



## AGENDA

# REGULAR MEETING OF THE ENGINEERING AND OPERATIONS COMMITTEE

November 7, 2022

3:30 PM

### Call to Order

### Public Comments

*Members of the public may make comments in-person, virtually, or submit a Public Comment Request Form located at <https://www.evmwd.com/evmwd-publiccomment>, no less than one hour prior to the posted start time of the meeting. Comments shall be made in an orderly manner and profanity, slanderous, or abusive language will not be tolerated. Please note, individuals have a limit of three (3) minutes to make comments and will have the opportunity when called upon by the presiding officer.*

### Discussion Items:

1. Public Works Contract with Sancon Technologies, Inc. for the Manhole Rehabilitation Fiscal Year 2022 Project
2. Professional Services Agreement with Lee + Ro, Inc. for the Goetz Road Intertie Project
3. Task Order 23 with Systems Integrated for Terminal Control Panel and Radio Equipment for the Alberhill 1601/1676 Zone Water Pump Station
4. Operations Department Quarterly Update
5. Consider Items for Board Review
6. Discuss Future Agenda Items
7. Other
8. Adjourn

*In the interest of public health and safety, this meeting will be conducted in accordance with provisions of the Brown Act and Assembly Bill 361. Participants who would like to join this meeting remotely can do so in one of the following ways:*

#### **For Online Participation:**

Go to: [www.zoom.us/join](https://www.zoom.us/join)  
Enter Meeting ID: 851 9219 8251  
Meeting Password: 92530

#### **For Call-in Only:**

Call: (720) 707 2699  
Enter Meeting ID: 851 9219 8251  
Meeting Password: 92530



**ENGINEERING AND  
OPERATIONS COMMITTEE**

*DISCUSSION OUTLINE*

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**Date: November 7, 2022**

**Originator: Matthew Bates - Engineering**

**Subject: PUBLIC WORKS CONTRACT WITH SANCON  
TECHNOLOGIES, INC. FOR THE MANHOLE  
REHABILITATION FISCAL YEAR 2022 PROJECT**

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**STRATEGIC GOAL**

Maintain and Upgrade Infrastructure

**BACKGROUND AND RECOMMENDATION**

The Elsinore Valley Municipal Water District (District) owns and maintains over 406 miles of sewer pipes, 9,276 manholes, 38 active lift stations, and three Water Reclamation Facilities. The District continuously inspects and maintains the sewer system to ensure proper operations. During routine inspections, staff observe manhole conditions and identify future rehabilitation needs. Recent inspections have identified several manholes in need of repair and rehabilitation.

Generally, manhole deterioration is caused by hydrogen sulfide gas that corrodes the interior concrete surface resulting in structural deficiencies and safety concerns. The District's Operations department maintains an active list of manholes that are nearing the end of their useful life. This list is used to develop and implement an ongoing Manhole Rehabilitation Program.

The current project will rehabilitate three sewer manholes within Caltrans Right of Way on Collier Avenue (State Route 74). The project will also include the replacement of four 4 ft diameter manholes with 5 ft diameter manholes in the Lakeland Village Community to meet District standards. Overall, the project will improve structural integrity, prevent failures, and reduce the possibility of sanitary sewer overflows.

On October 31, 2022 a Professional Services Agreement with Reilly Construction Management was executed under General Manager's authority.

The Project was advertised for bid on August 18, 2022 via PlanetBids. On September 29, 2022, one prequalified bidder submitted a bid by the deadline as follows:

Sancon Technologies, Inc.                   \$341,920.00

Staff performed a detailed review of the bid documents and checked references. Based on staff's analysis, Sancon Technologies, Inc is determined to be the lowest, responsive, and responsible bidder.

Staff plans to present this item at the November 22, 2022 Board of Directors Meeting to recommend award of a Public Works Contract with Sancon Technologies, Inc. in the amount of \$341,920.00. This item, including overhead of \$1,710.00, as well as staff time (120 hours) & fringe benefits of \$23,956.00, totals \$367,586.00.

### **ENVIRONMENTAL WORK STATUS**

Upon approval, staff plans to file a Notice of Exemption with the State Clearinghouse as this project is categorically exempt from CEQA requirements as an activity involving replacement or reconstruction of an existing facility (15301, 15302).

