



**ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA
TRABUCO CANYON WATER DISTRICT
ADMINISTRATION FACILITY
32003 DOVE CANYON DRIVE, TRABUCO CANYON, CA
FEBRUARY 7, 2024 AT 7:00 AM**

COMMITTEE MEMBERS

Michael Safranski, Committee Chair
Stephen Dopudja, Committee Member
Don Chadd, Committee Member Alternate

DISTRICT STAFF

Fernando Paludi, General Manager
Michael Perea, District Secretary
Lorrie Lausten, District Engineer
Gary Kessler, Water System Superintendent
Oscar Ulloa, Wastewater Superintendent
Jason Stroud, Maintenance Superintendent

AGENDA NOTE:

Trabuco Canyon Water District (District) will make this Engineering/Operational Committee Meeting available by telephone audio as follows:

Telephone Audio: 1 (669) 900-6833

Access Code: 973-7562-7682

Persons desiring to monitor the Committee meeting agenda items may download the agenda and documents on the internet at www.tcwd.ca.gov. You may submit public comments by email to the Committee at mperea@tcwd.ca.gov. In order to be part of the record, emailed comments on meeting agenda items must be received by the District at the referenced e-mail address not later than 7:00 a.m. (PDT) on the day of the meeting.

CALL MEETING TO ORDER

VISITOR PARTICIPATION

Members of the public wishing to address the Committee regarding a particular item on the agenda are requested to submit public comments by email to the Committee at mperea@tcwd.ca.gov. The Committee Chair will call on the visitor following the Committee's discussion about the matter. Committees do not constitute a quorum of the Board of Directors and Committee Members cannot make decisions on matters. The Committee makes recommendations only to the Board of Directors. Members of the public will be given the opportunity to speak to the Committee prior to making a recommendation on the matter. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

ORAL COMMUNICATION

Members of the public who wish to make comment on matters not appearing on the agenda are requested to submit oral communication by email to the Committee at mperea@tcwd.ca.gov. Under the requirements of State Law, Directors cannot take action on items not identified on the agenda and will not make decisions on such matters. The Board President may direct District Staff to follow up on issues as may be deemed appropriate. For persons desiring to make verbal comments and utilizing a translator to present their comments into English reasonable time accommodations, consistent with State law, shall be provided. Please limit comments to three minutes.

COMMITTEE MEMBER COMMENTS

REPORT FROM THE GENERAL MANAGER

ENGINEERING MATTERS

**PRESENTER(S): FERNANDO PALUDI, GENERAL MANAGER
MICHAEL PEREA, ASSISTANT GENERAL MANAGER
LORRIE LAUSTEN, DISTRICT ENGINEER**

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

RECOMMENDED ACTION:

Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar).

1. *January 3, 2024 Committee Meeting*
2. *January 24, 2024 Committee Special Meeting*

ITEM 2: GOLF CLUB SEWER LIFT STATION IMPROVEMENTS CONSTRUCTION MANAGEMENT SERVICES

RECOMMENDED ACTION:

Approve and recommend the Board of Directors ratify a professional services agreement for the Golf Club SLS Improvements for Construction Management Services with MCM Consulting in the amount of \$246,770, plus a 10% contingency of \$24,677, for a total not-to-exceed amount of \$271,447.

ITEM 3: ROBINSON RANCH WASTEWATER TREATMENT PLANT SCADA IMPROVEMENTS

RECOMMENDED ACTION:

Recommend the Board of Directors authorize the General Manager to execute a contract for the RRWWTP Communication System Upgrade to Beavens Systems Incorporated in the amount of \$277,259.35, plus a 10% contingency of \$27,725, for a total not-to-exceed amount of \$304,984.35.

ITEM 4: COUNTY OF ORANGE REQUEST FOR PERMANENT AND TEMPORARY EASEMENT ACQUISITION RELATED TO TRABUCO CREEK ROAD STORM DRAIN IMPROVEMENT PROJECT

RECOMMENDED ACTION:

Recommend the Board of Directors authorize the General Manager to execute acquisition contract and related easement deeds specific to the County of Orange Trabuco Creek Road Storm Drain Improvement Project (Action Calendar)

ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

1. Staff Presentation on Cartegraph
2. Staff Presentation on WWTP SBR Improvements
3. Staff Presentation on Dove Center Fire Service Upgrades
4. Saddle Crest Development Update

RECOMMENDED ACTION:

Committee to receive project status updates at the time of the Committee Meeting.



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | FEBRUARY 7, 2024**

OPERATIONAL MATTERS

**PRESENTER(S): GARY KESSLER, WATER SYSTEM SUPERINTENDENT
OSCAR ULLOA, WASTEWATER OPERATIONS SUPERINTENDENT
JASON STROUD, MAINTENANCE DEPARTMENT SUPERINTENDENT**

ITEM 6: WATER SYSTEM UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

ITEM 7: WASTEWATER SYSTEM UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

ITEM 8: MAINTENANCE DEPARTMENT UPDATES

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

REGULATORY AND OTHER MATTERS

ITEM 9: OTHER MATTERS/REPORTS

RECOMMENDED ACTION:

Hear Other Matters/Reports that may have arisen after the posting of the agenda.

ADJOURNMENT

AVAILABILITY OF AGENDA MATERIALS

Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Trabuco Canyon Water District Board of Directors in connection with a matter subject to discussion or consideration at an open meeting of the Board of Directors are available for public inspection at the Trabuco Canyon Water District Administrative Facility, 32003 Dove Canyon Drive, Trabuco Canyon, California (District Administrative Facility) or will be posted online on the District's website located at www.tcwd.ca.gov. If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available online at www.tcwd.ca.gov at the same time as they are distributed to the Board Members, except that, if such writings are distributed immediately prior to or during the meeting, they will be posted online on the District's website located at www.tcwd.ca.gov.

COMPLIANCE WITH THE REQUIREMENTS OF CALIFORNIA GOVERNMENT CODE SECTION 54954.2

In compliance with California law and the Americans with Disabilities Act, if you need special disability-related modifications or accommodations, including auxiliary aids or services in order to participate in the meeting, or if you need the agenda provided in an alternative format, please contact the District Secretary at (949) 858-0277, at least 48 hours in advance of the scheduled Board meeting. Notification at least 48 hours prior to the meeting will assist the District in making reasonable arrangements to accommodate your request. The Board Meeting Room is wheelchair accessible.



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

ADMINISTRATIVE MATTERS

ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP

RECOMMENDED ACTION:

Approve the following Engineering/Operational Committee Meeting Recap(s) and recommend that the Board receive and file same (Consent Calendar):

- 1. January 3, 2024 Committee Meeting*
- 2. January 24, 2024 Committee Special Meeting*

CONTACTS (staff responsible): PALUDI/PEREA



TRABUCO CANYON WATER DISTRICT ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JANUARY 3, 2024

DIRECTORS PRESENT

Mike Safranski, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Gary Kessler, Water Superintendent
Oscar Ulloa, Wastewater Superintendent
Phil Serpas, CMMS/SCADA Administrator
Roseann Lejsek, Administrative Assistant

STAFF ABSENT

Michael Perea, Assistant General Manager
Lorrie Lausten, District Engineer
Jason Stroud, Maintenance Superintendent
Karen Warner, Principal Accountant

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Safranski called the January 3, 2024 Engineering/Operational Committee Meeting to order at 7:10 a.m.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

The Committee wished all in attendance a Happy New Year.

REPORT FROM THE GENERAL MANAGER

Mr. Paludi wished all in attendance a Happy New Year.

ITEM 1: GOLF CLUB SEWER LIFT STATION IMPROVEMENTS

Mr. Paludi provided a brief update on the proposals received for construction management services, and he reported that Ms. Lausten is concerned with the higher-than-anticipated fees associated with the proposals. Mr. Paludi stated that the District will need to do more due diligence and would bring this matter to the board only if staff was comfortable in making a recommendation. Director Safranski expressed his appreciation for staff's efforts to control costs.

MOTION: None – Informational item only.

ITEM 2: ROBINSON RANCH WASTEWATER TREATMENT PLANT SCADA IMPROVEMENTS

Mr. Paludi provided a brief update on this matter, and he reported that the SCADA system within the Robinson Ranch Wastewater Treatment Plant requires improvements. Mr. Serpas provided background information regarding this project to be performed by Beavins, versus the District-wide SCADA CIP upgrade project performed by TESCO, and he stated that they are two separate projects. Mr. Ulloa provided information regarding the current SCADA system at the facility as it is a stand-alone system that requires improvement. Mr. Ulloa stated that they are still working out total costs before bringing this matter to the Board. Discussion occurred concerning the current CIP budget. Mr. Paludi stated that staff is proposing to reallocate certain project costs to offset the cost of this project. Director Safranski expressed concerns with the proposed strategy. Mr. Paludi stated that staff will have better answers at a future meeting.

MOTION: None – Informational item only.

ITEM 3: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

1. Saddle Crest Development update

Mr. Paludi provided an update on this matter, and he reported that staff is working to address certain engineering and operational challenges at the site. Mr. Kessler provided a status update on the operation challenges of the reservoir and pump station. Discussion occurred concerning certain strategies to address the challenges at the site. Director Dopudja stated for the record that the District sweeps so much under the rug that we have run out of rug.

2. Other Projects

None

MOTION: None – Informational item only.

ITEM 4: WATER SYSTEM UPDATES

Mr. Kessler reviewed the projects and repairs for the prior month, and he reported that Water Operations staff has completed the following tasks:

1. Replaced all the copper tubing to the four (4) pumps at the El Toro Field Office Pump Station.
2. Rebuilt the Cla-Vals on filters no. 1, 2, & 4 at the Dimension Water Treatment Plant (DWTP).
3. Attended all onsite training meetings for the Saddle Crest Pump Station.
4. Assisted Wastewater Operations with the installation of the new aeration system in the East SBR at the Robinson Ranch Wastewater Treatment Plant (WWTP).

Mr. Kessler presented the Water System Summary for Committee review. Mr. Kessler reported that Irvine Ranch Water District (IRWD) will start their multi-year capital improvement project for Irvine Lake dam and outlet tower in Spring 2024 which includes draining the lake. Discussion occurred concerning the District's potable water supplies and operational systems.

MOTION: None – Informational item only.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JANUARY 3, 2024**

ITEM 5: WASTEWATER SYSTEM UPDATES

Mr. Ulloa reviewed the projects and repairs for the prior month, and he reported that Wastewater Operations staff had completed the following tasks:

1. Manhole inspections at Saddle Crest Development.
2. Removed soil and vegetation from v-ditch above WWTP recycled water reservoir.
3. Removed old aeration headers and installed all new aeration headers and diffusers for the West SBR at the WWTP.
4. Bypassed Golf Club Lift Station for emergency repairs to the onsite surge tank with the assistance of DB Sales (contractor).
5. Repaired the West SBR drain valve at the WWTP.

Mr. Ulloa presented the Recycled Water System Summary for Committee review. Mr. Ulloa provided a brief status update on the Dove Canyon Master Association (DCMA) V-Ditch repair, and he indicated that the lower third has been restored but does not have erosion control. Discussion occurred concerning staff meeting with DCMA representatives to address concerns on the project site. Mr. Ulloa stated that line cleaning will start again next week.

MOTION: None – Informational item only.

ITEM 6: MAINTENANCE DEPARTMENT UPDATES

Mr. Ulloa provided updates in Mr. Stroud's absence. Mr. Ulloa reviewed the projects and repairs for the prior month, and he reported that Maintenance staff completed the following tasks:

Projects and Repairs

Maintenance staff performed and/or completed the following tasks and projects:

Water Operations

1. Attended onsite training at the Saddle Crest pump station.
2. Coordinated the re-keying of Saddle Crest Booster Pump Station facility door locks.

Wastewater Operations

1. Assisted operations with the v-ditch clean out at the Dove Canyon Master Association (DCMA) v-ditch.
2. Assisted operations with West SBR aeration system replacement project.
3. Received the spare air blower for the WWTP from Vaughn Industrial.
4. Assisted operations and DB Sales (contractor) to repair the onsite surge tank at Golf Club Sewer Lift Station.

District Fleet Upgrades & Other Projects

1. Performed Emergency Backup Generator checks in preparation of a potential SCE Public Safety Power Shutoff (PSPS) event.
2. Performed BIT Program compliance inspections.
3. Performed an oil change and maintenance on truck #28.
4. Installed new brakes and tires on truck #1.

MOTION: None – Informational item only.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP | JANUARY 3, 2024**

ITEM 7: OTHER MATTERS/REPORTS

There were no others matter reported.

MOTION: None

ADJOURNMENT

Director Safranski adjourned the January 3, 2024 Engineering/Operational Committee Meeting at 8:01 a.m.

DRAFT



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE SPECIAL MEETING RECAP |
JANUARY 24, 2024**

DIRECTORS PRESENT

Mike Safranski, Committee Chair
Stephen Dopudja, Committee Member

STAFF PRESENT

Fernando Paludi, General Manager
Michael Perea, Assistant General Manager
Lorrie Lausten, District Engineer
Gary Kessler, Water Superintendent
Jason Stroud, Maintenance Superintendent
Phil Serpas, CMMS/SCADA Administrator
Roseann Lejsek, Administrative Assistant
Brent Monson, Lead Water System Operator

DISTRICT CONSULTANTS PRESENT

Claire Collins, Hanson & Bridgett, LLP – General Counsel
Tori Yokoyama – Hazen & Sawyer
Steven Connor – Hazen & Sawyer
Mike Swan – Psomas
Kim Alexander – Psomas

PUBLIC PRESENT

None

CALL MEETING TO ORDER

Director Safranski called the January 24, 2024 Engineering/Operational Committee Special Meeting to order at 4:00 p.m.

VISITOR PARTICIPATION

No comments were received.

ORAL COMMUNICATION

No comments were received.

COMMITTEE MEMBER COMMENTS

No comments were received.

REPORT FROM THE GENERAL MANAGER

No comments were received.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE SPECIAL MEETING RECAP | JANUARY 24, 2024**

CLOSED SESSION NO. 1: CONFIDENTIAL INFORMATION – CONFERENCE WITH LEGAL COUNSEL – ANTICIPATED LITIGATION

The Committee entered Closed Session at 4:03 p.m. and met in Closed Session to review and discuss confidential information concerning anticipated litigation consistent with the agenda. The District’s General Manager, Assistant General Manager, District Engineer, General Counsel, Consultants, and certain staff members participated in the closed session.

The Committee reconvened open session at approximately 6:10 p.m.

ITEM 1: REPORT OF ACTION(S) TAKEN IN CLOSED SESSION

MOTION: No action was taken in closed session.

ADJOURNMENT

Director Safranski adjourned the January 24, 2024 Engineering/Operational Committee Special Meeting at 6:12 p.m.

DRAFT

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

ENGINEERING MATTERS

ITEM 2: GOLF CLUB SEWER LIFT STATION IMPROVEMENTS CONSTRUCTION MANAGEMENT SERVICES

Trabuco Canyon Water District (District) owns and operates the Golf Club Sewer Lift Station (SLS) in the Dove Canyon community adjacent to the golf club driving range. This station receives wastewater flows from majority of the community by way of Bell Canyon and Barneburg Sewer Lift Stations and gravity sewer flows, and then conveys the wastewater to the Robinson Ranch Wastewater Treatment Plant via a sewer force main on Hillrise. The station was constructed in the early 1990s and had undergone only minor improvements until 2021-2023, when a bypass was installed, a section of the force main was replaced, the surge tank was repaired several times, and the motor control center replaced. Staff identified a series of critical repairs and improvements for the station that have been budgeted for completion in the FY 2023-24 CIP.

At the December 21, 2023, Regular Board Meeting, the construction contract was awarded to Pacific Hydrotech Corporation in the amount of \$1,889,300. Due to the condition of the existing surge tank, the contractor was on-site on January 29, 2024 to implement Phase 1 of the improvements, which includes the surge tank upgrades. The Phase 2 work, which includes the wet well, dry pit, and site improvements, will occur once the remaining equipment is procured.

To support the construction, the District solicited proposals from six (6) firms for Construction Management and Inspection Services and received proposals from the following firms:

Golf Club SLS CM Proposers
MKN
NV5
Dudek
MCM Consulting

FUNDING SOURCE:

Capital Improvement Program

FISCAL IMPACT (PROJECT BUDGET)

YEAR	ORIGINAL	FINAL/ PROJECTED	STATUS
FY 21/22	\$420,000	\$579,291	MCC, By-Pass Tee, Emergency By-Pass
FY 22/23	\$870,000	\$330,000	Engineering, Pump, Surge Tank, Survey
FY 23/24	\$1,800,000	\$2,300,000	Construction, Engineering, Construction Management, Easements
	\$3,090,000	\$3,209,291	TOTAL

ENVIRONMENTAL COMPLIANCE:

Notice of Exemption was filed with the County of Orange on November 1, 2021.

RECOMMENDED ACTION:

Approve and recommend the Board of Directors ratify a professional services agreement for the Golf Club SLS Improvements for Construction Management Services with MCM Consulting in the amount of \$246,770, plus a 10% contingency of \$24,677, for a total not-to-exceed amount of \$271,447.

EXHIBIT(S):

1. Proposal Evaluation Summary

CONTACTS (staff responsible): PALUDI/LAUSTEN

PROPOSAL EVALUATION

Construction Management and Inspection Services- Golf Club Sewer Lift Station					
Category	Weight	NV5	MKN	MCM	Dudek
Project Understanding and Level of Effort Project Approach, Understanding of the Scope of Work & Level of Effort on the Proposal	50%	4	3	4	3
Proposed Team Qualification Team Expertise & Experience (Qualifications, Registrations, Licenses), including subconsultants	20%	4	4	5	4
Company Qualification Firms Experience on Similar Projects, Local Staffing	15%	4	4	4	4
Project Management and QA/QC	15%	4	4	4	4
Total Weighted Score:	100%	4.0	3.5	4.2	3.5
Subconsultants		NV5	MKN	MCM	Dudek
Materials Testing/Special Inspection		n/a	Ninyo&Moore	Ninyo&Moore	Atlas
Electrical		n/a	n/a	n/a	Rockwell
Schedule Review		n/a	CMS Solutions	n/a	n/a
Labor *		NV5	MKN	MCM	Dudek
Task 1- Pre-Construction		0	15	60	70
Task 2 - Construction Management, Inspector and Testing		1926	1045	1252	2050
Task 3 - Project Close-Out		98	44	48	160
Total:		2024	1104	1360	2280
Budget		NV5	MKN	MCM	Dudek
Task 1- Pre-Construction		\$ -	\$ 2,904.00	\$ 10,130.00	\$ 13,060.00
Task 2 - Construction Manager, Inspector and Testing		\$ 327,080.00	\$ 188,840.00	\$ 192,750.00	\$ 345,750.00
Subconsultant/Direct Cost		\$ -	\$ 36,000.00	\$ 35,890.00	\$ 50,000.00
Task 3 - Project Close-Out		\$ 17,262.00	\$ 8,064.00	\$ 8,000.00	\$ 26,550.00
Total:		\$ 344,342.00	\$ 235,808.00	\$ 246,770.00	\$ 435,360.00
\$/Manhour		\$ 170.13	\$ 213.59	\$ 181.45	\$ 190.95
* Labor hours do not include subconsultants					
CM Cost as a Percentage of Construction Cost		18.13%	12.48%	13.06%	23.05%

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

ENGINEERING MATTERS

ITEM 3: ROBINSON RANCH WASTEWATER TREATMENT PLANT COMMUNICATION SYSTEM UPGRADE

The Trabuco Canyon Water District (District) Robinson Ranch Wastewater Treatment Plant's (Plant) existing communication system for its various plant processes has become unreliable with many of the parts no longer available and an operating system that is not supported. For these reasons, several of the treatment processes require upgrades to include a new fiber optic loop, new panels, PLC's, computer hardware, software, and remote plant access for staff. The installation of the new fiber optical loop will provide redundant pathways in the data transfer of plant process information and telemetry, which are critical to ensure the safe and continuous operation of the wastewater treatment plant.

Staff worked with Beavens Controls to provide a quote since they installed the existing communication system and are intimately familiar with the Plant operations. Beavens, and their sub-contractor Hydrotech Electrical, have inspected the existing equipment and worked with staff on an upgrade that meets all of operations needs while being conscientious of the budgetary constraints. Staff is suggesting the deferment of three (3) CIP projects for FY23/24 and FY 24/25 (\$200,000) to complete the above work.

