

SCOPE OF WORK

3.01 Purpose of the RFQ and Lead Design-Builder Responsibilities

Macon Bibb County is soliciting Qualifications for Design-Build project delivery services for the Gate Lift Control System for the Lake Tobesofkee Dam.

The lead Design-Builder will be expected to provide concurrent design and construction turnkey activities for this project resulting in finished, fully usable gate lifting system that satisfies all project requirements and contract terms. All work shall comply with the requirements of federal, state, and local laws, engineering standards and other regulations that may apply. The Design-Builder, as the sole responsible source for total project compliance and construction related performance (including design, and construction services), testing services (with the exception of Special Inspections by Owner), trade contractors and trade supplier contracts.

3.02 Locations of the Project

Lake Tobesofkee Dam
6470 Stapleton Road
Macon, GA

NOTE: Throughout the duration of the project, the County **WILL NOT** provide workspace for the Firm/ Team. The selected Design-Build Team is responsible for/ must provide its own workspace.

3.03 Scope of Work

The following is a preliminary scope of work that may be modified during contract negotiations with the selected Design-Build Team.

Site Inventory and identify scope of dam rehabilitation

1. Site investigations, including survey, subsurface utility investigations, geotechnical investigations, environmental engineering, to verify existing conditions if necessary.
2. Preliminary evaluation of proposed dam rehabilitation issues related to materials needed for the project, equipment needed and provide proposed project timeline, constructability, time, labor and scheduling factors related to project cost.

Draft and complete engineering design and plans for the dam lift gate system

1. Prepare any necessary design plans for Macon Bibb County Staff consideration.
2. Plans will include: Diagram or written description of all components needed for the system. A diagram or description of all electrical and mechanical requirements. Specifics to address the dam gate lift requirements. The components for the dam lift gate system must perform the following functions.

- The ability for remote operation and remote monitoring.

- Must automatically maintain a normal pool elevation of 360 feet.
- Must be capable of providing notifications of activities (Gate Opening and Closing, Power outages, etc.)
- Alerts for all Malfunctions
- Must provide a log of all dam activity.
- Have the ability for monthly exercise of the emergency generator
- Provide an alarm to notify downstream fishermen prior to the gate opening with sufficient time to clear.
- Replace the existing lift motors with new lift motors for the Dam gate lift system.
- Bidder must provide training on the new system and a written Standard Operation Procedure

3. Work in digital format: AutoCAD; PDF copies shall also be provided.

4. Develop Design-Builder's Proposal detailing a written scope of the work required to complete the work including all lift gate system functions, contract sum, proposed date of substantial completion and list of key Design-Build personnel and suppliers.

Design Development

1. Based on the approved Design plans, satisfactorily resolve all review comments from federal, state, and local permitting agencies.

2. Documents produced in digital format: AutoCAD software. PDF copies shall also be provided.

Construction Documents

1. Based on the approved design plans, satisfactorily resolve all review comments from prior design phases and prepare and finalize all construction drawings and specifications to minimally include: dam lift gate systems, site utilities, specifics to address the dam lift gate requirements, and components that will form the basis for the project's Construction Documents sufficiently complete to support the prepared budget, and construct the project.

2. Documents produced in digital format: AutoCAD software. PDF copies shall also be provided.

3. Prepare a construction documents level cost estimate and updated project schedule; reconcile cost estimate with construction estimate.

Construction / Renovation

1. Install all equipment needed to meet the requirements of the developed plans.

2. Removal and disposal of all existing equipment not needed for the new dam lift gate system. Existing lift motor will remain the property of Macon Bibb County and will be delivered to a later determined location.

Post Construction Phase/Deliverables

1. Prepare as-built documents based on information received from the contractor in AutoCAD or in such a format as the owner requires.
2. Assist in project closeout, establishment of warranties and guarantees.
3. Provide training and Standard Operating Procedures to Macon Bibb Operators.