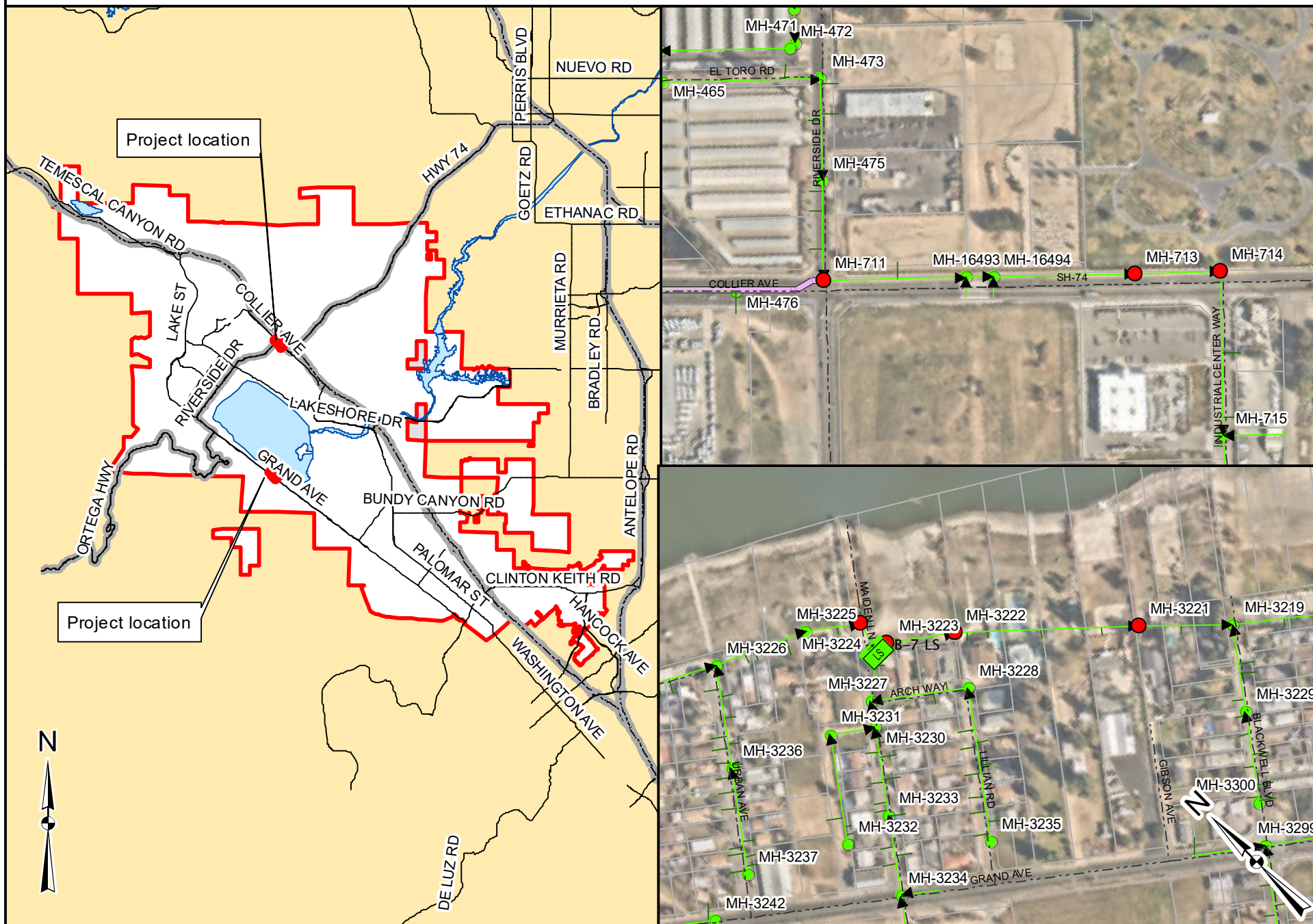
### **FISCAL IMPACT**

Within Budget – Yes.

Attachments:

Location Map

# MANHOLE REHABILITATION FY 2022



Document Path: F:\ENGIN3\_District Projects\Manhole Rehabilitation FY2022 - C2231\5. Admin\Staff Reports\Backup Documents\Manhole Rehab FY22.mxd



**ENGINEERING AND  
OPERATIONS COMMITTEE**

*DISCUSSION OUTLINE*

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**Date:** November 7, 2022

**Originator:** Matthew Bates - Engineering

**Subject:** PROFESSIONAL SERVICES AGREEMENT WITH LEE + RO,  
INC. FOR THE GOETZ ROAD INTERTIE PROJECT

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**STRATEGIC GOAL**

Optimize and Diversify Water Sourcing  
Maintain and Upgrade Infrastructure

**BACKGROUND AND RECOMMENDATION**

The Elsinore Valley Municipal Water District (District) has two main sources of water supply to the Canyon Lake area which include the Canyon Lake Water Treatment Plant and a 33-inch transmission main that crosses the Interstate 15 freeway. The Canyon Lake Water Treatment Plant is currently offline, but the Canyon Lake Treatment Plant Improvement project is currently in design and is slated to be completed in 2027.

To improve system reliability and redundancy for the Canyon Lake, Tuscany Hills, and Canyon Hills area (collectively, Canyon Lake area), Staff developed two projects:

- Lakeshore Booster Station Upgrades; and
- Goetz Road Intertie with Eastern Municipal Water District (Eastern).

The projects collectively provide two additional water supply sources to the Canyon Lake area.

The District has already taken steps to analyze and upgrade the Lakeshore Booster Station to redirect flow to the Canyon Lake area through a waterline in the Franklin Street bridge. The Lakeshore Booster Station is located along Lakeshore Drive on the west side of the I-15 Freeway at Diamond Drive. The upgrades are underway and will be completed in early 2023 by District Staff.

The second project, Goetz Road Intertie, will create an emergency interconnection with Eastern along Goetz Road north of Railroad Canyon Road. Staff engaged Eastern to discuss the project and are currently working on an Interconnection Agreement with

Eastern for the project. The project will provide a second supply source along the east end of the Canyon Lake area. The project will provide a bidirectional meter to enable either District to supply water in an emergency situation.

On August 25,2022, the District solicited proposals for Engineering Design services for the Goetz Road Intertie Project. On October 11, 2022, four proposals were received by the deadline. A review panel was established to evaluate the proposals. Based on firm qualifications, experience, and project understanding, staff concluded that LEE + RO, Inc. is most qualified. The evaluation ratings are as follows:

<b>Proposal Evaluation Criteria<sup>1</sup></b>	<b>Cost Evaluation</b>	<b>Overall Quality of Proposal</b>	<b>Relevant Qualifications / Experience</b>	<b>Scope of Work and Schedule</b>	<b>Understanding of Project and Project Approach</b>	<b>Total Score</b>
<b>Weight</b>	<b>10%</b>	<b>10%</b>	<b>25%</b>	<b>25%</b>	<b>30%</b>	<b>100%</b>
<b>Kimley-Horn and Associates, Inc.</b>	<b>71.67</b>	<b>75.00</b>	<b>195.83</b>	<b>166.67</b>	<b>180.00</b>	<b>689.17</b>
<b>LEE + RO, Inc.</b>	<b>73.33</b>	<b>78.33</b>	<b>195.83</b>	<b>191.67</b>	<b>255.00</b>	<b>794.17</b>
<b>Albert A. Webb Associates</b>	<b>60.00</b>	<b>75.00</b>	<b>200.00</b>	<b>191.67</b>	<b>210.00</b>	<b>736.67</b>
<b>Dudek</b>	<b>83.33</b>	<b>75.00</b>	<b>200.00</b>	<b>187.50</b>	<b>235.00</b>	<b>780.83</b>

<sup>1</sup> The evaluation criteria are recommended and approved by BB&K

Staff plans to present this item at the November 22, 2022 Board of Directors Meeting to recommend award of a Professional Services Agreement with LEE + RO, Inc. in the amount of \$149,849.00. This item, including overhead of \$749.00, as well as staff time (195 hours) & fringe benefits of \$39,574.00, totals \$190,172.00.