FUNDING SOURCE:

Capital Improvement Program

FISCAL IMPACT (PROJECT BUDGET)

\$130,000 – Original

\$330,000 - Proposed

ENVIRONMENTAL COMPLIANCE:

Notice of Exemption

RECOMMENDED ACTION:

Recommend the Board of Directors authorize the General Manager to execute a contract for the RRWWTP Communication System Upgrade to Beavens Systems Incorporated in the amount of \$277,259.35, plus a 10% contingency of \$27,725, for a total not-to-exceed amount of \$304,984.35.

EXHIBIT(S):

1. Beavens Proposal
2. CIP Budget

CONTACTS (staff responsible): PALUDI/LAUSTEN

BEAVENS SYSTEMS INCORPORATED

383 Van Ness • Suite 1604 • Torrance, CA 90501

Phone 310.376.0506 • Fax 310.694.9101 • Email greg@beavens.com

~~December 3, 2023~~

Please change the Date: Dec. 19, 2023

David Rodriguez
Trabuco Canyon Water District
32003 Dove Canyon Drive
Trabuco Canyon, CA 92679

ATTN: David Rodriguez

RE: SBR Plant Upgrades.

Project Scope

Beavens Systems will provide a new ring of 6 strand Corning OS2 fiber optic cable. The fiber will be connected to fiber patch panels at each location and terminated in ST connectors. All fiber will be installed terminated and tested. Any locations set as future will get fiber jumpers from the incoming fiber to the outgoing fiber. Locations getting a automation will get a ring switch, a DC UPS , a PLC with appropriate IO for the requested signals, a panel suitable for the area clarification and integration into the plant updated SCADA system. The currently planned drops include the filters, the belt press, the EQ basin, the Blowers, the Chlorination system and the Main office. The fiber optic system will be installed in parallel to the existing plant network. This will allow the system to be installed and functionally tested before the systems are cut over.

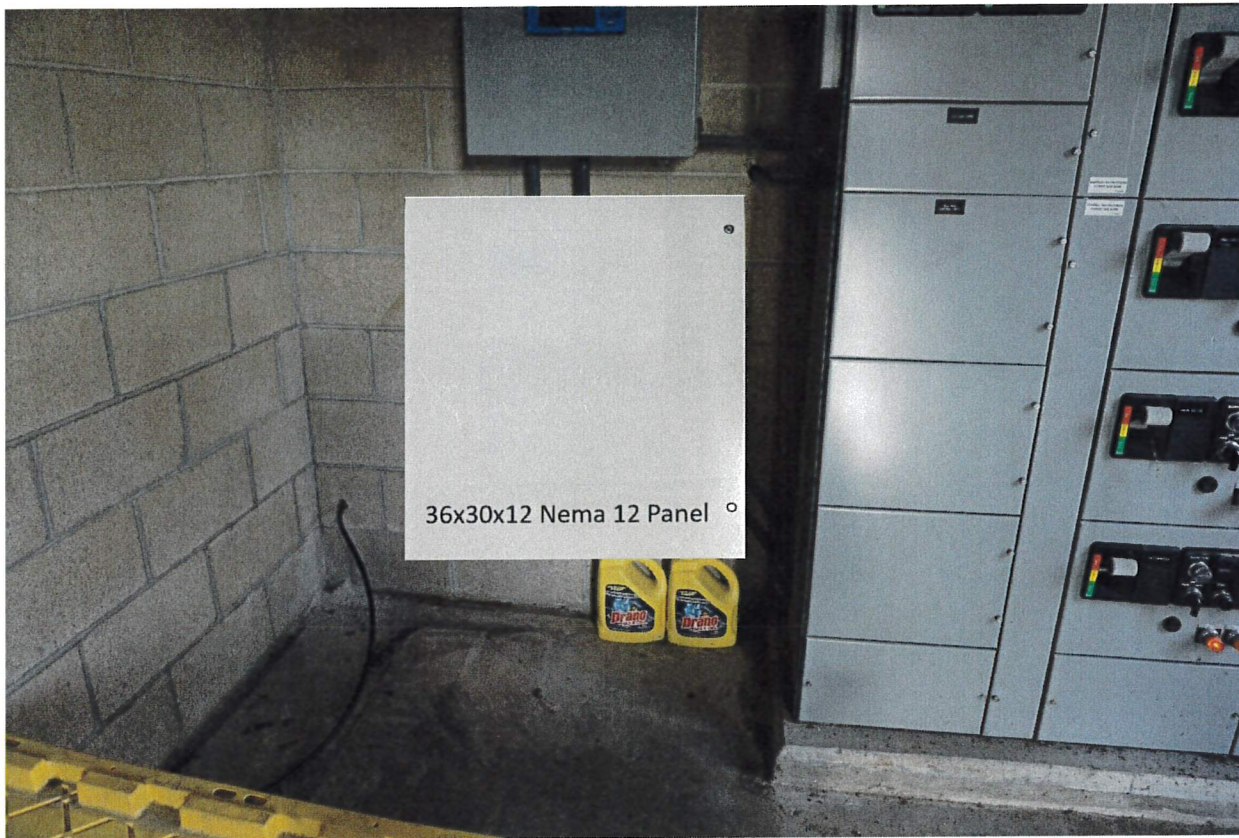
Do we need the new 36" x 30" x 12" Stainless Steel Panel?
Can we use the existing panel?

Filter Area



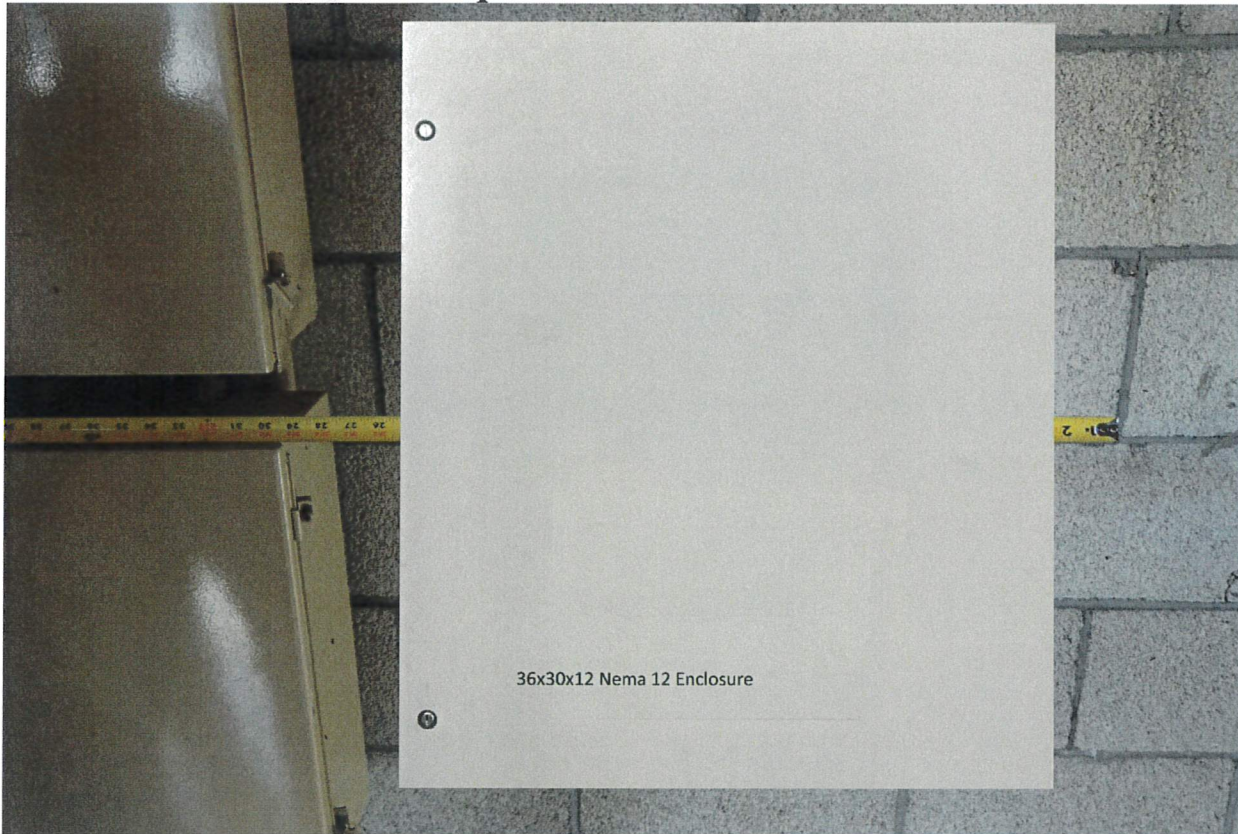
At the filter stop we are providing a new NEMA 4X stainless steel, insulated 30x36x12 enclosure. The enclosure will include a fiber patch panel for 12 fibers (6 in and 6 out). We will be supplying an Ethernet fiber ring switch. The switch will be supplied with a DC UPS with a minimum runtime of 30 minutes. The switch will also power the new Ethernet PLC located in a 8 slot rack. The rack will contain 1 digital input and 1 analog input module with all I/O wired to a field terminal block for easy termination of the field signals. Programming for all signals located at this location are included. Integration of the signals into the new plant SCADA system is included in this scope.

Belt Press Area



At the belt press building we are providing a new NEMA 4X stainless steel (not Nema 12 shown), 30x36x12 enclosure. The enclosure will include a fiber patch panel for 12 fibers (6 in and 6 out). We will be supplying an Ethernet fiber ring switch. The switch will be supplied with a DC UPS with a minimum runtime of 30 minutes. The switch will also power the new Ethernet to serial converter. The converter will allow the existing Rugid to integrate with the new SCADA system. Programming for all signals located at this location are included. Integration of the signals into the new plant SCADA system is included in this scope.

Equalization Basin Area



In the building at the equalization basin we are providing a new NEMA 4X Stainless Steel (not Nema 12 shown), 30x36x12 wall mount enclosure. The enclosure will be located outside the building on the east wall. The panel will include a fiber patch panel for 12 fibers (6 in and 6 out). We will be supplying an Ethernet fiber ring switch. The switch will be supplied with a DC UPS with a minimum runtime of 30 minutes. The switch will also power the new Ethernet to serial converter. The converter will allow the existing Rugged to integrate with the new SCADA system. Programming for all signals located at this location are included. Integration of the signals into the new plant SCADA system is included in this scope.

SBR / Blowers Area



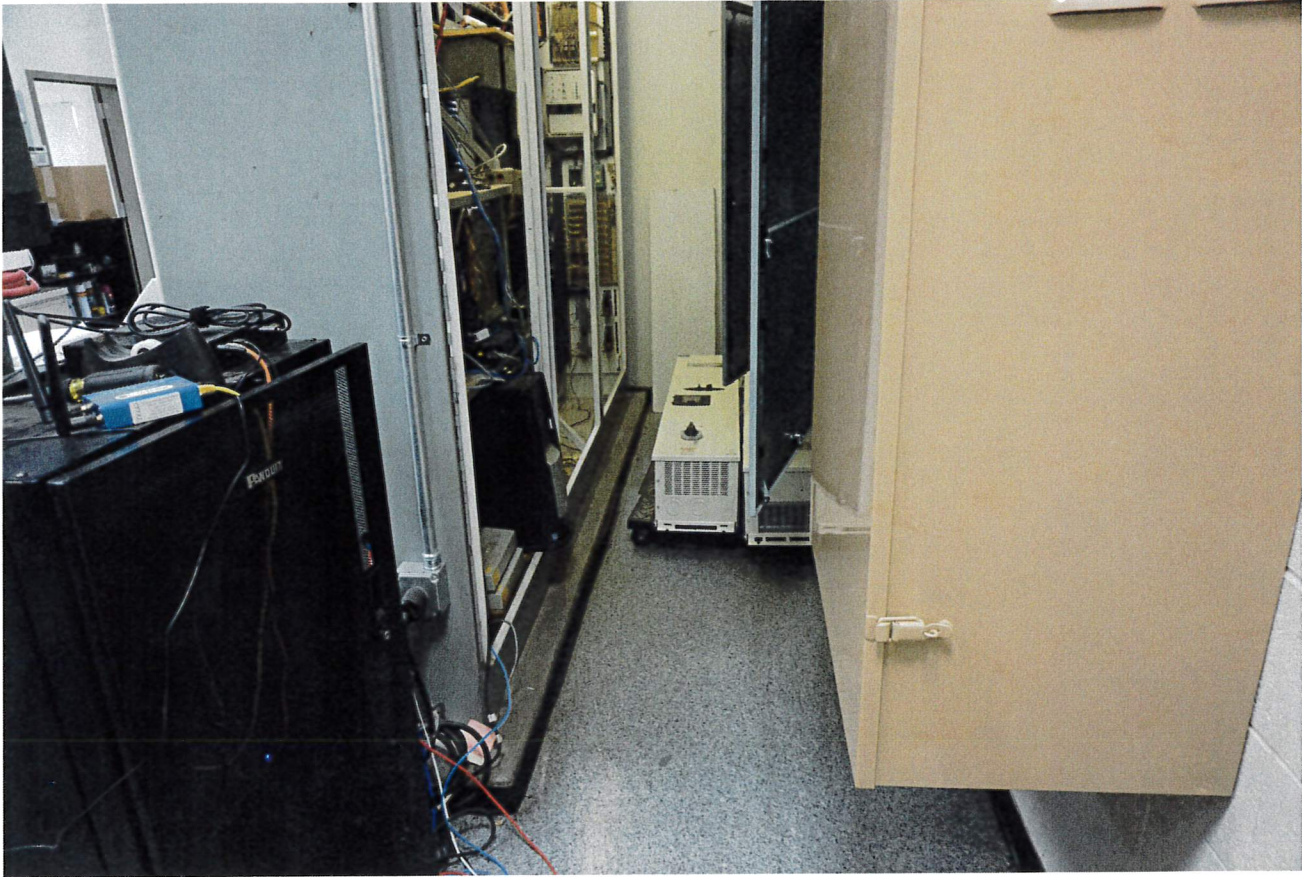
At the belt press building we are providing a new NEMA 4X Stainless Steel (Not Nema 12 shown), insulated 30x36x12 enclosure. The enclosure will include a fiber patch panel for 12 fibers (6 in and 6 out). We will be supplying an Ethernet fiber ring switch. The switch will be supplied with a DC UPS with a minimum runtime of 30 minutes. The switch will also power the new Ethernet PLC located in a 12 slot rack. The rack will be mounted on a new backpan to be installed in the existing Nema 4X fiberglass enclosure. The PLC rack will contain 4 120 VAC digital inputs, 2 digital outputs, 2 analog inputs and 1 analog output module with all I/O wired to a field terminal blocks. The new PLC equipment will be installed in the existing PLC enclosure. Programming for all signals located at this location are included, as is conversion of the existing Compact 984 PLC to the new Schneider Electric M340 PLC. Integration of the signals into the new plant SCADA system is included in this scope.

Chlorination Area



In the chlorination building we are providing a new NEMA 4X stainless steel, 36x48x12 enclosure(not NEMA 12 shown). The enclosure will either be installed as shown or will be installed on the North wall. In either location, the conduits will be provided to connect the chemical pumps and the residual analyzers in this location. The enclosure will include a fiber patch panel for 12 fibers (6 in and 6 out). We will be supplying an Ethernet fiber ring switch. The switch will be supplied with a DC UPS with a minimum runtime of 30 minutes..

Main Office



At the Main Office we will be utilizing the existing two wall mount enclosures. Located in these two panels will be the remote access equipment, the plant ring switch, a new PLC for IO currently tied to the Rugid that is to be replaced by the M340. We are adding a fiber patch panel for 12 fibers (6 in and 6 out). We will be supplying an Ethernet fiber ring switch. The switch will be supplied with a DC UPS with a minimum runtime of 30 minutes. The switch will also power the new Ethernet PLC located in a 8 slot rack. The rack will contain 1 digital input and 1 analog input module with all I/O wired to a field terminal block for easy termination of the field signals. Programming for all signals located at this location are included. Integration of the signals into the new plant SCADA system is included in this scope.

The new SCADA computer will be a panel mount unit and the display will be a touchscreen on the outside of the existing panel. The computer will be supplied with all required licensing. The existing Fix/32 SCADA application will be duplicated on the new Aveva Intouch platform. All existing functions will be available on the new system. Remote operation of the system will be available from within the plant and via VPN connection into the plant.

Plant networking will utilize the existing TCWD internet connection for remote access into the plant. The system can be programmed to fall back to cell operation if the primary fiber fails, but we are not implementing this feature at this time. The auto dialer will provide “Common” discrete alarms via cell or landline. The alarms will be grouped into High and Low priority alarms and the callout will be based on priority.

SELECTED HARDWARE

1. M340 - PLC CPU. BMXP342020
2. M340 – Plc racks 8 slot. BMXXBP0800
3. M340 – Plc racks 12 slot. BMXXBP1200
4. M340 – DC power supplies. BMXCPS2010
5. M340 – Digital input modules. BMXDAI1602
6. M340 – Digital output modules. BMXDDO1602
7. M340 – Analog input modules. BMXAMI0810
8. M340 – Analog output modules. BMXAMO0410
9. DC UPS. UBC10.241
10. Panel power supply. PSB12-060
11. Managed Ethernet switches. 1783-BMS10CA
12. Fiber transceivers. 1783-SFP100FX
13. LC fiber jumpers as necessary to connect the system.
14. Fiber optic cable. 006E8F-31131-29
15. New SCADA computer ML150G-53
16. Router/Firewall 1570R
17. Auto Dialer AD-2000
18. NEMA 4X Stainless Steel panels.

SOFTWARE SERVICES

1. Convert existing Compact 984 “Proworx” program to M340 “Unity”.
2. Provide a Serial to Ethernet Interface at the Belt Press panel and the Equalization basin to interface the existing Rugids into the new Ethernet network.
3. Provide new SCADA system (Wonderware Intouch) for interfacing with the M340 PLC’s.
4. Provide programming for Ethernet switches.
5. Provide programming for remote access and control of the facility.
6. Provide programming for alarm callout.

SERVICES

1. Drawings for all New PLC panels, including panel mechanical drawing, power distribution, IO wiring, network connectivity, remote access and general fiber drawing.
2. Update all As-Built drawings and documents to reflect the new fiber ring.
3. Installation of all fiber optic cable.
4. Termination and testing of all fiber cables.
5. Installation of all new panels.
6. Re-termination for all existing PLC / Rigid signals.
7. Termination of all new PLC signals (Filter area & Chlorination area).
8. Testing of all existing and new signals.
9. Commissioning of the new system.
10. Operator training on the operation of the new system.
11. Operator training for remote access to the system.
12. Operator training for alarm call-out.
13. Provide O&M manuals and documentation for the project.

EXCEPTIONS

1. Building permits and associated fees.
2. Main office floor repair, beyond filling concrete to level and flush floor.

COSTS

Total cost for the Project \$277,439.35 and includes \$19,955.03 in sales tax and shipping. This is for a Turn-Key installation.

The cost breakdown by area is:

Items: 2, 3, & 4: Tie Rugid to Ethernet.

1. Fiber cable boxes, installation and termination.	\$ 89,554.79
2. Filter PLC and installation.	\$ 29,127.93
3. Belt press Rugid to Ethernet converter and programming.	\$ 1,320.00
4. Equalization Basin Panel Relocation, Ethernet module & conduit.	\$ 5,280.00
5. SBR / Blower PLC and installation	\$ 59,919.96
6. Main Building PLC and installation	\$ 31,914.14
7. SCADA System Upgrade (Computer, WW License & WW App.)	\$ 25,167.50
8. System training (operations, remote operations & simple diagnostics)	\$ 3,960.00
9. Remote Access configuration (firewall, configuration & testing)	\$ 3,200.00
10. Network configuration	\$ 2,460.00
11. Alarm dialer and configuration	\$ 2,400.00
12. Field verification and documentation for existing field wires to allow for TCWD to demo the existing panel and footing in control room.	\$ 3,000.00
13. Sales Tax	<u>\$ 19,955.03</u>
14. Add back the Chlorination PLC and Installation.	<u>Project Total</u>
	\$277,439.35

SCHEDULE

\$277,259.35

The lead time on the fiber equipment is 6 weeks, PLC equipment is 8 weeks and the panel hardware can be ready for delivery within 6 weeks of receiving the PLC equipment. Fiber installation can begin anytime after panels and fiber are onsite. See Attached schedule for complete project timing, but it looks like if we get an order to proceed on Jan 1 2024, we can complete the project by July 2024.

