



**ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA  
TRABUCO CANYON WATER DISTRICT  
ADMINISTRATION FACILITY  
32003 DOVE CANYON DRIVE, TRABUCO CANYON, CA  
MARCH 6, 2024 AT 7:00 AM**

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**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

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**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](http://www.tcwd.ca.gov). You may submit public comments by email to the Committee at [mperea@tcwd.ca.gov](mailto: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](mailto: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](mailto: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**

TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | MARCH 6, 2024

**ENGINEERING MATTERS**

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**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. February 7, 2024 Committee Meeting

**ITEM 2: RESOLUTION AUTHORIZING SUBMITTAL OF AN APPLICATION TO USBR'S WATERSMART PLANNING AND PROJECT DESIGN GRANT PROGRAM FOR THE HARRIS GRADE STORAGE**

**RECOMMENDED ACTION:**

*Recommend the Board of Directors adopt Resolution 2024-1327 Authorizing the Submittal of an Application for the USBR WaterSMART Planning and Design Grant Program (Action Calendar).*

**ITEM 3: ROBINSON RANCH WASTERWATER TREATMENT PLANT BLOWER MODIFICATIONS PROJECT**

**RECOMMENDED ACTION:**

*Committee to receive system status updates. No action required.*

**ITEM 4: LIVE OAK PIPELINE UPGRADE – RFP ISSUED**

**RECOMMENDED ACTION:**

*Committee to receive system status updates. No action required.*

**ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES**

1. Other Projects

**RECOMMENDED ACTION:**

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

**OPERATIONAL MATTERS**

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**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.*



**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING AGENDA | MARCH 6, 2024**

**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**

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**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](http://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](http://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](http://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 | MARCH 6, 2024**

**ADMINISTRATIVE MATTERS**

**ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP**

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**RECOMMENDED ACTION:**

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

- 1. February 7, 2024 Committee Meeting*

**CONTACTS (staff responsible): PALUDI/PEREA**



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

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### **DIRECTORS PRESENT**

Mike Safranski, Committee Chair  
Stephen Dopudja, Committee Member

### **STAFF PRESENT**

Fernando Paludi, General Manager  
Michael Perea, District Secretary  
Lorrie Lausten, District Engineer  
Gary Kessler, Water Superintendent  
Oscar Ulloa, Wastewater Superintendent  
Jason Stroud, Maintenance Superintendent  
Phil Serpas, CMMS/SCADA Administrator  
Roseann Lejsek, Administrative Assistant  
Sam Lee, Engineering Intern

### **PUBLIC PRESENT**

None

### **CALL MEETING TO ORDER**

Director Safranski called the February 7, 2024 Engineering/Operational Committee Meeting to order at 7:00 a.m.

### **VISITOR PARTICIPATION**

No comments were received.

### **ORAL COMMUNICATION**

No comments were received.

### **COMMITTEE MEMBER COMMENTS**

None

### **REPORT FROM THE GENERAL MANAGER**

Mr. Paludi reported that the District had three committee meetings scheduled for the following day.

### **ITEM 1: ENGINEERING/OPERATIONAL COMMITTEE MEETING RECAP**

Mr. Paludi presented the Engineering/Operational Committee Meeting Recap(s) for Committee review in accordance with the agenda. Discussion occurred concerning the context of certain comments captured in the recap from the January 3<sup>rd</sup> meeting. Director Safranski provided additional context to his comments related to the strategy of shifting approved capital funds from a canceled or modified project to fund the proposed communications improvements at the Robinson Ranch Wastewater Treatment Plant (WWTP). Mr. Paludi commented that staff intends to capture the spirit of comments made at the public meetings and will clarify comments prior to publication, if necessary.

**MOTION:** Approve the Engineering/Operational Committee Meeting Recap(s) and recommended that the Board receive and file the same (Consent Calendar) – Director Dopudja

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

**SECOND:** Director Safranski  
**AYES:** Directors Dopudja & Safranski  
**NOES:** None  
**ABSTAIN:** None  
**MOTION PASSED/FAILED:** Passed 2 – 0

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

Ms. Lausten presented this matter for Committee consideration and review, and she provided a brief overview of the project. Ms. Lausten reported that the District has received four proposals after publicly bidding the project, and she presented a proposal evaluation which compared the costs of each proposer. Ms. Lausten recommended awarding the project to MCM Consulting and requested that the Committee recommend the Board of Directors ratify a professional services agreement.

**MOTION:** 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 (Action Calendar) – Director Dopudja  
**SECOND:** Director Safranski  
**AYES:** Directors Dopudja & Safranski  
**NOES:** None  
**ABSTAIN:** None  
**MOTION PASSED/FAILED:** Passed 2 – 0

**ITEM 3: ROBINSON RANCH WASTEWATER TREATMENT PLANT COMMUNICATION SYSTEM UPGRADE**

Mr. Paludi presented this matter for Committee consideration and review. Ms. Lausten provided an overview of the project, and she presented a quote from Beavens Systems Incorporated in the amount of \$277,259.35. Ms. Lausten reported that this project was originally scoped as primarily a fiber-optic conduit installation and budgeted in the CIP for \$130,000. However, during the project development process the scope was necessarily expanded to include the replacement of certain obsolete in-plant SCADA equipment, and the overall project cost estimate was increased to \$300,000. Ms. Lausten stated that other CIP projects will be deferred to stay within the current CIP budget. Mr. Ulloa provided information on the challenges of the current communication system at the RRWWTP. Discussion occurred concerning the relation of this project to the ongoing SCADA Improvement Project under the TESCO contract; Mr. Perea explained that this project is separate from the TESCO SCADA project as the RRWWTP operates independently from District SCADA system and this is primarily onsite communications improvements. Director Dopudja expressed his concern with shifting capital funds from other projects to cover this specific project, but he commented that this project is critical and supported staff recommendation.