**ENVIRONMENTAL WORK STATUS**

Staff plans to file a Notice of Exemption with the Riverside County Clerk’s Office as a project categorically exempt from CEQA requirements.

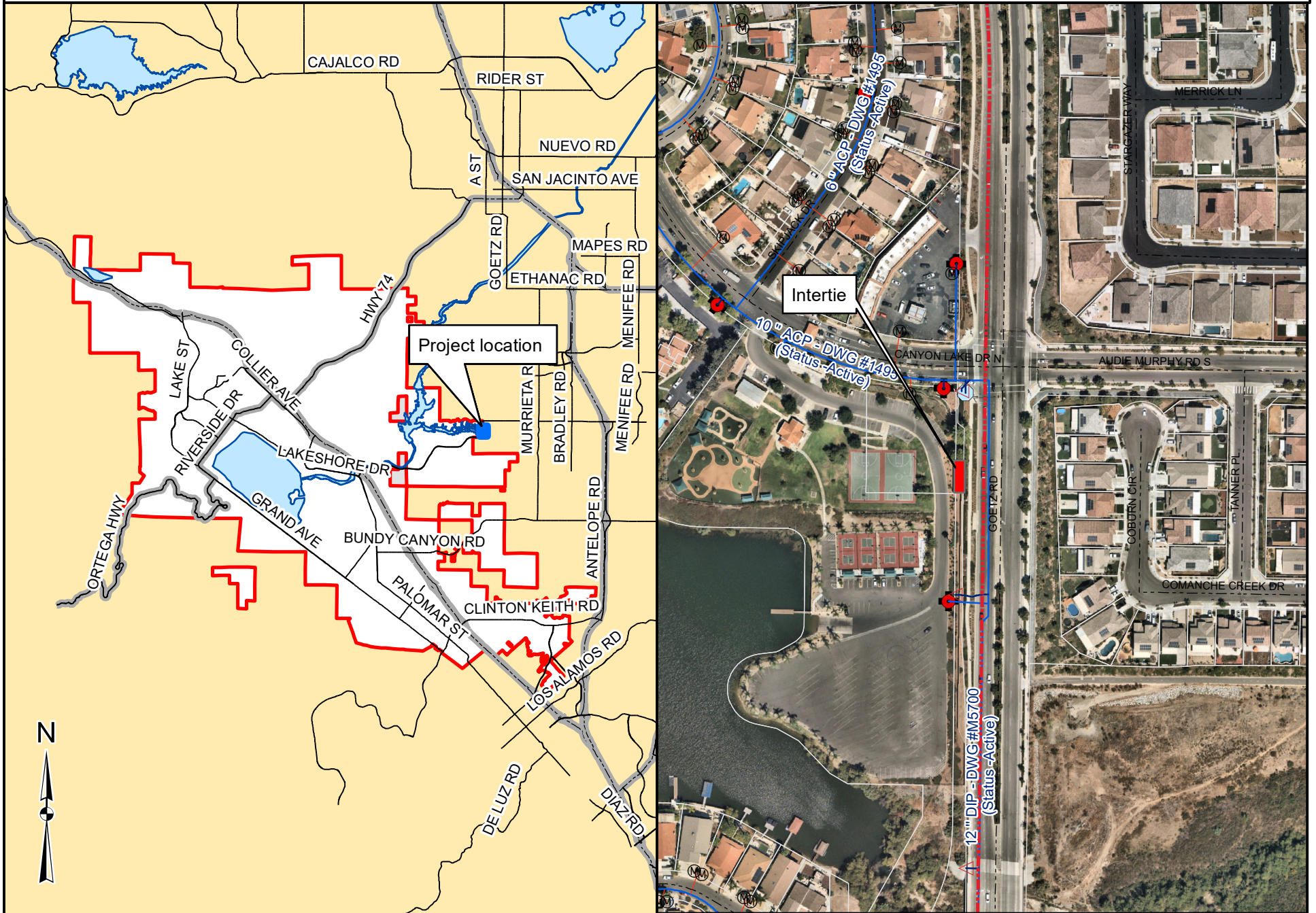
**FISCAL IMPACT**

Within Budget – Yes.

Attachments:

Location Map

# Goetz Rd Intertie C2315





**ENGINEERING AND  
OPERATIONS COMMITTEE**

*DISCUSSION OUTLINE*

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**Date:** November 7, 2022

**Originator:** Matthew Bates - Engineering

**Subject:** APPROVE TASK ORDER 23 WITH SYSTEMS INTEGRATED FOR TERMINAL CONTROL PANEL AND RADIO EQUIPMENT FOR THE ALBERHILL 1601/1676 ZONE WATER PUMP STATION

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**STRATEGIC GOAL**

Maintain and Upgrade Infrastructure  
Maintain and Upgrade Technology

**BACKGROUND AND RECOMMENDATION**

In 2004, Elsinore Valley Municipal Water District (District) selected Systems Integrated (SI) to design and build a Supervisory Control and Data Acquisition (SCADA) System replacement to monitor and control the water and wastewater systems.

On December 16, 2021, the Board of Directors approved a 5-year Master Service Agreement and Professional Services Agreement with Systems Integrated to provide support and maintenance of the District's ONSITE SCADA System and radio network.

When designing a complex facility such as a booster station, the District integrates the SCADA network and controls to facilitate remote monitoring and operations. As development expands within the Alberhill area, the developers are required to construct certain master planned water and wastewater facilities to support additional demands required to serve the projects. One such facility is the Alberhill 1601/1676 Zone Booster Station (Booster Station).

The Booster Station is located along Nichols Road immediately east of Lake Street adjacent to Alberhill Community Park. The Booster Station is designed to support two pressure zones; the 1601 and 1676 Zones with the ultimate pumping capacity of 6,000 gallons per minute (gpm) and 730 gpm, respectively. The Booster Station plans and specifications were approved by the District in May of 2022 and they commenced construction in July 2022.



To support remote monitoring and operations for the Booster Station, Staff obtained from SI Task Order 23 to supply the SCADA and radio system hardware (Hardware). The Hardware will be supplied to the Developer's contractor for installation, startup and commissioning.

Staff obtained from the Developer all the required inspection and Hardware deposits to facilitate construction oversight and Hardware material costs.

Staff plans to present this item at the November 22, 2022 Board of Directors Meeting to recommend award of Task Order 23 with Systems Integrated in the amount of \$134,300.00.

### **ENVIRONMENTAL WORK STATUS**

This item does not constitute a project under CEQA.

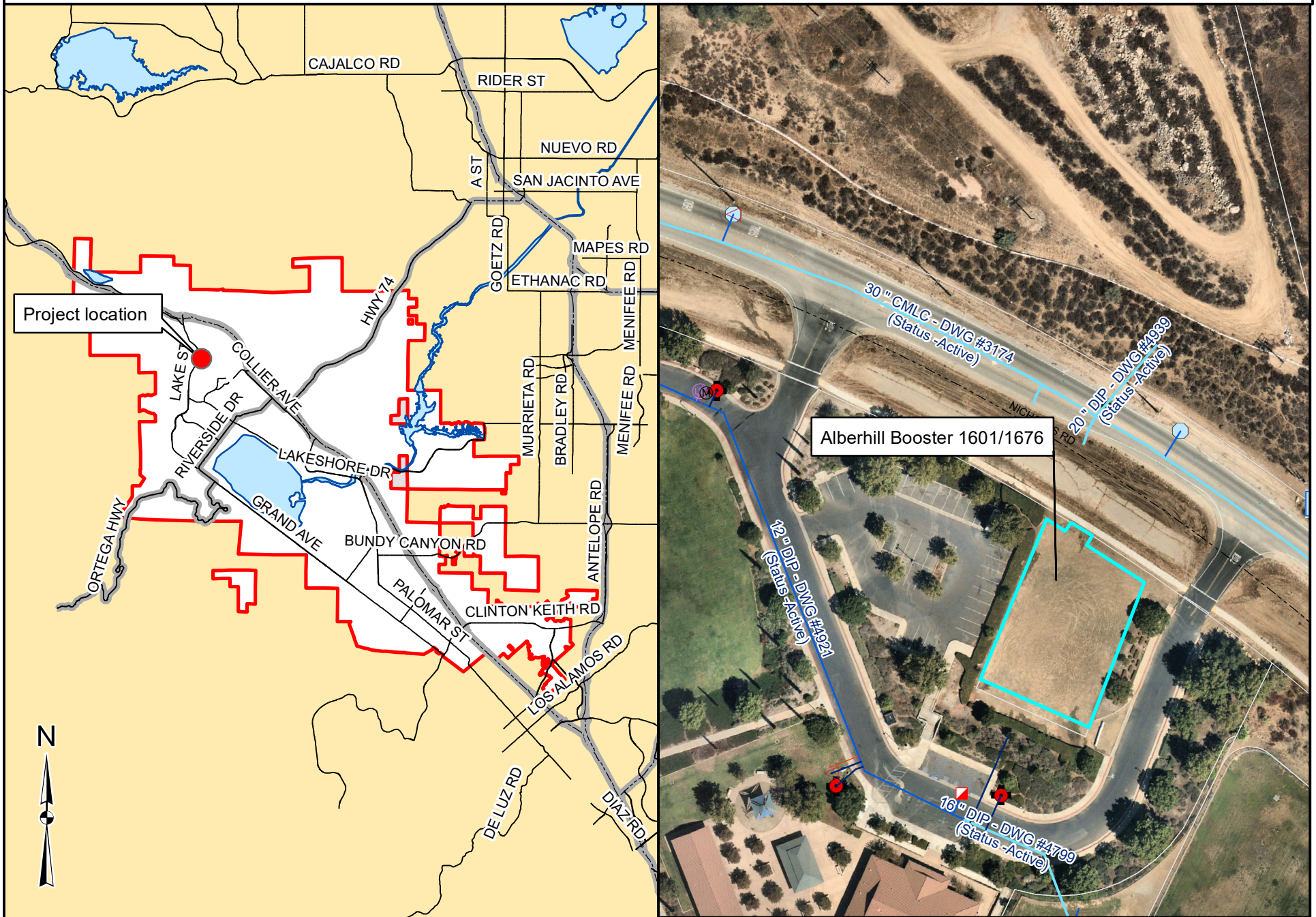
### **FISCAL IMPACT**

Within Budget – Yes. The developer has deposited with the District 100% of the required funds to purchase the Hardware equipment. Developer is responsible for installation related costs and the District has received the required inspection deposit to facilitate construction oversight.

Attachments:

Task Order 23  
Location Map

# Alberhill 1601/1676 Booster



Document Path: T:\ArcMap Projects\Water Resources\GIS Map\_Alberhill 1601, 1676 Water Booster Project Exhibit.mxd

**Elsinore Valley Municipal Water District  
Task Order Form**

Task No.: <b>23</b>	Date Requested: 8-8-2022	Order/Contract/P.O.: 1079
Requested by: David E. Smith	Reference: 21-058W	Engineering Project Manager: Mayra Cabrera (Development)

**Task Description:**

Alberhill 1601/1676 Water Zone Booster Project: Terminal Control Panel (TCP) & Radio

**Work Requested:**

Systems Integrated (SI) to provide the Terminal Control Panel (TCP) & radio equipment including the support, programming and startup of the site based upon the specification for Alberhill 1601/1676 Zone Water Booster Station as defined in SI Quote 5027-22b (issued 6-1-2022 to Mayra A. Cabrera, EVMWD). Copy of SI Quote 5027-22b attached with additional details.

**Deliverables:**

Two (2) Terminal Control Panels (3 pump control); SITEVIEW Node; Radio Antenna Mast; Radio and Startup Support. As defined in SI Quote 5027-22b.

**Estimated Costs:**

Item	Description	Qty.	Cost Per	Total Cost
1	Terminal Control Panel (3 pump control)	2	\$53,550.00	\$107,100.00
2	SITEVIEW Node	1	8,415.00	8,415.00
3	Radio Antenna Mast	1	15,385.00	15,385.00
4	Radio	1	3,400.00	3,400.00
			<b>Material Subtotal</b>	<b>\$134,300.00</b>
<i>Labor (Based on Labor Rates in Master Agreement)</i>		Hours	Cost	
Software programming and Start Up Support (as defined SI Quote 5027-22b)		Per Quote	Included	
		Subtotal:	\$134,300.00	
		Taxes:	Included	
		Total:	<b>\$134,300.00</b>	





2200 North Glassell Street, Orange, CA 92865-2702 • Tel 714/998-0900 • Fax 714/998-6059

September 27, 2022

**Quote # 5027-22b**

Rev.1

Mayra A. Cabrera  
 Senior Civil Engineer – Development Services  
**ELSINORE VALLEY MUNICIPAL WATER DISTRICT**  
 31315 Chaney Street  
 Lake Elsinore, CA 92530

Subject: EVMWD Alberhill 1601/1676 Zone Water Booster Station – Terminal Control Panel (TCP) & Radio

Dear Mayra:

Systems Integrated is pleased to submit this firm fixed price quote to provide the TPC & radio equipment, including the support, programming and startup of the site based upon the specification for Alberhill 1601/1676 Zone Water Booster Station (Work Order No. 21-058) as follows:

<b>Cost Breakdown / Analysis for Alberhill Ranch Booster Pump Station</b>				
<b>Item</b>	<b>Description</b>	<b>Qty</b>	<b>Cost Per</b>	<b>Total Cost</b>
1	Terminal Control Panel (3 pump control)	2	\$53,550	\$107,100
2	SiteView Node	1	\$8,415	\$8,415
3	Radio Antenna Mast	1	\$15,385	\$15,385
4	Radio	1	\$3,400	\$3,400
5	Start Up Support	1	Included	
<b>TOTAL</b>				<b>\$134,300</b>

The price listed above includes the following:

1. Delivery
2. All taxes
3. Start up support as indicated in this quote.
4. All software programming to support the Control Narrative (prepared by SI: Section 17400).
5. Development of the Control Narrative (Section 17400) based upon the P&ID (for those elements that are identified in the P&ID as loops).
6. Section 17301 - Except for clarifications listed below:
  - a. Section 3.01 A. - To be performed by the PICI, not PCIS Supplier.
  - b. Section 3.01 B. - To be performed by the PICI, not PCIS Supplier.

Mayra A. Cabrera  
Senior Civil Engineer – Development Services  
**ELSINORE VALLEY MUNICIPAL WATER DISTRICT**  
September 27, 2022

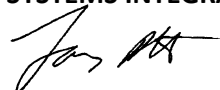
- c. Section 3.01 C. - General note: PICI shall be responsible for field validation of how the grounds are terminated.
  - d. Section 3.01 D. - This will be for the equipment installed and provided within the TCP only.
  - e. Section 3.01 E. - Patch panel will be provided for the TCP provided by the PCIS Supplier.
  - f. Section 3.01 F. - No clarifications.
7. Section 17300.
- a. Two 5447-2 Terminal Control Panel (TCP) and one (1) Operator Interface Terminal (as shown in the drawings).
  - b. Spare parts as identified in Section 1.04. – Item A.1 only, provided by the PCIS Supplier.
  - c. Radio equipment as specified in Section 2.04.
  - d. Lighting protection as specified in Section 2.05.
  - e. Section 3.01 are the requirements for the Electrician. The installation of the conduit is not under PCIS Supplier’s (Systems Integrated) scope of responsibility.
  - f. Pump station programming as specified in Section 3.02
  - g. Support Section 3.03 A, B, and D as specified.
  - h. Support Section 3.03 C as specified once all the unwitnessed and witnessed testing of the I/O and loop validation is completed per Section 16480 of the specification.
8. Section 17000. As identified for PCIS Supplier, except as noted below:
- a. Section 1.04 A - Delivery time. The current delivery time for the PLC equipment is between 28 weeks and 36 weeks. **The PCIS Supplier can’t meet the TCP delivery time of 23 weeks.**
  - b. Section 1.05, 1.06, 1.07, 1.08, 1.09, 1.10, 1.11, 1.12, 1.13, 1.15, 2.01 through 2.04, 3.01 through 3.06, 3.07 A, 3.07 B.1 & B.2, 3.08 A.1.a & c, 3.08 A 4 through 8, 3.09, 3.10, and 3.11 are all in PICI’s scope, not included PCIS Supplier’s scope.
9. The attached **Systems Integrated Terms and Conditions for Sale of Products and Services** shall apply to this project.
- Payment is net 30 after issuance of an invoice.
  - Work shall begin upon receipt of EVMWD authorization to proceed.
  - Warranty is for 18 months after delivery of equipment.

If this work is issued via an EVMWD Task Order, the terms and conditions of the underlying EVMWD contract shall apply.

This quote is valid for 60 days.

Please contact me if you have any questions regarding this quotation at 714/323-1871.

Regards,  
**SYSTEMS INTEGRATED**



Larry Pomatto  
Director of Engineering

Attachment: Systems Integrated’s Terms and Conditions for Sale of Products and Services  
SER: 5027-22b Rev. 1



**ENGINEERING AND  
OPERATIONS COMMITTEE**

*DISCUSSION OUTLINE*

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**Date:** November 7, 2022  
**Originator:** Jase Warner - Operations  
**Subject:** OPERATIONS DEPARTMENT QUARTERLY UPDATE

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**STRATEGIC GOAL**

Maintain and Upgrade Infrastructure

**BACKGROUND AND RECOMMENDATION**

During the meeting, staff will provide a Quarterly update on Operations Department Performance Measures.

**ENVIRONMENTAL WORK STATUS**

Not applicable.

**FISCAL IMPACT**

None.

