



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: SEPTEMBER 11, 2023

SUBJECT: CONSTRUCTION OF THE GLENCOE DRIVE AND MONTICELLO AVENUE WATER MAIN REPLACEMENT PROJECT (PHASE I) – WORK ORDER NO. 1805878 IN THE AMOUNT OF \$1,700,000

ISSUE:

Consider approval of Work Order No. 1805878 in the total amount of \$1,700,000 for all engineering, construction, paving and construction contingency costs for the Glencoe Drive and Monticello Avenue Water Main Replacement Project (Phase I).

RECOMMENDATION:

That the Board of Public Utilities approve Work Order No. 1805878 in the total amount of \$1,700,000 for all engineering, construction, paving and construction contingency costs for the Glencoe Drive and Monticello Avenue Water Main Replacement Project (Phase I).

BACKGROUND:

Water Division staff budgets and schedules the replacement of water distribution pipelines annually based on several factors via a Business Risk Exposure (BRE) model that considers pipeline age, material, maintenance records, and the criticality of each pipeline segment of the water distribution system. The BRE model has proven valuable in identifying and prioritizing water main replacement projects. Water staff presented the use and functionality of the BRE to the Board of Public Utilities Water Committee on October 13, 2021.

This project is part of an ongoing water main replacement program to replace old and high-priority water mains. The project area consists of 6-inch cast iron and 8-inch ductile iron water pipelines installed between 1957 and 1998. These pipelines have experienced over 20 reported leaks, of which 11 have occurred since 2005. These water pipelines rank high for replacement based on leak history, age, material, and size. Replacing these pipelines ensures continued water system reliability.

The unusually high number of leaks and premature failure of some of the pipelines in this area is suspected to have been accelerated by soil conditions in the vicinity of this project that are considered corrosive to ferrous material. By installing pipelines made of Molecularly Oriented Polyvinyl Chloride (PVCO) material, we expect the newly installed water pipelines will achieve a longer service life since PVCO is not known to be adversely affected by the soil conditions in this area.

In addition, as part of the City of Riverside’s interdepartmental collaborative efforts, by completing this project at this time, RPU has an opportunity to save on paving costs on Glencoe Drive since the Public Works Department (PW) will be performing pavement rehabilitation on Glencoe Drive as part of their Fiscal Year 2022/23 Street Maintenance Project (Phase II), anticipated to begin in the early part of 2024. RPU will be responsible for restoring the pavement within the pipeline trench along Glencoe Drive. However, the final asphalt cap will be performed as part of PW’s street rehabilitation work. RPU will be responsible for completing the full trench repaving for the remaining streets within the project area in accordance with PW standards.

DISCUSSION:

The work generally entails the construction of approximately 3,640 linear feet of 8-inch PVC pipe pipeline, 75 water services, six fire hydrants, and six system connections, along with all necessary fittings, appurtenances, and related incidental work, which will be installed according to RPU’s current standards. The Water Division’s field forces will construct the work. Besides routine service tie-overs, there will be no disruption of service.

Once the new water mains are installed, RPU will be responsible for standard trench repaving in accordance with 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 from occurring 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.

Water Division staff has coordinated with PW regarding allowable working hours for this project. The work will occur during normal daytime work hours. Staff is coordinating with the Office of Communications Division of the City Manager’s Office to establish a project informational website. Additionally, a notification letter will be mailed to customers within the surrounding area upon approval of the project. Staff will continue to reach out directly to customers within the vicinity of the project throughout the project duration.

The project/fiscal breakdown is as follows:

Project and Fiscal Breakdown					
Work Type:	Performed By:			Amount:	Percent of Total:
Design and Survey	Internal Staff			\$140,557	8.2%
Geotechnical Investigation	Informal Procurement (Geomat Testing Laboratories, Inc.)			\$14,043	0.8%
Construction	RPU Water Field Forces	Labor	\$337,000	\$914,000	53.8%
		Equipment	\$161,000		
		Materials	\$416,000		
Paving Budget	PW or RPU Paving Contractor Panel			\$500,000	29.4%

Construction Management, Inspection and Engineering Support	Internal Staff			\$40,000	2.4%
Construction Contingencies	N/A			\$91,400	5.4%
Work Order Total:				\$1,700,000	100%
Reimbursements:	None				
Anticipated Start Date:	October 2023				
Anticipated Duration:	6 Months				

The table above identifies the type of work, who will perform the work and the estimated cost for each category. If needed, additional services valued at more than \$50,000 will be solicited through a formal procurement process and brought before the Board of Public Utilities for consideration and action.

STRATEGIC PLAN ALIGNMENT:

This item contributes to **Strategic Priority 6 - Infrastructure, Mobility and Connectivity** and **Goal 6.2** – Maintain, protect, and improve assets and infrastructure within the City’s built environment to ensure and enhance reliability, resiliency, sustainability, and facilitate connectivity.

This item aligns with each of the five Cross-Cutting Threads as follows:

1. **Community Trust** – A public facing project website will be deployed for this project conveying key information about the project to the community.
2. **Equity** – RPU endeavors to provide safe and reliable water service to all its customers. Since RPU’s water system is an interconnected network, investments made to individual parts of the system improve the reliability of the overall system, thereby providing an equitable benefit to all customers.
3. **Fiscal Responsibility** – RPU is a prudent steward of public funds and uses efficient practices to complete its work while also providing quality public services.
4. **Innovation** – A collaborative and innovative approach was used to relocate the conflicting water facilities in such a way to minimize potential disruptions to the community in the future.
5. **Sustainability & Resiliency** – The construction materials specified for this project are considered best practices in the industry and are expected to last well into the future.

FISCAL IMPACT:

The total project cost is estimated at \$1,700,000. Sufficient funds are available in the Public Utilities' Water Main Replacement Account No. 6230000-470707.

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Certifies availability
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Approved as to form: Phaedra A. Norton, City Attorney

Attachments:

1. Project Location Map
2. Presentation