



To: Mayor and City Council

From: Tim Tucker, City Engineer

Subject: 2016 Flocculator Paddle Replacement and Finished Water Pipe Improvement Project No. C7044

Date: December 14, 2016

Recommendation

- A. Motion approving a resolution accepting bids for the 2016 Flocculator Paddle Replacement and Finished Water Pipe Improvement Project, No. C7044, and awarding the construction contract to Pacific Mechanical Corporation in the amount of \$767,755 and allocating \$843,000 of Water System funds to Account No. C7044; and

- B. Motion approving a resolution authorizing the City Manager to amend the Carollo Engineers, Inc. On-Call agreement (Task Order 5) for consultant services for the design of the 2016 Flocculator Paddle Replacement and Finished Water Pipe Improvement Project No. C7044, to include Finish Water Piping design and construction phase support services in an amount not to exceed \$83,300.

Background

The City Council approved the Water Treatment Plant (WTP) Master Plan in February of 2012. The plan identified twenty-three projects to be completed over an estimated fifteen-year period. One project is to replace the flocculator paddles and bearing blocks. The flocculator paddles is in the beginning steps of the water treatment process and is critical in mixing alum with raw water to help settle out impurities in the water. The water is further filtered and treated prior to delivery to our customers.

On August 25, 2015, the City signed Task Order No. 5 of the existing On-call Consultant Services Agreement with Carollo Engineers, Inc. to perform the design of Flocculator Paddle Replacement Project, Project No. C7044. Carollo Engineers, Inc. was deemed the most qualified firm as a result of a competitive selection process.

Discussion

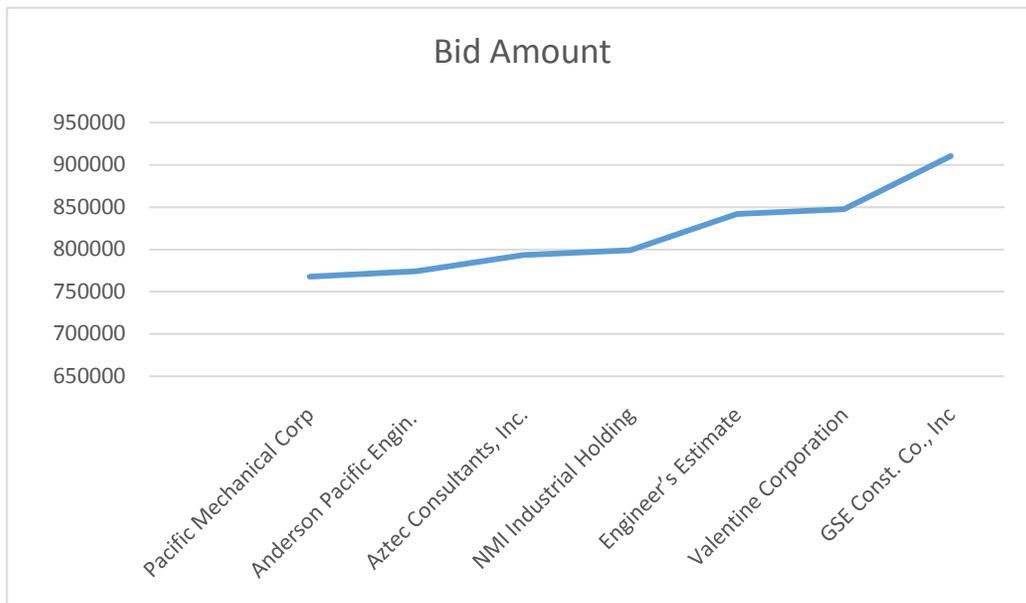
During the design of the Project it was discovered, that in addition to the deteriorated paddle assembly and bearing blocks, the concrete supports were severely deteriorated and required demolition and replacement. In addition, during the design period, as part of the Seismic Upgrade Project construction, a very deep pipe (finish water piping) was discovered leaking through a shoring wall. The City was able to isolate the pipe with valves installed as part of the Seismic Project and existing valves in the pump house. Temporary above ground piping was

gerrymandered in the pump house as part of the temporary fix. Staff determined the most expeditious and cost effective way to construct a permanent fix was to add the design and construction to the scope of the Flocculator Project which was nearing bidding phase.

Construction bids were opened at 2:00 p.m. on Tuesday, December 13, 2016 2016 for the Flocculator Paddle Replacement and Finished Water Pipe Improvement Project No. C7044. The bids ranged from \$774,000 to \$910,300. The engineer’s estimate was \$842,000.

Pacific Mechanical Corporation of Concord is the lowest responsible bidder. The following is a summary of the bid results:

<u>Bidder</u>	<u>Amount</u>
Engineer’s Estimate	\$842,000
Pacific Mechanical Corporation	\$767,755
Anderson Pacific Engineering Const., Inc.	\$774,000
Aztec Consultants, Inc.	\$793,400
NMI Industrial Holding	\$799,000
Valentine Corporation	\$847,369
GSE Construction Co., Inc	\$910,300



The lowest responsible bid is below the engineer’s estimate. It is recommended the project be awarded to Pacific Mechanical Corporation in the amount of \$767,755. They have been in business for nearly 70 years. Although they have not done work for the City in recent years they have successfully completed several projects for Contra Costa Water District.

