

Meeting Date: April 10, 2013

Board Item: V-A-1 3

**Change Order No. 7 with Archer Western Construction, LLC
for the Elizabeth Street Pump Station Conversion Project
Contract 12865A**

 Action by Consent Action Information

On July 27, 2011, the Board approved Contract 13327A in the amount of \$8,893,000.00 with Archer Western Construction, LLC to construct the Elizabeth St. Pump Station Conversion Project. The project consists of constructing a Potable Water Pump Station capable of serving Zone 2E and a future connection to Moffat Water Treatment Plant and Conduit No. 28 for drought emergency water distribution. The facility also includes an integral Non-Potable Recycled Water Pump Station to expand delivery to Botanic Gardens, Cheesman, and Congress Parks. Significant savings and efficiencies were realized by combining the two facilities and combining the two pump stations into one existing facility (\$2M) and through a competitive bidding environment at the time (\$1.4M).

During startup activities for the Potable Water Pump Station, the existing 48-inch diameter Discharge Header Pipe failed a routine pressure test. The point of failure was traced to the restraining lugs on a bolted sleeve type coupling. A subsequent check of the lugs showed that they were designed to the AWWA Standards of 1970, when the Pump Station was originally constructed, but do not meet the current more stringent standards. Typically, restraining lugs are not redesigned on a case by case basis. This unforeseen failure has brought this issue to the forefront and all inadequate lugs from that era will be replaced for this project and in future projects.

Change Order No. 7 provides for repair of the damage that was caused by the pipe failure, as well as measures to upgrade the existing piping to the more stringent standards. It also includes funds to media blast and reline the pipe since the existing lining will be removed while fixing the pipe. Change Orders 1 through 6 were small additions and credits to the contract, totaling \$110,892.00, not requiring Board Action. The cost breakdown for Change order No 7 is as follows:

- Repairs: \$84,000.00; Pipe Upgrades: \$369,000.00; Pipe Relining: \$130,000.00 Total: \$583,000.00

The 2013 Capital Improvement Plan (MPC 1DB0054) includes funds for this project.

Recommendation

It is recommended that the Board approve Change Order No.7 to Contract 12865A with Archer Western Construction, LLC for the Elizabeth Street Pump Station Conversion Project in the amount of \$583,000.00.

Budget Considerations

Master Plan Code(s): 1DB0054

Budgeted Item Unbudgeted Item Funds transferred from another project:

Budget Information

2013 Budget	\$	1,708,867.00
Amount Requested This Item	\$	583,000.00
YTD Expenditures	\$	485,942.00
Additional Expenditures Anticipated	\$	639,925.00
Revised 2013 Estimate	\$	1,708,867.00
Variance Required	\$	0.00

Approvals:

Respectfully submitted,


Robert J. Mahoney
Director of Engineering


James S. Lochhead
CEO/Manager