



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: JULY 10, 2017

ITEM NO: 9

SUBJECT: CONSTRUCTION OF THE INDIANA AVENUE AND MARY STREET WATER DISTRIBUTION MAIN REPLACEMENT PROJECT – 3,485 FEET OF NEW POTABLE WATER PIPELINE – AWARD OF BID NO. RPU-7494 TO C.P. CONSTRUCTION CO., INC. OF ONTARIO, CALIFORNIA, IN THE AMOUNT OF \$1,284,968 – APPROVE WORK ORDER NO. 1422097 FOR \$2,017,000

ISSUES:

Award Bid No. RPU-7494 to C.P. Construction Co., Inc. of Ontario, California, for the construction of the Indiana Avenue and Mary Street Water Distribution Main Replacement Project in the amount of \$1,284,968; and approve the expenditure of \$2,017,000 for Work Order No. 1422097.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Award a contract for the construction of the Indiana Avenue and Mary Street Water Distribution Main Replacement Project – Bid No. RPU-7494 to the lowest responsive and responsible bidder, C.P. Construction Co., Inc. of Ontario, California, in the amount of \$1,284,968; and
2. Approve the capital expenditure of \$2,017,000 for Work Order No. 1422097, which includes all design, construction, paving, contract administration, inspection and construction contingency costs for the Indiana Avenue and Mary Street Water Distribution Main Replacement Project.

BACKGROUND:

The construction of the Indiana Avenue and Mary Street Water Distribution Main Replacement Project is part of RPU's ongoing water main replacement program to replace old and high priority leaky mains. The project area consists of existing 4-inch cast iron pipeline and 4-inch asbestos cement pipeline installed in the 1940's. Based on their leak history, age and size, these water pipelines are high priorities for replacement to enhance system reliability and increase fire flow. This project will increase the capacity of the existing distribution pipelines to eliminate their dependence on a parallel transmission pipeline to achieve the required fire flow.

This project is in line with Riverside Public Utilities' (RPU) 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. This project consists of approximately 0.7 miles of replacement water main, representing about 27% of RPU's goal for water main replacements during fiscal year 2017/18. The following table summarizes the water main replacement projects that have been approved for fiscal year 2017/18:

Project Name	Construction Performed By	Budget (Millions)	Length (Miles)	Percent of Planned
Indiana and Mary	Contractor	\$2.0	0.7	27%
Total		\$2.0	0.7	27%
Planned FY17/18		\$3.4	2.6	

DISCUSSION:

The work will entail the construction of approximately 3,415 linear feet of 12-inch ductile iron pipe, 35 linear feet of 8-inch ductile iron pipe, 35 linear feet of 6-inch ductile iron pipe, 25 linear feet of 24-inch steel casing pipe installed via bore and jack beneath the Riverside Canal, 9 fire hydrants, 4 fire services, 43 water services and eight system connections along with all necessary fittings and appurtenances. The trench resurfacing is also included as part of this contract in accordance with the Public Works Department (PW) and California Department of Transportation (Caltrans) paving standards.

A portion of the work will occur within Caltrans right-of-way where the eastbound 91-freeway off-ramp for Arlington Avenue connects with Indiana Avenue. Staff has coordinated with Caltrans and PW regarding the allowable working hours for this project. The work along Indiana Avenue between the off-ramp and Arlington Avenue will occur during nighttime hours. The balance of the work will occur during daytime hours. When school is in session, the work hours will be modified slightly to coincide with off-peak traffic and pedestrian travel times to minimize disruptions to schools in the area. The work will not affect service to RPU water customers.

Bid RPU-7494 was advertised on May 17, 2017, and the bids were opened on May 31, 2017. Six construction contractors submitted bids. Staff has determined that C.P. Construction Co., Inc. submitted the lowest responsive bid. Staff has reviewed all provided documentation and has determined that C.P. Construction Co., Inc. has met all of the requirements of the specifications.

The table below summarizes the six bids received:

	<u>COMPANY</u>	<u>CITY LOCATION</u>	<u>BID TOTAL</u>
1.	C.P. Construction Co., Inc.	Ontario, CA	\$1,284,968
2.	Hemet Mfg. Co. Inc. dba Genesis Construction	Hemet, CA	\$1,405,680
3.	T.E. Roberts, Inc.	Orange, CA	\$1,543,238
4.	Downing Construction, Inc.	Redlands, CA	\$1,612,500
5.	Norstar Plumbing and Engineering, Inc.	Rancho Cucamonga, CA	\$1,899,860
6.	TK Construction	San Bernardino, CA	\$1,998,561

► *Engineer's Construction Cost Estimate \$1,012,000*

The bid was higher than the engineer's estimated amount largely due to higher than expected costs for furnishing and installing the 12-inch ductile iron pipe and paving, likely associated with the busy work area and nighttime working hours.

The Purchasing Services Manager concurs that the recommended actions comply with the City of Riverside's Purchasing Resolution No. 22576.

The project breakdown is as follows:

Project Breakdown:	
Engineering Performed By:	RPU Engineering staff
Construction to be Performed By:	C.P. Construction Co., Inc.
Anticipated Start Date:	August 2017
Anticipated Duration:	5 months
Coordination Required With:	<ul style="list-style-type: none"> ▪ RPU Field Forces ▪ Caltrans
Reimbursements:	None

The total expenditure for Work Order No. 1422097 is estimated to be \$2,017,000 as summarized in the following table:

Description	Cost	Percent of Total
Design	\$99,182.32	4.9%
Construction (C.P. Construction Co., Inc.)	\$1,284,968.00	63.7%
Construction Contingencies	\$112,849.68	5.6%
System Connections and Service Tie-overs	\$275,000.00	13.6%
Construction Management, Engineering Support and Permit Fees	\$110,000.00	5.5%
Inspection and Geotechnical Testing	\$135,000.00	6.7%
Work Order Total	\$2,017,000.00	100.0%

FISCAL IMPACT:

Sufficient funds are available in the Public Utilities' Water Main Replacements Account No. 6230000-470707.

Prepared by: Todd L. Jorgenson, Utilities Assistant General Manager/Water

Approved by: Girish Balachandran, Utilities General Manager

Approved by: John A. Russo, City Manager

Approved as to form: Gary G. Geuss, City Attorney

Certifies availability of funds: Laura Chavez-Nomura, Utilities Assistant General Manager/Finance

Attachments:

1. Presentation
2. Bid Award Recommendation