**MOTION:** 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. (Action Calendar) – Director Dopudja  
**SECOND:** Director Safranski  
**AYES:** Directors Dopudja & Safranski  
**NOES:** None  
**ABSTAIN:** None  
**MOTION PASSED/FAILED:** Passed 2 – 0

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

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

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Mr. Paludi presented this matter for Committee consideration and review. Mr. Perea provided background of the project and presented the Committee with an exhibit of the proposed project site and provided the terms of the proposed agreement between the District and the County of Orange. Mr. Perea noted that he would like to thank general legal counsel for their assistance in coordinating with the County on this project, and he recommended forwarding this matter to the Board for their consideration.

**MOTION:** 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) – Director Dopudja

**SECOND:** Director Safranski

**AYES:** Directors Dopudja & Safranski

**NOES:** None

**ABSTAIN:** None

**MOTION PASSED/FAILED:** Passed 2 – 0

**ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES**

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**1. Staff presentation on Cartegraph**

Mr. Serpas delivered a PowerPoint presentation and a real-time demonstration of Cartegraph, the District's Computerized Maintenance and Management System (CMMS), to the Committee. Discussion occurred concerning the benefits of the system's ability to track asset performance, operational practices such as sewer cleaning and fire hydrant flushing, and budget planning. Mr. Serpas highlighted the secondary benefits of the system by tracking vendor compliance with insurance and Department of Industrial Relations requirements. The Committee commended staff on implementing the CMMS system.

**2. Staff presentation on WWTP SBR Improvements**

Mr. Ulloa delivered a PowerPoint presentation to the Committee concerning aeration system improvements completed by staff in addition to their regular duties. Mr. Ulloa highlighted the anticipated energy savings due to the system improvements and the cost savings by completing the work in-house. The Committee commended staff on their hard work and planning efforts to improve the treatment operations with the system improvements. Director Dopudja emphasized the cost savings benefit to the District of Operations staff performing the work without the use of outside contractors.

**3. Staff Presentation on Dove Center Fire Service Upgrades**

Ms. Lausten delivered a PowerPoint presentation to the Committee on the onsite improvements to the Dove Center which included the installation of backflow prevention devices and fire system valves. Ms. Lausten reported that the District owns and operates the plaza distribution system.

**4. Saddle Crest Development Update**

Mr. Paludi reported that the District is working with general legal counsel on a proposed settlement. Mr. Paludi added that the District will be meeting with the developer over the next few weeks to continue discussions.

**ITEM 6: WATER SYSTEM UPDATES**

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

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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.

Mr. Kessler presented the Water System Summary for Committee review, and he reported that the recent rain events have resulted in a significant increase in well volume.

**MOTION:** None – Informational item only.

**ITEM 7: WASTEWATER SYSTEM UPDATES**

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

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

Mr. Ulloa presented the Recycled Water System Summary for Committee review, and he reported that Dove Lake was full due to the recent rain events. Mr. Perea reported that staff has received correspondence from the DCMA Infrastructure Committee with concerns related to certain sewer manhole lids that will require inspection and possible replacement, if necessary.

**MOTION:** None – Informational item only.

**ITEM 8: MAINTENANCE DEPARTMENT UPDATES**

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Mr. Stroud 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. 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.

**TRABUCO CANYON WATER DISTRICT  
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**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 arm.

**MOTION:** None – Informational item only.

**ITEM 9: OTHER MATTERS/REPORTS**

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Mr. Paludi introduced Mr. Sam Lee, Engineering Intern, to the Committee.

**MOTION:** None

**ADJOURNMENT**

Director Safranski adjourned the February 7, 2024 Engineering/Operational Committee Meeting at 8:28 a.m.

DRAFT

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | MARCH 6, 2024**

**ENGINEERING MATTERS**

**ITEM 2: RESOLUTION AUTHORIZING SUBMITTAL OF AN APPLICATION TO USBR’S WATERSMART PLANNING AND PROJECT DESIGN GRANT PROGRAM FOR THE HARRIS GRADE STORAGE**

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With the assistance of Soto Resources, Trabuco Canyon Water District staff regularly evaluates available external funding opportunities against the District’s planned capital project needs. Currently, the United States Bureau of Reclamation’s (USBR) “WaterSMART Planning and Design Grant Program for Fiscal Year 2024” presents an opportunity for the District to apply for the design of new domestic water storage at the District’s existing Harris Grade reservoir site. This potential future project is identified in the District’s current 5-year Capital Improvement Program.

The Planning and Design Grant Program is a new grant category for USBR; historically, USBR has only offered grant funds for project construction. This presents an opportunity for TCWD, if awarded planning and design funds, to better position itself for construction funds at a future date. USBR may award up to 50% of the total allowable project costs for the planning and design phase of this project, estimated to be \$740,000.

USBR requires the District to support the submission of the grant application through the adoption of a resolution by the Board of Directors. The draft Resolution is included as Exhibit 1.

**FUNDING SOURCE:**

General Fund

**FISCAL IMPACT**

The District’s professional services agreement with Soto Resources for all grant applications is \$31,050. If awarded, the subject grant application alone could offset District capital expenditures by up to \$370,000.

**ENVIRONMENTAL COMPLIANCE:**

Not applicable

**RECOMMENDED ACTION:**

*Recommend the Board of Directors adopt Resolution 2024-1327 Authorizing the Submittal of an Application for the USBR WaterSMART Planning and Design Grant Program (Action Calendar).*

**EXHIBIT(S):**

1. Draft Resolution 2024-1327

**CONTACTS (staff responsible): PALUDI/LAUSTEN**

**TRABUCO CANYON WATER DISTRICT**

**RESOLUTION NO. 2024-1327**

**RESOLUTION OF THE BOARD OF DIRECTORS OF THE  
TRABUCO CANYON WATER DISTRICT AUTHORIZING  
THE SUBMITTAL OF AN APPLICATION FOR THE  
WATERSMART PLANNING AND PROJECT DESIGN  
GRANTS FOR FISCAL YEAR 2024**

**WHEREAS**, the United States Bureau of Reclamation is currently offering grant opportunities through the WaterSMART Planning and Project Design Grants for Fiscal Year (“FY”) 2024;

**WHEREAS**, said WaterSMART Planning and Project Design Grants for FY 2024 is a cost-shared program emphasizing drought resiliency;

**WHEREAS**, the Board of Directors (“Board”) of the Trabuco Canyon Water District (“District” or “TCWD”) supports the submission by the TCWD of a grant application for the Harris Grade Domestic Water Reservoir Planning & Design Project (“Project”) prepared and approved by the TCWD, to the WaterSMART Planning and Project Design Grants for FY 2024; and

**WHEREAS**, under the WaterSMART Planning and Project Design Grants for FY 2024 program, the United States Bureau of Reclamation may award up to 50% of the total allowable project costs and the TCWD is capable of providing cash, other contributed costs, or third-party in-kind contributions specified in the grant application's funding plan to pay for all remaining Project costs.

