

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 chemical feed building including new chemical feed equipment and all related building appurtenances. The scope includes the relocation of existing chemical feed equipment from the existing chemical feed area and re-establishment of this chemical feed equipment into working order. Specific chemical feed equipment to be relocated includes:
 - 1. Lime Feeder and Solution Tank
 - 2. Fluoride Feeder and Solution Tank and Scales
 - 3. Phosphate Metering Pump and 75 gallon Solution Tank

New chemical feed equipment includes a Sodium Hypochlorite Feed System. This system will be provided and installed by a local chemical supplier. This equipment shall not be part of this Construction Contract.

Project includes installation of an Owner provided aerator and installation of associated influent and effluent piping and electrical service. Contractor shall replace the existing 1-1/2 Hp 208 V. Induced Draft Blower motor with a 1-1/2 Hp 230-460 V Induced Draft Blower motor. The Contractor shall replace the 6 Blade Fan when he replaces the motors.

Electrical work associated with new equipment is an integral component of the project scope. A Manual Transfer Switch has been designed for emergency power hook-up. It is a deductive alternate and will be considered by the Owner based on the cost.

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 water 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. Contractor may choose to schedule installation and satisfactory start-up of the aerator prior to demolition of the existing aerator as a means of keeping the Water Treatment Plant in operation.
 - 2. Contractor shall notify ADC when chemical building is ready for installation of the sodium hypochlorite system.
 - 3. Contractor shall coordinate relocation of existing chemical feed equipment with Owner. Relocation shall be at Owner's convenience.
 - 4. All work is believed to be capable of being accomplished without taking the clearwell out of service. This includes core drilling the clearwell. Contractor shall not let the concrete coupons fall into the clearwell.

1.04 PROJECT TIME

- A. Final completion for this project is set at 150 calendar days after the date the Contract Time commences.

1.05 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 of Tennessee 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.
- I. Department of Transportation Permits: The Owner shall secure any permits and provide bond as required by the Tennessee Department of Transportation or Benton County, Tennessee for the installation of permanent facilities on highway rights-of-way. All such work shall be coordinated with and be subject to the approval of the Department of Transportation.
- 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.

M. Drawings of Record: Provide a complete, up-to-date record set of blueline prints, which shall be corrected daily to show every change, and the approved shop drawings. Keep this set of prints at the job site and use only as a record set. Turn the set over to the Engineer upon completion of the project. The Contractor shall, prior to request for final payment, supply the Owner with a set of as-built drawings of the project. These drawings shall be on Mylar film, of clear reproducible quality, and shall indicate the location of the gas line and all appurtenances, and shall include dimensions to the centerline of the pipe and each appurtenance. The Engineer shall supply the Contractor at the beginning of the project a set of construction drawings, which may be used for modification to create as-built documents. The drawings shall be delivered to the Engineer and verified before submittal to the Owner.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

Not Used

END OF SECTION