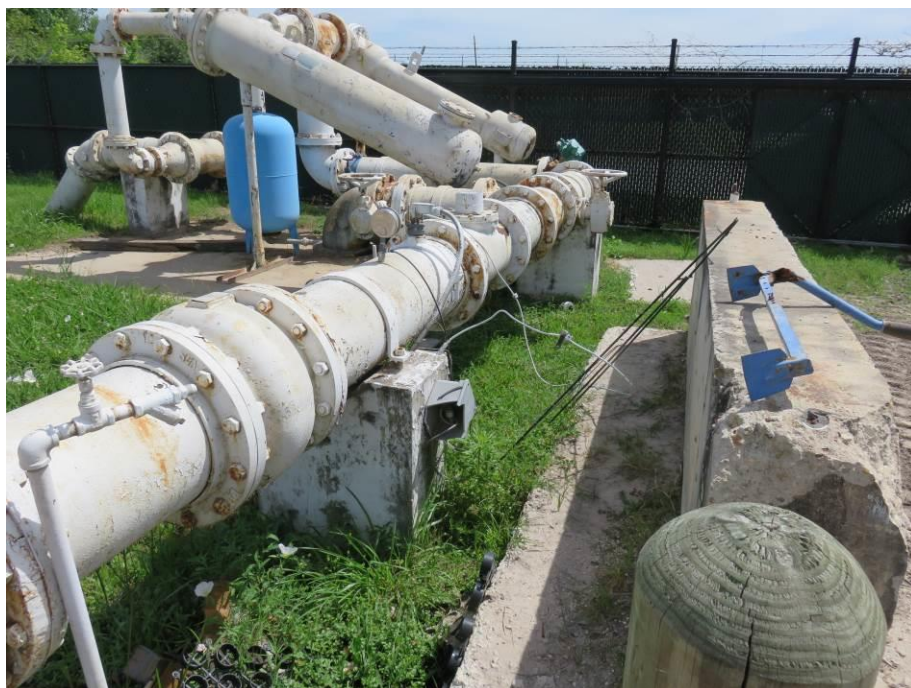


Figure 1: Opposite view of western limits of work



Figure 2: Opposite view of eastern limits of work
(circled sand separator not part of scope)

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ATTACHMENT 2

WELL PIPING SCHEMATIC