**WHEREAS**, if selected for a WaterSMART Planning and Project Design Grants for FY 2024, TCWD will work with the United States Bureau of Reclamation to meet established deadlines for entering into a grant or cooperative agreement regarding funding for the Project.

**NOW, THEREFORE, THE BOARD OF DIRECTORS OF THE TRABUCO CANYON WATER DISTRICT HEREBY RESOLVE, DETERMINE AND ORDER AS FOLLOWS:**

**Section 1:** The Board does hereby approve the submission of the application for the Project for the WaterSMART Planning and Project Design Grants for FY 2024 by TCWD for FY 2025-2026 and 2026-2027.

**Section 2:** In the event grant funding is provided by the United States Bureau of Reclamation, the General Manager and legal counsel to the District and the District’s staff and consultants are authorized to take any and all actions necessary to accept the grant and sign any contract for administration of the grant funds.

**Section 3:** The recitals provided in this resolution are true and correct and are incorporated into the operative part of this resolution.

**Section 4:** If any section, subsection, sentence, clause or phrase of this resolution is, for any reason, held to be invalid or unconstitutional, such decision shall not affect the validity or constitutionality of the remaining portions of this resolution. The Board hereby declares that it would have passed this resolution, and each section, subsection, sentence, clause or phrase hereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses or phrases be declared invalid or unconstitutional. The District Secretary shall certify to the adoption of this resolution and henceforth and thereafter the same shall be in full force and effect.

**Section 5:** The Board finds the adoption of this resolution is not subject to the California Environmental Quality Act ("CEQA") pursuant to Sections 15060(c)( 2) (the activity will not result in a direct or reasonably foreseeable indirect physical change in the environment) and 15060(c)( 3) (the activity is not a project as defined in Section 15378) of the CEQA Guidelines, California Code of Regulations, Title 14, Chapter 3, because it has no potential for resulting in physical change to the environment, directly or indirectly.

**Section 6:** This resolution shall be effective as of March 21, 2024 ("Effective Date").

**ADOPTED, SIGNED, and APPROVED** this 21<sup>st</sup> day of March 2024.

**TRABUCO CANYON WATER DISTRICT**

\_\_\_\_\_  
President/Vice President

\_\_\_\_\_  
District Secretary

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | MARCH 6, 2024**

**ENGINEERING MATTERS**

**ITEM 3: ROBINSON RANCH WASTEWATER TREATMENT PLANT BLOWER MODIFICATIONS PROJECT**

The District’s Robinson Ranch Wastewater Treatment Plant operates a blower-aeration system consisting of four (4) blower-motor configurations. The existing Sutorbilt positive displacement blowers lack the needed capacity to effectively overcome pressure changes as a result of varying elevation within the sequencing batch reactors (SBR). The replacement of the two positive displacement blowers is budgeted for this fiscal year. Staff will be transitioning to multistage centrifugal air blowers, matching the existing Hoffman configuration, which will provide increased efficiency and redundancy. The Blower modification bid documents are complete, and the following contractors have been invited to bid on the project:

<b>Contractors</b>
Ferreira Construction
Pacific Hydrotech
SS Mechanical
Shuler Constructors, Inc
Pascal & Ludwig
Olsson Construction

Bids are due back in late March 2024 and will be brought to the Engineering/Operational Committee Meeting in April 2024.

Future Blower Room Motor Control Center (MCC) Replacement

During the design of the blower replacement project, the Electrical Engineer communicated that the current Motor Control Center (MCC) inside the blower room is undersized for the existing equipment. The MCC is fed from the Main Service Board with a 500-amp circuit breaker and feeder. The calculated load of existing equipment is 662 amps. At any given time, the 500-amp circuit breaker can trip, depending on which equipment is operating. With the addition of the two 60-hp blowers, the updated load would be 736 amps. The replacement of the MCC is a separate project recommended by Hazen during the District’s Condition Assessment and is currently scheduled for FY25-26 in the CIP. Due blower room equipment’s critical role to efficient wastewater plant operation, and the risk posed to the equipment by the existing MCC, Staff has begun planning for the MCC replacement. Due to persistent post-pandemic supply chain challenges, current procurement time for an MCC is approximately 18 months; therefore, the earliest this equipment can be placed into service is December 2025 which is consistent with the timing of that project in the CIP.

In support of the MCC upgrade in FY25-26, Staff solicited proposals from several surveying/mapping firms to provide a utility investigation relative to preparation of a base map for the design of a new electrical duct bank. Staff received two proposals for this work, and the recommendation for the contract, within the General Manager’s signing authority, is to DMc Engineering, in the amount of \$43,400. The MCC Replacement project budget in the CIP is \$871,000.

**FUNDING SOURCE:**

Capital Improvement Program

**FISCAL IMPACT (PROJECT BUDGET)**

\$400,000 for Blower Replacements – FY 2023-24 CIP Budget

**TRABUCO CANYON WATER DISTRICT  
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**ENVIRONMENTAL COMPLIANCE:**

Notice of Exemption

**RECOMMENDED ACTION:**

*Committee to receive system status updates. No action required.*

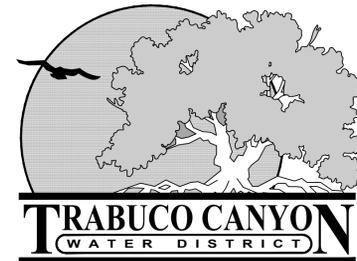
**EXHIBIT(S):**

1. Project Plans

**CONTACTS (staff responsible): PALUDI/LAUSTEN**

# TRABUCO CANYON WATER DISTRICT

## ROBINSON RANCH WASTEWATER TREATMENT PLANT BLOWER MODIFICATIONS PROJECT NO. 2223-105



FEBRUARY 2024

APPROVED:  
TRABUCO CANYON WATER DISTRICT

A handwritten signature in cursive script, appearing to read "Lorraine S. Lausten".

