

SECTION 01010

PROJECT SUMMARY

PART 1 - GENERAL

1.01 SECTION INCLUDES

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

1.02 SUMMARY OF THE WORK

- A. This project consists of the construction of a new poured in place concrete clearwell; two (2) filter influent pumps with controls; a pre-fabricated pump building with two (2) new high service pumps and controls; relocation of existing chemical feed equipment (chlorine and fluoride) from old location into the new pump building; yard piping; site grading; Electrical work associated with new equipment and all other related work for a complete project. Contractor shall coordinate with Chemical Supplier for delivery of a caustic feed system and a 110 gallon bulk storage tank to replace the existing bulk tank for fluoride.

1.03 EXECUTION AND COORDINATION OF THE WORK

- A. It is intended that the work covered by this Contract be done so as to cause minimum interference with the normal operation of the existing wastewater treatment plant. The Contractor shall organize and schedule his work so as to keep facilities in operation during the construction period insofar as is consistent with the nature of the construction work to be performed.
- B. The Contractor shall have sufficient materials, equipment, labor and supervision available to accomplish the work required in the time allocated for any shutdown.
- C. Specific coordination items are listed for the Contractor's benefit.
 - 1. Successful start-up of the new water treatment plant is necessary prior to taking the existing water treatment plant pumps out of service.
 - 2. Coordinate with American Development Corp., 888-542-8561 for delivery and set-up of liquid caustic feed system.
 - 3. Coordinate with American Development Corp., 888-542-8561 for change out of bulk fluoride tank. The existing tank will not fit into High Service Pump Room.

1.04 WATER AND UPLIFT

- A. The Contractor shall by the use of well points, pumps, or other approved methods, prevent the accumulation of water in excavated areas. The Contractor shall also provide for dewatering areas adjacent to structures to prevent uplift during construction operations. The Contractor will be held responsible for any damage due to uplift of such structures or lines and to existing structures during construction operations.

1.05 SUBSURFACE CONDITIONS

- A. Neither the Owner nor the Engineer will be held responsible for subsurface conditions. The Contractor shall make his own determination concerning the quantities of rock and ground water and any other subsurface conditions prior to bidding.
- B. A Geotechnical Engineering Study titled, Geotechnical Report for the New Clearwell Structure for the Mason WTP in Mason, Tipton County, Tennessee (ESE Project No. 98277) prepared by Earth Science Engineering, LLC. is included as an Appendix to the specifications. The Contractor shall determine the adequacy of the Study. Should the Contractor determine further subsurface investigation to be necessary to complete the work, it shall be his responsibility to secure the additional work.

1.06 PROJECT TIME

- A. Final completion for this project is set at 165 calendar days after the date the Contract Time commences.

1.07 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 water pipes, power and communication lines, or other public utilities, roads, curbs, gutters, sidewalks, drain pipes, ponds or pond structures, sewer drainage ditches, all properties and fixtures (both permanent and temporary) fences, 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, and State 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. Pavement Repair and/or Replacement: Whenever pipe trenches are cut across or along existing pavement or shoulders, backfill same and restore traffic over the cuts as quickly as possible by constructing a temporary surface with twelve (12) inches of Class A, grade D crushed stone. Add material and otherwise maintain such surface until the permanent pavement is restored by the Contractor or until the entire project is accepted.
- J. 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.
- K. Catalogue Data for Owners: Provide duplicate, complete, bound sets of a compilation of catalog data of each manufactured item of mechanical and electrical equipment used in the work, and present this compilation to the Engineer for transmittal to the Owner before payment of more than ninety percent (90%) is made. Include descriptive data and printed installation, operating, and maintenance instruction (including a parts list for each item of equipment) Provide a complete double index as follows:
 - 1. Listing the products alphabetically by name.
 - 2. Listing alphabetically the names of manufacturers whose products have been incorporated in the work, together with their addresses and the names and addresses of the local sales representative.
- L. Operation and Maintenance Instruction to Owner: Where the specifications for specific equipment require that a factory service representative provide operation and maintenance instruction to the Owner for that equipment, this service is to be performed by prior arrangement with the Owner after and in addition to the manufacturer's instructions to the Contractor for installation and start-up. The

individual performing the instruction to the Owner shall be trained and/or certified by the manufacturer as its authorized operation, maintenance, and service specialist. If the said specialist is not a regular full-time employee of the manufacturer, the specialist's qualifications shall be submitted to the Owner for review and approval prior to scheduling the site visit for instructions to the Owner.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION