

# WATER SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) PHASE II DESIGN-BUILD AGREEMENT AND PROFESSIONAL SERVICES AGREEMENT

#### **Public Utilities Department**

# **City Council**

December 6, 2022

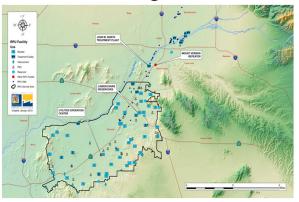
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# **BACKGROUND**

RPU Water has many remote assets including:

- 52 Wells
- 32 Booster Stations
- 16 Reservoirs
- 6 Treatment Plants
- Inter-Agency Connections
- Future sites



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## **BACKGROUND**

Supervisory Control and Data Acquisition (SCADA)

- Controls and Monitors
- Allows Remote Operation
- Provides Critical Data
- Alerts System Operators



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## **BACKGROUND**

RPU Water SCADA System was developed in the 1990s

- Obsolete Technology
- Unsupported
- Failed components
- Lack of replacement components
- Increased O&M Costs



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### **DISCUSSION**

- 1. RPU Water's SCADA system had 29 findings in the 2016 SCADA Vulnerability Assessment.
- RPU Water launched a multi-phased project to address the aging infrastructure and the critical findings.
- 3. SCADA Phase I Communications upgrade was completed in 2022.
- 4. SCADA Phase II Technology upgrade will be a 5-year project, discussed herein.
- 5. SCADA Phase III Site specific instrumentation upgrades, will be brought back, at a later date.



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### **DISCUSSION**

Multiple RFPs for SCADA Phase II:

- RFP 2031 SCADA Software Application (pricing included as a subcontractor of Design Build RFP) - Inductive Automation
- RFP 2056 Design-Build Construction Services Tesco Controls
- 3. RFP 2109 Owners Representative Eramosa International, Inc.
- 4. Ongoing Maintenance & Service Agreement Inductive Automation
- 5. RPU Staff Support

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Task Description	Performed By	Total	Percent of Total
Design-Build Construction Services	Tesco Controls	\$9,318,000	78%
10% Construction Contingency	-	\$931,800	8%
	Sub-total	\$10,249,800	
Consulting Services – Owner's Representative Professional Services	Eramosa International, Inc.	\$1,303,286	11%
10% Professional Services Contingency	-	\$130,329	1%
	Sub-total	\$1,433,615	
Annual Maintenance & Service Agreement – 4 Years	Inductive Automation SCADA Software	\$120,000	1%
Water Operations Support & Inspections	RPU Operations	\$186,360	1%
Work Order Total		\$11,989,775	100%

# STRATEGIC PLAN ALIGNMENT



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#### Strategic Priority 6 - Infrastructure, Mobility & Connectivity

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.

#### **Cross-Cutting Threads**



Community Trust



Fiscal Responsibility



Sustainability & Resiliency



Equity



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### **RECOMMENDATIONS**

#### That the City Council:

- 1. Approve the Design-Build Agreement for Water SCADA Technology Upgrade from RFP No. 2056 with Tesco Controls of Sacramento, California in the amount of \$9,318,000 plus 10% change order authority in the amount of \$931,800;
- 2. Authorize the City Manager, or designee, to execute the Design-Build Services Agreement including making minor and non-substantive changes and to sign all documents and instruments necessary to complete the transactions;



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# **RECOMMENDATIONS (CONT.)**

- the Professional Services 3. Approve Agreement for Owner's Representative Services for the Water SCADA Technology Upgrade Project from RFP No. 2109 with Eramosa International, Inc. of Overland Park, Kansas, for a term through December 31, 2028, in the amount of \$1,303,286, plus 10% change order authority in the amount of \$130,329; and
- 4. Authorize the City Manager, or designee, to execute the Professional Services Agreement including making minor and non-substantive changes and to sign all documents and instruments necessary to complete the transactions.



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