Regards

Greg Argano

**TRABUCO CANYON WATER DISTRICT
CAPITAL IMPROVEMENT PLAN BUDGET
FY 2023/2024**

Item	Name	Status	Project Basis	Amount
WATER PROJECTS				
1	DWTP Office Replacement	Cancelled	Safety/End of Service Life	\$350,000
2	10" Pipeline Replacement - Cooks to Harris Grade (Design)	Design/Planning	Reliability	\$250,000
3	PSPS Transfer Switch Upgrade-Water	In Construction	Reliability	\$60,000
4	DWTP Vault Improvements	In Construction	Safety	\$75,000
Sub-Total				\$735,000
SEWER PROJECTS				
5	Golf Club SLS Improvement	In Construction	End of Service Life	\$1,800,000
6	WWTP - Blower Replacements	Design/Planning	Reliability	\$400,000
7	Chiquita FY23/24	Ongoing	Contract Agreement	\$178,000
8	Heritage SLS Pump Replacement	In Construction	End of Service Life	\$100,000
9	PSPS Transfer Switch Upgrade-Sewer	In Construction	Reliability	\$60,000
10	WWTP SCADA/Fiber Optic Upgrade	Out to Bid	End of Service Life	\$130,000
11	El Toro Force Main Valve Replacements	Completed	Reliability/End of Service Life	\$79,000
Sub-Total				\$2,747,000
NON-DOMESTIC WATER PROJECTS				
12	Dove/Robinson Ranch Recycled BPS Improvements (Design)	Design/Planning	End of Service Life	\$100,000
13	Recycled PRV Improvements	Out to Bid	End of Service Life	\$200,000
Sub-Total				\$300,000
SHARED PROJECTS				
14	SCADA System Upgrades FY 23-24	In Construction	Reliability/End of Service Life	\$400,000
Sub-Total				\$400,000
EQUIPMENT				
15	Fleet	Ongoing	General Maintenance	\$130,000
16	Pump Replacements - Sewer	Ongoing	End of Service Life	\$50,000
17	Pump Replacements - Water	Ongoing	End of Service Life	\$50,000
Sub-Total				\$230,000
PROGRAM				
18	PRV - Water	Ongoing	General Maintenance	\$20,000
19	Valve Replacement - Water	Ongoing	General Maintenance	\$30,000
20	Wet Well Recoating	Ongoing	General Maintenance	\$30,000
21	Manhole Recoating	Ongoing	General Maintenance	\$20,000
Sub-Total				\$100,000
Total				\$4,512,000

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

ENGINEERING MATTERS

ITEM 4: COUNTY OF ORANGE REQUEST FOR PERMANENT AND TEMPORARY EASEMENT ACQUISITION RELATED TO TRABUCO CREEK ROAD STORM DRAIN IMPROVEMENT PROJECT

Trabuco Canyon Water District (District) owns approximately 120-acres of land in unincorporated Orange County more commonly known as the Porter Property (Property). The north side of the lower portion of the property is adjacent to Trabuco Creek Road which is owned and maintained by Orange County Public Works (OCPW). In October 2022, the County of Orange (County) approved a drainage swale remodel project (Project) that would encroach onto a small portion of the District's property next to Trabuco Creek as indicated in the Right-of-Way Exhibit (1). The impact to the District's property would include the installation of a concrete crossing and a rip rap apron that is designed to direct seasonal run off flow away from the road and into the creek. The total proposed encroachment area is approximately 935 square feet.

District staff and general legal counsel have worked with County real estate services staff to define the appropriate terms for the procurement of both the temporary and permanent easements associated with this project (2). The County has made the following offer to the District:

- Compensate the District in the amount of \$5,000 for administrative costs
- Use an outside escrow to obtain title insurance at their cost
- 10-day written notice prior to construction
- OCPW will permanently own and maintain the rip rap apron facility.

The District recommends the Committee forward this matter to the Board of Directors for their approval and to authorize the General Manager to execute the County acquisition contract and easement deeds associated with this County project. More information may be presented at the time of the meeting.

FUNDING SOURCE:

Not applicable

FISCAL IMPACT (PROJECT BUDGET)

\$5,000 to the District

ENVIRONMENTAL COMPLIANCE:

None to the District

RECOMMENDED ACTION:

Recommend the Board of Directors authorize the General Manager to execute acquisition contract and related easement deeds specific to the County of Orange Trabuco Creek Road Storm Drain Improvement Project (Action Calendar).

EXHIBIT(S):

1. County of Orange Right of Way Exhibit for Trabuco Creek Road Drainage Swale Improvements Project
2. Proposed Acquisition Contract, including Easement Deed for Parcels 118 & 119 and Temporary Easement Deed

CONTACTS (staff responsible): PALUDI/PEREA/LAUSTEN



LEGEND:

- Project Limit
- Proposed Project Feature
- ▨ Proposed Rip Rap Apron
- Proposed Encroachment Area (APN 842-061-05)
Approximately 935 sq ft



PROJECT: TRABUCO CREEK ROAD DRAINAGE SWALE IMPROVEMENTS

Right-of-Way Exhibit

DRAWING NOT TO SCALE

Facility No.: Z99683
Project: Trabuco Creek Road Storm Drain Improvements
Parcel Nos.: 118, 119 & 151

ACQUISITION CONTRACT

This Acquisition Contract (“**Contract**”) is made _____, 2023, by and between Trabuco Canyon Water District, a county water district organized and existing pursuant to California law, hereinafter referred to as “**GRANTOR**,” and County of Orange, a political subdivision of the State of California, hereinafter referred to as “**COUNTY**,” without regard to number or gender. GRANTOR and COUNTY shall sometimes be referred to hereinafter individually as “**Party**” or collectively as “**Parties**.”

Two Easement Deeds (“**Deeds**”), dated _____, 2023, covering real property designated in COUNTY records as Parcel Nos. 118, 119 and a temporary construction easement (“**TCE**”) concerning real property designated in COUNTY records as Parcel No. 151 hereinafter collectively referred to as the “**Property**,” have been executed and delivered to Sergio Mora, Real Estate Agent for the County of Orange, Real Estate Services. The Property is shown and described in the Deeds, and the TCE which are attached hereto as Attachment 1.

In consideration of which, and the other considerations hereinafter set forth, it is mutually agreed as follows:

1. TOTAL AGREEMENT (1.1 S)

The Parties have herein set forth the whole of their agreement and no obligations other than those set forth herein, unless amended in writing, will be recognized. Performance of this Contract by COUNTY shall constitute the entire consideration for the Deeds and TCE delivered to COUNTY and shall relieve COUNTY of any further obligations or claims relating to COUNTY'S acquisition of the Property.

2. PAYMENT (2.7 N)

COUNTY shall:

A. Pay to the order of the undersigned GRANTOR the sum of ONE THOUSAND DOLLARS (\$1,000) (less any amounts authorized to be paid to others pursuant to this Contract) upon title to the easement rights as set forth in the Deed and TCE to the Property vesting in COUNTY, free and clear of all liens, encumbrances, assessments, easements, leases (recorded and unrecorded) and taxes, except:

(1) Nondelinquent General and Special County and City taxes. From the amount shown above, COUNTY is authorized to pay any delinquent taxes, together with penalties and interest thereon and any delinquent assessments or bonds.

- (2) Water rights, claims or title to water, whether or not disclosed by the public records;
- (3) Easement in favor of the public over any existing roads lying within said Property;
- (4) Easement for pipelines recorded January 11, 1930 in Bk.342, Pg 232 of O.R.;
- (5) Discrepancies, conflicts in boundary lines, shortage in area, encroachments as recorded in Bk 9, Pg 32 of Records of Survey;
- (6) Discrepancies, conflicts in boundary lines, shortage in area, encroachments as recorded in Bk 11, Pg 7 of Records of Survey;
- (7) Discrepancies, conflicts in boundary lines, shortage in area, encroachments as recorded in Bk 57, Pg 10 of Records of Survey;
- (8) Discrepancies, conflicts in boundary lines, shortage in area, encroachments as recorded in Bk 98, Pg 37 of Records of Survey;
- (9) Matters contained in Foothill/Trabuco Specific Plan recorded December 19, 1991 as Instrument No. 91-698513 of O.R.;
- (10) Discrepancies, conflicts in boundary lines, shortage in area, encroachments as recorded in Bk 186, Pg 37 of Records of Survey;
- (11) Matters contained in Grant of Easements and Agreement recorded January 6, 2011 as Instrument No. 2011000010963 of O.R.;
- (12) Matters contained in Resolution 11-031 recorded June 21, 2011 as Instrument No. 2011000300651 of O.R.; and
- (13) Any title exceptions not required to be cleared from the title to said Property by COUNTY's Chief Real Estate Officer, or designee (the "CREO").

B. Pay to GRANTOR the sum of FIVE THOUSAND DOLLARS (\$5,000) for GRANTOR'S administrative costs associated with this Contract. Pay escrow, recording and trust deed clearance fees incurred in this transaction and the premium charged for title insurance, if such insurance is desired by COUNTY. For purposes of this transaction, trust deed clearance fees are defined as forwarding fees, trustee's fees, and reconveyance fees.

C. Deliver this executed Contract to Chicago Title Company ("**Escrow Holder**") and open an escrow. However, GRANTOR hereby agrees that CREO may unilaterally open escrow at such escrow company, other than noted herein, as may be necessary to carry out the terms of this Contract.

This executed Contract shall constitute the escrow instructions to the Escrow Holder, together with the General Provisions attached hereto as Attachment 2. CREO is designated to unilaterally commence and coordinate this escrow with the Escrow Holder. Any required amendments or supplements to the escrow which become necessary to carry out the terms of this Contract must be executed by the CREO.

For purposes of this Contract, "Close of Escrow" means the date the Deeds, TCE and any other documents are recorded in the Office of the County Recorder.

3. MONEY LIEN AND/OR TRUST DEED PAYMENTS (3.1 N)

It is mutually agreed that the COUNTY is authorized to pay, in order of priority as provided by law, from the total proceeds of this transaction, such sums as may be demanded by judgment creditors and/or beneficiaries under judgments, money liens, and/or deeds of trust, provided that such sums shall not be in excess of the unpaid principal together with any accrued interest, penalties, attorney's fees and court costs.

4. TRANSFER DISCLOSURE (4.1 S)

GRANTOR has provided COUNTY with an executed Real Estate Transfer Disclosure Statement concurrent with the execution of this Contract by GRANTOR.

5. PROPERTY INSPECTIONS (4.6 S)

COUNTY shall have the right during the escrow term and at COUNTY's expense to conduct tests, surveys, studies, inspections, and investigations (collectively, "Inspections") of the Property. GRANTOR hereby grants a right of entry to COUNTY, its contractors, and employees for all such Inspections of the Property upon 24-hours advance notice. COUNTY agrees to keep the Property free and clear of any liens, indemnify and hold GRANTOR harmless from all liability, claims, demands, damages, or costs, and repair all damages to the Property arising from such Inspections.

6. INDEMNIFICATION FOR UNRECORDED INTERESTS (5.1 S)

GRANTOR warrants that there are no unrecorded encumbrances (including but not limited to liens, leases, easements or licenses) on all or any portion of the Property, and GRANTOR agrees to hold COUNTY harmless, defend with counsel approved by COUNTY, and reimburse COUNTY for any and all of COUNTY's losses and expenses, including reasonable attorney fees, occasioned by reason of any such encumbrance of said Property.

7. VOLUNTARY ACQUISITION (7.3 S)

GRANTOR acknowledges that this transaction is voluntary, and GRANTOR is hereby informed that COUNTY would not have acquired the Property in the event negotiations had failed to result in this agreement.

8. RESPONSIBILITY FOR REAL PROPERTY (9.10 S)

It is understood that COUNTY assumes no liability of ownership until title vests in COUNTY.

9. RIGHT OF ENTRY (13.4 S)

Upon execution of this Contract by the Parties, GRANTOR hereby grants COUNTY permission to enter the Property, together with the right to construct, restore, enhance and maintain improvements related to this project as set forth under the terms and conditions of this Contract, the Deeds and TCE attached hereto as Attachment 1.

The permission and restriction herein granted are for a period which shall commence upon COUNTY's written notice from the CREO to GRANTOR that COUNTY requires use of the Property as of a certain date, and shall remain in effect over:

- A. Parcel 118 and 119 until title to the permanent easements vest in COUNTY; and
- B. Parcel 151 (temporary construction easement) for a period of six (6) years or until a Notice of Completion is filed, whichever is sooner.

10. ATTACHMENTS (19.1 S)

This Contract includes the following, which are attached hereto and made a part hereof:

- A. Attachment 1 – Easement Deeds and TCE
- B. Attachment 2 – General Provisions (Escrow)

In witness whereof, the Parties have executed this Contract the day and year first above written.

GRANTOR

Trabuco Canyon Water District, a county water district

By: _____

Print Name: _____

Title: _____

Approved as to Form
Office of the County Counsel
Orange County, California

By: _____
Deputy

Date: _____

COUNTY

By: _____
Thomas A. Miller, Chief Real Estate Officer
County Executive Office
Pursuant to Section 1-4-220 of the Codified
Ordinances of the County of Orange

Attachment 1

Easement Deed 118

Easement Deed 119

Temporary Easement Deed 151

RECORDED AT REQUEST OF,
AND WHEN RECORDED MAIL TO:

County of Orange
County Executive Office
c/o: Real Estate Services
400 W. Civic Center Drive, 5th Floor
Santa Ana, California 92701
Attn: Sergio Mora

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**This is to certify that this document is exempt
from recording fees per Govt. Code Sec. 27383
and is exempt from Document Transfer Tax per
Rev. & Taxation Code Sec. 11922.**

Unincorporated Area
 Incorporated, City of _____

Project Name: Trabuco Creek Road Storm
Drain Improvements
Facility/Parcel No: Z99683 - 118

EASEMENT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

TRABUCO CANYON WATER DISTRICT, a county water district organized and existing pursuant to
California law,
hereinafter referred to as "GRANTOR,"

does hereby GRANT to the COUNTY OF ORANGE, a political subdivision of the State of California,
hereinafter referred to as "COUNTY", a perpetual easement and right-of-way for fence improvement
purposes (including installation, maintenance, repair, removal, alteration for any improvements related
to or appurtenant thereto) in, on, and over the real property in the County of Orange, State of California,
described as:

(See Exhibit A for legal description and Exhibit B for depiction
attached hereto and by reference made a part hereof.)

Together with the right to excavate, fill, grade or regrade said property, whenever and wherever
necessary for the construction and maintenance purpose of the above set forth.

Nothing in this deed is intended, nor shall anything in this deed be construed, to transfer to COUNTY or
its successors or assigns, or to relieve GRANTOR or its successors or assigns or predecessors in title of
any responsibility or liability GRANTOR or its successors or assigns or predecessors in title now has,
has had, or comes to have with respect to human health or the environment, including but not limited to
responsibility or liability relating to hazardous or toxic substances or materials (as such terms as those
used in this sentence are defined by statute, ordinance, case law, governmental regulation, or other

provision of the law). Furthermore, COUNTY may exercise its rights under law to bring action, if necessary, to recover clean up costs and penalties paid, if any, from GRANTOR or any others who are ultimately determined by a court of competent jurisdiction and/or a federal, state or local regulatory or administrative governmental agency or body having jurisdiction, to have responsibility for said hazardous toxic substances or materials upon, within, or under the real property interests transferred pursuant to this deed. Notwithstanding the foregoing, COUNTY shall be and remain liable for any hazardous or toxic substances or materials which become located because of COUNTY's operations, upon, within, or under the real property interests transferred pursuant to this deed.

GRANTOR

TRABUCO CANYON WATER DISTRICT, a
county water district

Dated: _____

By: _____

Print Name: _____

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

COUNTY OF _____

On _____, 20__, before me _____,
(Here insert name and title of officer)

personally appeared _____

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

Exhibit A

LEGAL DESCRIPTION

Trabuco Creek Road Storm Drain Improvements
Facility No.: Z99683
Parcel No.: 118

PARCEL 118 (Permanent Easement)

That certain portion of land in the Unincorporated Territory of the County of Orange, State of California, lying within Section 12, Township 6 South, Range 7 West, San Bernardino Meridian, over land described as Parcel 3 in the Grant Deed to Trabuco Canyon Water District, recorded April 12, 2002 as Instrument No. 20020307125 of Official Records in the office of the County Recorder of said county, described as follows:

Commencing at the southwest 1/16 corner of Section 6, Township 6 South, Range 6 West, as said corner is shown Record of Survey No. 94-1022, filed in Book 174, Pages 14 through 21 of Records of Survey in said Office of the County Recorder, said corner also being the southeast corner of Lot 2 as shown on said map; thence northerly along the easterly boundary of said Lot, North $00^{\circ}16'04''$ West, 905.05 feet to the intersection with the centerline of Trabuco Creek Road, 20.00 feet in width, as described in Parcel 116 of Resolution 11-031, recorded June 21, 2011 as Instrument No. 2011000300651 of Official Records in said Office of the County Recorder; thence leaving said boundary and westerly along said centerline, South $81^{\circ}02'07''$ West, 32.01 feet to the beginning of a curve, concave northerly and having a radius of 200.00 feet with a central angle of $20^{\circ}43'15''$; thence continuing westerly along said centerline to the westerly terminus of that certain course described in Parcel 113 as, "N. $74^{\circ}13'47''$ E., 65.42 feet" and labeled T36 on Exhibit B, both of said Resolution;

thence leaving said centerline North $15^{\circ}46'13''$ West 10.00 feet along a radial line to a point on the northerly boundary of said Trabuco Creek Road and the **TRUE POINT OF BEGINNING**, said point being the beginning of a non-tangent curve, concave northerly and having a radius of 390.00 feet;

thence Westerly along said boundary the following five courses:

1. 109.78 feet along said curve through a central angle of $16^{\circ}07'44''$;
2. North $89^{\circ}38'31''$ West 60.97 feet to the beginning of a curve, concave southerly and having a radius 410.00 feet;
3. 104.48 feet along said curve through a central angle of $14^{\circ}36'01''$;
4. South $75^{\circ}45'29''$ West 20.80 feet to the beginning of curve, concave northerly and having a radius of 140.00 feet; and
5. 8.67 feet along said curve, through a central angle of $03^{\circ}32'58''$;

thence leaving said boundary North $10^{\circ}41'33''$ West 28.00 feet along a radial line to the beginning of a non-tangent curve, concave northerly and having a radius of 112.00 feet;

thence Easterly 6.94 feet along said curve through a central angle of $03^{\circ}32'58''$;

thence North 75°45'29" East 20.80 feet;

thence South 14°14'31" East 25.00 feet along a radial line to the beginning of a non-tangent curve, concave southerly and having a radius of 413.00 feet;

thence Easterly 105.24 feet along said curve through a central angle of 14°36'00";

thence South 89°38'31" East 60.97 feet to the beginning of a curve, concave northerly and having a radius of 387.00 feet;

thence Easterly 104.82 feet along said curve through a central angle of 15°31'06" to the northerly boundary of aforesaid Parcel 3 and a point hereinafter referred to as POINT A;

thence along said boundary South 89°33'30" East 10.82 feet to its intersection with said northerly boundary of Trabuco Creek Road;

thence leaving said southerly boundary and along said northerly boundary South 74°13'47" West 6.27 feet to the **TRUE POINT OF BEGINNING**.

Containing 1,630 Square Feet, more or less.

See EXHIBIT B attached and by reference made a part.