LORRAINE S. LAUSTEN R.C.E. 67027  
DISTRICT ENGINEER

2/28/24

DATE



318 W KATELLA AVE, SUITE A  
ORANGE, CA 92867  
(714) 978-4407  
www.jigconsultants.com



**GENERAL NOTES**

- NOTIFY TRABUCO CANYON WATER DISTRICT (DISTRICT) 714-858-0277 AT LEAST 48 HOURS BUT NOT MORE THAN 72 HOURS BEFORE STARTING WORK, OR AFTER ANY DELAY, BEFORE RESUMING WORK.
- THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (U.S.A.) AT 811 AT LEAST 48 HOURS PRIOR TO STARTING WORK.
- ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (GREEN BOOK) LATEST EDITION, AND THE DISTRICT'S STANDARD SPECIFICATIONS AND DRAWINGS. THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS AND THE SPECIFICATIONS AND THE STANDARD SPECIFICATIONS ON THE JOB AT ALL TIMES.
- CONCRETE WORK SHALL BE PER PLANS AND SPECIFICATIONS UNLESS OTHERWISE INDICATED.
- PIPELINES SHALL BE PNEUMATIC AIR TESTED IN ACCORDANCE WITH ASME B31.3.
- CONTRACTOR SHALL MAINTAIN THE WORK AREA IN A NEAT, SAFE, CLEAN AND SANITARY CONDITION AT ALL TIMES. STREETS SHALL BE KEPT CLEAN OF DEBRIS, WITH DUST AND NOISANCE BEING CONTROLLED AT ALL TIMES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY CLEANUP OF ADJACENT STREETS AFFECTED BY HIS CONSTRUCTION. CONTRACTOR TO CLEAN STREET WITH SWEEPER OR EQUAL PRIOR TO END OF EACH WORK DAY AS A MINIMUM.
- ALL SURPLUS MATERIAL REMOVED, INCLUDING EXCAVATED MATERIALS WHICH ARE NOT SUITABLE FOR USE IN THIS PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF AWAY FROM THE JOB SITE IN A MANNER AND AT LOCATION ACCEPTABLE TO ALL AFFECTED AGENCIES.
- THE CONTRACTOR SHALL POTHOLE AND LOCATE EXISTING CROSSING UNDERGROUND UTILITIES AND POINTS OF CONNECTION TWO WEEKS, IN ADVANCE OF THE PIPELINE CONSTRUCTION. THE CONTRACTOR SHALL BE LIABLE FOR ANY ADDITIONAL COST REQUIRED IN THE EVENT THAT HE HAS NOT CORRECTLY LOCATED THE EXISTING UTILITIES.
- THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES INCLUDING SHORING AND BE RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS. NEITHER THE DISTRICT NOR THE DISTRICT'S ENGINEER SHALL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY.
- ALL BOLTS AND NUTS SHALL BE 316 STAINLESS STEEL. AFTER INSTALLATION, ALL BURIED BOLTS, NUTS, ETC., SHALL BE COATED WITH DEV WRAP OR AN APPROVED EQUAL.
- THE SURROUNDING AREA SHALL BE RETURNED TO THE CONDITION ENCOUNTERED AT THE START OF CONSTRUCTION.
- CONTRACTOR SHALL CONTACT THE DISTRICT A MINIMUM OF 48 HOURS IN ADVANCE FOR SCHEDULING OF ACCESS TO THE PROJECT SITE. CONTRACTOR SHALL ADHERE TO ALL DISTRICT REQUIREMENTS FOR SITE ACCESS AND MAINTAIN CONTINUAL COORDINATION WITH DISTRICT FOR THE DURATION OF CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF WORK, ALL SURVEY MONUMENTS IN THE PROJECT AREA SHALL BE LOCATED AND TIED OUT BY THE CONTRACTOR. ALL CENTERLINE MONUMENTS OR TIES LOST OR DESTROYED BY THIS WORK SHALL BE REPLACED AND NEW TIE SHEETS PROVIDED. METHOD OF ESTABLISHMENT SHALL BE STATED ON THE TIE SHEET. TIE SHEETS SHALL BE PREPARED AND STAMPED BY A LICENSED ENGINEER OR SURVEYOR AND SHALL BE DELIVERED TO THE COUNTY OF ORANGE PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT IN PLACE EXISTING SEWER, GAS, WATER LATERALS AND OTHER UTILITIES OR REPLACE IN KIND. LOCATIONS OF EXISTING UTILITIES AND SUBSTRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. CONTRACTOR SHALL VERIFY EXACT LOCATIONS, ELEVATIONS AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION IN THE AREA OF THE SPECIFIC SUB-STRUCTURE.
- CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POINTS OF CONNECTION PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL EXISTING UTILITIES, PAVEMENT, CURB, STRUCTURE, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS AS A RESULT OF HIS OPERATIONS, AND WILL BE REQUIRED TO REPAIR OR REPLACE SAME TO THE SATISFACTORY OF, AND AS DIRECTED BY, THE DISTRICT REPRESENTATIVE OR IMPACTED UTILITY COMPANY.
- CONSTRUCTION SURVEYS FOR THIS PROJECT SHALL BE PROVIDED BY THE DISTRICT. SURVEY POINTS DESTROYED AS A RESULT OF THE CONTRACTORS NEGLIGENCE OR FAILURE TO PROVIDE PROPER PROTECTION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN AND PROVIDE THE DISTRICT WITH A "RECORD" SET OF AS BUILT DRAWINGS AT THE COMPLETION OF ALL WORK PER THE PLANS AND SPECIFICATIONS.
- TRENCH COMPACTION AND SUBGRADE COMPACTIONS TESTS SHALL BE PERFORMED BY A LABORATORY DESIGNATED BY THE DISTRICT, UTILIZING CALIFORNIA TEST METHOD NO. 216 AND 231. THE DISTRICT WILL FURNISH FIRST TESTS, WHEN REQUESTED, AT NO COST TO THE CONTRACTOR. ANY RE-TESTING REQUIRED DUE TO FIRST TEST FAILURES SHALL BE MADE AT LOCATIONS ORDERED BY THE ENGINEER, AND SHALL BE AT THE CONTRACTOR'S EXPENSE - COST OF WHICH WILL BE DEDUCTED FROM THE CONTRACTOR'S FINAL PAYMENT.
- LOOSE EXCAVATED MATERIAL SHALL NOT BE PLACED OR STORED IN WATERWAYS OR STORM DRAIN CHANNELS. ALL EXCESS EXCAVATED SOIL AND MATERIALS SHALL BE REMOVED AND DISPOSED OF IN A PROPER AND LEGAL MANNER BY THE CONTRACTOR. ALL DISTURBED SURFACE AREAS SHALL BE SHAPED TO FACILITATE DRAINAGE AND AVOID PONDING AND SHALL BE RESTORED TO NEAR NATURAL OR PRE-CONSTRUCTION CONDITIONS.
- THE CONTRACTOR SHALL CONDUCT HIS CONSTRUCTION OPERATIONS IN SUCH A MANNER THAT STORM OR OTHER WATERS MAY PROCEED UNINTERRUPTED ALONG THE STREET OR DRAINAGE COURSES.
- CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN UNANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE.

