



AGENDA MEMORANDUM

Future Item for the City Council Meeting of November 15, 2016
Action Item for the City Council Meeting of December 13, 2016

DATE: October 27, 2016

TO: Margie C. Rose, City Manager

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<p style="text-align: center;"><u>Engineering Construction Contract</u> Choke Canyon Dam Sluice Gate Stem Repairs</p>
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CAPTION:

Motion authorizing the City Manager, or designee, to execute a construction contract with Huffman Contractors, LLC of Nederland, Texas in the amount of \$189,999 for the Choke Canyon Dam Sluice Gate Stem Repairs for the Total Base Bid.

PURPOSE:

The purpose of this agenda item is to obtain authority to execute a construction contract for the Choke Canyon Dam Sluice Gate Stem Repairs project.

BACKGROUND AND FINDINGS:

Choke Canyon Dam was constructed in the 1980's to include an outlet tower and four sluice gates to allow release of water from the dam. The outlet tower is the low flow outlet used for the release of downstream water supply and pass-thru water for in-stream and freshwater inflows under the agreed order with the Texas Commission on Environmental Quality (TCEQ). Sluice Gate No. 1 is for the upper elevation and Sluice Gate No. 4 at the lower depths. These gates and operable equipment are original equipment. The equipment is now obsolete and the original manufacturer is defunct. This requires custom fabrications of parts and equipment with excessive lead times

and cost. This project provides for developing replacement parts with continued support and repairs to Sluice Gate No. 3 and No. 4.

Sluice Gate No. 3 became inoperable in 2011 as a result of damage from a flood event. Both sluice gates are raised and lowered by controls in the outlet tower through a motor actuated stem. The damage bent the stems preventing operation of the gates. The damage to Sluice Gate No. 4 was discovered near the surface that includes deterioration/damage to the stem and hangers that anchor the stem to the dam.

These stems and hangers must be custom machined (fabricated) to match the original design. To ensure accurate replacement, the City staff contracted a dive company to remove the damaged parts so identical parts could be machined and installed. This process allows future replacement of other stems and hangers.

The fabrication and installation includes new sluice gate stems, couplings, keys, and hangers for Sluice Gate No. 3 and No. 4. Restoration of gate operations and demonstration through acceptance testing are part of the project requirements.

On September 28, 2016, the City received proposals from three (3) bidders and the respective bids were as follows:

CONTRACTOR	BASE BID (INCLUDES ALLOWANCE) *
Huffman Contractors, LLC Nederland, Texas	\$189,999
AllTech Engineering Corp. Mendota Heights, MN	\$229,365
Blastco Texas, Inc. Houston, Texas	\$240,500
Engineer's Opinion of Probable Construction Cost	\$211,200

*Includes an allowance of \$50,000 for all bidders for unanticipated repairs.

The City's consultant, Freese and Nichols, Inc. (FNI), conducted a bid analysis of the three (3) proposals submitted to the City. Based on the information submitted in accordance with the contract documents, Huffman Contractors, LLC of Nederland, Texas, was determined to be the lowest responsive and responsible bidder with the sufficient experience and resources.

ALTERNATIVES:

1. Authorize the execution of the construction contract.
2. Do not authorize the execution of the construction contract. (Not Recommended)

OTHER CONSIDERATIONS:

None

CONFORMITY TO CITY POLICY:

Conforms to City Fiscal Policy. This item requires a 2/3 majority vote as per City Charter requirements.

EMERGENCY / NON-EMERGENCY:

Non-Emergency

DEPARTMENTAL CLEARANCES:

Utilities Department

FINANCIAL IMPACT:

☐ Operating ☐ Revenue ☒ Capital ☐ Not applicable

Fiscal Year 2016-2017	Project to Date Expenditures	Current Year	Future Years	TOTALS
Line Item Budget (CIP)		\$275,000		\$275,000
Encumbered / Expended Amount		40,096		40,096
This Item		189,999		189,999
Future Anticipated Expenditures This Project		43,437		43,437
BALANCE		\$1,468		\$1,468

Fund(s): Water CIP

Comments: This project requires approximately 150 calendar days for construction with anticipated completion May 2017. The construction contract will result in the expenditure of an amount not to exceed \$189,999.

RECOMMENDATION:

City Staff and the design engineer recommend approval of a construction contract with Huffman Contractors, LLC of Nederland, Texas in the amount of \$189,999 for the Choke Canyon Dam Sluice Gate Stem Repairs for the Total Base Bid.

LIST OF SUPPORTING DOCUMENTS:

Project Budget
Location Map
Presentation
Form 1295