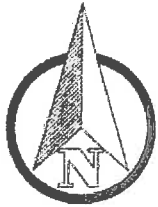
APPROVED
Kevin Hills, County Surveyor, L.S. 6617


By: Raymond J. Rivera, L.S. 8324

Date: 7/26/2023



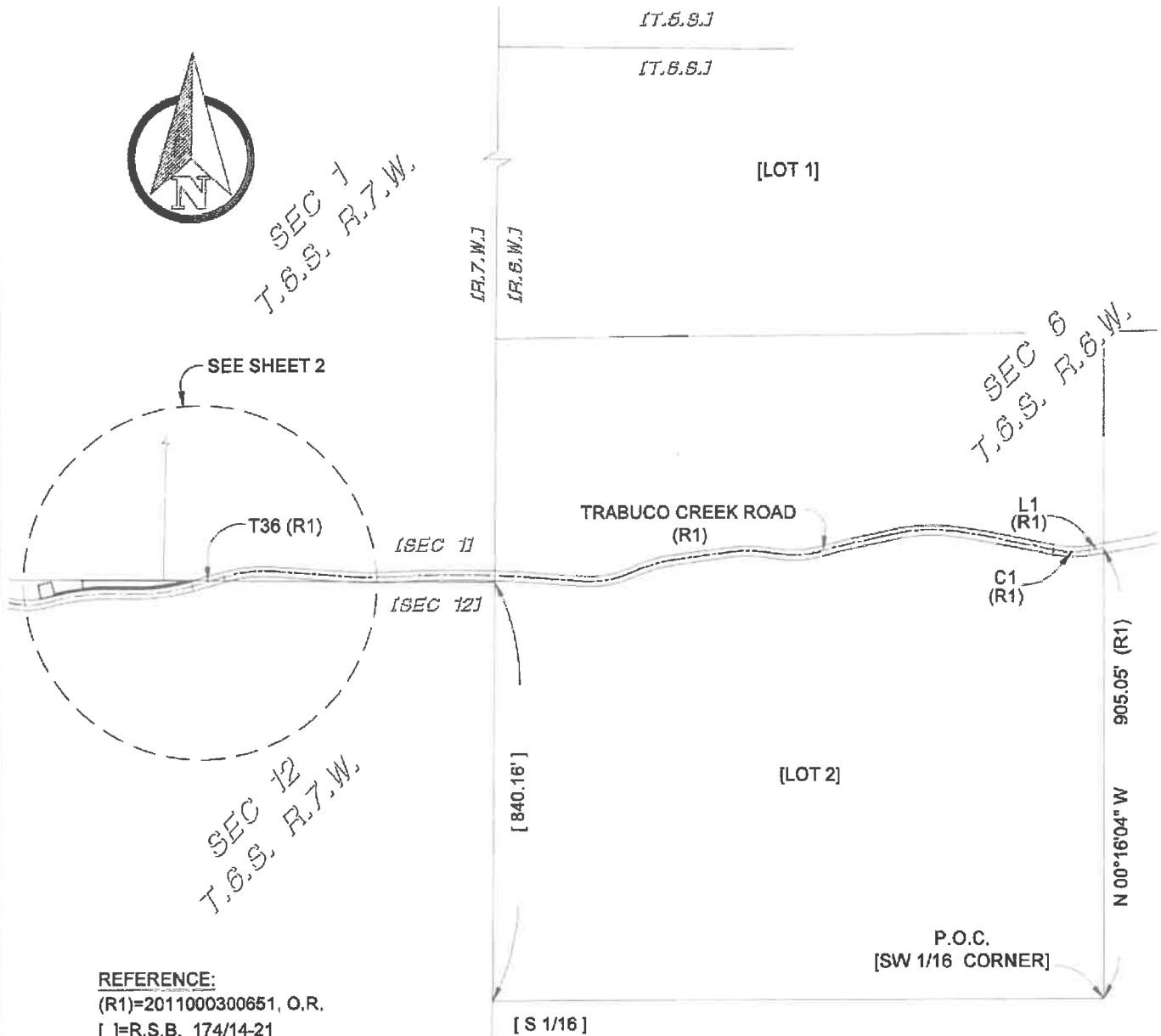
**SKETCH TO ACCOMPANY LEGAL DESCRIPTION IN
UNINCORPORATED TERRITORY, COUNTY OF ORANGE, STATE OF CALIFORNIA**



SEC 1
T.6.S. R.7.W.

SEC 6
T.6.S. R.6.W.

SEC 12
T.6.S. R.7.W.



REFERENCE:
(R1)=2011000300651, O.R.
[]=R.S.B. 174/14-21

COURSE DATA (R1)			
LINE	BEARING		DISTANCE
L1	N 81°02'07" W		32.01'
LINE	DELTA	RADIUS	LENGTH
C1	20°43'15"	200.00'	72.33'

SHEET 1 OF 3



**OC PUBLIC WORKS
OC SURVEY**

RIGHT-OF-WAY SERVICES

ROW ID NO. 2022-039

SCALE: 1"= 300'

EXHIBIT B

Z99683-118 & 151

PROJECT: TRABUCO CREEK ROAD- STORM DRAIN IMPROVEMENTS

PREPARED BY:
JAH

**SKETCH TO ACCOMPANY LEGAL DESCRIPTION IN
UNINCORPORATED TERRITORY, COUNTY OF ORANGE, STATE OF CALIFORNIA**



POB, SEC. 1 T.O.S.
R.7.W. S.B.M.

O.R. 2017000049301
APN 842-031-05

SEE
DETAIL "A"

S15°09'37"E
RAD.

O.R. 2017000049301
APN 842-031-09

(151)

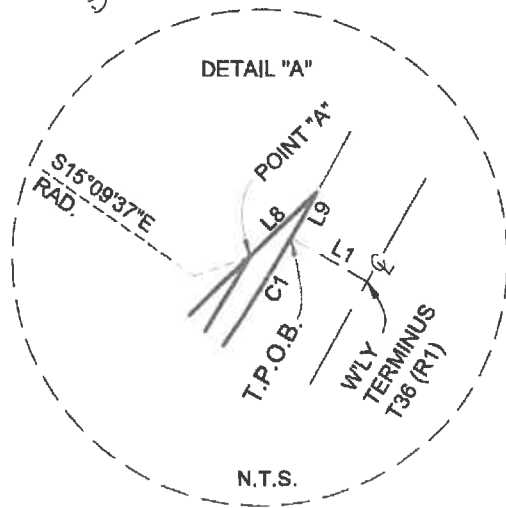
POINT "A"
C8
CREEK T.P.O.B.
C8 (R1)

WLY
TERMINUS
T36 (R1)

NE 1/4, NE 1/4,
SEC. 12 T.O.S. R.7.W.
S.B.M.

NLY BNDY PARCEL 3
20020307125, O.R.

PARCEL 3
O.R. 20020307125
APN 842-061-05



DETAIL "A"

S15°09'37"E
RAD.

POINT "A"

L8

L9

L1

L2

T.P.O.B.

WLY
TERMINUS
T36 (R1)

N.T.S.

SHEET 2 OF 3

REFERENCE:
(R1)=2011000300651, O.R.



**OC PUBLIC WORKS
OC SURVEY**
RIGHT-OF-WAY SERVICES

ROW ID NO. 2022-039

SCALE: 1" = 50'

EXHIBIT B

Z99683-118 & 151

PROJECT: TRABUCO CREEK ROAD- STORM DRAIN IMPROVEMENTS

PREPARED BY:
JAH

**SKETCH TO ACCOMPANY LEGAL DESCRIPTION IN
UNINCORPORATED TERRITORY, COUNTY OF ORANGE, STATE OF CALIFORNIA**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 15°46'13" W	10.00'
L2	N 89°38'31" W	60.97'
L3	N 75°45'29" E	20.80'
L4	N 10°41'33" W	28.00'
L5	N 75°45'29" E	20.80'
L6	N 14°14'31" W	25.00'
L7	N 89°38'31" W	60.97'
L8	N 89°33'30" W	10.82'
L9	N 74°13'47" E	6.27'
L10	N 01°57'56" W	17.04'
L11	N 89°33'31" W	214.21'
L12 (R1)	N 89°38'31" W	60.97'
L13 (R1)	N 74°13'47" W	65.42'

CURVE DATA			
LINE	DELTA	RADIUS	LENGTH
C1	16°07'44"	390.00'	109.78'
C2	14°36'00"	410.00'	104.48'
C3	03°32'58"	140.00'	8.67'
C4	03°32'58"	112.00'	6.94'
C5	14°36'00"	413.00'	105.24'
C6	15°31'06"	387.00'	104.82'
C7	06°48'54"	413.00'	49.12'
C8 (R1)	16°07'42"	400.00'	112.60'

REFERENCE:
(R1)=2011000300651, O.R.

SHEET 3 OF 3



**OC PUBLIC WORKS
OC SURVEY**

RIGHT-OF-WAY SERVICES

ROW ID NO. 2022-039

SCALE: NO SCALE

EXHIBIT B

Z99683-118 & 151

PROJECT: TRABUCO CREEK ROAD- STORM DRAIN IMPROVEMENTS

PREPARED BY
JAH

CERTIFICATE OF ACCEPTANCE

This is to certify that the interest in real property conveyed by the within deed or grant to the COUNTY OF ORANGE, a political subdivision of the State of California, is hereby accepted by the undersigned officer or agent on behalf of the Board of Supervisors of Orange County, pursuant to authority conferred by Minute Order dated May 19th, 2020 and Ordinance No. 20-004 by the said Board of Supervisors, and the COUNTY OF ORANGE consents to recordation thereof by its duly authorized officer.

COUNTY OF ORANGE

Dated _____

By: _____

Thomas A. Miller,
Chief Real Estate Officer
County of Orange
Pursuant to Section 1-4-220 of the Codified
Ordinances of the County of Orange

Approved as to Form
Office of the County Counsel
County of Orange, California

By: _____ Date: _____
Deputy

RECORDED AT REQUEST OF,
AND WHEN RECORDED MAIL TO:

County of Orange
County Executive Office
c/o: Real Estate Services
400 W. Civic Center Drive, 5th Floor
Santa Ana, California 92701
Attn: Sergio Mora

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**This is to certify that this document is exempt
from recording fees per Govt. Code Sec. 27383
and is exempt from Document Transfer Tax per
Rev. & Taxation Code Sec. 11922.**

Unincorporated Area
 Incorporated, City of _____

Project Name: Trabuco Creek Road Storm
Drain Improvements
Facility/Parcel No: Z99683 - 119

EASEMENT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

TRABUCO CANYON WATER DISTRICT, a county water district organized and existing pursuant to
California law,
hereinafter referred to as "GRANTOR,"

does hereby GRANT to the COUNTY OF ORANGE, a political subdivision of the State of California,
hereinafter referred to as "COUNTY", a perpetual easement and right-of-way for rip rap line purposes
in, on, and over the real property in the County of Orange, State of California, described as:

(See Exhibit A for legal description and Exhibit B for depiction
attached hereto and by reference made a part hereof.)

Together with the right to excavate, fill, grade or regrade said property; whenever and wherever
necessary for the construction and maintenance purpose of the above set forth.

Nothing in this deed is intended, nor shall anything in this deed be construed, to transfer to COUNTY or
its successors or assigns, or to relieve GRANTOR or its successors or assigns or predecessors in title of
any responsibility or liability GRANTOR or its successors or assigns or predecessors in title now has,
has had, or comes to have with respect to human health or the environment, including but not limited to
responsibility or liability relating to hazardous or toxic substances or materials (as such terms as those
used in this sentence are defined by statute, ordinance, case law, governmental regulation, or other
provision of the law). Furthermore, COUNTY may exercise its rights under law to bring action, if
necessary, to recover clean up costs and penalties paid, if any, from GRANTOR or any others who are

ultimately determined by a court of competent jurisdiction and/or a federal, state or local regulatory or administrative governmental agency or body having jurisdiction, to have responsibility for said hazardous toxic substances or materials upon, within, or under the real property interests transferred pursuant to this deed. Notwithstanding the foregoing, COUNTY shall be and remain liable for any hazardous or toxic substances or materials which become located because of COUNTY's operations, upon, within, or under the real property interests transferred pursuant to this deed.

GRANTOR

TRABUCO CANYON WATER DISTRICT, a
county water district

Dated: _____

By: _____

Print Name: _____

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

COUNTY OF _____

On _____, 20____, before me _____, (Here insert name and title of officer)

personally appeared _____

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

Exhibit A

LEGAL DESCRIPTION

Trabuco Creek Road Storm Drain Improvements
Facility No.: Z99683
Parcel No.: 119

That certain portion of land in the Unincorporated Territory of the County of Orange, State of California, lying within Section 12, Township 6 South, Range 7 West, San Bernardino Meridian, over land described as Parcel 3 in the Grant Deed to Trabuco Canyon Water District, recorded April 12, 2002 as Instrument No. 20020307125 of Official Records in the office of the County Recorder of said county, described as follows:

PARCEL 119 (Permanent Easement)

Commencing at the southwest 1/16 corner of Section 6, Township 6 South, Range 6 West, as said corner is shown Record of Survey No. 94-1022, filed in Book 174, Pages 14 through 21 of Records of Survey in said Office of the County Recorder, said corner also being the southeast corner of Lot 2 as shown on said map; thence northerly along the easterly boundary of said Lot, North $00^{\circ}16'04''$ West, 905.05 feet to the intersection with the centerline of Trabuco Creek Road, 20.00 feet in width, as described in Parcel 116 of Resolution 11-031, recorded June 21, 2011 as Instrument No. 2011000300651 of Official Records in said Office of the County Recorder; thence leaving said boundary and westerly along said centerline, South $81^{\circ}02'07''$ West, 32.01 feet to the beginning of a curve, concave northerly and having a radius of 200.00 feet with a central angle of $20^{\circ}43'15''$; thence continuing westerly along said centerline to the westerly terminus of that certain course described in Parcel 113 as, "N. $74^{\circ}13'47''$ E., 65.42 feet" and labeled T36 on Exhibit B, both of said Resolution;

thence leaving said centerline South $15^{\circ}46'15''$ East 10.00 feet to a point on the southerly boundary of said Trabuco Creek Road and the **TRUE POINT OF BEGINNING**.

thence along said boundary the following two courses:

1. North $74^{\circ}13'47''$ East 65.42 feet to the beginning of a curve, concave southerly and having a radius of 290.00 feet; and
2. Easterly 10.27 feet along said curve through a central angle of $02^{\circ}01'43''$;

thence leaving said boundary South $13^{\circ}44'30''$ East 12.00 feet along a radial line to the beginning of a non-tangent curve, concave southerly and having a radius of 278.00 feet;

thence Westerly 9.84 feet along said curve through a central angle of $02^{\circ}01'43''$;

thence South $74^{\circ}13'47''$ West 65.42 feet to the beginning of a curve, concave Northerly and having a radius of 422.00 feet;

thence Westerly 2.08 feet along said curve through a central angle of $00^{\circ}16'55''$;

thence North 15°29'18" West 12.00 feet along a radial line to a point on the southerly boundary of Trabuco Creek Road, said point being the beginning of a non-tangent curve, concave northerly and having a radius of 410.00 feet;

thence Easterly 2.02 feet along said curve through a central angle of 00°16'55" to the **TRUE POINT OF BEGINNING.**

Containing 930 Square Feet, more or less.

See EXHIBIT B attached and by reference made a part.

APPROVED
Kevin Hills, County Surveyor, L.S. 6617



Date: 4/17/2023

By: Raymond J. Rivera, L.S. 8324



**SKETCH TO ACCOMPANY LEGAL DESCRIPTION IN
UNINCORPORATED TERRITORY, COUNTY OF ORANGE, STATE OF CALIFORNIA**



SEC 7
T.6.S. R.7.W.

SEC 8
T.6.S. R.6.W.

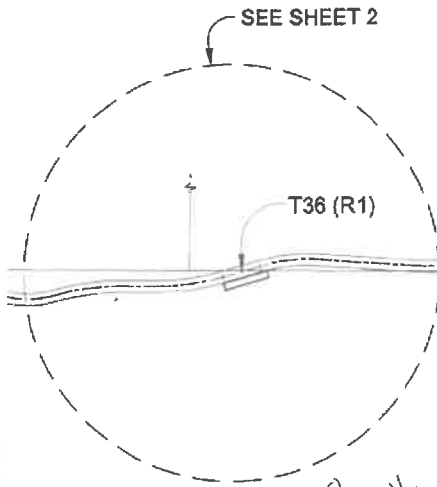
SEC 12
T.6.S. R.7.W.

[LOT 1]

[LOT 2]

TRABUCO CREEK ROAD
(R1)

P.O.C.
[SW 1/16 CORNER]



REFERENCE:
(R1)=2011000300651, O.R.
[]=R.S.B. 174/14-21

COURSE DATA (R1)			
LINE	BEARING	DISTANCE	
L1	N 81°02'07" W	32.01'	
LINE	DELTA	RADIUS	LENGTH
C1	20°43'15"	200.00'	72.33'

SHEET 1 OF 2



**OC PUBLIC WORKS
OC SURVEY**

RIGHT-OF-WAY SERVICES

ROW ID NO. 2022-039

SCALE: 1"= 300'

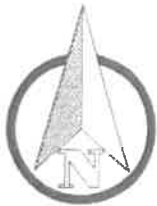
EXHIBIT B

Z99683-119

PROJECT: TRABUCO CREEK ROAD- STORM DRAIN IMPROVEMENTS

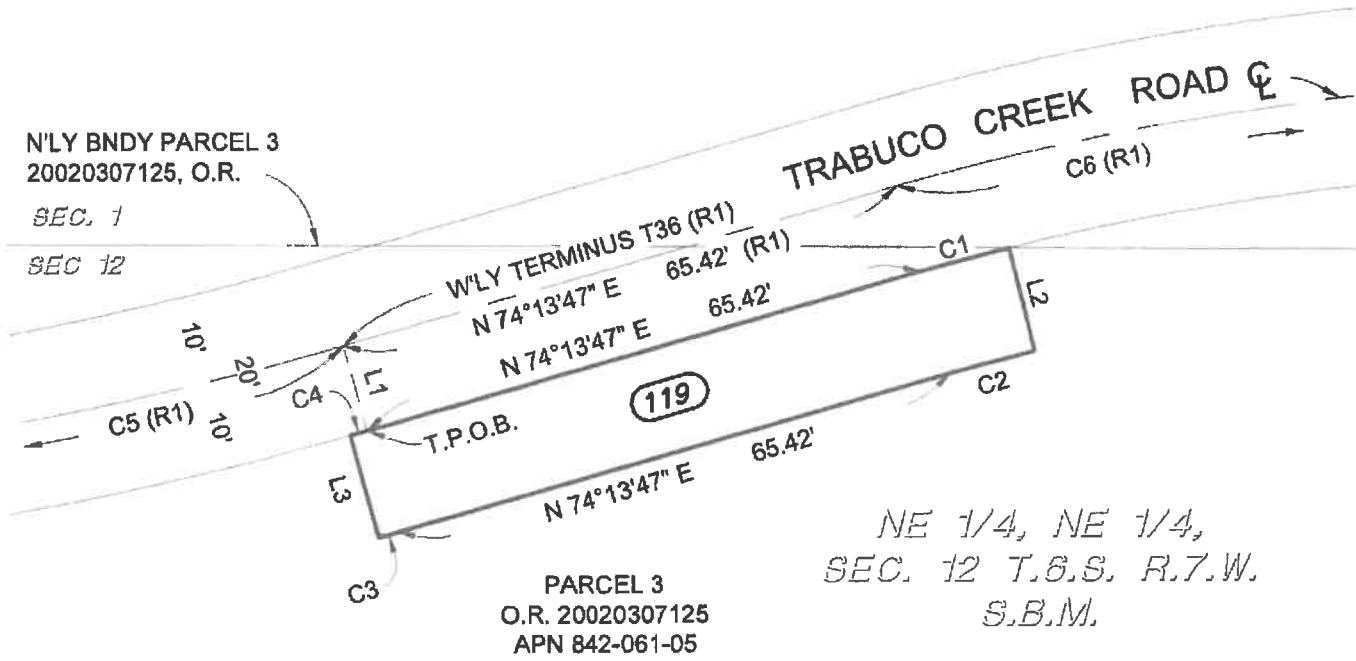
PREPARED BY:
JAH

**SKETCH TO ACCOMPANY LEGAL DESCRIPTION IN
UNINCORPORATED TERRITORY, COUNTY OF ORANGE, STATE OF CALIFORNIA**



POR. SEC. 1 T.6.S. R.7.W. S.B.M.

O.R. 2017000049301
APN 842-031-05



*NE 1/4, NE 1/4,
SEC. 12 T.6.S. R.7.W.
S.B.M.*

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 15°46'15" W	10.00'
L2	N 13°44'30" W	12.00'
L3	N 15°29'18" W	12.00'

CURVE DATA			
LINE	DELTA	RADIUS	LENGTH
C1	02°01'43"	290.00'	10.27'
C2	02°01'43"	278.00'	9.84'
C3	00°16'55"	422.00'	2.08'
C4	00°16'55"	410.00'	2.02'
C5 (R1)	16°07'42"	400.00'	112.60'
C6 (R1)	19°37'26"	300.00'	102.75'

REFERENCE:
(R1)=2011000300651, O.R.

