

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 modifications and improvements to the Clements HS WWTP. Those modifications and improvements include:
 - 1. New Influent Screening Equipment,
 - 2. New Effluent UV Disinfection Equipment,
 - 3. WWTP Improvements including:
 - a. Removal of existing piping, aeration equipment (piping, diffusers and blowers), and pumps in the equalization basin.
 - b. Supply and install new piping and air diffuser system, blower and pumps in the equalization basin.
 - c. Removal of existing piping, aeration equipment (piping, diffusers and blowers), and pumps in the aeration basin.
 - d. Supply and install new piping and air diffuser system, blower and pumps in the aeration basin.
 - e. Removal of existing piping, airlifts and weir trough from clarifiers.
 - f. Supply and install new piping, airlifts and weir trough for clarifiers.
 - g. Removal of tertiary filtration system.
 - h. Convert filtration basin into an aerobic digester. Supply and install new wall, digester piping, decant mechanism and aeration system in new aerobic digester.
 - i. Removal of existing effluent pumps and associated effluent piping.
 - j. Supply and install new effluent pumps, associated effluent piping and aeration system.
 - 4. Electrical modifications including changing from single phase power to three phase power, and
 - 5. Instrumentation improvements including a new effluent flow meter and the addition of the following signals to the existing telemetry system (screening alarm, UV intensity, UV general alarm, EQ Basin and Effluent

Basin Pressure Transducers/Transmitters, Aeration Basin DO Probe and Controller, and Flow Meter).

1.03 PROJECT TIME

- A. Contractor agrees that the work will be completed and ready for final payment in accordance with Paragraph 12.2 of the General Conditions directed after the date the Contract Time commences to run. Contract Time shall be 150 consecutive calendar days to Substantial Completion and 180 consecutive calendar days to Final Completion.
- B. Critical time constraints are placed on actual construction activities. All construction requiring WWTP shut-down shall take place during the Summer Session of 2011. WWTP shut-down may begin on June 1, 2011 and the plant shall resume operation on or before August 5, 2011. The General Contractor shall coordinate all work within the existing treatment plant, to see that demolition, grit blasting, painting, installation of new equipment and materials and electrical connections are completed during the period when school is not in session. Failure to complete the renovations within the existing wastewater treatment plant during this period will require the Contractor to make necessary provisions for a pumper truck to collect and dispose of the raw wastewater. Another reasonable means for wastewater disposal will be considered. For planning/scheduling purposes, the Bidder should plan on having an executed contract within 28 days of the Bid Opening.
- C. Work outside of the existing WWTP, such as the Grinding and Screening Unit, the UV Disinfection Building, and other, can be performed over the duration of the construction calendar in so far as it does not disrupt the wastewater operations when school is in session.

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 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 Alabama 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 Alabama Department of Transportation or Limestone County, Alabama 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. Tunneling or Boring: Where the drawings show that utilities are to be tunneled or bored, the linear foot amount shown in the Bid Form includes the carrier pipe, steel casing pipe, and all other items of work necessary for the line to be completely installed under the railroad or public roads as shown. The boring shall be accomplished by means of augering to the size, line, and grade shown on the drawings.

- K. 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
- L. 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.
- M. 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.
- N. Drawings of Record: Provide a complete, up-to-date record set of blue line prints, which shall be corrected daily to show every change to the approved shop drawings and shall be deducted from any amounts that are due or become due to the Contractor.
- O. 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.

- P. Utilities: The Contractor is to contact the Owner of all underground utilities before beginning construction in the area. 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