SUCH "DISCHARGES" OF MATERIAL OTHER THAN STORM WATER ARE ALLOWED ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETIONS OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NOISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.

MATERIALS WHICH MAY HAVE EFFECTS OF POLLUTION INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING, AND SUPER CHLORINATED WATER LINE FLUSHINGS.

DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON SITE PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUN-OFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.

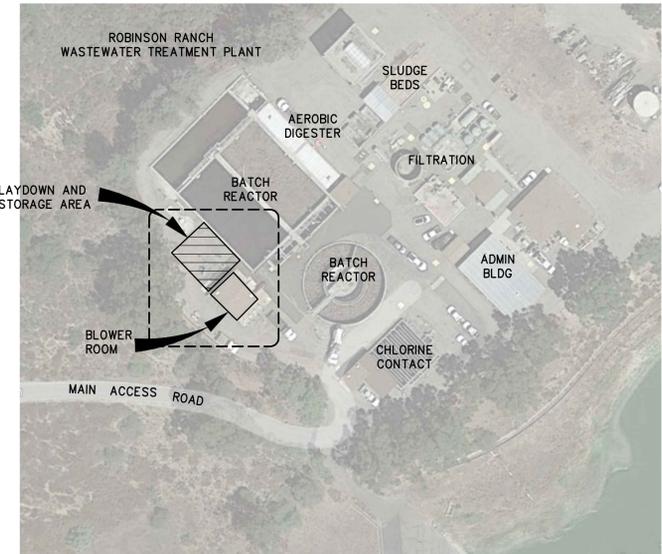
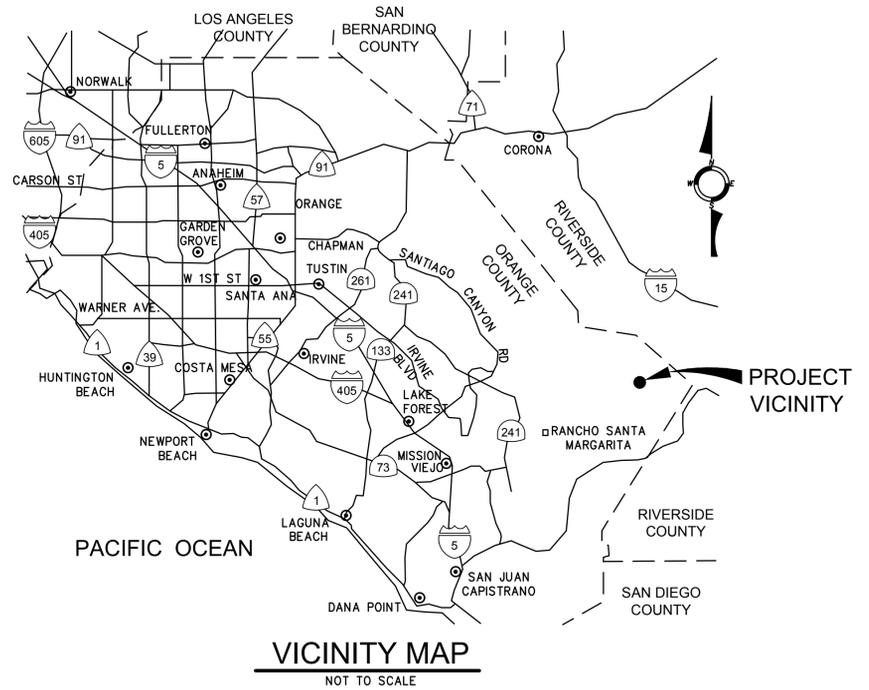
- CONTRACTOR SHALL DEMONSTRATE EXTREME CAUTION WHEN TRENCHING IN CLOSE PROXIMITY TO OTHER UTILITIES. ANY SIGN OF DEGRADATION OF THE TRENCH WALL OR STRUCTURE INTEGRITY WILL NOT BE TOLERATED AND WILL FORCE THE STOPPAGE OF WORK UNTIL THE TRENCH OR STRUCTURE INTEGRITY IS ADEQUATELY RESTORED.
- CONSTRUCTION WORK HOURS SHALL BE 8:00 AM TO 4:30 PM EXCLUSIVE OF SATURDAYS, SUNDAYS, OR HOLIDAYS, UNLESS OTHERWISE NOTED. CONTRACTOR CAN ARRIVE ON SITE AS EARLY AS 7:00 AM BUT CONSTRUCTION NOISE WILL NOT BE ALLOWED UNTIL 8:00 AM.
- BY ACCEPTING THIS CONTRACT, CONTRACTOR HEREBY RELEASES AND AGREES TO INDEMNIFY, DEFEND, HOLD HARMLESS THE OWNER, TRABUCO CANYON WATER DISTRICT AND ITS REPRESENTATIVES, ENGINEER (HEREINAFTER JIG CONSULTANTS) THEIR PARENT AND SUBSIDIARY COMPANIES, AGENTS, EMPLOYEES, CONSULTANTS AND REPRESENTATIVES FOR ANY AND ALL DAMAGE TO PERSONS OR PROPERTY OR WRONGFUL DEATH REGARDLESS OF WHETHER OR NOT SUCH CLAIM, DAMAGE LOSS OR EXPENSE IS CAUSED IN WHOLE OR IN PART BY THE NEGLIGENCE, ACTIVE OR PASSIVE, OF OWNER, ENGINEER, THEIR PARENT AND SUBSIDIARY COMPANIES, AS WELL AS THEIR AGENTS AND EMPLOYEES, EXCEPTING ONLY THE SOLE NEGLIGENCE OF OWNER, ENGINEER THEIR PARENT OR SUBSIDIARY COMPANIES AND THEIR AGENTS AND EMPLOYEES TO THE FULLEST EXTENT PERMITTED BY LAW. SUCH INDEMNIFICATION SHALL EXTEND TO ALL CLAIMS, DEMANDS, ACTIONS, OR LIABILITY FOR INJURIES, DEATH OR DAMAGES OCCURRING AFTER COMPLETION OF THE PROJECT, AS WELL AS DURING THE WORK'S PROGRESS. CONTRACTOR FURTHER AGREES THAT IT SHALL ACCOMPLISH THE ABOVE AT ITS OWN COST, EXPENSE AND RISK EXCLUSIVE OF AND REGARDLESS OF ANY APPLICABLE INSURANCE COMPANY REGARDING COVERAGE.