SHEET 2 OF 2



**OC PUBLIC WORKS
OC SURVEY**

RIGHT-OF-WAY SERVICES

ROW ID NO. 2022-039

SCALE: 1" = 20'

EXHIBIT B

Z99683-119

PROJECT: TRABUCO CREEK ROAD- STORM DRAIN IMPROVEMENTS

PREPARED BY:
JAH

CERTIFICATE OF ACCEPTANCE

This is to certify that the interest in real property conveyed by the within deed or grant to the COUNTY OF ORANGE, a political subdivision of the State of California, is hereby accepted by the undersigned officer or agent on behalf of the Board of Supervisors of Orange County, pursuant to authority conferred by Minute Order dated May 19th, 2020 and Ordinance No. 20-004 by the said Board of Supervisors, and the COUNTY OF ORANGE consents to recordation thereof by its duly authorized officer.

COUNTY OF ORANGE

Dated _____

By: _____

Thomas A. Miller,
Chief Real Estate Officer
County of Orange
Pursuant to Section 1-4-220 of the Codified
Ordinances of the County of Orange

Approved as to Form
Office of the County Counsel
County of Orange, California

By: _____ Date: _____
Deputy

RECORDED AT REQUEST OF,
AND WHEN RECORDED MAIL TO:

County of Orange
County Executive Office
c/o: Real Estate Services
400 W Civic Center Drive, 5th Floor
Santa Ana, California 92701
Attn: Sergio Mora

SPACE ABOVE THIS LINE FOR RECORDER'S USE

**This is to certify that this document is exempt
from recording fees per Govt. Code Sec. 27383
and is exempt from Document Transfer Tax per
Rev. & Taxation Code Sec. 11922.**

Unincorporated Area
 Incorporated, City of _____

Project Name: Trabuco Creek Road Storm
Drain Improvements
Facility/Parcel No: Z99683 - 151

TEMPORARY EASEMENT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

TRABUCO CANYON WATER DISTRICT, a county water district organized and existing pursuant to California law,
hereinafter referred to as "**GRANTOR,**"

does hereby GRANT to the COUNTY OF ORANGE, a political subdivision of the State of California, hereinafter referred to as "**COUNTY**", a temporary easement for construction purposes in, over, and across the real property in the County of Orange, State of California, described as:

(See Exhibit A for legal description and Exhibit B for depiction attached hereto and by reference made a part hereof.)

Together with the right to excavate, fill or regrade said property; to establish, re-establish, remove, restore and enhance vegetation, to enter upon, to pass and repass over and along said land, and to deposit tools, implements and other materials thereon by said COUNTY, its officers, agents and employees, and by persons under contract with it and their employees, whenever and wherever necessary for the purposes above set forth.

The easement herein granted shall be for a period of 6 years from commencement of construction and shall terminate at the end of such period or upon filing of a Notice of Completion, whichever first occurs. Upon termination of the easement, COUNTY shall deliver to GRANTOR a fully executed quitclaim deed and any other documentation necessary to remove the easement from title. GRANTOR shall be given written notice by COUNTY's Director, OC Public Works, or designee, as to the date COUNTY requires use of the property for commencement of construction at least ten business days

prior to the commencement of construction.

Nothing in this temporary easement deed is intended, nor shall anything in this temporary easement deed be construed, to transfer to COUNTY or its successors or assigns, or to relieve GRANTOR or its successors or assigns or predecessors in title of any responsibility or liability GRANTOR or its successors or assigns or predecessors in title now has, has had, or comes to have with respect to human health or the environment, including but not limited to responsibility or liability relating to hazardous or toxic substances or materials (as such terms as those used in this sentence are defined by statute, ordinance, case law, governmental regulation, or other provision of the law). Furthermore, COUNTY may exercise its rights under law to bring action, if necessary, to recover clean up costs and penalties paid, if any, from GRANTOR or any others who are ultimately determined by a court of competent jurisdiction and/or a federal, state or local regulatory or administrative governmental agency or body having jurisdiction, to have responsibility for said hazardous toxic substances or materials upon, within, or under the real property interests transferred pursuant to this temporary easement deed. Notwithstanding the foregoing, COUNTY shall be and remain liable for any hazardous or toxic substances or materials which become located because of COUNTY's operations, upon, within, or under the real property interests transferred pursuant to this temporary easement deed.

GRANTOR

TRABUCO CANYON WATER DISTRICT, a
county water district

Dated: _____

By: _____

Print Name: _____

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

COUNTY OF _____

On _____, 20____, before me _____,
(Here insert name and title of officer)

personally appeared _____

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

Exhibit A

LEGAL DESCRIPTION

Trabuco Creek Road Storm Drain Improvements
Facility No.: Z99683
Parcel No.: 151

PARCEL 151 (Temporary Construction Easement)

That certain portion of land in the Unincorporated Territory of the County of Orange, State of California, lying within Section 12, Township 6 South, Range 7 West, San Bernardino Meridian, over land described as Parcel 3 in the Grant Deed to Trabuco Canyon Water District, recorded April 12, 2002 as Instrument No. 20020307125 of Official Records in the office of the County Recorder of said county, described as follows:

Beginning at POINT A as described in parcel 118 in the easement deed to the County of Orange recorded _____ as Instrument No.: _____ of Official Records in said office of the County Recorder, being the beginning of a non-tangent curve, concave northerly and having a radius of 387.00 feet, a radial line through said beginning bears South 15°09'37" East;

thence Westerly 104.82 feet along said curve through a central angle of 15°31'06"

thence North 89°38'31" West 60.97 feet to the beginning of a curve, concave southerly and having a radius 413.00 feet;

thence Westerly 49.12 feet along said curve through a central angel of 06°48'54";

thence North 01°57'56" West 17.04 feet to the northerly boundary of aforesaid Parcel 3;
thence along said boundary South 89°33'30 East 214.21 feet to the point of beginning.

Containing 2,616 Square Feet, more or less.

See EXHIBIT B attached and by reference made a part.

APPROVED
Kevin Hills, County Surveyor, L.S. 6617


By: Raymond J. Rivera, L.S. 8324

Date: 7/26/2023



**SKETCH TO ACCOMPANY LEGAL DESCRIPTION IN
UNINCORPORATED TERRITORY, COUNTY OF ORANGE, STATE OF CALIFORNIA**



SEC 1
T.6.S. R.7.W.

SEC 6
T.6.S. R.6.W.

[T.5.S.]

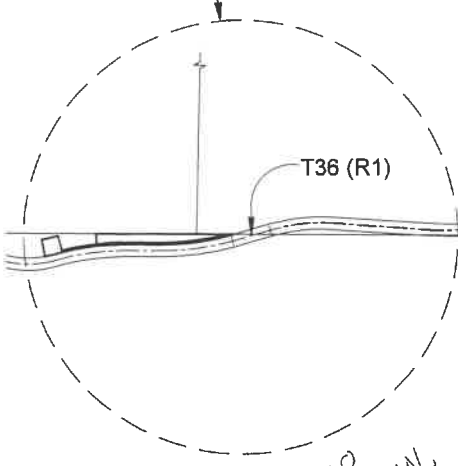
[T.6.S.]

[LOT 1]

[R.7.W.]

[R.6.W.]

SEE SHEET 2



T36 (R1)

[SEC 1]

[SEC 12]

TRABUCO CREEK ROAD
(R1)

L1
(R1)

C1
(R1)

905.05' (R1)

N 00°16'04" W

P.O.C.
[SW 1/16 CORNER]

[840.16']

[LOT 2]

[S 1/16]

REFERENCE:
(R1)=2011000300651, O.R.
[]=R.S.B. 174/14-21

COURSE DATA (R1)

LINE	BEARING	DISTANCE	
L1	N 81°02'07" W	32.01'	
LINE	DELTA	RADIUS	LENGTH
C1	20°43'15"	200.00'	72.33'

SHEET 1 OF 3



**OC PUBLIC WORKS
OC SURVEY**
RIGHT-OF-WAY SERVICES

ROW ID NO. 2022-039

SCALE: 1"= 300'

EXHIBIT B

Z99683-118 & 151

PROJECT: TRABUCO CREEK ROAD- STORM DRAIN IMPROVEMENTS

PREPARED BY:
JAH

**SKETCH TO ACCOMPANY LEGAL DESCRIPTION IN
UNINCORPORATED TERRITORY, COUNTY OF ORANGE, STATE OF CALIFORNIA**



POR. SEC. 1 T.6.S.
R.7.W. S.B.M.

O.R. 2017000049301
APN 842-031-05

SEE
DETAIL "A"

S15°09'37"E
RAD.

L8

L13 (R1)

POINT "A"

C8

CREEK
C8 (R1)
T.P.O.B.

WLY
TERMINUS
T36 (R1)

O.R. 2017000049301
APN 842-031-09

151

NE 1/4, NE 1/4,
SEC. 12 T.6.S. R.7.W.
S.B.M.

NLY BNDY PARCEL 3
20020307125, O.R.

118

PARCEL 3
O.R. 20020307125
APN 842-061-05

DETAIL "A"

S15°09'37"E
RAD.

POINT "A"

L8

L9

T.P.O.B.

WLY
TERMINUS
T36 (R1)

N.T.S.

REFERENCE:
(R1)=2011000300651, O.R.

SHEET 2 OF 3



**OC PUBLIC WORKS
OC SURVEY**
RIGHT-OF-WAY SERVICES

ROW ID NO. 2022-039

SCALE: 1" = 50'

EXHIBIT B

Z99683-118 & 151

PROJECT: TRABUCO CREEK ROAD- STORM DRAIN IMPROVEMENTS

PREPARED BY:
JAH

**SKETCH TO ACCOMPANY LEGAL DESCRIPTION IN
UNINCORPORATED TERRITORY, COUNTY OF ORANGE, STATE OF CALIFORNIA**

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N 15°46'13" W	10.00'
L2	N 89°38'31" W	60.97'
L3	N 75°45'29" E	20.80'
L4	N 10°41'33" W	28.00'
L5	N 75°45'29" E	20.80'
L6	N 14°14'31" W	25.00'
L7	N 89°38'31" W	60.97'
L8	N 89°33'30" W	10.82'
L9	N 74°13'47" E	6.27'
L10	N 01°57'56" W	17.04'
L11	N 89°33'31" W	214.21'
L12 (R1)	N 89°38'31" W	60.97'
L13 (R1)	N 74°13'47" W	65.42'

CURVE DATA			
LINE	DELTA	RADIUS	LENGTH
C1	16°07'44"	390.00'	109.78'
C2	14°36'00"	410.00'	104.48'
C3	03°32'58"	140.00'	8.67'
C4	03°32'58"	112.00'	6.94'
C5	14°36'00"	413.00'	105.24'
C6	15°31'06"	387.00'	104.82'
C7	06°48'54"	413.00'	49.12'
C8 (R1)	16°07'42"	400.00'	112.60'

REFERENCE:
(R1)=2011000300651, O.R.

SHEET 3 OF 3



**OC PUBLIC WORKS
OC SURVEY**
RIGHT-OF-WAY SERVICES

ROW ID NO. 2022-039

SCALE: NO SCALE

EXHIBIT B

Z99683-118 & 151

PROJECT: TRABUCO CREEK ROAD- STORM DRAIN IMPROVEMENTS

PREPARED BY:
JAH

CERTIFICATE OF ACCEPTANCE

This is to certify that the interest in real property conveyed by the within deed or grant to the COUNTY OF ORANGE, a political subdivision of the State of California, is hereby accepted by the undersigned officer or agent on behalf of the Board of Supervisors of Orange County, pursuant to authority conferred by Minute Order dated May 19th, 2020 and Ordinance No. 20-004 by the said Board of Supervisors, and the COUNTY OF ORANGE consents to recordation thereof by its duly authorized officer.

COUNTY OF ORANGE

Dated _____

By: _____

Thomas A. Miller,
Chief Real Estate Officer
County of Orange
Pursuant to Section 1-4-220 of the Codified
Ordinances of the County of Orange

Approved as to Form
Office of the County Counsel
County of Orange, California

By: _____ Date: _____
Deputy

Attachment 2

General Provisions

GENERAL PROVISIONS

1. DEPOSIT OF FUNDS

The law dealing with the disbursement of funds requires that all funds be available for withdrawal as a matter of right by the title entity's escrow and/or sub escrow account prior to disbursement of any funds. Only wire-transferred funds can be given immediate availability upon deposit. Cashier's checks, teller's checks and Certified checks may be available one business day after deposit. All other funds such as personal, corporate or partnership checks and drafts are subject to mandatory holding periods which may cause material delays in disbursement of funds in this escrow. In order to avoid delays, all fundings should be wire transferred. Outgoing wire transfers will not be authorized until confirmation of the respective incoming wire transfer or of availability of deposited checks.

Deposit of funds into general escrow trust account unless instructed otherwise. You may instruct Escrow Holder to deposit your funds into an interest bearing account by signing and returning the "Escrow Instructions - Interest Bearing Account", which has been provided to you. If you do not so instruct us, then all funds received in this escrow shall be deposited with other escrow funds in one or more general escrow trust accounts, which include both non-interest bearing demand accounts and other depository accounts of Escrow Holder, in any state or national bank or savings and loan association insured by the Federal Deposit Insurance Corporation (the "depository institutions") and may be transferred to any other such escrow trust accounts of Escrow Holder or one of its affiliates, either within or outside the State of California. A general escrow trust account is restricted and protected against claims by third parties and creditors of Escrow Holder and its affiliates.

Receipt of benefits by Escrow Holder and affiliates. The parties to this escrow acknowledge that the maintenance of such general escrow trust accounts with some depository institutions may result in Escrow Holder or its affiliates being provided with an array of bank services, accommodations or other benefits by the depository institution. Some or all of these benefits may be considered interest due you under California Insurance Code Section 12413.5. Escrow Holder or its affiliates also may elect to enter into other business transactions with or obtain loans for investment or other purposes from the depository institution. All such services, accommodations, and other benefits shall accrue to Escrow Holder or its affiliates and Escrow Holder shall have no obligation to account to the parties to this escrow for the value of such services, accommodations, interest or other benefits.

Said funds will not earn interest unless the instructions otherwise specifically state that funds shall be deposited in an interest-bearing account. All disbursements shall be made by check of **Chicago Title Company**. The principals to this escrow are hereby notified that the funds deposited herein are insured only to the limit provided by the Federal Deposit Insurance Corporation. Any instruction for bank wire will provide reasonable time or notice for Escrow Holder's compliance with such instruction. Escrow Holder's sole duty and responsibility shall be to place said wire transfer instructions with its wiring bank upon confirmation of (1) satisfaction of conditions precedent or (2) document recordation at close of escrow. Escrow Holder will NOT be held responsible for lost interest due to wire delays caused by any bank or the Federal Reserve System, and recommends that all parties make themselves aware of banking regulations with regard to placement of wires.

In the event there is insufficient time to place a wire upon any such confirmation or the wires have closed for the day, the parties agree to provide written instructions for an alternative method of disbursement. WITHOUT AN ALTERNATIVE DISBURSEMENT INSTRUCTION, FUNDS WILL BE HELD IN TRUST IN A NON-INTEREST BEARING ACCOUNT UNTIL THE NEXT OPPORTUNITY FOR WIRE PLACEMENT.

2. PRORATIONS AND ADJUSTMENTS

All prorations and/or adjustments called for in this escrow are to be made on the basis of a thirty (30) day month unless otherwise instructed in writing. You are to use information contained on last available tax statement, rental statement as provided by the Seller, beneficiary's statement and fire insurance policy delivered into escrow for the prorations provided for herein.

3. SUPPLEMENTAL TAXES

The within described property may be subject to supplemental real property taxes due to the change of ownership taking place through this or a previous escrow transaction. Any supplemental real property taxes arising as a result of the transfer of the property to Buyer shall be the sole responsibility of Buyer and any supplemental real property taxes arising prior to the closing date shall be the sole responsibility of the Seller. TAX BILLS OR REFUNDS ISSUED AFTER CLOSE OF ESCROW SHALL BE HANDLED DIRECTLY BETWEEN BUYER AND SELLER.

4. UTILITIES/POSSESSION

Transfer of utilities and possession of the premises are to be settled by the parties directly and outside escrow.

5. PREPARATION AND RECORDATION OF INSTRUMENTS

Escrow Holder is authorized to prepare, obtain, record and deliver the necessary instruments to carry out the terms and conditions of this escrow and to order the policy of title insurance to be issued at close of escrow as called for in these instructions. Close of escrow shall mean the date instruments are recorded.

6. AUTHORIZATION TO FURNISH COPIES

You are authorized to furnish copies of these instructions, supplements, amendments, notices of cancellation and closing statements, to the Real Estate Broker(s) and Lender(s) named in this escrow.

7. RIGHT OF CANCELLATION

Any principal instructing you to cancel this escrow shall file notice of cancellation in your office in writing. You shall, within two (2) working days thereafter, deliver, one copy of such notice to each of the other principals at the addresses stated in this escrow. UNLESS

WRITTEN OBJECTION TO CANCELLATION IS FILED IN YOUR OFFICE BY A PRINCIPAL WITHIN TEN (10) DAYS AFTER DATE OF SUCH DELIVERY, YOU ARE AUTHORIZED TO COMPLY WITH SUCH NOTICE AND DEMAND PAYMENT OF YOUR CANCELLATION CHARGES. If written objection is filed, you are authorized to hold all money and instruments in this escrow and take no further action until otherwise directed, either by the principals' mutual written instructions, or by final order of a court of competent jurisdiction.

8. PERSONAL PROPERTY

No examination or insurance as to the amount or payment of personal property taxes is required unless specifically requested.

By signing these General Provisions, the parties to the escrow hereby acknowledge that they are indemnifying the Escrow Holder against any and all matters relating to any "Bulk Sales" requirements, and instruct Escrow Agent to proceed with the closing of escrow without any consideration of matter of any nature whatsoever regarding "Bulk Sales" being handled through escrow.

9. RIGHT OF RESIGNATION

Escrow Holder has the right to resign upon written notice delivered to the principals herein. If such right is exercised, all funds and documents shall be returned to the party who deposited them and Escrow Holder shall have no liability hereunder.

10. AUTHORIZATION TO EXECUTE ASSIGNMENT OF HAZARD INSURANCE POLICIES

Either Buyer, Seller and/or Lender may hand you the insurance agent's name and insurance policy information, and you are to execute, on behalf of the principals hereto, form assignments of interest in any insurance policy (other than title insurance) called for in this escrow, forward assignment and policy to the insurance agent, requesting that the insurer consent to such transfer and/or attach a loss payable clause and/or such other endorsements as may be required, and forward such policy(s) to the principals entitled thereto. It is not your responsibility to verify the information handed you or the assignability of said insurance. Your sole duty is to forward said request to insurance agent at close of escrow.

Further, there shall be no responsibility upon the part of Escrow Holder to renew hazard insurance policy(s) upon expiration or otherwise keep it in force either during or subsequent to the close of escrow. Cancellation of any existing hazard insurance policies is to be handled directly by the principals, and outside of escrow.

11. ACTION IN INTERPLEADER

The principals hereto expressly agree that you, as Escrow Holder, have the absolute right at your election to file an action in interpleader requiring the principals to answer and litigate their several claims and rights among themselves and you are authorized to deposit with the clerk of the court all documents and funds held in this escrow. In the event such action is filed, the principals jointly and severally agree to pay your cancellation charges and costs, expenses and reasonable attorney's fees which you are required to expend or incur in such interpleader action, the amount thereof to be fixed and judgment therefore to be rendered by the court. Upon the filing of such action, you shall thereupon be fully released and discharged from all obligations imposed by the terms of this escrow or otherwise.

12. TERMINATION OF AGENCY OBLIGATION

If there is no action taken on this escrow within six (6) months after the "time limit date" as set forth in the escrow instructions or written extension thereof, your agency obligation shall terminate at your option and all documents, monies or other items held by you shall be returned to the parties depositing same. In the event of cancellation of this escrow, whether it be at the request of any of the principals or otherwise, the fees and charges due **Chicago Title Company**, including expenditures incurred and/or authorized shall be borne equally by the parties hereto (unless otherwise agreed to specifically).

