



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: MARCH 9, 2020

ITEM NO: 7

SUBJECT: WORK ORDER NO. 1912417 IN THE TOTAL AMOUNT OF \$323,000 FOR CONSTRUCTION OF ROYAL PALM WATER MAIN REPLACEMENT PROJECT

ISSUE:

Approve Work Order No. 1912417 in the total amount of \$323,000 for all design, construction, paving and construction contingency costs for the Royal Palm Water Main Replacement Project.

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 1912417 in the total amount of \$323,000 for all design, construction, paving and construction contingency costs for the Royal Palm Water Main Replacement Project.

BACKGROUND:

The Royal Palm Water Main Replacement Project is part of Riverside Public Utilities' (RPU) ongoing water main replacement program to replace old and high priority water mains. The project area consists of existing 6-inch and 8-inch asbestos cement water mains that were installed in 1956 and 1964, respectively. The 8-inch segment of pipeline is located within an easement along the northeasterly edge of the Rancho Riverside Mobile Home Park. Access to this segment of pipeline is very challenging due to its location within the backyards of mobile home residents. In addition, the water meter for the mobile home park is located behind a block wall in a resident's side yard, rendering it very difficult to access and maintain.

This project facilitates abandoning the segment of water pipeline within the easement and relocates the existing water meter in the public right-of-way according to RPU's current standards. These pipelines have been identified as high priority pipelines for replacement to enhance system reliability and improve fire flow capacity.

This project is in line with RPU's infrastructure road map and Utility 2.0 and directly benefits RPU water customers within the vicinity of the project in terms of system reliability and improved fire protection.

DISCUSSION:

The work generally entails the construction of approximately 455 linear feet of 8-inch ductile iron pipe, 10 linear feet of 6-inch ductile iron pipe, 35 linear feet of 4-inch ductile iron pipe, seven (7) water services, one (1) fire hydrant and three (3) system connections, along with all necessary fittings, appurtenances and related incidental work. The work also involves abandoning approximately 10,070 linear feet of 8-inch, 6-inch and 4-inch old water pipelines and related facilities. Once the pipelines are abandoned, the easement

will be relinquished to the underlying property owner. The new water facilities will be installed according to RPU's current standards.

The work identified will be constructed by the Water Division's field forces and is not expected to disrupt service to RPU water customers.

Once the new water mains are installed, RPU will be responsible for standard trench repaving in accordance with the Public Works Department (PW) standards. PW may perform trench repaving for pipeline projects constructed by the Water Division's field forces. However, if the backlog of PW projects precludes the pipeline paving to occur on schedule, staff will solicit paving bids from RPU's Paving Contractor Panel. A budgetary estimate for the paving work has been included in this authorization.

Staff has coordinated with PW regarding the allowable working hours for this project. The work will occur during daytime work hours.

The project/fiscal breakdown is as follows:

Project and Fiscal Breakdown		Total Project
Work Type:	Performed By:	Amount:
Engineering	Internal Staff	\$47,000
Construction	RPU Water Field Forces	\$160,000
Paving Budget	PW or RPU Paving Contractor Panel	\$75,000
Construction Management, Inspection, Materials Testing and Engineering Support	Internal Staff and Consultant Panel	\$25,000
Construction Contingencies	N/A	\$16,000
Work Order Total:		\$323,000
Reimbursements:		None
Anticipated Start Date:		March 2020
Anticipated Duration:		2 Months

The table above identifies the parties that have performed and are expected to perform various portions of the project. Should there be a need to seek additional services using the formal procurement process, such items in excess of \$50,000 will be brought before the Board of Public Utilities (Board) for consideration and action.

As a percentage of the overall project cost, the engineering effort for smaller projects is generally higher as compared to the engineering effort for larger projects. This is due to greater economies of scale that are achieved on larger projects. In addition to this project being rather small, the engineering effort included extra investigation and coordination related to abandoning the existing pipeline and relocating the existing water meter from private property to the public-right-of-way.

FISCAL IMPACT:

The total fiscal impact is \$323,000. Sufficient funds are available in the Public Utilities' Water Main Replacement Account No. 6230000-470707.

Prepared by: Todd L. Jorgenson, Utilities Assistant General Manager/Water
Approved by: Todd M. Corbin, Utilities General Manager
Approved by: Al Zelinka, FAICP, City Manager
Approved as to form: Gary G. Geuss, City Attorney

Certifies availability
of funds: Brian Seinturier, Utilities Fiscal Manager

Attachments:

1. Project Site Map
2. Presentation

