



# Folsom City Council Staff Report

<b>MEETING DATE:</b>	5/26/2020
<b>AGENDA SECTION:</b>	Consent Calendar
<b>SUBJECT:</b>	Resolution No. 10454 - A Resolution Authorizing the City Manager to Execute Amendment No. 3 to the Agreement (Contract No. 173-21 16-035) with Murraysmith Inc. for Design and Construction Administration Services for the Misc. Water System Rehabilitation Project No. 1 and Folsom Zoo Sewer Line Project and Appropriation of Funds.
<b>FROM:</b>	Environmental and Water Resources Department

## **RECOMMENDATION / CITY COUNCIL ACTION**

The Environmental and Water Resources Department recommends the City Council pass and adopt Resolution No. 10454 - A Resolution Authorizing the City Manager to Execute Amendment No. 3 to the Agreement (Contract No. 173-21 16-035) with Murraysmith Inc. for Design and Construction Administration Services for the Misc. Water System Rehabilitation Project No. 1 and Folsom Zoo Sewer Line Project and Appropriation of Funds.

## **BACKGROUND / ISSUE**

The Environmental and Water Resources Department has developed a water and wastewater infrastructure rehabilitation and replacement (R & R) program through water and wastewater master plans and ongoing condition assessment programs. Through these efforts, portions of the water and wastewater system in the City have been identified as needing rehabilitation or replacement. A comprehensive plan has been developed for the R & R of these aging systems, and much of this work has been completed in recent years. The projects identified and included within the Misc. Water System Improvements Project No. 1 include the replacement of the waterline serving Negro Bar State Park, replacing the upstream slide gate on the Willow Hill Dam, rehabilitating the waterline on Rainbow Bridge, and replacing the Folsom Zoo sewer lines.

Amendment No. 3 is for design and construction administration services related to the Willow Hill Valve Project only. The original project contract request and all associated amendments have been summarized in the table below. No additional cost for design or construction administration services is being requested for the Negro Bar Waterline Rehabilitation Project, the Rainbow Bridge Waterline Rehabilitation Project or the Folsom Zoo Sewer Rehabilitation Project. These three projects have been designed and constructed to date.

<b>Water System Rehabilitation Project No. 1 and the Folsom Zoo Sewer Line Project (Design and Construction Administration Services)</b>			
<b>Contract No. 173-21 16-035</b>	<b>Contract Amount</b>	<b>Resolution No.</b>	<b>Scope of Work</b>
Original Contract (April 12 <sup>th</sup> , 2016)	\$125,000	9754	Design and Construction Administration Services for Negro Bar Waterline, Rainbow Bridge Waterline, Willow Hill Dam and the Folsom Zoo Sewer Line
Amendment No. 1 (March 28 <sup>th</sup> , 2017)	\$41,800	9894	Additional Design and Construction Administration Services for Negro Bar Waterline, Rainbow Bridge Waterline, Willow Hill Dam and the Folsom Zoo Sewer Line
Amendment No. 2 (November 13 <sup>th</sup> , 2018)	\$69,857.50	10198	Additional Design and Construction Administration Services for the Willow Hill Dam Project Only
Amendment No. 3 (April 28 <sup>th</sup> , 2020)	\$225,339		Additional Design and Construction Administration Services for the Willow Hill Dam Project Only

This resolution will authorize the City Manager to execute Amendment No. 3 to the Agreement (Contract No. 173-21 16-035) with Murraysmith, Inc. for design and construction administration services for the Misc. Water System Rehabilitation Project No. 1 and Folsom Zoo Sewer Line Project and Appropriation of Funds. Amendment No. 3 is for \$225,339 and the new contract amount, including Amendment No. 3 is \$ \$461,997

**POLICY / RULE**

In accordance with Chapter 2.36 of the Folsom Municipal Code, supplies, equipment, services, and construction with a value of \$62,014 or greater shall be awarded by City Council.

**ANALYSIS**

In April 2016, the original contract scope was awarded to Quincy Engineering, now Murraysmith, Inc., through Resolution No. 9754 for engineering services to develop bid documents to replace the existing slide gate on the upstream side of the dam at the Willow Hill Reservoir. At that time, the City and Murraysmith did not know all of the details to incorporate into the environmental studies or CEQA documents, with the City receiving limited information from the Division of Safety of Dams (DSOD) regarding their specific requirements for the Project. Specific requirements from DSOD were not available until after the City provided DSOD with a preliminary design. The original scope of the project was based on the following:

- The existing slide gate on the upstream side of the Willow Hill Dam was inoperable and needed to be replaced
- The exact location and configuration of the existing slide gate was unknown
- Murraysmith's survey team would perform a topographic survey of the dam inlet area
- Specifications would be included as notes on plans
- Two site visits would be completed as part of preliminary site investigations
- Construction administration services (RFI's, submittals, meetings) would be required

As the project progressed, the project team identified several items that were not in the original project scope. In order to address these additional items, the City requested that Murraysmith provide pre-design services instead of the design and construction administration budget as originally scoped. Therefore, a portion of Amendment No. 1 was requested for the Willow Hill Valve Dam Project through Resolution No. 9894 to address the pre-design services and the remaining design and construction administrative services for the project.