13. CONFLICTING INSTRUCTIONS

Upon receipt of any conflicting instructions, you are to take no action in connection with this escrow until non-conflicting instructions are received from all of the principals to this escrow (subject to sections 7, 9, 11 and 12 above).

14. DELIVERY/RECEIPT

Delivery to principals as used in these instructions unless otherwise stated herein is to be by hand in person to the principal, regular mail, email or fax to any of the contact information provided in these instructions. If delivered by regular mail receipt is determined to be 72 hours after such mailing. All documents, balances and statements due to the undersigned may be delivered to the contact information shown herein. All notices, change of instructions, communications and documents are to be delivered in writing to the office of **Chicago Title Company** as set forth herein.

15. STATE/FEDERAL CODE NOTIFICATIONS

According to Federal Law, the Seller, when applicable, will be required to complete a sales activity report that will be utilized to generate a 1099 statement to the Internal Revenue Service.

Pursuant to State Law, prior to the close of escrow, Buyer will provide Escrow Holder with a Preliminary Change of Ownership Report. In the event said report is not handed to Escrow Holder for submission to the County in which subject property is located, upon recording of the Grant Deed, Buyers acknowledge that the applicable fee will be assessed by said County and Escrow Holder shall debit the account of Buyer for same at close of escrow.

16. NON-RESIDENT ALIEN

The Foreign Investment in Real Property Tax Act (FIRPTA), Title 26 U.S.C., Section 1445, and the regulations there under, provide in part, that a transferee (buyer) of a U.S. real property interest from a foreign person must withhold a statutory percentage of the amount realized on the disposition, report the transaction and remit the withholding to the Internal Revenue Service (IRS) within twenty (20) days after the transfer. **Chicago Title Company** will not determine nor aid in the determination of whether the FIRPTA withholding

provisions are applicable to the subject transaction, nor act as a Qualified Substitute under state or federal law, nor furnish tax advice to any party to the transaction. **Chicago Title Company** will not determine nor aid in the determination of whether the transaction will qualify for an exception or an exemption and is not responsible for the filing of any tax forms with the IRS as they relate to FIRPTA, nor responsible for collecting and holding of any documentation from the buyer or seller on the buyer's behalf for the purpose of supporting a claim of an exception or exemption. **Chicago Title Company** is not an agent for the buyer for the purposes of receiving and analyzing any evidence or documentation that the seller in the subject transaction is a U.S. citizen or resident alien. **Chicago Title Company** is not responsible for the payment of this tax and/or penalty and/or interest incurred in connection therewith and such taxes are not a matter covered by the Owner's Policy of Title Insurance to be issued to the buyer. **Chicago Title Company** is not responsible for the completion of any IRS documents or related forms related to the referenced statute. The buyer is advised: they must independently make a determination of whether the contemplated transaction is subject to the withholding requirement; bear full responsibility for compliance with the withholding requirement if applicable and/or for payment of any tax, interest, penalties and/or other expenses that may be due on the subject transaction; and they are responsible for the completion of any and all forms, including but not limited to applicable IRS documentation, and the mailing of those forms. The Buyer is advised any forms, documents, or information received from **Chicago Title Company** is not tax or legal advice and should not be construed as such nor treated as a complete representation of FIRPTA requirements. Buyer should seek outside counsel from a qualified individual to determine any and all implications of the referenced statute.

17. ENCUMBRANCES

Escrow Holder is to act upon any statements furnished by a lienholder or his agent without liability or responsibility for the accuracy of such statements. Any adjustments necessary because of a discrepancy between the information furnished Escrow Holder and any amount later determined to be correct shall be settled between the parties direct and outside of escrow.

You are authorized, without the need for further approval, to debit my account for any fees and charges that I have agreed to pay in connection with this escrow, and for any amounts that I am obligated to pay to the holder of any lien or encumbrance to establish the title as insured by the policy of title insurance called for in these instructions. If for any reason my account is not debited for such amounts at the time of closing, I agree to pay them immediately upon demand, or to reimburse any other person or entity who has paid them.

18. ENVIRONMENTAL ISSUES

Chicago Title Company has made no investigation concerning said property as to environmental/toxic waste issues. Any due diligence required or needed to determine environmental impact as to forms of toxification, if applicable, will be done directly and by principals outside of escrow. **Chicago Title Company** is released of any responsibility and/or liability in connection therewith.

19. USURY

Escrow Holder is not to be concerned with any questions of usury in any loan or encumbrance involved in the processing of this escrow and is hereby released of any responsibility or liability therefore.

20. DISCLOSURE

Escrow Holder's knowledge of matters affecting the property, provided such facts do not prevent compliance with these instructions, does not create any liability or duty in addition to these instructions.

21. FACSIMILE/ELECTRONIC SIGNATURE

Escrow Holder is hereby authorized and instructed that, in the event any party utilizes electronic or "facsimile" transmitted signed documents or instructions to Escrow Holder, you are to rely on the same for all escrow instruction purposes and the closing of escrow as if they bore original signatures. "Electronic Signature" means, as applicable, an electronic copy or signature complying with California Law.

22. CLARIFICATION OF DUTIES

Chicago Title Company serves ONLY as an Escrow Holder in connection with these instructions and cannot give legal advice to any party hereto.

Escrow Holder is not to be held accountable or liable for the sufficiency or correctness as to form, manner of execution, or validity of any instrument deposited in this escrow, nor as to the identity, authority or rights of any person executing the same. Escrow Holder's duties hereunder shall be limited to the proper handling of such money and the proper safekeeping of such instruments, or other documents received by Escrow Holder, and for the disposition of same in accordance with the written instructions accepted by Escrow Holder.

The agency and duties of Escrow Holder commence only upon receipt of copies of these Escrow Instructions executed by all parties.

23. FUNDS HELD IN ESCROW

When the company has funds remaining in escrow over 90 days after close of escrow or estimated close of escrow, the Company shall impose a monthly holding fee of \$25.00 that is to be charged against the funds held by the Company.

THIS AGREEMENT IN ALL PARTS APPLIES TO, INURES TO THE BENEFIT OF, AND BINDS ALL PARTIES HERETO, THEIR HEIRS, LEGATEES, DEVISEES, ADMINISTRATORS, EXECUTORS, SUCCESSORS AND ASSIGNS, AND WHENEVER THE CONTEXT SO REQUIRES THE MASCULINE GENDER INCLUDES THE FEMININE AND NEUTER, AND THE SINGULAR NUMBER INCLUDES THE PLURAL. THESE INSTRUCTIONS AND ANY OTHER AMENDMENTS MAY BE EXECUTED IN ANY NUMBER OF COUNTERPARTS, EACH OF WHICH SHALL BE CONSIDERED AS AN ORIGINAL AND BE EFFECTIVE AS SUCH.

MY SIGNATURE HERETO CONSTITUTES INSTRUCTION TO ESCROW HOLDER OF ALL TERMS AND CONDITIONS CONTAINED IN THIS AND ALL PRECEDING PAGES AND FURTHER SIGNIFIES THAT I HAVE READ AND UNDERSTAND THESE GENERAL PROVISIONS.

Chicago Title Company conducts escrow business under a Certificate of Authority No. 350 issued by the California Department of Insurance.

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

ENGINEERING MATTERS

ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES

1. Staff Presentation on Cartegraph
2. Staff Presentation on WWTP SBR Improvements
3. Staff Presentation on Dove Center Fire Service Upgrades
4. Saddle Crest Development Update

RECOMMENDED ACTION:

Committee to receive project status updates at the time of the Committee Meeting.

EXHIBIT(S):

None

CONTACTS (staff responsible): PALUDI/PEREA/LAUSTEN

*Carte*graph

Computerized Maintenance and Management System (CMMS)



Trabuco Canyon Water District

February 7, 2024 Engineering/Operational Committee Meeting

Presentation Agenda

- Background
- System Dashboard
- Tasks
- Gadgets
- 811 Integration - DigAlert
- Vendor Management
- Fleet Management
- Mobile Version
- Reporting Features
- Brief Demonstration



BACKGROUND

- **Earliest Stages**
 - Multiple software solutions – JetStream, Tokay, MS Excel reports
 - Challenges: Inconsistent results, time management issue, lacked ongoing support
- **First CMMS – Manager Plus**
 - Basic and cumbersome
 - Did not track tasks nor assist with budgeting
 - Limited training experience
- **Second CMMS – Cartegraph**
 - Reviewed three proposed software systems
 - Selected Cartegraph after detailed review & demos
 - Reference: City of Laguna Beach

SYSTEM DASHBOARD

Daily progress

Needs attention

Gadgets

OPENGOV | Asset Management Dashboard Requests Work Assets Resources Reports Scenarios Try the new UI! Search

Sewers Cleaned Last Month: 12,814 ft

Sewer Lines Cleaned This Month: 101,563 ft

Sewer Lines Cleaned This Year: 227,645 ft

Vendors Expired Policies: Current 10, Goal 0. Keep it up!

My Completed Tasks 2023

Task ID	Activity	Asset	
9505	Verify Insurance Policy on...	Non-Asset	⚠
9506	Verify Insurance Policy on...	Non-Asset	⚠
9462	Verify Insurance Policy on...	Non-Asset	⚠
9460	Verify Insurance Policy on...	Non-Asset	⚠
9461	Verify Insurance Policy on...	Non-Asset	⚠

1 - 5 of 141

All Completed Tasks This Month

Task ID	Activity	Asset	Status	811 Ticket Closed By	Actual ...	Last Mo...	Actual Start Date
346	Water Backflow T...	Water Backflo...	Completed		12/7/2023	jmontero	12/7/2023



Tasks

Operators can select an asset from a list or its locale on the map.

Once selected, you can see its history of tasks, create a new task, or see the status on a current task,

The screenshot displays the OPENGOV Asset Management web application. The main view is for 'Water Hydrant 56', showing its details and a map. A 'Creating Task' dialog box is open, allowing the user to create a new task for this asset. The dialog includes fields for Activity (set to 'Replace'), Start Date (2/8/2024), Stop Date (2/9/2024), and a description: 'Hydrant struck by vehicle. Replace with new hydrant and test bury for unseen damage.' A dropdown menu for 'Select a Laborer or Crew' is open, showing 'Brent Monson - 100343 - Water Operations' as the selected option.

Below the dialog, the 'Tasks' section is visible, showing a summary of task counts and a table of task history.

Task ID	Activity	Entered By	Status	Estimated Start	Actual Start D...	Actual Stop Da...	Priority	Total C...
IM-WH-56-1	Flush	cgAdmin	Completed		7/29/2020	7/29/2020	None	
13468	Replace	pserpas	Planned	2/8/2024			None	
12309	Flush and Exercise	pserpas	Planned	6/1/2024			None	



GADGETS

KPI (Key Performance Indicator) Gadget below tracks any currently expired insurance policies. Superintendents are also notified when a policy is set to expire within the next 14 days.

Number Gadget below provides total number in feet of sewer lines cleaned this year. Also have total number for *This* month and *Last* month.

Vendors Expired Policies 10 total records

Vendor	Entry Date	Inactive	Last Modif...	Policy Eff	Policy Exp	Policy Nu...	Type of Insurance
HYDROTECH ELECTRIC	4/14/2023 2...	○	6/26/2023 9...	11/21/2022	11/13/2023	XL00204527...	UMBRELLA LIABILITY
PARKHOUSE TIRE	4/17/2023 7...	○	6/26/2023 9...	10/31/2022	10/31/2023	9853305	AUTOMOBILE LIABL...
PARKHOUSE TIRE	4/17/2023 7...	○	6/26/2023 9...	10/31/2022	10/31/2023	9853305	COMMERCIAL GENE...
XYLEM DE-WATERING	4/18/2023 8...	○	6/26/2023 9...	10/31/2022	10/31/2023	WC 35901965	WORKERS COMPEN...
XYLEM DE-WATERING	4/18/2023 8...	○	6/26/2023 9...	10/31/2022	10/31/2023	GL 9584127	COMMERCIAL GENE...
XYLEM DE-WATERING	4/18/2023 8...	○	6/26/2023 9...	10/31/2022	10/31/2023	CA 7281067	AUTOMOBILE LIABL...
XYLEM DE-WATERING	4/18/2023 8...	○	6/26/2023 9...	10/31/2022	10/31/2023	USL00109922	UMBRELLA LIABILITY
JRT ROOFING	4/17/2023 7...	○	6/26/2023 9...	10/10/2022	10/10/2023	GLO-091702	COMMERCIAL GENE...
JRT ROOFING	4/17/2023 7...	○	6/26/2023 9...	10/9/2022	10/9/2023	BNUWC01581...	WORKERS COMPEN...
PACIFIC COAST ENTERTAINMENT	7/18/2023 2...	○	7/18/2023 2...	10/1/2022	10/1/2023	CWWCP1000...	WORKERS COMPEN...

1 - 10 of 10

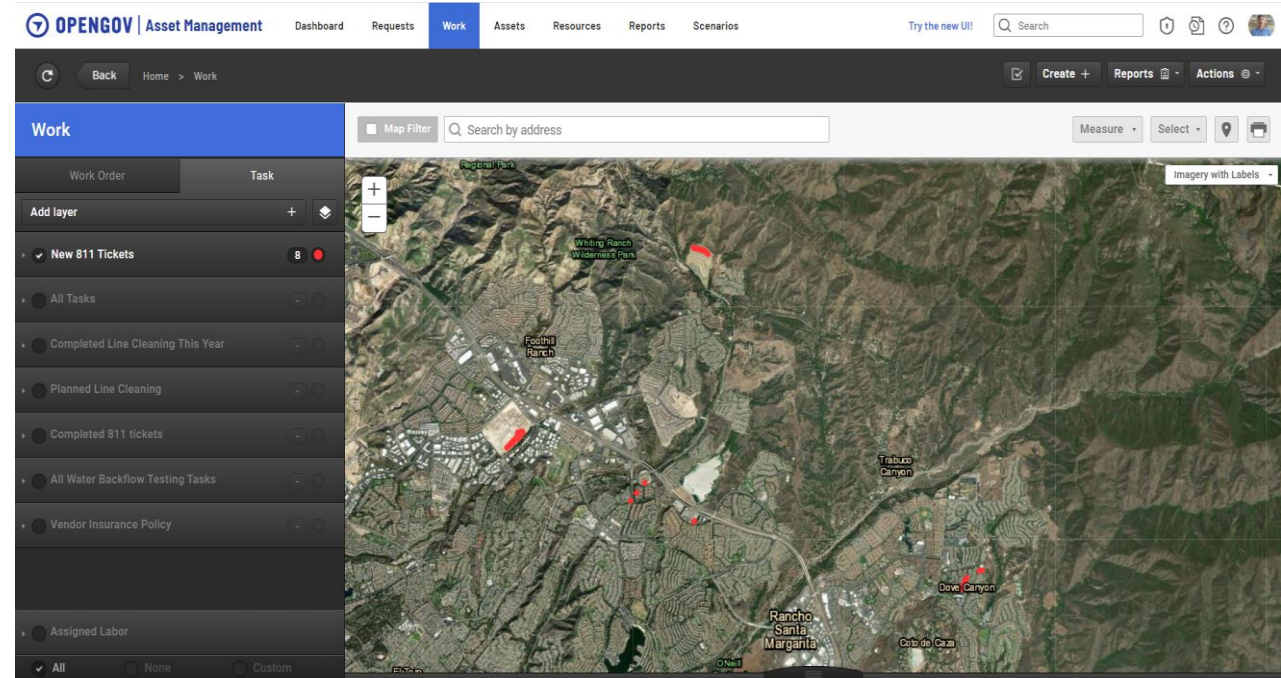
Sewer Lines Cleaned This Year 227,645 ft length (sum)

ID	Material	Actual Stop Date	Last Modified By	Length	Street	Dia...	Last Modified
001852000	PolyVinylChloride		pserpas	176 ft		8"	10/25/2023 7:00:14 AM
001781000	PolyVinylChloride		pserpas	130 ft		8"	10/25/2023 7:00:15 AM
001851000	PolyVinylChloride		pserpas	252 ft		8"	10/25/2023 8:41:29 AM
001680000	PolyVinylChloride		pserpas	242 ft		8"	10/25/2023 8:41:29 AM
001678000	PolyVinylChloride		pserpas	164 ft		8"	10/25/2023 8:41:29 AM
001714000	PolyVinylChloride		pserpas	187 ft		8"	10/25/2023 8:41:29 AM
001843000	PolyVinylChloride		pserpas	201 ft		8"	10/25/2023 8:41:30 AM
001688000	PolyVinylChloride		pserpas	169 ft		8"	10/25/2023 8:41:30 AM
001840000	PolyVinylChloride		pserpas	196 ft		8"	10/25/2023 8:41:30 AM
001679000	PolyVinylChloride		pserpas	389 ft		8"	10/25/2023 8:41:30 AM
001711000	PolyVinylChloride		pserpas	256 ft		8"	10/25/2023 8:41:30 AM
001689000	PolyVinylChloride		pserpas	266 ft		8"	10/25/2023 8:41:30 AM

1 - 12 of 1125



811 Integration DigAlert

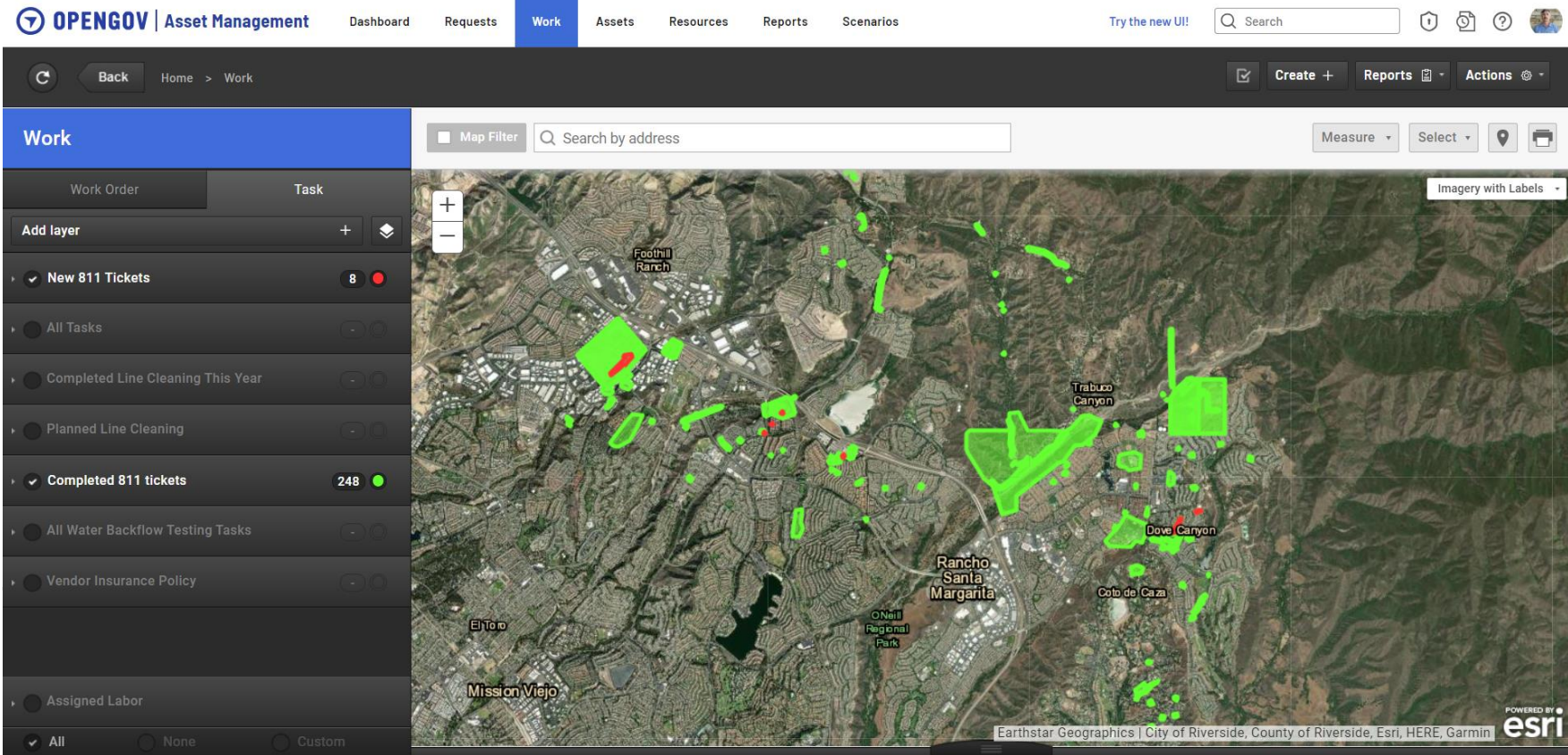


811 Integration - DigAlert

Active layers give operators a quick reference as to new and completed tickets using color coding.