**SHEET INDEX**

DWG. NO.	SHT. NO.	SHEET TITLE
G-01	1	TITLE SHEET
G-02	2	GENERAL NOTES, SHEET INDEX, AGENCY INDEX, VICINITY AND LOCATION MAPS
D-01	3	DEMOLITION PLAN AND DETAILS
M-01	4	MECHANICAL PLANS AND SECTIONS
M-02	5	MISCELLANEOUS MECHANICAL DETAILS
E-01	6	ELECTRICAL PLANS AND DETAILS
E-02	7	ELECTRICAL SINGLE LINE DIAGRAM

**CONSTRUCTION NOTES**

- CONSTRUCT MULTISTAGE CENTRIFUGAL AIR BLOWER WITH SKID MOUNTED VFD/CONTROLLER, LONE STAR MC5-10 OR APPROVED EQUAL
- CONSTRUCT 6" 90° FLGD DUCTILE IRON BEND
- CONSTRUCT 6" 45° FLGD DUCTILE IRON BEND
- CONSTRUCT 6" FE×FE DUCTILE IRON SPOOL PIECE (LENGTH AS SHOWN)
- CONSTRUCT 6" FE×PE DUCTILE IRON SPOOL PIECE (LENGTH AS SHOWN)
- CONSTRUCT 6" WAFER BUTTERFLY VALVE WITH HAND OPERATOR, BRAY SERIES 30 OR APPROVED EQUAL.
- CONSTRUCT 6" THICK CONCRETE SLAB PER  $\frac{2}{M-02}$
- CONSTRUCT 6" WAFER CHECK VALVE, US VALVE MODEL 09-2-0, OR APPROVED EQUAL.
- CONSTRUCT PIPE SUPPORT PER  $\frac{1}{M-02}$
- PROTECT IN PLACE EXISTING JUNCTION BOX AND 2" CONDUIT TO MCC.
- JOIN EXISTING 6" FLANGE CONNECTION
- CONSTRUCT PRESSURE GAUGE ASSEMBLY PER  $\frac{3}{M-02}$
- CONSTRUCT 6"x5" EXPANSION JOINT, GENERAL RUBBER STYLE 1101CR, OR APPROVED EQUAL
- CONSTRUCT 6" FLANGE ADAPTER, EBAA IRON SERIES 1000 EZ FLANGE, OR APPROVED EQUAL



**UGALERT** CALL TOLL FREE 811  
TWO WORKING DAYS BEFORE YOU DIG  
Underground Service Alert

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**JIG CONSULTANTS**  
318 W KATELLA AVE, SUITE A  
ORANGE, CA 92867  
(714) 978-4407  
www.jigconsultants.com



NO.	DATE	REVISIONS	DESIGN:	DATE
			RO	2/28/24
			RO	2/26/24
			JG	

<i>Corrain S. Lausten</i> CORRAINE S. LAUSTEN RCE 67027	DISTRICT ENGINEER	2/28/24
<i>Joseph L. Gutierrez</i> JOSEPH L. GUTIERREZ RCE 55604	ENGINEER	2/26/24

**TRABUCO CANYON WATER DISTRICT**  
**ROBINSON RANCH WASTEWATER TREATMENT PLANT**  
**BLOWER MODIFICATIONS**  
**PROJECT NO. 2223-105**

**G-02**  
**GENERAL NOTES, SHEET INDEX, AGENCY INDEX, VICINITY AND LOCATION MAPS**  
SHEET 2 OF 7

**NOTES:**

- UNLESS NOTED TO BE REMOVED OR RELOCATED, CONTRACTOR TO PROTECT IN PLACE ALL EXISTING MECHANICAL, ELECTRICAL, AND STRUCTURAL ITEMS INSIDE BLOWER ROOM.
- CONTRACTOR TO EMPLOY DUST CONTROL MEASURES TO PROTECT ALL EXISTING ELECTRICAL EQUIPMENT, MCC PANELS, CONTROL PANELS, DURING DEMOLITION AND CONSTRUCTION WORK INSIDE BLOWER BUILDING.
- CONTRACTOR TO REMOVE AND REPLACE ONE BLOWER BEFORE REMOVING AND REPLACING THE SECOND BLOWER TO ALLOW CONTINUOUS OPERATION WITHOUT DISRUPTING SERVICE.
- PROTECT IN PLACE ALL EXISTING FLOOR PENETRATION WITH BLIND FLANGES DURING BLOWER CONSTRUCTION.