Pre-design services provided to date include:

- Developing and researching alternatives for the type and configuration of the upstream valve either in its current location with remote operator cables, or as a slant gate built into the face of the dam embankment
- Developing a design solution for the replacement of the downstream valve
- Participating in discussion with operations staff about the inclusion of a level gage indicator and remote SCADA operation of the valve
- Identifying the type and potential locations for a remote operator on the site
- Securing a remote operator, in either a locked vault or with a fence around a slab on grade

Murraysmith developed 65% design level plans to provide to DSOD for review and comment. DSOD's review and comment provided information to the City and Murraysmith as to the additional parameters required by DSOD for the final design. The 65% design submittal required expending the remaining funds from the original contract and most of the funds from Amendment No. 1. As a result, the City approved Amendment No. 2 through Resolution No. 10198 for Murraysmith to complete the following:

- Confirm with the City and Helix Environmental Planning the environmental impacts of the project
- Perform an underwater/dive assessment and manual cleaning of the existing slide gate to confirm dimensions and condition of the existing slide gate
- Incorporate DSOD's 65% and 95% review comments into the final bid documents (100% plans and specifications)
- Design a slide gate to be installed by a diving contractor
- Include performance specifications for a floating dock to provide operations staff access to the slide gate operator
- Provide construction administration services

As described above, one of the tasks in Amendment No. 2 included an underwater dive and assessment of the existing valve. During the assessment, the dive team, CSI Services, Inc., encountered several issues that did not allow the assessment to be completed. This included the following:

- Heavy siltation above and around the inlet valve, completely obscuring access to the valve and the bar screen
- The level of murkiness made it physically impossible to assess the valve conditions

The conditions below the surface of the water did not allow for a proper inspection and assessment of the existing valve and pipe. Based on these findings, the City and Murraysmith concluded that the proposed design and installation of a new valve by underwater methods was impractical. After further discussions between the City, Murraysmith and DSOD, a new design concept was agreed upon. Murraysmith completed a technical memorandum that included findings to date, recommendations of the abandonments of the existing outlet piping and the design of a new siphon system. Based upon acceptance by the DSOD of the Technical Memo, City staff is recommending approval of Amendment No. 3 and the following scope of work:

- Project Management
- Design Services:
  - Coordination/Meetings with City
  - Develop 30%, 60%, 90% plans and specifications for review by the City and DSOD
  - Final Bid Package (plans, specifications, bid quantities, final cost estimate)
- Construction Administration Services
  - Bid Support
  - Submittal Reviews
  - RFI Responses

This resolution will authorize the City Manager to execute Amendment No. 3 to the Agreement (Contract No. 173-21 16-035) with Murraysmith, Inc. for design and construction administration services for the Misc. Water System Rehabilitation Project No. 1 and Folsom Zoo Sewer Line Project and Appropriation of Funds. Amendment No. 3 is for \$225,339 and the new contract amount, including Amendment No. 3 is \$461,997.

### **FISCAL IMPACT**

An appropriation of funds in the amount of \$225,339 is required. Funding for this agreement is available in the Water Operating Fund (Fund 520). With the additional appropriation, the total contract amount will be for a not-to-exceed amount of \$461,996.50 and a project budget of \$2,234,261.

## **ENVIRONMENTAL REVIEW**

An environmental opportunities and constraints analysis will be performed as part of the design process to ensure DSOD environmental compliance. The analysis will include a general approach to the environmental compliance process, including a recommendation for any California Environmental Quality Act (CEQA) documentation and identification, identification of potentially required regulatory permits, and a general mitigation strategy and cost estimate.

## **ATTACHMENT**

Resolution No. 10454 - A Resolution Authorizing the City Manager to Execute Amendment No. 3 to the Agreement (Contract No. 173-21 16-035) with Murraysmith, Inc. for Design and Construction Administration Services for the Misc. Water System Rehabilitation Project No. 1 and Folsom Zoo Sewer Line Project and Appropriation of Funds.

Submitted,

---

Marcus Yasutake, Director  
ENVIRONMENTAL AND WATER RESOURCES DEPARTMENT

**RESOLUTION NO. 10454**

**A RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE AMENDMENT NO. 3 TO THE AGREEMENT (CONTRACT NO. 173-21 16-035) WITH MURRAYSMITH INC. FOR DESIGN AND CONSTRUCTION ADMINISTRATION SERVICES FOR THE MISC. WATER SYSTEM REHABILITATION PROJECT NO. 1 AND FOLSOM ZOO SEWER LINE PROJECT AND APPROPRIATION OF FUNDS**

**WHEREAS**, the City identifies projects that are critical to ensuring the delivery of adequate and high quality water supply to all residents and businesses; and

**WHEREAS**, the City of Folsom has identified the Willow Hill Dam Project as a priority to maintain integrity and operation of the raw water system; and

**WHEREAS**, the City of Folsom will incorporate comments provided by the Division of Safety of Dams into the final design and environmental review; and

**WHEREAS**, Murraysmith by reason of their past experience and abilities for performing these types of services, are qualified to perform the required consulting services; and

**WHEREAS**, the amendment with Murraysmith will be in the amount of \$225,339 and an additional appropriation will be required for this amendment; and

**WHEREAS**, the agreement will be in a form acceptable to the City Attorney:

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Folsom authorizes the City Manager to execute Amendment No. 3 to the Agreement (Contract No. 173-21 16-035) with Murraysmith for Design and Construction Administration Services for the Misc. Water System Rehabilitation Project No. 1 and Folsom Zoo Sewer Line Project and Appropriation of Funds for an amount not-to-exceed \$461,997; and

**BE IT FURTHER RESOLVED** that the Finance Director is authorized to increase the Misc. Water System Rehabilitation Project No. 1 appropriation by \$225,339 in the Water Operating Fund (Fund 520) for a total amount of \$461,997 and a total project budget of \$2,234,261.

**PASSED AND ADOPTED** this 26<sup>th</sup> day of May 2020, by the following roll-call vote:

**AYES:** Council Member(s):  
**NOES:** Council Member(s):  
**ABSENT:** Council Member(s):  
**ABSTAIN:** Council Member(s):

---

Sarah Aquino, MAYOR

ATTEST:

---

Christa Freemantle, CITY CLERK