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CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: June 15, 2021

TO: Mayor and Councilmembers

FROM: Engineering Division, Public Works Department

SUBJECT: Contract For Design Of Cater Finished Water Reservoir Resiliency Project

RECOMMENDATION:

That Council authorize the Public Works Director to execute a City Professional Services contract with Carollo Engineers in the amount of \$820,456 for design services of the Cater Finished Water Reservoir Resiliency Project, and authorize the Public Works Director to approve expenditures of up to \$82,050 for extra services of Carollo Engineers that may result from necessary changes in the scope of work.

DISCUSSION:

Background

The existing Cater Water Treatment Plant (Cater) Clear Well was constructed in 1962, and is a reservoir for the storage of filtered water that provides chlorine contact time for disinfection, as well as storage capacity to accommodate variations in demand. The existing Clear Well is a buried concrete structure with a maximum operating storage volume of approximately five million gallons. In recent years, the City has conducted multiple assessments of the Clear Well and its process to identify opportunities for operational improvements. From these assessments it was determined that installation of a second, approximately 2.5-million gallon reservoir adjacent to the existing Clear Well is the most beneficial project to move forward with at this time. The purpose of this second reservoir is to add resiliency to this critical facility through additional storage, provide additional contact time for disinfection, and allow for greater operational flexibility.

The City conducted four separate assessments in order to develop this scope of work, beginning with the October 2018 Cater Yard Piping Modifications Technical Memorandum (TM). This TM analyzed piping modifications and routing options to blend additional City water supply sources conveyed to Cater. These modifications will improve overall supply resiliency by expanding the reach of these additional sources throughout the City. The second assessment, the January 2019 Cater Clear Well Structural Analysis TM, assessed the structural capacity of the existing Clear Well to accept modifications to the interior that would benefit the treatment process. The third assessment, the February

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2019 Cater Clear Well Disinfection Compliance Evaluation TM, evaluated the requirements for the existing Clear Well to achieve disinfection permit compliance. And finally, the June 2020 Cater Chlorine Contact Basin Feasibility Study TM analyzed the feasibility of four possible locations for a new reservoir at Cater. Completing these assessments enabled City staff to develop the recommended scope of work for the Cater Finished Water Reservoir Resiliency Project (Project).

Project Description

The Project will construct a new 2.5-million gallon finished water reservoir, or chlorine contact basin, and supporting facilities at Cater. Not only will the Project address several operational concerns, including improving chlorine contact time and providing the ability to bypass the existing Clear Well for maintenance purposes, but it also enhances the system's resiliency by increasing storage capacity and improving storage and supply balancing capabilities. As part of the design, a more in-depth structural analysis will be performed on the existing Clear Well. Additional work may be identified from this analysis that could be added to the design effort if deemed necessary. This effort may be a significant increase to the overall project cost. This full scope is included in the current long-term budget plan.

Design Phase Consultant Engineering Services

Staff recommends that Council authorize the Public Works Director to execute a contract with Carollo Engineers in the amount of \$820,456 for design, \$82,050 for potential extra services, for a total amount of \$902,506. Carollo Engineers is experienced in this type of work and was selected as part of a competitive Request for Proposals process. They were selected as the most qualified to deliver the Project's design from a total of three firms who submitted proposals.

Community Outreach

Staff will implement direct outreach to neighboring residents adjacent to Cater due to the possible impacts brought by construction activity. The outreach will occur early in the design process to ensure inclusion of any relevant feedback received.

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BUDGET/FINANCIAL INFORMATION:

The following summarizes all estimated total Project costs:

ESTIMATED TOTAL PROJECT COST

Design (by Contract)	\$902,506
Other Design Costs - City staff (if contract), Environmental (Assessments, etc.)	\$138,600
<i>Design Subtotal</i>	\$1,041,106
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Estimated Construction Contract w/Change Order Allowance	\$7,632,704
Estimated Construction Management/Inspection (by Contract or City)	\$1,526,290
Estimated Other Construction Costs (testing, etc.)	\$400,900
<i>Construction Subtotal</i>	\$9,559,894
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TOTAL PROJECT COST	\$10,601,000

There are sufficient appropriated funds in the Water Fund to cover the Project’s design costs. The City will apply for a Drinking Water State Revolving Fund loan to support the total Project cost, including design and construction.

ENVIRONMENTAL REVIEW

This Project will require California Environmental Quality Act compliance as part of the design review process. Staff does not anticipate adverse environmental impacts from this Project. All impacts occur within a developed property and support a needed utility for the community.

WATER COMMISSION RECOMMENDATION:

This item was presented to the Water Commission at its meeting on May 20, 2021, and the Commission voted **X-X** in support of staff’s recommendations.

A copy of the contract may be requested from the Public Works Department for public review; please contact us at PWInfo@SantaBarbaraCA.gov to request a copy.

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SUBMITTED BY: Joshua Haggmark, Acting Public Works Director

APPROVED BY: City Administrator's Office