**DEMOLITION NOTES**

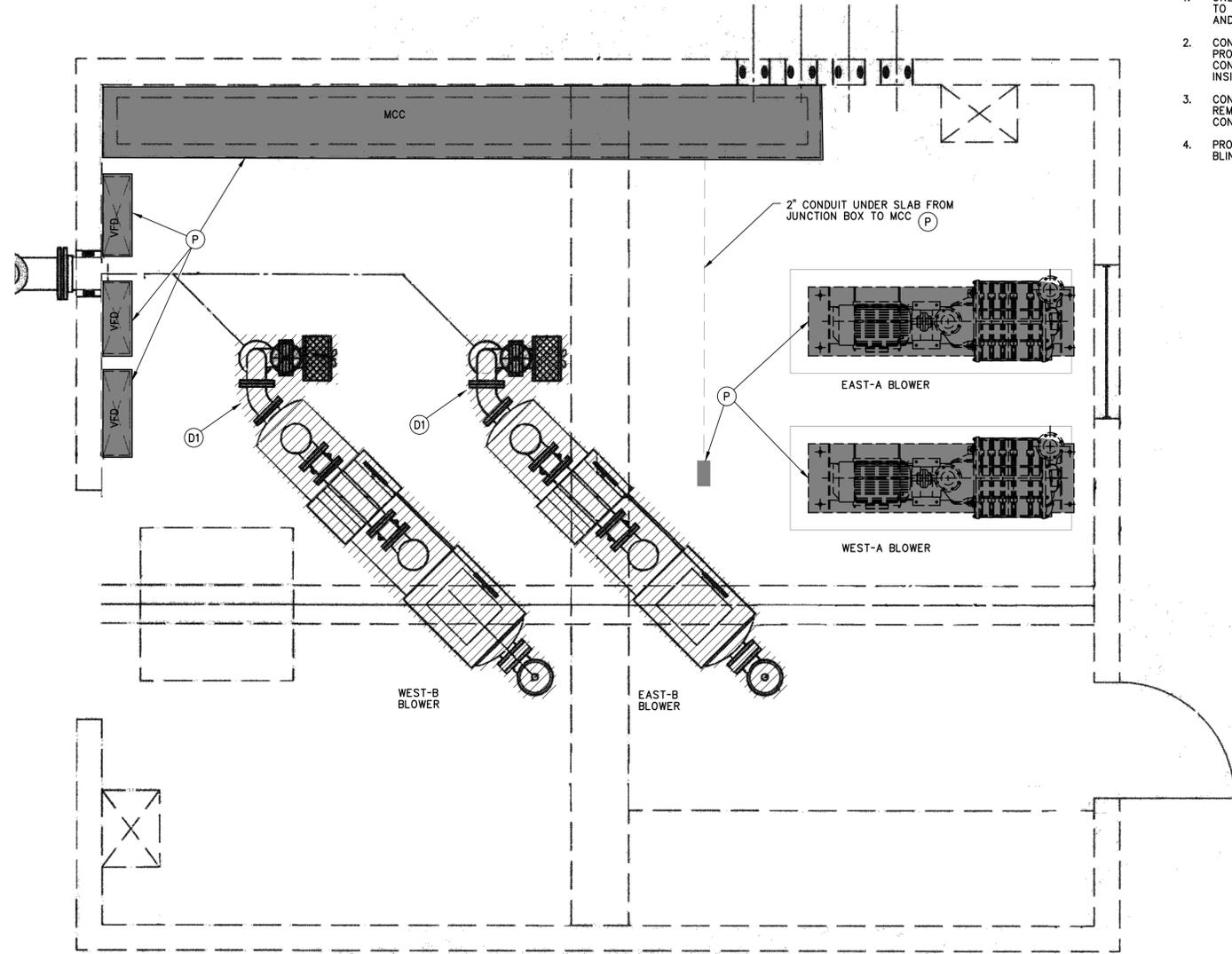
- (P) PROTECT IN PLACE
- (D1) DEMOLISH AND DISPOSE OF EXISTING BLOWERS, PIPING, VALVES, AND APPURTENANCES PER 

1	2	3	4	5
---	---	---	---	---
- (D2) DEMOLISH AND DISPOSE OF ABOVE GRADE ELECTRICAL, AND SIGNAL CONDUITS PER 

1	2	4	5
---	---	---	---

**LEGEND**

- DEMOLISH AND DISPOSE OF EXISTING BLOWERS, PIPING, VALVES, AND APPURTENANCES
- PROTECT IN PLACE EXISTING ELECTRICAL MCC, VFDS, CONTROL PANELS, JUNCTION BOX AND CONDUITS, FLANGE STUB OUT, AND BLOWERS



DEMOLISH AND DISPOSE OF (D1) EXISTING BLOWERS, PIPING VALVES AND ACCESSORIES

PROTECT IN PLACE (P) EXISTING ELECTRICAL CONDUIT AND BOX

(D1) DEMOLISH AND DISPOSE OF EXISTING VALVE/FITTINGS



DEMOLISH AND DISPOSE OF EXISTING ELECTRICAL CONDUITS (D2)

PROTECT IN PLACE EXISTING 6" PIPE AND FLANGE STUB UP FROM FLOOR (P)

(P) PROTECT IN PLACE EXISTING 6" PIPE AND FLANGE STUB UP FROM FLOOR

(D2) DEMOLISH AND DISPOSE OF EXISTING SIGNAL CONDUITS

(D2) DEMOLISH AND DISPOSE OF EXISTING ELECTRICAL CONDUITS

**DEMOLITION DETAIL 1**

NOT TO SCALE

**DEMOLITION DETAIL 2**

NOT TO SCALE



DEMOLISH AND DISPOSE OF (D1) EXISTING BLOWERS, PIPING, VALVES AND ACCESSORIES

PROTECT IN PLACE EXISTING (P) 6" PIPE AND FLANGE STUB UP FROM FLOOR

**SITE PLAN**

SCALE: 1/2" = 1'-0"



