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## CITY OF SANTA BARBARA

### COUNCIL AGENDA REPORT

Agenda Item No. \_\_\_\_\_

File Code No. \_\_\_\_\_

**AGENDA DATE:** May 2, 2017

**TO:** Mayor and Councilmembers

**FROM:** Water Resources Division, Public Works Department

**SUBJECT:** Contract For Design Of The Braemar Lift Station Rehabilitation Project And La Colina Force Main Rehabilitation Project

#### **RECOMMENDATION:**

That Council authorize the Public Works Director to execute a City Professional Services contract with Carollo Engineers in the amount of \$421,124 for design services for The Braemar Lift Station Rehabilitation Project And La Colina Force Main Rehabilitation Project, and authorize the Public Works Director to approve expenditures of up to \$42,112 for extra services of Carollo Engineers that may result from necessary changes in the scope of work.

#### **DISCUSSION:**

##### Background

The Braemar Lift Station (Braemar) was constructed in 1962, and is the City's largest and most critical lift station with a pumping capacity of 1,000 gallons per minute. It is located at the corner of Alan Road and Cliff Drive, and is adjacent to Arroyo Burro Creek. Braemar pumps wastewater from the sewer collection system serving parts of the Hope Ranch, Campanil, Arroyo Burro Beach, and Alan Road neighborhoods to one of two 3,200 linear foot force mains along Cliff Drive, where it transitions to gravity at the corner of Cliff Drive and Mesa Lane.

In 2012, Brown and Caldwell prepared a Lift Station and Force Main Condition Assessment Report (BC Report), which identified needed repairs and improvements at Braemar. Staff has begun implementing some of the improvements from the BC Report; however, significant work still needs to be completed at Braemar. In addition, the La Colina Lift Station (La Colina) has a 60-year-old ductile iron force main, approximately 3,100 linear feet in length that is in poor condition and no longer in service. Per the BC Report, a new parallel force main was constructed in 2015, and staff recommends rehabilitating the old force main to provide increased reliability and redundancy.

### Project Descriptions

The Braemar Lift Station Rehabilitation Project (Braemar Project) is intended to replace aging equipment, and to address long standing issues with odor control and operational and maintenance challenges. The work generally includes replacement of the existing pumps and motors with new pumps and motors with Variable Frequency Drives (VFD). The VFDs are expected to provide a better long-term solution to odor control and maintenance issues in the wet well, in addition to increased energy efficiency. The work also includes replacing the existing ventilation system, rehabilitation and rehabilitation of the wet well, condition assessment of the surge tank and associated appurtenances, replacing the motor control center, evaluating the condition of the standby generator, and upgrades to the supervisory control and data acquisition system.

The La Colina Force Main Rehabilitation Project (La Colina Project) will rehabilitate the lift station's original 60-year old force main, which was taken out of service after the construction of a new redundant force main in 2015. Rehabilitation of the original force main will provide La Colina with redundancy and increased reliability. Unlike most of the pipes in the collection system, force mains are operated under pressure, so any failure of the pipe presents an increased likelihood of a large release of wastewater.

### Design Phase Consultant Engineering Services

Staff recommends that Council authorize the Public Works Director to execute at contract with Carollo in the amount of \$421,124 to prepare preliminary and final design of the Braemar Project and La Colina Project and \$42,112 for potential extra services, for a total amount of \$463,236. Carollo was selected through a competitive Request for Proposals process and is experienced in this type of work.

### Community Outreach

Community outreach will start in the design phase and continue until the two Projects are constructed. Neighborhood meetings will be held during final design, and staff will provide residents who are directly impacted by construction with project related information. The residents will also have the opportunity to ask questions and provide input to help address construction related impacts in their neighborhood.

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Funding

The following table summarizes the estimated total project costs for the Braemar Project:

Design (by Contract)	\$335,304
Project Management (by City staff)	30,000
Environmental and Building Permitting	10,000
<b>Subtotal Design</b>	<b>\$375,304</b>
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Estimated Construction Contract w/Change Order Allowance	\$2,000,000
Estimated Construction Management/Inspection by Contract	150,000
Project Management (by City staff)	50,000
Design Support During Construction	30,000
<b>Subtotal Construction</b>	<b>\$2,230,000</b>
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<b>TOTAL PROJECT COST</b>	<b>\$2,605,304</b>

The following table summarizes the estimated total project costs for the La Colina Project:

Design (by Contract)	\$127,932
Project Management (by City staff)	20,000
<b>Subtotal Design</b>	<b>\$147,932</b>
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Estimated Construction Contract w/Change Order Allowance	\$1,000,000
Estimated Construction Management/Inspection by Contract	50,000
Project Management (by City staff)	25,000
Design Support During Construction	15,000
Estimated Other Construction Costs (testing, etc.)	10,000
<b>Subtotal Construction</b>	<b>\$1,100,000</b>
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<b>TOTAL PROJECT COST</b>	<b>\$1,247,932</b>

The Projects were anticipated, and there are adequate appropriated funds in the Wastewater Capital Fund for this professional engineering work. Construction for the Braemar Project will be funded in Fiscal Year 2019. Construction for the La Colina Project will be appropriated by a one-time use of reserves in Fiscal Year 2018.

A copy of the contract/agreement is available for public review in the City Clerk's Office.

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At its meeting on April 20, 2017, the Water Commission voted x-x-x in support of the staff's recommendations.

**PREPARED BY:** Lisa Arroyo, Wastewater System Manager/cmw

**SUBMITTED BY:** Rebecca J. Bjork, Public Works Director

**APPROVED BY:** City Administrator's Office