Attachments:

Operations Quarterly Update

# Operations Quarterly Update

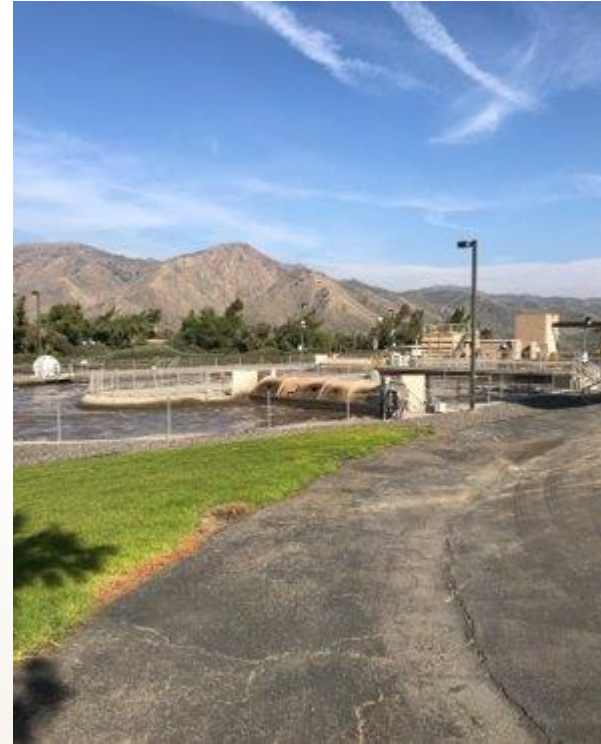
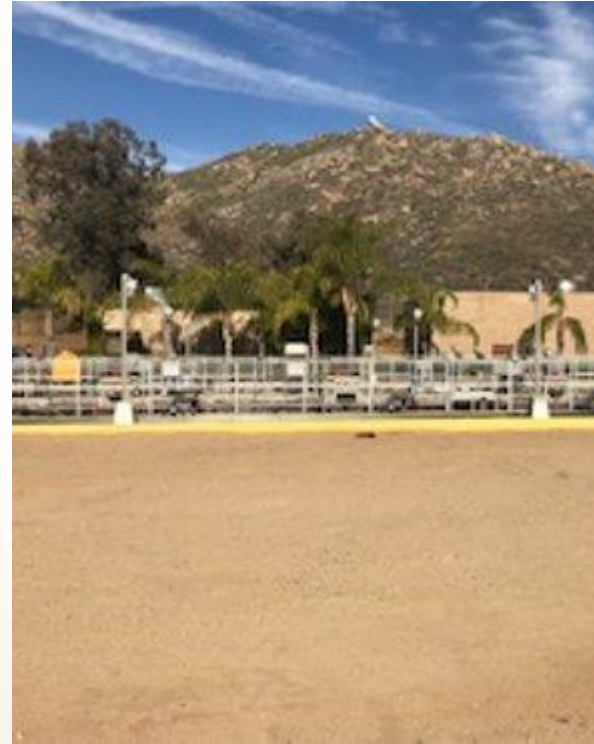
## July – September 2022

Engineering and Operations  
Committee

November 7, 2022



# Wastewater Operations Division



# Vanguard Pathogen Protection System

BEFORE



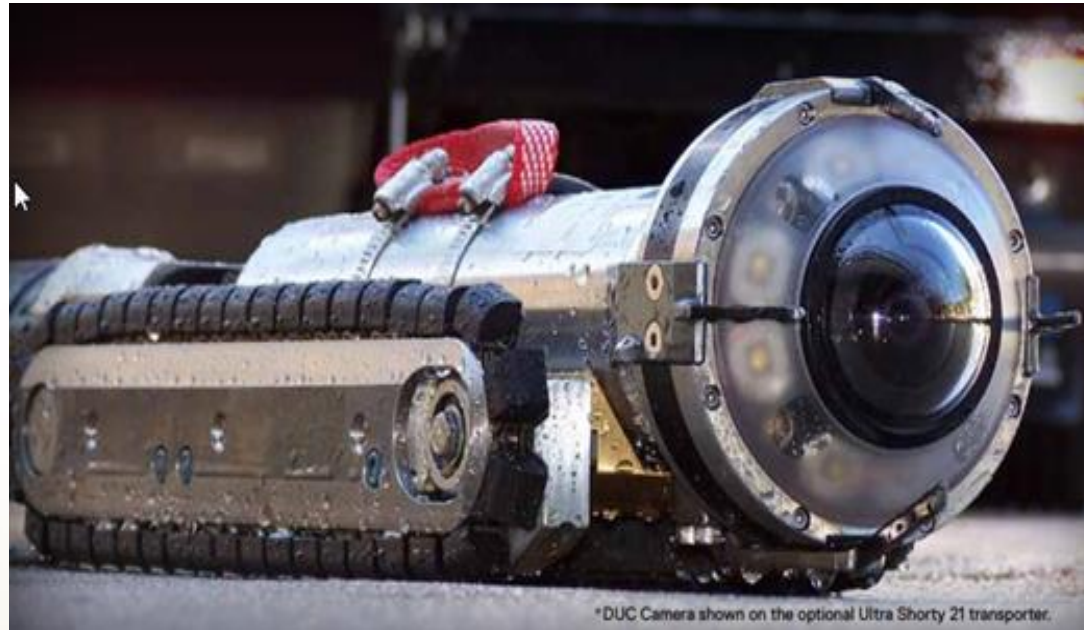
AFTER



# Vanguard Pathogen Protection System



# Cue's DUC (Digital Universal Camera)



# SSMP/WDR Training



# Water Operations Division



# Water Production Section

- Core Goals
  - Operate, inspect, and maintain 3 treatment facilities
  - Inspect and maintain 71 tanks (4 times a month)
    - Climb and inspect the tops/screens and hatches (4 times a year)
  - Inspect and maintain 55 booster stations (4 times a month)
  - Inspect and maintain 13 wells (minimum 2 times a week)
  - Hundreds of WQ, compliance and process monitoring (monthly)
  - Dam crack reads and inspections (monthly)
  - Hydro-labs on Canyon Lake (weekly)
  - Generator testing (quarterly)
  - Maintenance, Maintenance, and more Maintenance

