

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. The Riley Maze project consists of:
 - 1. Install required project sign and provide construction trailer
 - 2. All site grading, finish grading and site restoration, including clearing and grubbing of trees and proper disposal of the trees, and slope stabilization using matting.
 - 3. Removal of existing fencing and placement of new fencing, complete.
 - 4. Concrete sidewalks
 - 5. Asphalt paving.
 - 6. Sediment and Erosion Control including maintenance throughout the project.
 - 7. Yard piping, complete and operable with fittings, restraint devices, connections to existing lines, disinfection, testing, chemical containment, etc.,
 - 8. Yard valves and valve boxes, complete and operable.
 - 9. Installation of a grinder in an existing influent box, including control cabinet and new davit crane, complete.
 - 10. New grating and grating supports at the existing influent pump station, above the existing influent pumps

11. Demolition of an existing screen and its existing channel, then a new reinforced concrete structure for the new screen including stop gates, grating, handrails, new screen with weather protection, water service, and electrical service, and controls; and a new concrete pad for the trash can, complete; also pressure grouting to stabilize an existing concrete pad at the grit classifier.
12. Demolition of 2 existing splitter boxes, and a new reinforced concrete splitter box and associated piping, yard valves, weir gates, stairs, platforms, grating and all temporary pumping as needed.
13. Subsurface preparation for the new sludge holding tank including subgrade prep, unclassified excavation, sheeting, shoring, and dewatering, etc.
14. New reinforced concrete two chamber sludge holding tank, complete with all walls, pipe openings, sluice gates, walkway, steps, guardrails, as well as leakage testing, etc.
15. Aeration system for the new sludge holding tank including three (3) blowers, stainless steel air piping, air headers, proper supports, couplings, valves, and coarse bubble diffusers.
16. Furnish and install, in the new sludge holding tank, two submersible pumps with motors, davit crane, valves, level floats, and local control panel and electrical service, complete.
17. Demolition of a reinforced concrete unused chlorine tank
18. New CMU wall insulated two-room chemical building with concrete roof, and two double doors (one of which is to be chemical-resistant) on a concrete pad; and demolition of two existing prefabricated buildings.
19. Chemical feed systems: a polymer feed system and polymer injection system, complete and operable with all components; also the relocation of existing sodium bisulfite pumps to the new chemical feed building.
20. Plumbing – water and drainage systems for the new building, complete and operable, including a water heater and emergency eyewash and shower; and all other items shown on the plans.
21. Electrical system for the new chemical building, complete and operable.
22. HVAC components for the new building including fans, louvers and heaters, complete and operable.

23. Plug valve replacement at the two existing secondary clarifiers, including piping and valves, and bypass pumping as needed.
24. Thickened sludge piping and valve modifications and a new concrete slab for sludge storage
25. Roof structures for the existing four sludge drying beds as well as the new concrete sludge storage slab.
26. Electrical modifications for a complete and operable wastewater treatment plant upgrade as shown on the Plans.
27. Any/All other work which could be considered incidental to completion of the project as shown on the Plans.

1.03 PROJECT TIME

- A. The project time shall be 240 consecutive calendar days for Substantial Completion and 270 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 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, State of Alabama, and City 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. 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
- J. 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.

- K. 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.
- L. 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.
- M. 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.
- N. 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. 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