

Specifications
Tennessee Wildlife Resource Agency (TWRA)
Gooch WMA Unit E Spillway Repair
Event 32801-13397

This solicitation is for the one-time purchase of repair services for the existing spillway gate and outlet pipe for the TWRA Gooch Wildlife Management Area (WMA) Unit E impoundment, in Obion County. All work shall be completed in accordance with the following work scope and specifications below.

A. Site Visit

1. All interested Respondents shall attend the scheduled mandatory site visit in order to be considered for the award of this Contract.
2. Site Visit Date:
 - a. August 5, 2024, at 1:00 PM (CST)
3. All interested Respondents shall meet at TWRA's Gooch Unit E Boat Ramp at 3555 E Crockett Rd, Rives, TN 38253.

B. General Information

1. All work shall be completed no later than November 15, 2024.
 - a. Work shall be paused from September 13, 2024 through September 15, 2024 and may resume September 16, 2024.
2. Tennessee Wildlife Resources Agency (TWRA) shall be responsible for all permits and are already obtained.
3. Contractor shall provide to TWRA Engineering shop drawings of items. Drawings shall be approved by TWRA before construction shall begin.
4. Contractor shall review the engineering diagrams (Attachment 1, Attachment 2, and Attachment 3) for additional description of work to be completed.
5. Contractor shall construct a cofferdam around existing spillway structure.
 - a. Cofferdam shall be constructed of sheet piling.
 - b. Cofferdam shall be installed from the rock jetties placed on either side of the existing spill way.
6. Once cofferdam is in place, Contractor shall pump dry the area around the spill way.
7. Once the area around the spillway is sufficiently dry, the existing spillway gate (the deteriorated steel panels) shall be removed and replaced with aluminum panels or equal.
 - a. The panel thickness shall be required to withstand a minimum of fifteen (15) feet of head form the impoundment.
 - b. The panels shall be 1/4" thick.

- c. The panels shall be in two sizes.
 - i. The Contractor shall provide two (2) panels at three (3) feet tall and four (4) panels at six (6) inches tall with handles sufficiently attached (to the downstream side) for the panels to be individually slipped in and out of the spillway as needed.
 - ii. The Contractor shall also supply spare panels to be stored at the TWRA office: one (1) panel at 3 feet tall and two (2) panels at 6 inches tall.
8. The existing metal channels that the panels run on are currently embedded in the concrete spillway and shall be replaced.
 - a. The existing concrete structure shall remain in place.
 - b. The proposed metal channel shall replace with the existing channel. Shall be made from aluminum and be of equal size as previous.
 - c. The old channels shall be removed, and new channels inserted into the existing space.
 - d. The plates are 1/4 " thick, thus the channel thickness shall be determined by the remaining dimension provided by the gap of existing concrete channel.
 - e. The channel shall be epoxied in place.
9. The existing outlet is 260 feet of 36" (failing) corrugated metal pipe (CMP) and the inlet section is an existing 20-foot section of 36" CMP. These pipes shall be removed and replaced with 36" steel API 5L Grade B Pipe (gas) pipe or equal.
10. API gas pipe shall have a wall thickness of 3/8" and SP-2888 coating or equal.
11. The welding requirement for the API gas pipe shall be 6011 root pass with 7018 Or 8010 cap.
12. The inlet pipe shall be removed and shall not be replaced within the limits of the coffer dam.
13. After work is complete, the levee shall be repaired and the side slopes of the levee area adjacent to the spillway shall be armored utilizing the rock from the jetties.
14. The contractor shall be responsible for obtaining a source for the clay soil to reconstruct the disturbed section of the levee.
15. TWRA will provide an on-site area to borrow soil for backfill of the new pipe outside the limits of the levee.
16. Grades for the reconstructed and pipe backfill shall match existing grades shown on plan. This includes backfilling existing eroded areas to match the approximate surrounding grades.
17. The new outlet pipe shall be backfilled with the excavated trench material and stabilized with seed and mulch.
18. The existing pipe shall be removed from the structure. The new pipe shall be inserted into the structure utilizing the opening left by the existing pipe and shall be grouted in place to create a watertight seal.
19. The contractor shall be responsible for securing an off-site source for material required to backfill the new pipe and repair the levee. Material shall be soil.

20. Clearing for the outlet pipe installation and installation of the EPSC (erosion prevention and sediment control) measures shall be the responsibility of TWRA.
21. Maintenance of all EPSC measures shall be the responsibility of the contractor. The contractor shall be responsible for removal of EPSC measures and final stabilization.
22. Used pipe with no defects shall be acceptable. All pipes shall meet specification requirements.
23. TWRA has the right to inspect all pipe prior to use.

D. Delivery

1. Work shall be completed by November 1, 2024.
2. Contractor shall call point of contacts three (3) business days before beginning project so that arrangements can be made.
3. Points of Contact
 - a. Jay McClellan at 615-351-6611 or Jay.McClellan@tn.gov
 - b. Bill Forte at 615-490-4341 or Bill.Forte@tn.gov
 - c. Rob Lewis at 731-273-0018 or Rob.Lewis@tn.gov
4. Work shall not be completed on weekends or legal holidays as declared by the Commissioner of the Tennessee Department of Human Resources (“DOHR”).

E. Warranties

1. Minimum of one (1) year standard manufacturer’s warranty on components.