

# RIVERSIDE PUBLIC UTILITIES

## Board Memorandum

**BOARD OF PUBLIC UTILITIES**

**DATE:** APRIL 9, 2018

**ITEM NO:** 5

**SUBJECT:** AWARD BID NO. RPU-7498 FOR THE RIVERSIDE SUBSTATION METAL GATE REPLACEMENT PROJECT TO ATOM ENGINEERING CONSTRUCTION, INC. OF HEMET, CALIFORNIA, IN THE AMOUNT OF \$247,398 – APPROVE WORK ORDER NO. 1407577 FOR \$337,699

**ISSUES:**

Award Bid No. RPU-7498 to ATOM Engineering Construction, Inc. of Hemet, California, for the Riverside Substation Metal Gate Replacement Project, in the amount of \$247,398; and approve the capital expenditure of \$337,699 for Work Order No. 1407577.

**RECOMMENDATIONS:**

That the Board of Public Utilities:

1. Award Bid No. RPU-7498 for the replacement of a metal gate at Riverside Substation, to ATOM Engineering Construction, Inc. of Hemet, California, in the amount of \$247,398; and
2. Approve Work Order No. 1407577 in the amount of \$337,699.

**BACKGROUND:**

Riverside Substation has two main entrances with metal swinging gates that open manually. The metal swinging gate to the south-west side of the substation faces the area where staff parks their vehicles.



South-West Side Gate

The size and weight of the gate has made it a challenge for personnel to open and close the gate throughout the day. Under windy conditions, the gate has represented a hazard while operating since the wind pushes on the surface area of the gate. The gate can be caught by the wind and swing forward or backward with great force. A near-miss incident in March 2016 prompted Field Services staff to request the replacement of this gate with a motorized sliding gate to prevent potential injuries.

## **DISCUSSION:**

The scope of work for this project consists of the replacement of the existing south-west manual swinging metal gate with a new motorized sliding metal gate. The project includes the demolition and disposal of the existing above and below grade gate structures, restoration of concrete and pavement, installation of sensor loops and security system, and installation of the metal panel covering to accommodate the size of the new gate. New foundations will be installed for the gate posts and metal panel coverings. All the metal sheets facing the street will be painted with an anti-graffiti coating.



Typical Motorized Metal Gate

The new gate will be motorized to eliminate the need of personnel operating the gate manually. The automation of the gate will require adding underground and above ground conduit for the control, power, and communication wiring. The grounding grid from the substation will also be extended to the outside perimeter of the gate for grounding protection. The operation of the gate will be integrated with the recently added substation security system. The existing security system will be expanded by installing additional equipment to allow the gate operation. This will add a level of security to personnel accessing the parking lot. It will also add a level of visibility to prevent unauthorized access to the facility by the use of a card reader with camera and assigned remote gate openers. This scope of work is consistent with motorized substation gate work and related improvements made at other Riverside Public Utilities (RPU) substations including, but not limited to, Plaza Substation, Casa Blanca Substation, Mountain View Substation, and Riverside Energy Resource Center (RERC).

Bid 1407577-17RPU was posted on the City's Online Bid System on March 3, 2017, as an "Invitation Only" bid to qualified members of RPU's Energy Delivery Contractor's Panel. The bid closed on April 20, 2017. No bids were received. Staff reached out to contractors to identify any issue for not receiving bids. Contractors noted that the scope of work was out of their reach and/or had conflicted schedule with their existing work load. In order to obtain bids, staff updated the specifications documents and proceeded with formal competitive bidding via an open procurement.

Bid No. RPU-7498 was posted on the City's Online Bid System on December 18, 2017, and closed on

February 1, 2018. Two firms submitted bids for the specified work. The bid amount of the lowest responsive and responsible bidder, ATOM Engineering Construction, Inc. is 24% or \$47,398 higher than the engineer’s estimated amount of \$200,000.

