

# **CHOKE CANYON DAM SLUICE GATE NO. 3 REPLACEMENT AND IMPROVEMENTS**

CONSTRUCTION CONTRACT

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# PROJECT LOCATION



# BACKGROUND

- The Choke Canyon Dam was constructed by the United States Bureau of Reclamation (USBR) in 1982. The reservoir provides municipal and industrial water supply.
- Corpus Christi Water operates and maintains the Choke Canyon Dam infrastructure to regulate and monitor flow intake and flow releases.
- The Choke Canyon Reservoir is regulated by gate systems to release flows as required to control water levels during flood events and periods of drought.
- The gate systems must be functional and reliable to meet USBR dam safety requirements.
- In 2012, USBR performed an investigation of the dam and determined that the conditions were unsafe due to inoperable or unreliable components.
- This project will make improvements to meet USBR dam safety requirements and extend the service life of the dam.



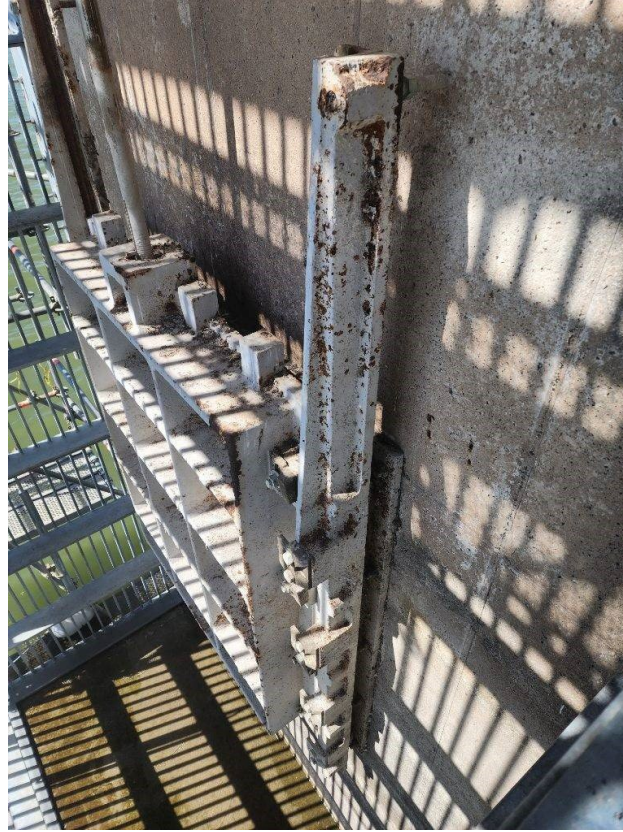


# OUTLET TOWER & BRIDGE





# SLUICE GATES AT THE OUTLET TOWER



Sluice Gates No. 3 and No. 4 are submerged under water, so the other unsubmerged gates are shown for reference.



# SPILLWAY GATES





# SPILLWAY GATE BRAKE MOTORS



# SPILLWAY GATE HOIST CONTROL PANELS



The spillway gate hoist control panels are exposed to the elements and extreme heat.

The electrical equipment is at risk of overheating and subsequent failure.



# PROJECT SCOPE



- Remove the faulty components of sluice gate no. 3 and replace with new cast iron sluice gate slide, frame, stem, and stem guides to restore gate functionality
- Replace the sluice gate no. 3 and no. 4 actuator stem nuts to control the gate valves
- Replace seven spillway gate hoists brakes and brake motors to restore gate operation
- Install heat shields to protect the spillway gate hoist control panels
- Apply a protective coating to the stoplog guides at all spillway gate bays
- Additive Alternate No. 1: sluice gate no. 4 upper stem replacement

# PROJECT TIMELINE

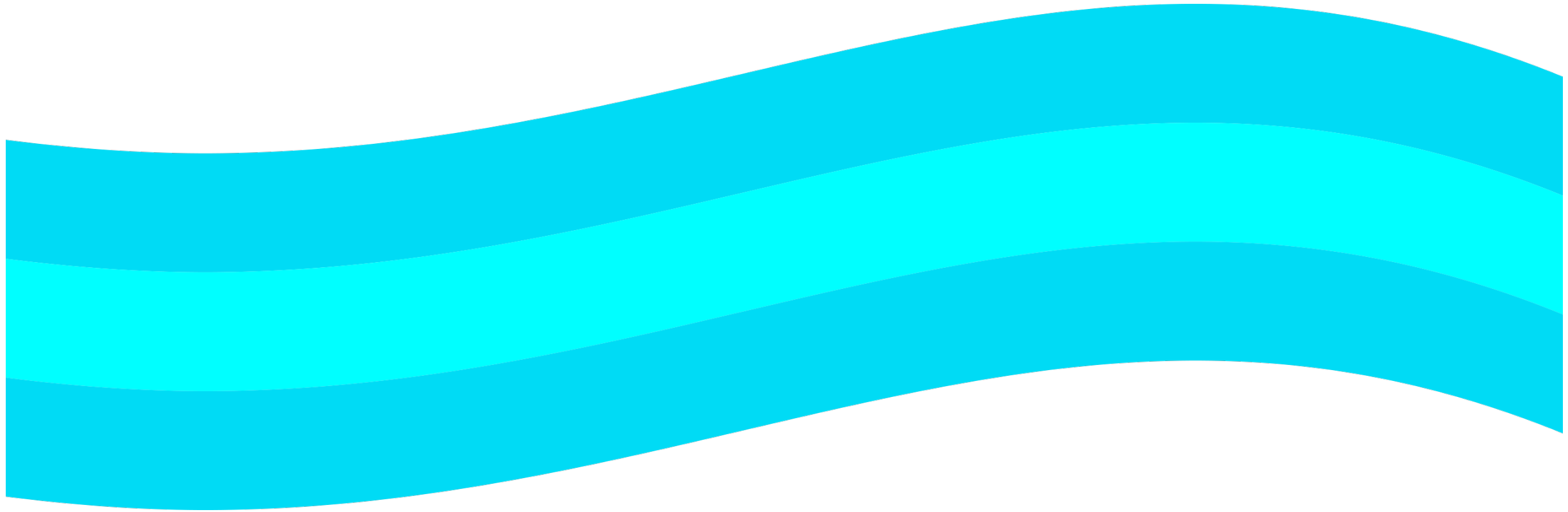
2024 - 2025	2025	2026 - 2027
August - June	July - December	February - May
Design	Bid / Award	Construction

Project schedule reflects City Council award in December 2025 with anticipated construction completion in May 2027.

## STAFF RECOMMENDATION

Staff recommends awarding the construction contract to H&S Constructors, Inc. of Corpus Christi, Texas for the Choke Canyon Dam Sluice Gate No. 3 Replacement and Improvements project in the amount of \$1,730,000.00 for the Base Bid plus Additive Alternate No. 1. The fiscal impact in FY 2026 is an amount of \$1,730,000.00 with funding available from the Raw Water Capital Fund.





**Thank you**

