

SECTION 01010

PROJECT SUMMARY

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Summary of the Work
- B. Project Time
- C. General Requirements

1.02 SUMMARY OF THE WORK

- A. This project consists of Painting and Rehabilitation of the existing ground level water storage tank. This is a NO-PLANS contract.
- B. General Tank Information:
 - 1. Original Tank Construction in 1975 with modifications to tank in 1985.
 - 2. Tank height of 32 feet.
 - 3. Tank diameter of 60 feet.
 - 4. Tank capacity of 666,000 gallons.
 - 5. Tank material: steel
 - 6. Tank foundation: concrete ring wall
 - 7. Interior access: 2 – 24” manways. One at ground level and one located eight feet above ground level.
 - 8. Roof hatch: 24” square opening.
 - 9. Exterior and interior ladders are in place.
 - 10. Exterior tank level indicator.
 - 11. Tank is vented via a roof vent.
 - 12. 31 “C” channels beams support the roof which run from a center post to “L” brackets welded to the shell wall.
 - 13. Accessible by gravel roadway. No structures are within sight distance of the tank.
- C. Tank Work Tasks
 - 1. Drain and clean water tank interior.
 - 2. Prepare and paint interior of steel tank utilizing a painting system of zinc rich primer and high solids epoxy.

3. Prepare and paint exterior steel tank using a zinc/urethane/fluoropolymer paint system (Base Bid) or a zinc/epoxy/urethane paint system (Deductive Alternate Bid).
4. Prepare and paint exterior exposed concrete ring wall with a modified waterborne acrylate paint system.
5. Sealing of all seams at the interior roof to rim angles.
6. Provide and install confined space entry signs and 2 manway hatches and one roof hatch.
7. Remove and replace all bolts, washers and nuts with new stainless steel hardware on the two (2) existing manways. Install new gaskets for manways.
8. Repair and calibrate the existing tank level indicator including replacing cable and float.
9. Remove the existing 6-inch overflow flap valve. Extend the overflow pipe horizontally from the tank a distance of three (3) feet with a new 6-inch steel pipe. Provide a 6-inch flange on the end of the relocated overflow and a new 6-inch flap valve on the end of the flange. Provide a stainless steel 24-mesh screen between the pipe flange and the flap valve to prevent rodent entry.
10. Provide a 3' x 3' x 4-inch thick reinforced concrete splash pad beneath the end of the relocated overflow pipe.
11. Provide new 42-inch tall handrails around the roof hatch. Handrails shall extend a distance 4 feet either side of the edge of the hatch. Overall handrail length dimension shall be 4' x 8' x 4' around the hatch opening.
12. An allowance for welding repairs to the tank where directed by the Engineer and approved through Work Change Directive by the Owner.
13. An allowance for pit sealing and seam sealing (excluding tank roof rim) to the tank where directed by the Engineer and approved through Work Change Directive by the Owner.
14. Tank sterilization upon completion of the painting.
15. Mobilization and furnishing of performance and payment bonds.
16. Final site cleanup.

1.03 PROJECT TIME

- A. The project time shall be 80 consecutive calendar days for Substantial Completion and 90 consecutive calendar days for Final Completion to complete the work as shown on the Contract Documents.

1.04 GENERAL REQUIREMENTS

- A. Smoking and Fire Precautions: No smoking, fire, or use of any fire or explosion producing tools or equipment shall be permitted on the premises or at any locations where such may endanger said premises or the current operations thereon.

- B. **Manufacturers Qualifications:** The manufacturers of all materials and equipment used must be reputable and regularly engaged in the manufacture of the particular material or equipment for the use and service to which it will be subjected.
- C. **Contractor Shall Pay for All Laboratory Inspection Service:** All materials and equipment used in the construction of the project shall be subject to adequate inspection and testing in accordance with accepted standards. The laboratory or inspection agency shall be selected by the Contractor and approved by the Engineer and/or Owner. Contractor to pay for all laboratory inspection services as a part of the Contract. Submit all material test reports to the Owner in triplicate.
- D. **Compliance With State and Local Laws:** Comply with all applicable requirements of state and local laws and ordinances to the extent that such requirements do not conflict with federal laws or regulations.
- E. **Protection of Public and Private Property:** Take special care in working areas to protect public and private property. The contractor shall replace or repair at his own expense any damaged structures or vehicles damaged by the painting work and all plantings, including grass or sod on the site of the work. Leave the site in original or better condition after all cleanup work has been done.
- F. **Markers:** Preserve all USGS, TVA, State of Tennessee, Maury County property markers and private markers. Do not remove or disturb any such markers without prior approval from the Owner. Any removal and replacement of such markers shall be at the expense of the Contractor.
- G. **Non-discrimination:** The Contractor agrees to hire qualified persons without regard to race, creed, color, sex, or national origin for the performance of the work specified in this contract.
- H. **Approved Chemicals:** All chemicals used during project construction or furnished for project operation, whether herbicide, pesticide, disinfectant, polymer, reactant, or of other classification, must show approval of either EPA or USDA. The use of all such chemicals and the disposal of residues shall be in strict conformance with instructions
- I. **Preservation of Existing Vegetation:** Take reasonable care during construction to avoid damage to vegetation. Where the area to be excavated is occupied by trees, brush, or other uncultivated vegetable growth, clear such growth from the area, and dispose of it in a satisfactory manner. Leave undisturbed any trees, cultivated shrubs, flowers, etc., situated within public rights-of-way and/or easements through private property but not located directly within excavation limits. Transplant small ornamental trees, cultivated shrubs, flowers, etc., located directly

within excavation limits so they may be replaced during property restoration operations. Do not remove or disturb any tree larger than 6 inches in diameter without the permission of the Engineer. Take special precautions (including the provision of barricades and the temporary tying back of shrubbery and tree branches) for the protection and preservation of such objects throughout all stages of construction; the Contractor will be held liable for any damage that may result to said objects from excavation or construction operations. Trim any limbs or branches of trees broken during construction operations with clean cut, and paint with an approved tree pruning compound. Treat tree trunks receiving damage from equipment with a tree dressing.

- J. Utilities: The Contractor is to contact the Owner of all underground utilities before beginning construction in the area. Contractor shall determine exact location of all existing utilities prior to beginning construction in accordance with *State of Tennessee, Title 65 – Public Utilities and Carrier, Chapter 31 Underground Utility Damage Prevention Act*. Carefully protect from damage all utilities in the vicinity of the work at all times. If it is necessary to repair, remove, and/or replace any such utility in order to complete the work properly, do so in compliance with the rules and regulations of the particular utility involved. Any such work shall be considered incidental to the construction of repairs of utility lines, and no additional payment will be allowed therefore.

PART 2 - PRODUCTS

N/A

PART 3 - EXECUTION

N/A

END OF SECTION