

# Magnolia Avenue Techite Pipe and Pressure Reducing Station Replacement Project

Riverside Public Utilities

Board of Public Utilities

July 9, 2018

RiversideCA.gov

## BACKGROUND

1. Techite pipe is a vulnerability of RPU's water system.
2. RPU has begun replacing Techite pipe.
3. Public Works Department street improvement project along Magnolia Avenue between Buchanan Street and Hole Avenue.



2

RiversideCA.gov

## BACKGROUND (CONT.)

4. Opportunity to replace Techite pipe and realize cost savings.
5. A budgetary amount of \$484,000 was approved on January 8, 2018 for upfront design costs.
6. A Supplemental Appropriation of \$5,216,000 was approved by the City Council on March 13, 2018.



3

RiversideCA.gov

## BACKGROUND (CONT.)

7. Coordination with Public Works.
8. Coordination with Energy Delivery Division.
9. Major business district; Nighttime construction at select locations.



4

RiversideCA.gov

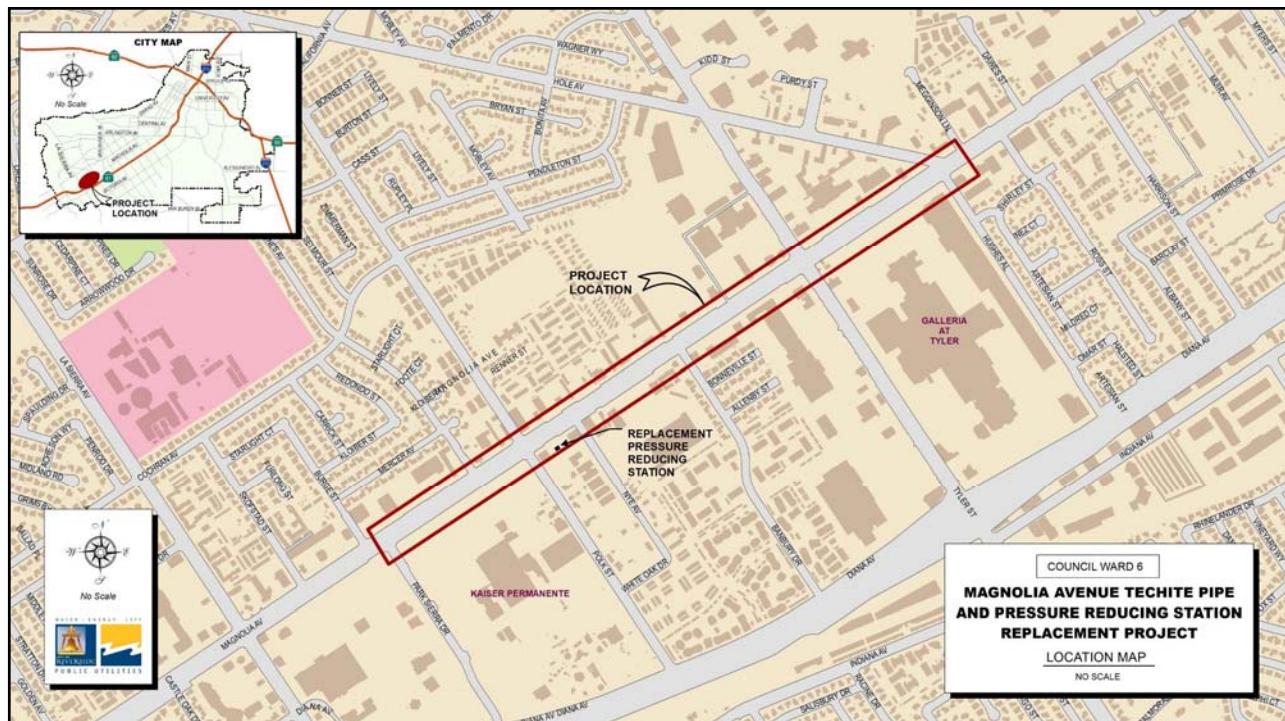
## BACKGROUND (CONT.)

10. Initially advertised the project in March 2018.
11. Bids received were high; Rejected all bids and retooled the scope of work.
12. Re-advertised the project in April 2018.



