



## **AGENDA MEMORANDUM**

Action Item for the City Council Meeting of March 22, 2022

**DATE:** March 22, 2022

**TO:** Peter Zanoni, City Manager

**FROM:** Jeff H. Edmonds, P. E., Director of Engineering Services  
[jeffrey@cctexas.com](mailto:jeffrey@cctexas.com)  
(361) 826-3851

Gabriel Ramirez, Interim Director of Water Utilities  
[gabrielr@cctexas.com](mailto:gabrielr@cctexas.com)  
(361) 826-1202

Heather Hurlbert, CPA, CGFO, Director of Finance & Procurement  
[heatherh3@cctexas.com](mailto:heatherh3@cctexas.com)  
(361) 826-3227

<p style="text-align: center;"><b><u>Construction Contract Award</u></b> <b>Choke Canyon Dam Infrastructure Improvements</b></p>
--

### **CAPTION:**

Motion awarding a construction contract to H&S Constructors, Inc. of Corpus Christi, Texas, to perform repairs and improvements to the Choke Canyon Dam, in an amount of \$5,534,035.00, with FY 2022 funding available from the Water Fund.

### **SUMMARY:**

This motion approves a construction contract for repairs and improvements to the Choke Canyon Dam. This includes construction services for spillway electrical and control upgrades and outlet tower improvements as well as other safety improvements.

### **BACKGROUND AND FINDINGS:**

The Choke Canyon Dam was designed and built by the United States Bureau of Reclamation (USBR). Construction was completed in 1982. The dam is comprised of a 3.5-mile zoned earthen embankment, a 368-foot-wide reinforced concrete spillway with seven tainter gates, and an outlet works structure near the center of the dam embankment with eight gates/valves. The valves or gates in the intake tower are used to regulate low flow releases, and the tainter gates on the spillway are used mainly to manage flood waters.

Choke Canyon Dam is owned by the USBR and is operated and maintained by the City. The USBR assists the City with general oversight of operations including comprehensive reviews every 5 to 6 years. The Texas Commission on Environmental Quality (TCEQ) also requires periodic dam safety inspections. The gate system of any dam provides the ability to regulate reservoir releases, control water levels and to release floodwaters. Dam safety requires that gate systems are functional and reliable. Recent inspections have noted deficiencies in the Choke Canyon outlet works and spillway gate systems, particularly, the control systems which are outdated and unsupported.

The project scope for this contract includes upgrades to the gate control systems at the emergency spillway and the low flow outlet tower, refurbishment of the outlet tower trash racks, safety improvements to the stop log system, repairs of concrete spalls on the emergency spillway chute, modernization and stabilization of the gantry crane, and construction of a new maintenance building. The maintenance facility will be a small metal building with engineered slab and limited electricity for lights and outlets. The maintenance facility is not intended to support any occupancy.

#### **PROJECT TIMELINE:**

2020 - 2021	2021-2022						2022 - 2023
May - August	S	O	N	D	J	F	March– March
Design	Bid/Award						Construction

Project schedule reflects City Council award in March 2022 with anticipated construction start in March 2022 and completion by March 2023.

#### **COMPETITIVE SOLICITATION PROCESS:**

The project was advertised for bids in September 2021. On November 3, 2021, the City received bids from three bidders. The City analyzed the bids in accordance with the contract documents and determined Associated Construction Partners, Ltd. was the lowest responsive and responsible bidder. After further evaluation of the bid tabs, a discrepancy was noted and therefore the contractor's bid was rejected.

The project was readvertised for bids in January 2022. On February 9, 2022, the City received bids from two bidders. The City analyzed the bids in accordance with the contract documents and determined to H&S Constructors, Inc. of Corpus Christi, Texas. is the lowest responsive and responsible bidder. The bids received for some of the items were higher than the engineer's estimate due to the supply chain challenges, rising cost of raw materials and the cost of labor. A summary of the bids is provided below:

<b>BID SUMMARY</b>	
<b>CONTRACTOR</b>	<b>BASE BID</b>
Associated Construction Partners, Ltd.	\$5,613,990.00
<b>H &amp; S Contractors</b>	<b>\$5,534,035.00</b>
<i>Engineer's opinion of probable construction cost</i>	<b>\$4,281,928.75</b>

H&S Constructors, Inc., Corpus Christi, Texas has successfully completed projects for the City which include the Wesley Seale Dam Sluice Gate Replacement, and the Oil Docks #1 and #2 Firewater Improvements.

#### **ALTERNATIVES:**

Without the completion of this project, the Choke Canyon Dam will not be in compliance with the USBR and TCEQ dam safety guidelines for operation and maintenance of dams. The proposed improvements are needed to maintain proper functioning of the dam.

#### **FISCAL IMPACT:**

The fiscal impact in FY2022 is an amount of \$5,534,035.00 with funding available from the Water Fund.

#### **FUNDING DETAIL:**

Fund: **Water 2015 MRP2 (Fund 4095)**  
 Mission Elem: LINDistrWtr (041)  
 Project: Choke Canyon Reservoir Oper Sys Infra Imps (Project No. E13050)  
 Account: Construction (550910)  
 Activity: E13050-01-4095-EXP  
 Amount: \$5,534,035.00

#### **RECOMMENDATION:**

City staff recommends awarding the construction contract to H&S Constructors, Inc., Corpus Christi, Texas for the Choke Canyon Dam Infrastructure Improvements in the amount of \$5,534,035.00 with construction duration planned for one year from issuance of the Notice to Proceed with construction starting March 2022.

#### **LIST OF SUPPORTING DOCUMENTS:**

Location and Vicinity Maps  
 Bid Tabs  
 CIP Page