

**SECTION 00 11 21**  
**DESIGN/CONSTRUCT FOR INSTALLATION IRRIGATION IRON FILTRATION SYSTEM**  
**(PROJECT CONTROL NO.: 843CM3020)**  
**FLORENCE NATIONAL CEMETERY**

**A. PART I - GENERAL**

**A1. Scope of Contract**

Provide all labor, materials, tools and equipment, and design-build services necessary for design and construction of a project described here in other specific tasks as further defined by this request for proposal (RFP).

1. The Florence National Cemetery currently utilizes a groundwater well to supply water for irrigation for the portion of the cemetery located on the south side of East National Cemetery Road. The well has a maximum yield of 150 gpm. Water quality tests on samples from this well indicate a range of Total Iron of 2.18 – 3.53 ppm and pH of 5.2 – 6.0. There is also a presence of ferrous iron in concentrations of 1.51 – 2.48 ppm. This level of iron in the irrigation water is causing staining of the headstones.
2. The irrigation pump, which has incorporated a Cycle Stop valve and a hydropneumatic tank, is cycling every 5-6 minutes in order to keep a constant pressure on the system. This level of cycling indicates the potential of a mainline pipe leak.
3. This project will require the following:
  - a. Conduct mainline pressure testing to determine where/if current leakage is occurring and make necessary repairs.
  - b. Remove Cycle Stop valve and tank and install new VFD control system on the irrigation well pump.
  - c. Design and install a treatment system (with enclosure) to treat the irrigation water to a level that precludes the staining issues.

**A2. Definitions**

- A. Design-Build (DB) as defined by the Department of Veterans Affairs (VA) is the procurement by the Government, under one contract, with one firm or joint venture (JV) for both design and construction services for a specific project.
  1. Contracting Officer: The services to be performed under this contract are subject to the general supervision, direction, control and approval of the Contracting Officer.

2. Project Manager: The Contracting Officer's representative responsible for administering contracts under the immediate direction of the Contracting Officer.
  3. Resident Engineer: The Contracting Officer's authorized representative at the construction site. When more than one Resident Engineer is assigned to a construction project one is designated as being in-charge and is called the "Senior Resident Engineer". The Resident Engineer is responsible for protecting the Government's interest in the execution of the construction contract work. His duties include surveillance of all construction work to assure compliance with the contract documents, interpretation of the contract documents, approval of changed work, approval of all submittals, samples, shop drawings, etc. The Resident Engineer may issue change orders to the Contractor within the limitations set forth in his delegation of authority from the Contracting Officer.
  4. Design/build Contract: This term, as used herein, refers to the Contract(s) to perform the design and construction of the project.
  5. Contractor: This term, as used herein, refers to the contractor under this contract or the DB team.
  6. AE: This term, as used herein, refers to the Architect-Engineer firm(s) that are a part of the DB team, also referred to as DB/AE.
  7. RFP/AE: The firm(s) directly hired by the National Cemetery Administration (NCA) for the preparation of the RFP Documents and to provide other technical assistance to the NCA.
- B. Selection Procedure - During the review of offers the Contracting Officer may ask for additional information. The NCA may initiate action to award a contract at any point after review of the offers. Therefore, offers should reflect the offeror's best terms both from a technical and cost standpoint.