New 811 Tickets

Completed 811 Tickets



Vendor Information

Cartograph Asset Management x +

cgweb05.eamclassic.opengov.com/tcwcda/#FlexUI/ResourcesFilterIndex?defaultTab=cgVendorsClass&bid=0a8932e6-61bf-45a6-b3f7-4a428ca12254&area

OPENGOV | Asset Management Dashboard Requests Work Assets Resources Reports Scenarios Tr

Back Home > Resources

Resources	Vendor Name	Address	City
<input type="checkbox"/>	EVANS HYDRO		
<input type="checkbox"/>	FARINO CONCRETE		
<input type="checkbox"/>	FERGUSON ENTERPRISES		
<input type="checkbox"/>	FERREIRA CONSTRUCTION		
<input type="checkbox"/>	FLEET SERVICE		
<input type="checkbox"/>	FLO-SERVICES		
<input type="checkbox"/>	FORD RSM		
<input type="checkbox"/>	FULL TRAFFIC MAINTENANCE		
<input type="checkbox"/>	GCI CONSTRUCTION		
<input type="checkbox"/>	GMC ELECTRICAL		
<input type="checkbox"/>	GMU GEOTECHNICAL INC.		
<input type="checkbox"/>	GREENSTONE MATERIALS		
<input type="checkbox"/>	Hanson Bridgett LLP		

Selected 0

Vendor: Expired Policy, Active Policy, All Vendors (120)

Including:
 Contact information
 DIR#
 Insurance Policies -
 Certificate of Insurance
 (COI) as shown below.

Client#: 353923 FERRECONST DATE (MM/DD/YYYY) 6/23/2023

ACORD. CERTIFICATE OF LIABILITY INSURANCE

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

INSURER(S) AFFORDING COVERAGE

INSURER	INSURANCE	NAIC #
INSURER a.	Liberty Mutual Fire Insurance Co.	23636
INSURER b.	Endurance American Specialty Ins. Co.	41718
INSURER c.	Westfield Specialty Insurance Company	16992
INSURER d.	Gotham Insurance Company	26569
INSURER e.	Texas Insurance Company	16543

COVERAGES

TYPE OF INSURANCE	ACORD 299	POLICY NUMBER	INSURER	START DATE	EXPIRES	LIMITS
A. COMMERCIAL GENERAL LIABILITY	TB2631510814023	07/01/2023	07/01/2024	EACH OCCURRENCE \$2,000,000		
B. AUTOMOBILE LIABILITY	AS2631510814013	07/01/2023	07/01/2024	COMBINED SINGLE LIMIT \$2,000,000		
C. UNEMPLOYMENT COMPENSATION AND EMPLOYERS LIABILITY	WA263D510814033	07/01/2023	07/01/2024	\$1,000,000		
D. EXCESS LIABILITY	XSL00014GY01	07/01/2023	07/01/2024	\$2M Occ. / \$2M Agg.		
E. EXCESS LIABILITY	EX202300003807	07/01/2023	07/01/2024	\$3M Occ. / \$3M Agg.		
F. EXCESS LIABILITY	TT23E1A0251701	07/01/2023	07/01/2024	\$5M Occ. / \$5M Agg.		


RE: All Operations Trabuco Canyon Water District, its directors, officers, agents and employees are Additional Insured on a primary and non-contributory basis on the above referenced Commercial General Liability Policy if required by written contract. A waiver of subrogation applies as required by written contract and permitted by law.

CERTIFICATE HOLDER: Trabuco Canyon Water District, 32003 Dove Canyon Drive, Trabuco Canyon, CA 92879

CANCELLATION: SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE: W. Michael Tognard

ACORD 99 (2016/03) 1 of 1 © 1988-2016 ACORD CORPORATION, ALL RIGHTS RESERVED. KEW



Fleet Management

Details contain any planned and completed services, VIN#, Purchase cost, images.

OPENGOV | Asset Management Dashboard Requests Work Assets Resources Reports Scenarios Try the new UI! Search

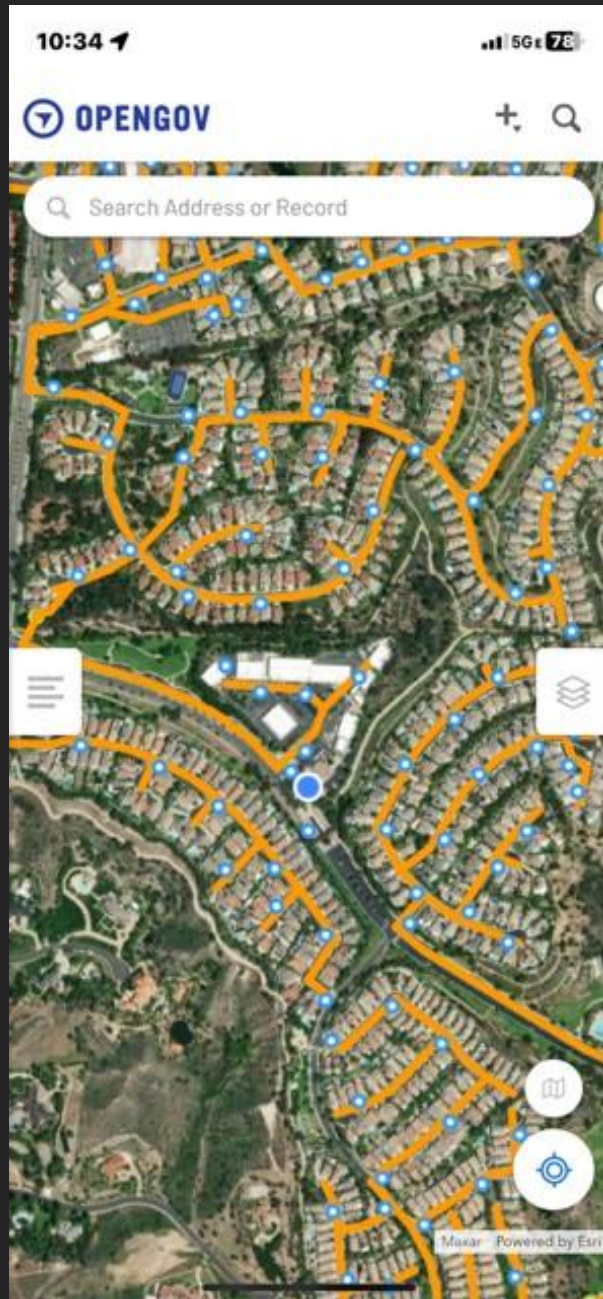
Resources

ID	Year	Manufacturer	Model	Equipment ...	Meter Type	Description	VIN	Purchase ...
<input type="checkbox"/> T-23	2018	Toyota	Tacoma 4X2 Access ...	Miles	Miles	Truck	5TFRX5GN7J...	\$26,950.33
<input type="checkbox"/> T-24	2018	Toyota	Tacoma 4X2 Access ...	Miles	Miles	Truck	5TFRX5GNXJ...	\$26,950.33
<input type="checkbox"/> T-25	2018	Toyota	Tundra 4X2 SR DBL ...	Miles	Miles	Truck	5TFRM5F14J...	\$32,723.50
<input type="checkbox"/> T-26	2022	Ford	F-250 Service Body	Miles	Miles	Truck	1FT7X2BN1N...	\$85,000.00
<input type="checkbox"/> T-27	2021	Ford	F-650 Dump Truck	Miles	Miles	Truck - Dump	1FDNF6DE9M...	\$89,704.83
<input type="checkbox"/> T-28	2020	Toyota	Tacoma 4X4 Access ...	Miles	Miles	Truck	5TFSZ5AN6L...	\$33,097.13
<input type="checkbox"/> T-29	2022	Ford	F-250 Service Body	Miles	Miles	Truck	1FT7X2BN3N...	\$85,000.00
<input type="checkbox"/> T-30	2022	Ford	F-250 Service Body	Miles	Miles	Truck	1FT7X2BN7N...	\$85,000.00
<input type="checkbox"/> T-34	2020	FreightLiner	Vactor 2100i	Miles	Miles	Truck - Vactor	1VHG3DV8LH...	\$510,703.75
<input type="checkbox"/> TR-BOAT-01	1981	Whaler	BOAT	Hours	Hours	Boat	2511M81B	\$3,500.00
<input type="checkbox"/> TR-CP-1	2019	Sullair	AIR COMP	Hours	Hours	Compressor	9250013	\$26,797.74
<input type="checkbox"/> TR-CP-2	2019	Sullair	AIR COMP	Hours	Hours	Compressor	9230002	\$26,797.74
<input type="checkbox"/> TR-DT-01	2019	PJ Trailer	HYDRAULIC DUMP	Hours	Hours	Hydraulic Dump Trailer	1330360	\$9,170.71
<input type="checkbox"/> TR-FT-01	2014	Superior	FUEL TRAILER	Hours	Hours	Fuel Trailer	228374	\$10,694.26

Selected 0

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Mobile Version

Basic Functions

No Admin functionality or dashboard. Full access to all layers.

Compact View

Limited view and access.

Tasks

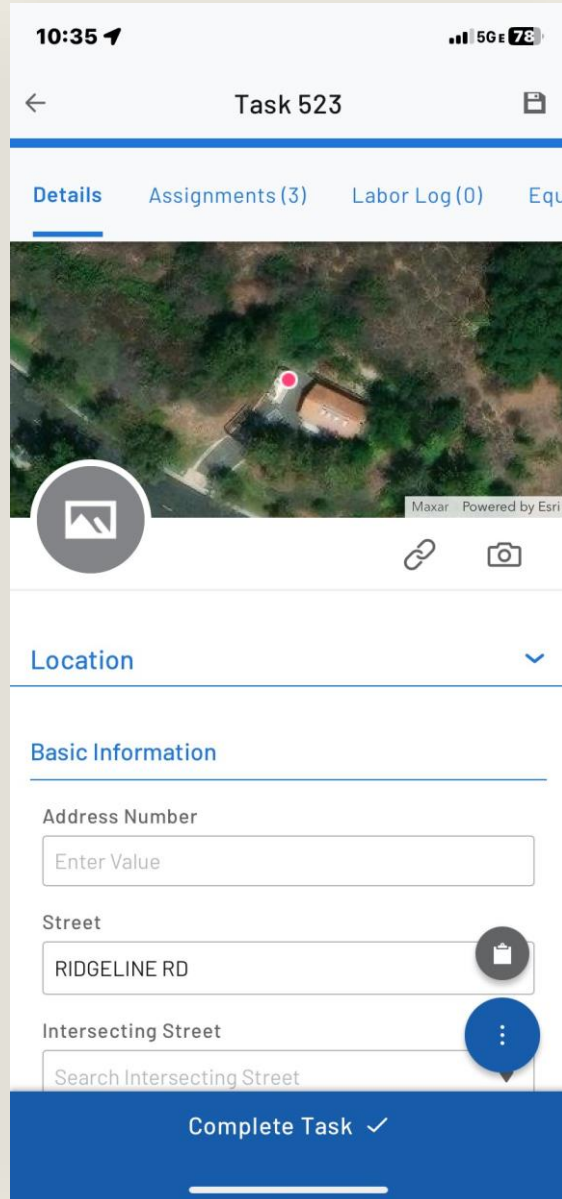
Ability to view and complete tasks.

Resources

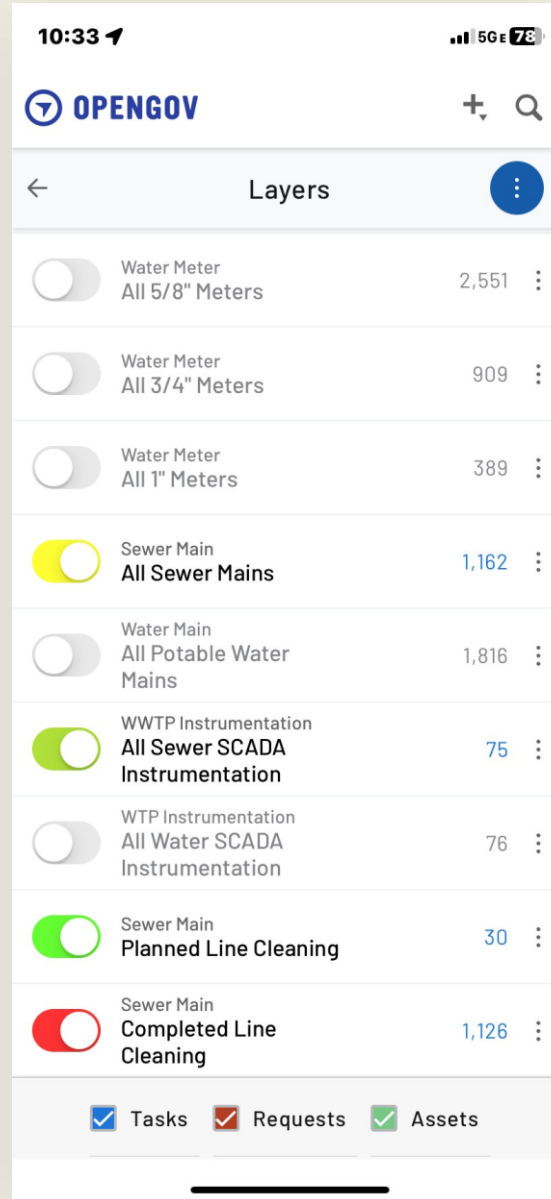
Ability to access all resources.



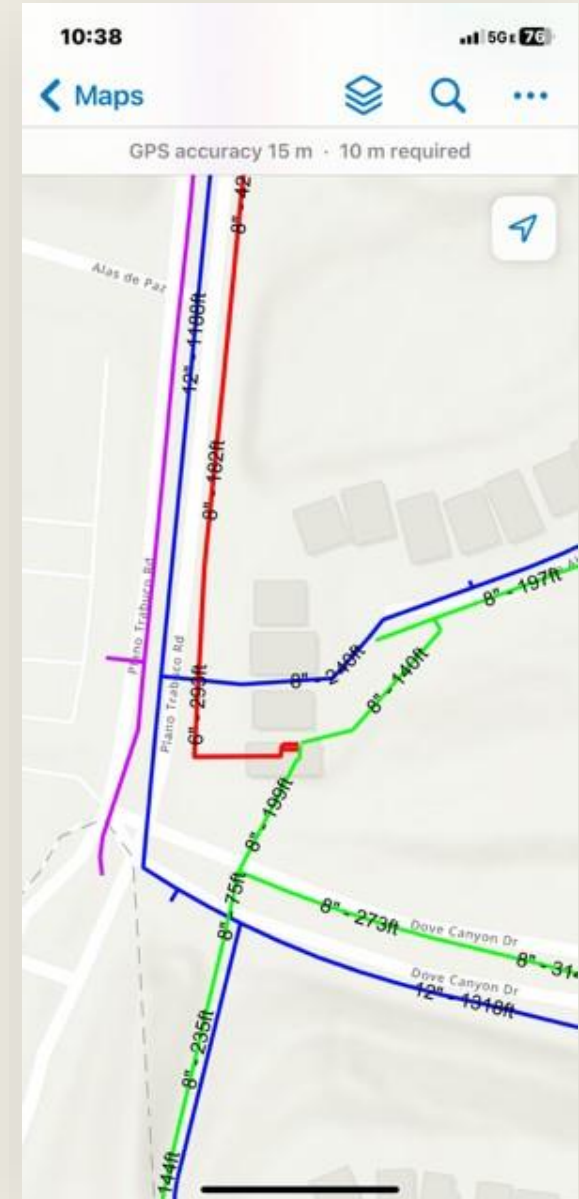
Tasks



Layers



Maps



BASIC REPORTING FEATURES

This view allows staff to access basic information about a task, including:

- Asset Name
- Task Status
- Assignment Period (Start/End Dates)
- Associated Costs
- Assigned Staff

Task ID	Activity	Asset
1210	Clean	Sewer Main 001929000

Basic Information		Costs	
Status	Completed	Labor	\$9.79
Priority	None	Equipment	\$3.20
Start Date	12/6/2023	Material	\$0.00
Stop Date	12/6/2023	Other	\$0.00
		<hr/>	
		Total	\$12.99

Assignments	
ID	Full Name
100337	Oscar Ulloa
100341	Blake Smith
100352	Robert Bargeron
100383	Garrett Rias
Total Assignments	4

Task ID	Activity	Asset	Department	Actual Start Date	Actual Stop Date	Labor Costs	Equipment Cost	Material Cost	Other Cost	Total Cost
A23321045 1-00A-TCW 01-2023	Utility Locates	Non-Asset	811	11/27/2023	11/27/2023	\$6.12	\$0.00	\$0.00	\$0.00	\$6.12
9525	Replace	Water Meter 511077	Water Operations	11/27/2023	11/27/2023	\$68.54	\$0.00	\$0.00	\$0.00	\$68.54
9523	Replace	Water Meter 3056	Water Operations	11/27/2023	11/27/2023	\$22.84	\$0.00	\$0.00	\$0.00	\$22.84
9524	Replace	Water Meter 511075	Water Operations	11/27/2023	11/27/2023	\$22.84	\$0.00	\$0.00	\$0.00	\$22.84
9456	Verify Insurance Policy on Vendor	Non-Asset		11/27/2023	11/27/2023	\$14.94	\$0.00	\$0.00	\$0.00	\$14.94
A23319066 3-00A-TCW 01-2023	Utility Locates	Non-Asset	811	11/27/2023	11/27/2023	\$6.12	\$0.00	\$0.00	\$0.00	\$6.12
B23146000 3-07B-TCW 01-2023	Utility Locates	Non-Asset	811	11/27/2023	11/27/2023	\$7.44	\$0.00	\$0.00	\$0.00	\$7.44

ADVANCED REPORTING FEATURES

This view allows staff to access a more detailed review of multiple assets and the related task history and costs.



BRIEF SYSTEM DEMONSTRATION



QUESTIONS?