5

RiversideCA.gov





## PROJECT DESCRIPTION

1. Steel Pipe
  - a) 5,700 feet of 42-inch



2. Ductile Iron Pipe
  - a) 2,960 feet of 12-inch
  - b) 50 feet of 8-inch
  - c) 10 feet of 6-inch



8

RiversideCA.gov



## PROJECT DESCRIPTION (CONT.)

3. Pressure Reducing Station



4. Nineteen water services



9

RiversideCA.gov

## PROJECT DESCRIPTION (CONT.)

5. Six Fire Hydrants



6. Trench Paving



10

RiversideCA.gov

## BID RESULTS

1. The project was originally advertised on March 22, 2018.
2. Bids were higher than expected; exceeded the budget.
  - a) Tariff on imported steel and aluminum
  - b) Higher than expected material and labor costs
3. Purchasing Manager rejected all bids on April 10, 2018
  - a) Allow staff to retool the scope of work and re-advertise to achieve cost savings
4. Re-advertised on April 20, 2018.



11

RiversideCA.gov

## BID RESULTS (CONT.)

	<u>COMPANY</u>	<u>CITY LOCATION</u>	<u>BID TOTAL</u>
1.	Weka, Inc.	Highland, CA	\$5,939,308
2.	Trautwein Construction, Inc.	Riverside, CA	\$6,038,402
3.	E.J. Meyer Company	Highland, CA	\$6,099,999

► Engineer's Construction Cost Estimate \$6,117,000



12

RiversideCA.gov

## RFP RESULTS

1. RFP for Geotechnical and Materials Testing Services was issued on May 8, 2018.
2. Thirteen proposals received.
3. SCST, Inc. of Riverside, California was selected.
4. Professional Consultant Services Agreement negotiated for \$101,628.



13

RiversideCA.gov

## PROJECT BREAKDOWN

Project Breakdown:	
Engineering Performed by:	RPU Engineering staff
Construction Performed by:	Weka, Inc.
Anticipated Start Date:	August 2018
Anticipated Duration:	8 Months
Coordination Required With:	<ul style="list-style-type: none"><li>▪ RPU Field Forces</li><li>▪ RPU Energy Delivery Division</li><li>▪ Public Works Department</li></ul>
Reimbursements:	None



14

RiversideCA.gov

## PROJECT BUDGET BREAKDOWN

Description	Pipeline (1612632)	PRS (1727999)	Total	Percent of Total
Construction (Weka, Inc.)	\$5,477,914	\$461,394	\$5,939,308	74.9%
Construction Change Order Authority	\$547,791	\$46,139	\$593,930	7.5%
City Forces Construction Support, System Connections, Service Tie- overs, PRS Electrical Service, and Easement Acquisition	\$490,295	\$51,467	\$541,762	6.8%
Construction Management and Engineering Support	\$90,000	\$15,000	\$105,000	1.3%
Inspection and Geotechnical and Materials Testing	\$245,000	\$25,000	\$270,000	3.4%
<b>Increase to Work Order</b>	<b>\$6,851,000</b>	<b>\$599,000</b>	<b>\$7,450,000</b>	
Original Work Order amount for upfront Design and Utility Potholing, authorized January 8, 2018	\$484,000		\$484,000	6.1%
<b>Revised Work Order Total</b>	<b>\$7,335,000</b>	<b>\$599,000</b>	<b>\$7,934,000</b>	<b>100.0%</b>



15

RiversideCA.gov

## RECOMMENDATIONS

That the Board of Public Utilities:

1. Award Bid No. RPU-7569 to Weka, Inc., of Highland, California, in the amount of \$5,939,308;
2. Authorize additional change order authority for the Weka, Inc. Construction Contract in the amount of 10% or \$593,930 for Bid No. RPU-7569;
3. Approve a Professional Consultant Services Agreement from RFP 1826 with SCST, Inc. of Riverside, California, for Geotechnical and Materials Testing Services for the Magnolia Avenue Techite Pipe and Pressure Reducing Station Replacement Project, term through June 30, 2019, in a not-to-exceed amount of \$101,628;
4. Authorize the City Manager, or his designee, to execute the Professional Consultant Services Agreement with SCST, Inc., including making minor and non-substantive changes;



16

RiversideCA.gov



## RECOMMENDATIONS (CONT.)

5. Approve the increased capital expenditure for Work Order No. 1612632 for the Pipeline Replacements in the amount of \$6,851,000 for a revised work order total of \$7,335,000 which includes all design, utility potholing, construction, paving, contract administration, inspection and construction change order authority costs for the Magnolia Avenue Techite Pipe and Pressure Reducing Station Replacement Project;
6. Approve the capital expenditure for Work Order No. 1727999 for the Pressure Reducing Station Replacement in the amount of \$599,000 which includes all design, utility potholing, property acquisition, construction, paving, contract administration, inspection and construction change order authority costs for the Magnolia Avenue Techite Pipe and Pressure Reducing Station Replacement Project; and
7. Authorize the City Manager, or his designee, to increase or decrease the above-noted work order amounts, in collective amounts not-to-exceed the total project cost of \$7,934,000.



17

RiversideCA.gov