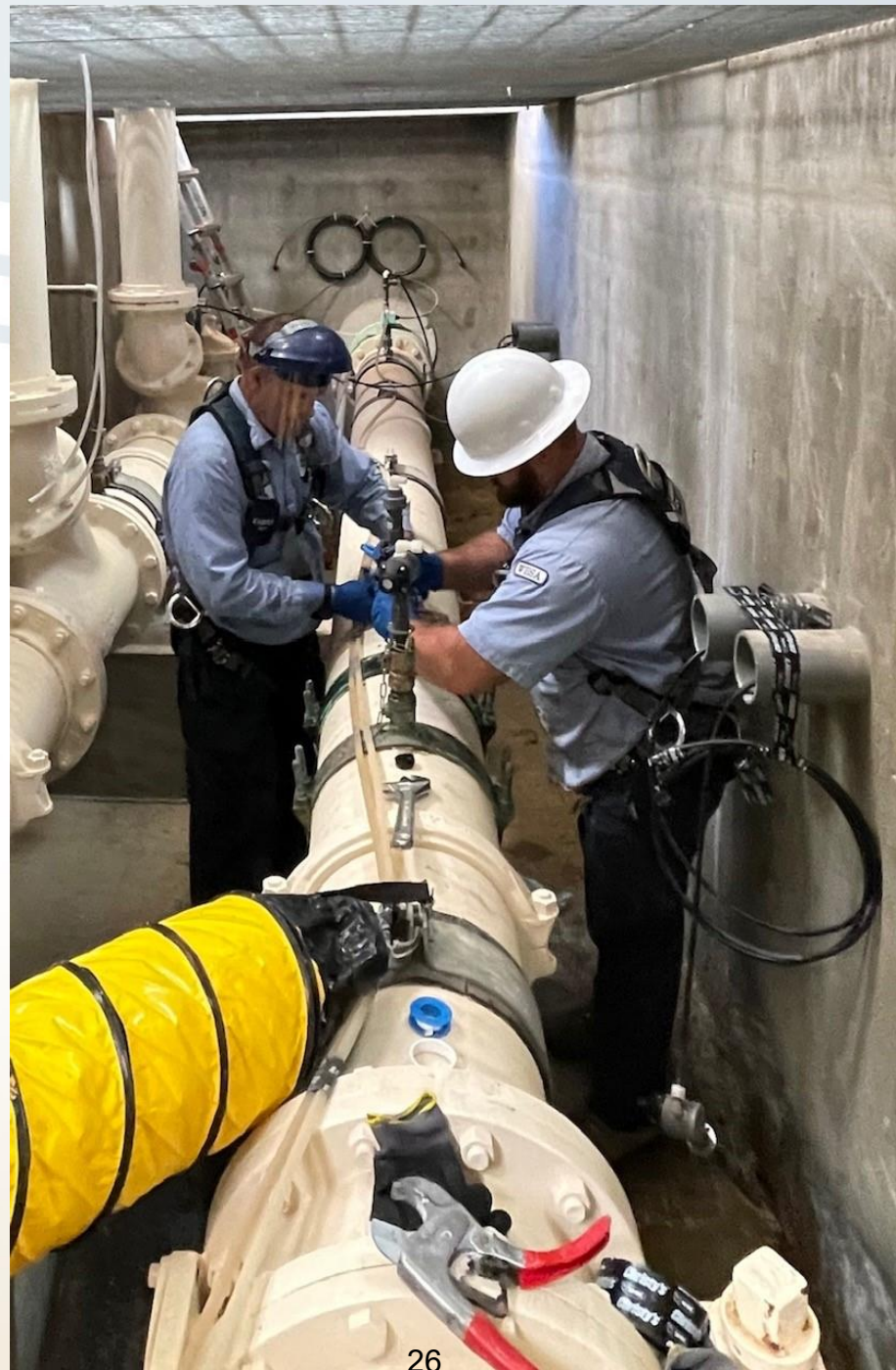
# Maintenance



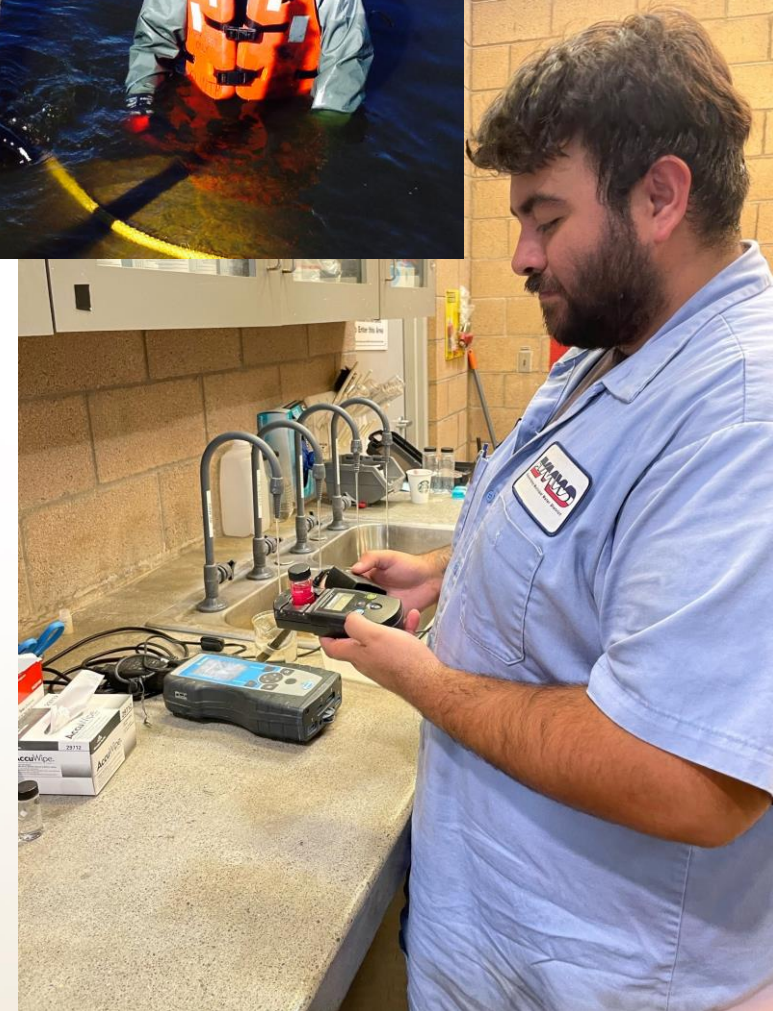


# Maintenance





# Staff



# Tours



I thoroughly enjoyed the tour - very knowledgeable and friendly staff. I got a full scope of how the plant works, all questions were answered great job!