Construction Oversight:

In order to move the project into construction, the Task Order 5 agreement with Carollo Engineers, Inc. needs to be amended to include construction phase support services and the additional design work required for the finish water piping and additional design for the expanded concrete replacement design. Carollo Engineers, Inc. submitted a proposal to provide construction project services, including special inspections, and other work in amount not to exceed amount of \$83,300.

Fiscal Impact

The project is budgeted under Account No. C7044 and is partially funded. Additional Water System funds in an amount of \$843,000 are required to fully fund the project. Staff recommends allocating the additional amount to fully fund the project. The Water System unrestricted fund balance as of July 1, 2016 was approximately \$8.4 million. The project budget and funding is as follows:

<u>Budget</u>	
Design/Bidding	\$110,000
Construction Contract	\$767,755
Contingency (10%)	\$ 76,700
Construction Support Services	\$63,500
Construction Management/Inspection	<u>\$75,045</u>
TOTAL BUDGET	\$1,093,000
<u>Funding</u>	<u>Amount</u>
Water System funds – <i>current funding</i>	\$250,000
Water System funds - <i>proposed allocation</i>	<u>\$843,000</u>
TOTAL FUNDING	\$1,093,000

Attachments

- Resolutions

APPROVED BY:



Brad Kilger, City Manager

RESOLUTION NO. -16

ACCEPTING BIDS FOR THE 2016 FLOCCULATOR PADDLE REPLACEMENT AND FINISHED WATER PIPE IMPROVEMENT PROJECT NO. C7044, AND AWARDING THE CONSTRUCTION CONTRACT TO PACIFIC MECHANICAL CORPORATION IN THE AMOUNT OF \$767,755 AND ALLOCATING \$843,000 OF WATER SYSTEM FUNDS TO ACCOUNT NO. C7044

WHEREAS, the Capital Improvement Plan includes 2016 Flocculator Paddle Replacement and Finished Water Pipe Improvement Project, No. C7044 (Project); and

WHEREAS, Carollo Engineers, Inc. prepared plans, specifications and estimate for the Project; and

WHEREAS, on December 13, 2016, six bids were publicly opened; and

WHEREAS, Pacific Mechanical Corporation submitted the lowest responsible bid of \$767,755; and

WHEREAS, an additional \$843,000 in funds is required to fully fund the Project; and

WHEREAS, staff recommends authorizing transfers of Water System funds in the amount of \$793,000 to Account No. C7044; and

WHEREAS, it is deemed in the best interest of the public and the City to implement the 2016 Flocculator Paddle Replacement and Finished Water Pipe Improvement Project C7044.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Martinez:

- A) The bid from Pacific Mechanical Corporation is hereby accepted in an amount of \$767,755 when the required performance bond, labor and materials bond, insurance and other contract documents have been reviewed and approved by the City Attorney, and the City Manager is hereby authorized to execute a contract for said project with the contractor.
- B) Should Pacific Mechanical Corporation fail to deliver all contract documents, fully executed and filled out, so they are in the hands of the City within ten calendar days after receipt of notice from the City of the City's acceptance of their bid, then the bid shall be deemed in violation of the contract documents and the bid shall be deemed non-responsive and rejected.

BE IT FURTHER RESOLVED, the City Council approves budget transfers from Water System Funds in the amount of \$843,000, to Account No. C7044 to fully fund the Project.

* * * * *

I HEREBY CERTIFY the foregoing is a true and correct copy of a resolution duly adopted by the City Council of the City of Martinez at a Regular Meeting of said Council held on the 21st day of December, 2016, by the following vote:

AYES:

NOES:

ABSENT:

RICHARD G. HERNANDEZ, CITY CLERK
CITY OF MARTINEZ

RESOLUTION NO. - 16

AUTHORIZING THE CITY MANAGER TO AMEND THE CAROLLO ENGINEERS TASK ORDER AGREEMENT FOR CONSULTANT SERVICES FOR THE DESIGN OF THE 2016 FLOCCULATOR PADDLE REPLACEMENT AND FINISHED WATER PIPE IMPROVEMENT PROJECT NO. C7044 TO INCLUDE DESIGN AND CONSTRUCTION PHASE SUPPORT SERVICES IN AN AMOUNT NOT TO EXCEED \$83,300

WHEREAS, the Capital Improvement Plan includes the 2016 Flocculator Paddle Replacement and Finished Water Pipe Improvement Project, No. C7044 (Project); and

WHEREAS, it is necessary to hire a consultant team with expertise in civil and structural engineering to provide construction support during the construction phase of the Project; and

WHEREAS, Carollo Engineers, Inc. was selected through a competitive selection process and completed the design of the Project improvements; and

WHEREAS, Carollo Engineers, Inc. is most familiar with the design and possesses the base information and knowledge to most cost effectively provide construction phase services support for the Project; and

NOW, THEREFORE, IT BE RESOLVED by the Council of the City of Martinez, the City Manager is authorized to execute a contract amendment for Task Order 5 of the On-call Consultant Services Agreement with Carollo Engineers, Inc. for construction phase support services for the 2016 Flocculator Paddle Replacement and Finished Water Pipe Improvement, Project No. C7044 in the not to exceed amount of \$83,300.

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AYES:

NOES:

ABSENT:

RICHARD G. HERNANDEZ, CITY CLERK
CITY OF MARTINEZ