The engineer’s estimate was generated using compatible bid items from previous projects that included gate installations as part of larger improvement projects. Upon review, staff identified that some of the bid items included larger mark-up costs than what staff anticipated which made the engineer’s estimate to be lower than the submitted bids. Staff evaluated the bids taking the new information into consideration and deemed ATOM Engineering Construction, Inc. of Hemet, California to be the lowest responsive and responsible bidder. The bids are summarized in the table below:

Vendors:	Location	Bid Amount	Evaluation
1. ATOM Engineering Construction, Inc.	Hemet, CA	\$247,398	Lowest Responsive and Responsible Bidder
2. Epsilon Engineering	Moreno Valley, CA	\$299,891.30	2 <sup>nd</sup>
➤ <i>Engineer's Estimate</i>		\$200,000	

The project breakdown is proposed as follows:

Project Breakdown	
Engineering Performed By:	ATOM Engineering Construction, Inc. & RPU Engineering
Civil Construction Performed By:	ATOM Engineering Construction, Inc.
Electrical Work Performed By:	ATOM Engineering Construction, Inc. & RPU Field Forces
Anticipated Start Date:	May 28, 2018
Anticipated Duration:	90 Days

The breakdown for the total capital expenditure as follows:

DESCRIPTION	AMOUNT
Project Management and Engineering	\$29,688
Contract Work – ATOM Engineering Construction, Inc.	\$247,398
Inspection and Supervision	\$44,532
Contingency (5%)	\$16,081
<b>Work Order Total</b>	<b>\$337,699</b>

**FISCAL IMPACT:**

The total fiscal impact for Work Order No. 1407577 is \$337,699. Sufficient funds are available in Public Utilities’ Substation Bus Upgrade Capital Account No. 6130000-470616.

Prepared by: George R. Hanson, Utilities Assistant General Manager/Energy Delivery  
 Approved by: Todd L. Jorgenson, Interim Utilities General Manager  
 Approved by: John A. Russo, City Manager  
 Approved as to form: Gary G. Geuss, City Attorney

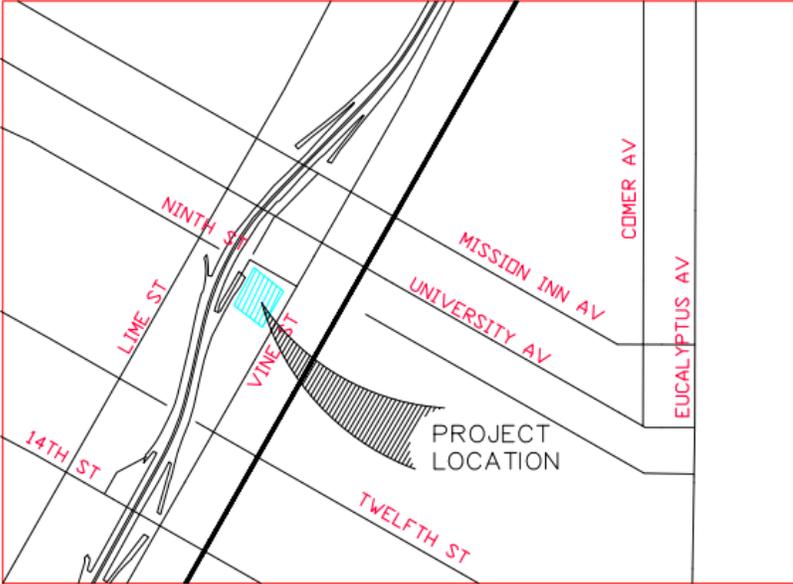
Certifies availability of funds: Laura M. Nomura, Utilities Assistant General Manager/Finance & Administration

Attachment: Award Recommendation

CITY  
OF  
RIVERSIDE



CITY MAP



**RIVERSIDE SUBSTATION  
METAL GATE REPLACEMENT PROJECT  
SITE MAP**