# Maintenance Division



# Lee Lake Encampment



# Lee Lake Encampment



# Lee Lake Encampment





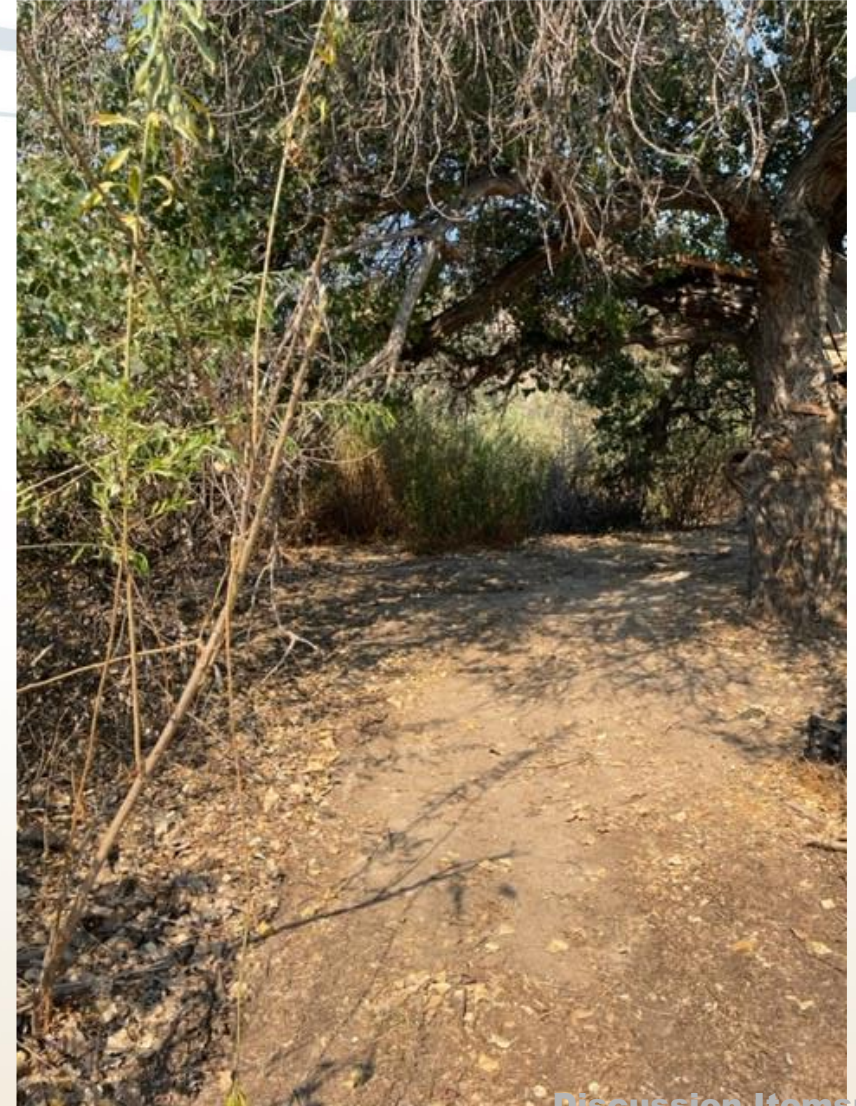
# Lee Lake Encampment



# Lee Lake Encampment



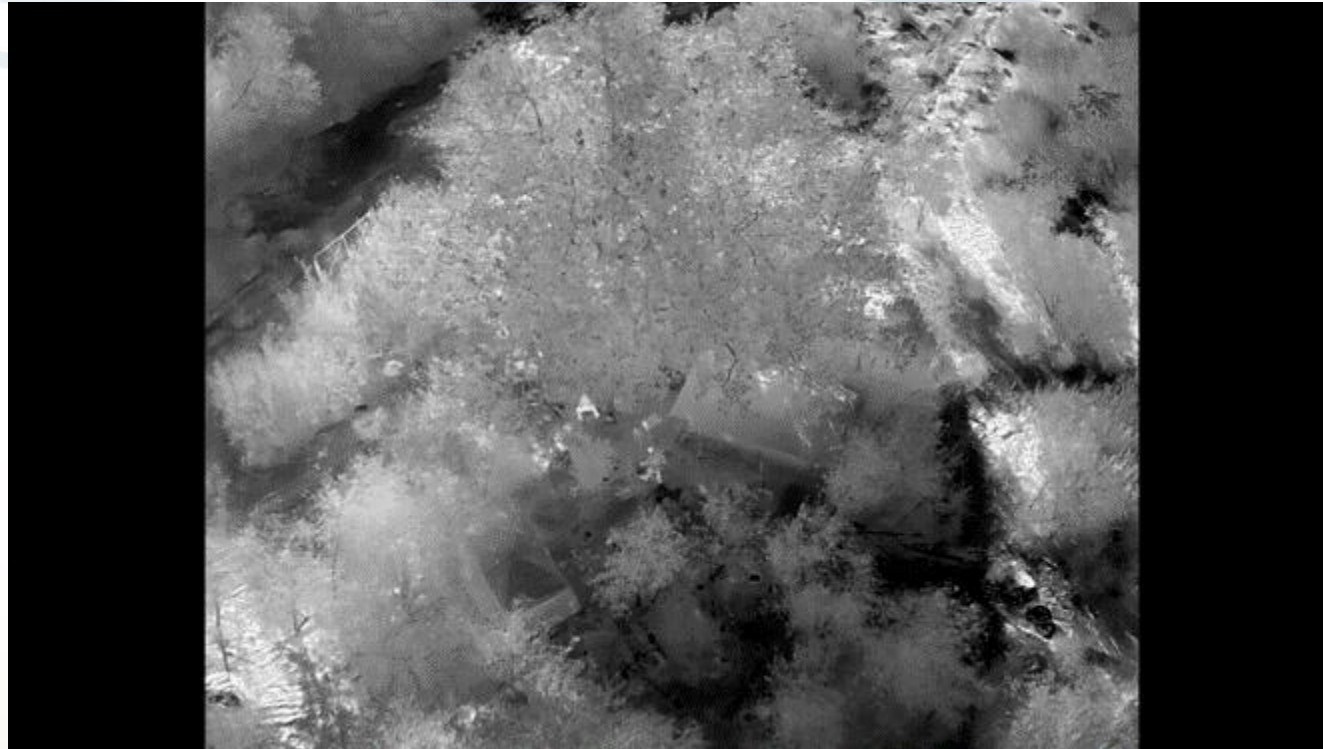
# Lee Lake Encampment



# Lee Lake Encampment



# Lee Lake Encampment





**QUESTIONS?**