Dove Center Fire Service Upgrade

Trabuco Canyon Water District
February 7th, 2024 E&O Committee



Fire Service – DCDA (By Developer)

Before



After



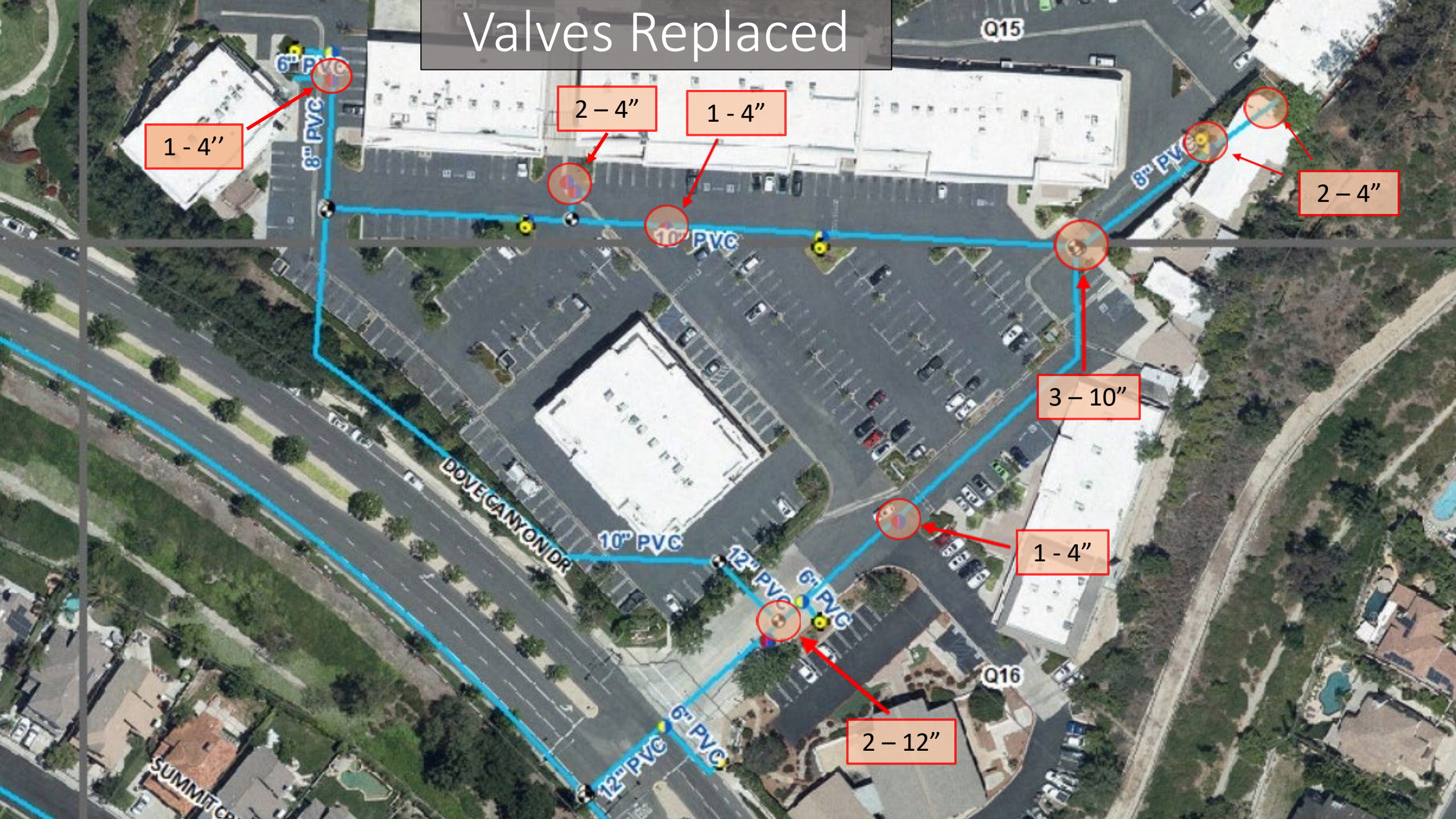
Detector Check Valve Removed



Montessori



Valves Replaced

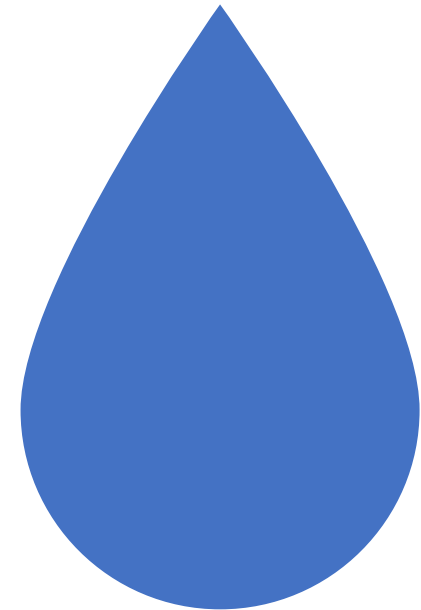


Butterfly Valves



Trabuco
Canyon Water
District

- Replaced 12 Valves
- \$ 107,545.85



**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

OPERATIONAL MATTERS

ITEM 6: WATER SYSTEM UPDATES

The following is a brief report of the water system through **December 2023**.

Projects and Repairs

Water Operations staff performed and/or completed the following tasks and projects:

1. Exercised 82 water valves in the Dove Canyon community.
2. Replaced one fire hydrant in the Robinson Ranch community and one fire hydrant in the Dove Canyon community.
3. Worked with TESCO Controls at the Dimension Water Treatment Plant (DWTP) and district pump station.
4. Continued to perform system/facility operational tests and troubleshoot problems at the Saddle Crest reservoir and pump station facilities.

Monthly Water System Operations Summary

The Monthly Water System Operations Summary is attached for the Committee's review. Any anomalies will be presented at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

1. Monthly Water System Operations Summary

CONTACTS (staff responsible): PEREA/KESSLER

TRABUCO CANYON WATER DISTRICT
MONTHLY WATER SYSTEM OPERATIONS SUMMARY - 2023

SYSTEM PRODUCTION/SUPPLIES	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	TOTAL
Number of Days	31	28	31	30	31	30	31	31	30	31	30	31	365
Dimension WTP	8%	17%	25%	33%	42%	50%	58%	67%	75%	83%	92%	100%	
SAC Pipeline Meter	91.2	109.2	15.0	25.3	41.2	2.5	0.0	93.3	71.4	85.0	79.2		613.3
Backwash, AF	2.7	3.5	0.8	1.1	1.9	0.6	0.0	3.5	1.5	2.7	1.4	0.0	19.6
Flushwater, AF	4.2	3.7	0.6	1.8	2.9	0.6	0.0	6.0	2.5	4.3	2.8	0.0	29.3
DWTP Effluent (1)	92.2	111.3	10.2	27.1	39.7	2.6	0.0	99.2	66.9	93.3	74.0	0.0	616.5
Groundwater, AF													
Trabuco Creek GWTF	0.0	0.0	17.9	103.1	100.2	105.7	112.3	91.9	0.0	0.0	0.0	0.0	531.1
U.S. Well AF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Groundwater (2)	0.0	0.0	17.9	103.1	100.2	105.7	112.3	91.9	0.0	0.0	0.0	0.0	531.1
Water Purchases, AF													
SMWD Treated Interconnection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
IRWD Treated Interconnections	0.0	0.0	58.0	0.0	9.3	41.2	106.2	0.0	127.9	80.7	84.5	126.2	634.0
IRWD Irvine Lake	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Purchases (3)	0.0	0.0	58.0	0.0	9.3	41.2	106.2	0.0	127.9	80.7	84.5	126.2	634.0
Total Supply													
Total Supply AF (1,2,3)	92.2	111.3	86.1	130.2	149.2	149.5	218.5	191.1	194.8	174.0	158.5	126.2	1,781.6
% Year - Peak Prod. - 2,449 AF (2018)	4%	8%	12%	17%	23%	29%	38%	46%	54%	61%	68%	73%	73%
AF/Day	3.0	4.0	2.8	4.3	4.8	5.0	7.0	6.1	6.5	5.6	5.3	4.1	4.4
CFS/Day, Avg.	1.5	2.0	1.4	2.2	2.4	2.5	3.5	3.0	3.2	2.8	2.6	2.0	2.2
Reservoir Storage													
Monthly Average, MG	9.1	9.1	9.0	8.8	8.8	9.0	8.7	8.8	9.0	8.8	9.0	9.1	8.9
Monthly Average, AF	27.9	27.9	27.6	27.0	27.0	27.6	27.0	27.0	27.0	27.0	27.0	27.9	27.4
Days of Storage	4.0	4.0	4.0	3.0	3.0	4.0	3.0	3.0	4.0	3.0	4.0	4.0	3.6
SYSTEM DEMANDS													
District Operations, AF (1)													
Dimension WTP	0.18	0.13	0.03	0.04	0.07	0.01	0.00	0.11	0.12	0.62	0.05	0.00	1.36
Robinson Ranch WWTP	0.001	0.001	0.007	0.004	0.004	0.005	0.004	0.001	0.003	0.004	0.003	0.005	0.04
Supplemental Domestic to RW Res.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Subtotal	0.181	0.131	0.037	0.044	0.074	0.015	0.004	0.111	0.123	0.624	0.06	0.005	1.41
System Losses, AF (2)													
Flushing	0.98	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	3.0	3.1	10.74
Sewer Cleaning	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.24
Line Breaks	0.46	0.00	0.15	0.00	0.05	0.00	0.01	0.30	2.00	0.3	0.0	0.0	3.27
Subtotal	1.46	0.68	0.17	0.02	0.07	0.02	0.03	0.32	2.02	3.32	3.02	3.12	14.25
Zone Demands, AF (3)													
Topanga Canyon	0.4	0.4	1.0	2.1	2.0	1.8	3.0	3.0	2.3	3.0	Inop.	Inop.	18.90
Falcon Estates	0.04	0.1	0.1	0.3	0.5	0.3	0.9	0.8	0.8	0.8	0.6	0.5	5.66
Rose PRV/The Oaks	0.6	1.7	1.9	1.9	1.5	1.8	2.2	2.0	2.3	2.3	2.2	1.7	22.07
Canyon Creek	0.1	0.2	0.1	0.3	0.3	0.4	0.4	0.3	0.1	0.3	0.2	0.3	3.16
Rose Pump Station	0.0	0.1	0.4	0.5	0.6	0.6	0.3	0.5	0.4	0.5	1.2	0.4	5.49
Robinson Ranch	19.6	26.1	18.1	35.3	36.8	35.6	63.2	59.4	56.3	44.6	37.2	28.9	461.09
Dove Canyon	38.8	43.9	39.2	54.8	63.5	65.6	80.5	73.4	65.8	20.6	64.6	56.6	667.21
Subtotal	59.5	72.2	60.8	95.1	105.2	106.1	150.5	139.4	128.1	122.0	106.0	88.4	1,233.26
Total System Demand (1,2,3)	61.2	73.0	61.0	95.2	105.3	106.1	150.5	139.8	130.2	125.9	109.1	91.5	1,248.91

TRABUCO CANYON WATER DISTRICT
MONTHLY WATER SYSTEM OPERATIONS SUMMARY - 2023

System Demands**													
AF/Day	3.0	4.0	2.8	4.3	4.4	5.0	7.0	6.1	6.5	5.6	5.3	4.1	4.3
Daily Average, CFS	1.5	2.0	1.4	2.2	2.2	2.5	3.4	3.0	3.2	2.8	2.6	2.0	2.2
Other Water Deliveries/Purchases													
Ridgeline (DWTP Delivery)	85.2	103.0	8.9	24.9	35.5	2.0	0.0	90.4	61.8	85.6	68.7		259.5
El Toro (Interconnection Purchase)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Baker WTP (CSC Delivery)	115.0	108.0	55.2	55.2	81.7	72.2	79.8	103.8	103.8	83.1	101.0	89.1	567.1
Portola Hills (Wholesale Purchase)	8.0	8.4	6.9	7.7	9.0	11.0	12.3	14.3	14.0	10.2	10.6	8.5	63.3
Skyridge (Wholesale Purchase)	1.5	1.5	1.6	1.9	1.7	2.0	2.2	2.5	2.5	2.0	2.0	1.7	12.5
* Usage estimated			** Excludes Operational use, losses, and supplement to Recycled Water Reservoir (RW)										

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

OPERATIONAL MATTERS

ITEM 7: WASTEWATER SYSTEM UPDATES

The following is a brief report of the wastewater system through **January 2024**.

Projects and Repairs

Wastewater Operations staff performed and/or completed the following tasks and projects:

1. Testing of Heritage Lift Station pump logic after electrical repairs to generator and ATS
2. Installed E. SBR mixer
3. Replaced 6-inch valve at Dove Recycle (NDW) Pump Station
4. Assisted Tesco in the testing of Shadow Rock Dry Season Recovery Station
5. Replaced a 6-inch flow meter for the intertie to SMWD at Portola Basin

Sewer System Management Plan (SSMP) Report

The purpose of the program is to communicate on a regular basis with the public on the development, implementation, and performance of TCWD's SSMP. Status updates on the work and type of work performed on the sewer system will be provided, including sewer line and manhole cleaning, system repairs, lift station cleaning, and updates from satellite facilities:

Sewer System Management Plan (SSMP) Monthly Update	
Total Sewer Line, Feet*	212,045
Total Sewer Line Cleaned (Ft) – Month	10,400
Total Sewer Line Cleaned (Ft) – Cleaning Cycle	10,400
Cleaning Cycle Period (Mos.) [Start date: 1/1/24]	1
Total Sewer Line Cleaned, %	5%
The Oaks at Trabuco – Pumping Frequency for the Month	14
O'Neill Park Sewer System Status	Ok
O'Neill Park Sewer System Repairs	None
SSMP Quarterly Report – <i>Next Quarterly Report</i>	1Q 2024
SSMP Program Audit – <i>Next Audit Report**</i>	February 2025

**This amount includes the OC Parks-owned O'Neill Park sewer system the District is contracted to clean.*

***Periodic internal audits shall be conducted, at a minimum every two years, with reports kept on file. The audit shall focus on evaluating the effectiveness of the SSMP and TCWD's compliance with the mandatory elements of TCWD's SSMP:*

Monthly Recycled Water System Operations Summary

The Monthly Recycled Water System Operations Summary is attached for the Committee's review. Any anomalies will be presented at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

1. Monthly Recycled Water System Operations Summary
2. SSMP Quarterly Report – 4th Quarter

CONTACTS (staff responsible): PEREA/ULLOA

TRABUCO CANYON WATER DISTRICT | NON-DOMESTIC WATER SYSTEM SUMMARY - 2023

RECYCLED WATER SUPPLY															
	MAX	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
WWTP Reclaimed Water Production, AF	78.3	58.6	37.8	34.6	29.2	38.2	27.1	40.9	43.2	38.2	40.3	34.5	36.6	459.1	529.1
Reclaimed Reservoir Level, FT	1274.5	1,273.0	1,274.0	1,272.5	1,272.2	1,272.0	1,270.0	1,259.0	1,262.2	1,258.5	1,252.2	1,260.0	1,270.5	-	-
Reclaimed Reservoir Free Board, FT	25.5	1.5	0.5	2.0	2.3	2.5	4.5	15.5	12.3	16.0	22.3	14.5	4.0	-	-
Reclaimed Reservoir Storage, AF	145.5	135.7	139.3	132.1	130.0	128.6	118.8	67.0	78.6	64.3	41.6	69.6	122.8	-	-
Supplemental Domestic Water Added, AF	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.5

RECYCLED WATER SYSTEM DEMAND															
NON DOMESTIC WATER USER	ALLOC. AF	8% JAN	17% FEB	25% MAR	33% APR	42% MAY	50% JUN	58% JUL	67% AUG	75% SEP	83% OCT	92% NOV	100% DEC	TOTAL	ALLOC. %
Dahlia Court	8.2	0.07	0.1	0.0	0.3	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.1	2.52	30.6%
Dove Canyon Golf Course	106.7	0.29	5.9	0.2	17.4	15.0	26.4	51.2	41.2	23.6	24.8	20.6	8.5	235.13	220.4%
Dove Canyon Master Association	279.3	0.28	1.1	0.1	7.6	16.6	13.1	26.3	21.1	18.3	14.7	17.2	6.5	142.93	51.2%
Robinson Ranch	80.2	0.25	1.4	0.3	0.8	1.4	2.9	4.0	3.3	3.4	4.1	1.9	0.2	23.88	29.8%
Trabuco Highlands	159.7	2.25	5.9	0.1	6.5	8.5	5.3	11.4	6.2	5.8	5.0	3.5	1.1	61.40	38.5%
City of RSM	0.1	0.00	0.03	0.00	0.04	0.05	0.05	0.03	0.01	0.00	0.01	0.02	0.03	0.27	206.9%
Construction Water	N/A	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	N/A
Sakaida Nursery	1.1	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.0%
SMWD	N/A	41.74	40.6	7.7	0.0	2.3	4.1	5.3	6.2	45.5	17.9	0.0	0.0	171.47	N/A
TY Nursery	17.9	0.00	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	5.9	0.0	19.22	107.4%
TOTAL, AF	653.2	44.9	55.1	8.4	32.7	44.1	52.0	98.5	78.2	96.9	80.1	49.5	16.4	656.81	100.6%
PERCENTAGE OF NDW ALLOCATION/YEAR		6.9%	15.3%	16.6%	21.6%	28.3%	36.3%	51.4%	63.4%	78.2%	90.5%	98.0%	100.6%		
TOTAL ANNUAL AVG. NDW AVAILABLE**	774.36														

URBAN RUNOFF CAPTURE AND REUSE															
DISTRICT FACILITY		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
Shadow Rock Detention Basin Production		0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.01	0.01	0.0	0.28	14.2
Dove Tick Creek Production*	<i>Dry Season</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	8.8	5.5	6.0	6.9	34.9	58.8
	TCWD Portion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.4	2.7	6.0	6.9	23.9	-
	SMWD Portion	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	4.4	2.7	0.0	0.0	11.0	-
Dove Lake Water Pumped		0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.7	18.2	9.4	41.2	42.8	159.4	185.8
Dove Lake Free Board, Ft		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	2.9	3.2	-	-
Dove Lake Storage, AF		331.0	331.0	331.0	331.0	331.0	331.0	331.0	331.0	328.3	328.3	312.0	305.0	-	-
Total Rainfall, In.		8.1	2.1	10.3	0.0	1.1	0.0	0.0	3.0	0.3	0.1	0.0	1.5	26.4	14.7

* SMWD share of Dove/Tick Pump Station Dry Season Water is 50% of production.

** Based on 5-Year Average Reclaimed Water Reservoir Base Supply & Recycled Water Production

TRABUCO CANYON WATER DISTRICT
Sewer System Management Plan (SSMP) Quarterly Report

Report Date: February 1, 2024
Report Period: Fourth Quarter 2023 - December 2023
Prepared By: Oscar Ulloa, Wastewater Operations Superintendent

District Sub-Section	Santiago/Portola Hills			Dove Canyon			Rancho Cielo/Walden			Robinson Ranch/Trabuco Highlands		
	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed
Sewer Line Cleaned, Feet	44,625	44,625	100%	64,135	64,135	100%	29,865	29,865	100%	59,170	59,170	100%
Manholes, Inspected/Cleaned	205	205	100%	212	212	100%	124	124	100%	236	236	100%
Manholes Needing Repair	0	0	0%	0	0	0%	0	0	0%	0	0	0%
Wet Wells, Inspected/Cleaned	2	2	100%	3	3	100%	1	1	100%	2	2	100%
Lift Stations, Inspected/Maintained	2	2	100%	3	3	100%	1	1	100%	2	2	100%
Grease Interceptors Inspected	2	2	100%	2	2	100%	10	10	100%	n/a	n/a	n/a

Note: All Sewage Lift stations are inspected 3-4 times a week

Contract Services	O'Neill Park/OCFA			The Oak's		
	Total Amount	Amount Completed	% Completed	Total Amount	Amount Completed	% Completed
Sewer Line Cleaned, Feet	12,700	12,700	100%	1,550	0	0%
Manholes, Inspected/Cleaned	95	95	100%	5	5	100%
Manholes Needing Repair	0	0	0%	0	0	100%
Wet Wells, Inspected/Cleaned	1	1	100%	2	2	100%
Lift Stations, Inspected/Maintained	1	1	100%	1	1	100%
Grease Interceptors Inspected	0	0	0%	0	0	100%

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

OPERATIONAL MATTERS

ITEM 8: MAINTENANCE DEPARTMENT UPDATES

The following is a brief report of work completed by Maintenance staff through **December 2023**

Projects and Repairs

Maintenance staff performed and/or completed the following tasks and projects:

Water Operations

1. Assisted in a job walk with Water Operations and David Rodriguez with Flo-Services for the backwash wet well sump pump at the Dimension Water Treatment Plant (DWTP).
2. Worked with a locksmith vendor to re-key the Saddle Crest Booster Pump Station with a sub-key for vendors and developer representatives to access the facility.
3. Performed inspection on El Toro Field Office/Booster Pump Station electric motor.
4. Attended Tekdrauliks/Goulds Pump training class in Irvine.

Wastewater Operations

1. Assisted P2S Consultants with the ARC Flash inspection at 27 sites.

District Fleet Upgrades & Other Projects

1. Attended the Water Emergency Response Organization of Orange County (WEROC) Quarterly Meeting.
2. Performed semi-annual vehicle inspections and oil changes on HD electrical motors.
3. Performed service on vehicle no. 7, including oil change, tires, tire sensor replacement, and wiper arm recall.
4. Rebuilt the CAT Backhoe hydraulic rams.

RECOMMENDED ACTION:

Committee to receive system status updates. No action required.

EXHIBITS

None

CONTACTS (staff responsible): PEREA/STROUD

**TRABUCO CANYON WATER DISTRICT
ENGINEERING/OPERATIONAL COMMITTEE MEETING | FEBRUARY 7, 2024**

REGULATORY AND OTHER MATTERS

ITEM 9: OTHER MATTERS/REPORTS

Other Matters/Reports from the General Manager and/or District staff may be provided at the time of the Engineering/Operational Committee Meeting.

RECOMMENDED ACTION:

Hear Other Matters/Reports that may have arisen after the posting of the agenda.

EXHIBITS

None

CONTACTS (staff responsible): PALUDI/PEREA