(D1) DEMOLISH AND DISPOSE OF EXISTING BLOWERS, PIPING VALVES AND ACCESSORIES

(D2) DEMOLISH AND DISPOSE OF EXISTING ELECTRICAL CONDUITS



(P) PROTECT IN PLACE EXISTING 6" PIPE AND FLANGE STUB UP FROM FLOOR

DEMOLISH AND DISPOSE OF EXISTING VALVE/FITTINGS (D1)

DEMOLISH AND DISPOSE OF EXISTING SIGNAL CONDUITS (D2)



DEMOLISH AND DISPOSE OF (D1) EXISTING BLOWERS, PIPING VALVES AND ACCESSORIES

PROTECT IN PLACE (P) EXISTING ELECTRICAL CONDUIT AND BOX

(D2) DEMOLISH AND DISPOSE OF EXISTING ELECTRICAL CONDUITS

**DEMOLITION DETAIL 4**

NOT TO SCALE

**DEMOLITION DETAIL 5**

NOT TO SCALE

**DEMOLITION DETAIL 3**

NOT TO SCALE

**DIGALERT** CALL TOLL FREE 811  
 CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.  
 TWO WORKING DAYS BEFORE YOU DIG (Underground Service Alert)

**JIG CONSULTANTS**

318 W KATELLA AVE, SUITE A  
 ORANGE, CA 92867  
 (714) 978-4407  
 www.jigconsultants.com

REGISTERED PROFESSIONAL ENGINEER  
 JOSEPH L. GUTIERREZ  
 No. C 55604  
 Exp. 12/31/24  
 CIVIL  
 STATE OF CALIFORNIA

DESIGN:	RO
DRAWN:	RO
CHECKED:	JG

**TRABUCO CANYON WATER DISTRICT**

<i>Lorraine S. Lausten</i>	DATE
LORRAINE S. LAUSTEN RCE 67027	2/26/24
<i>Joseph L. Gutierrez</i>	DATE
JOSEPH L. GUTIERREZ RCE 55604	2/26/24

**TRABUCO CANYON WATER DISTRICT  
 ROBINSON RANCH WASTEWATER TREATMENT PLANT  
 BLOWER MODIFICATIONS  
 PROJECT NO. 2223-105**

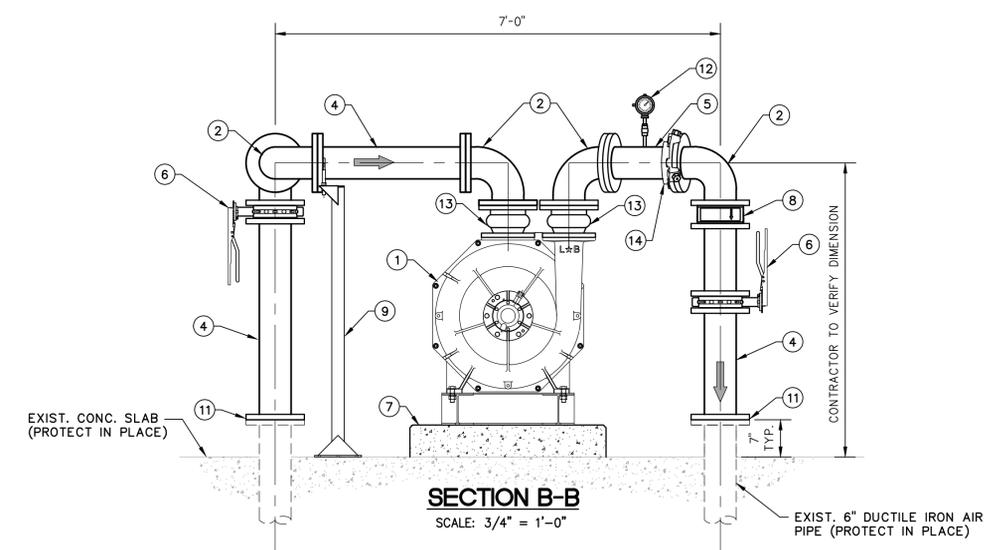
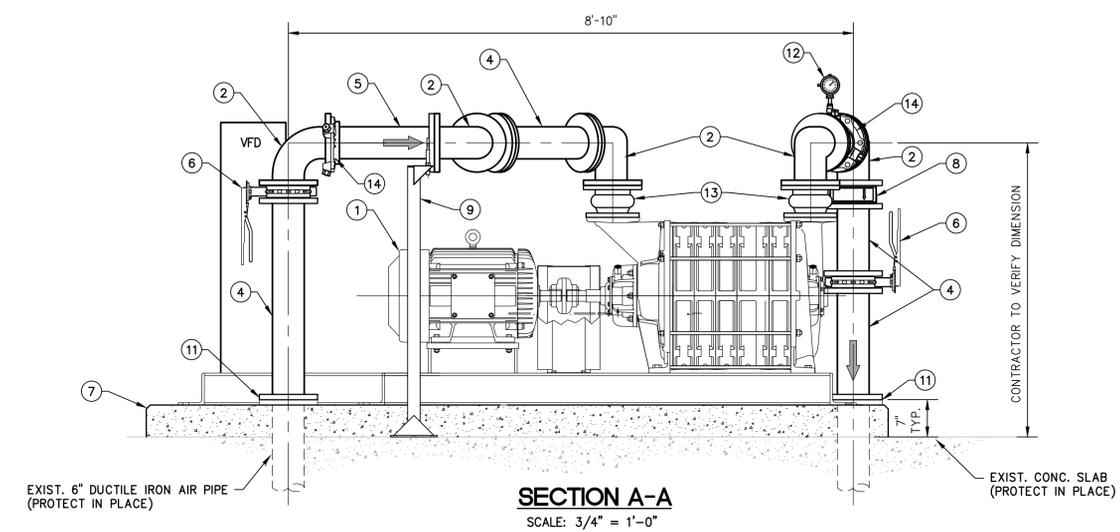
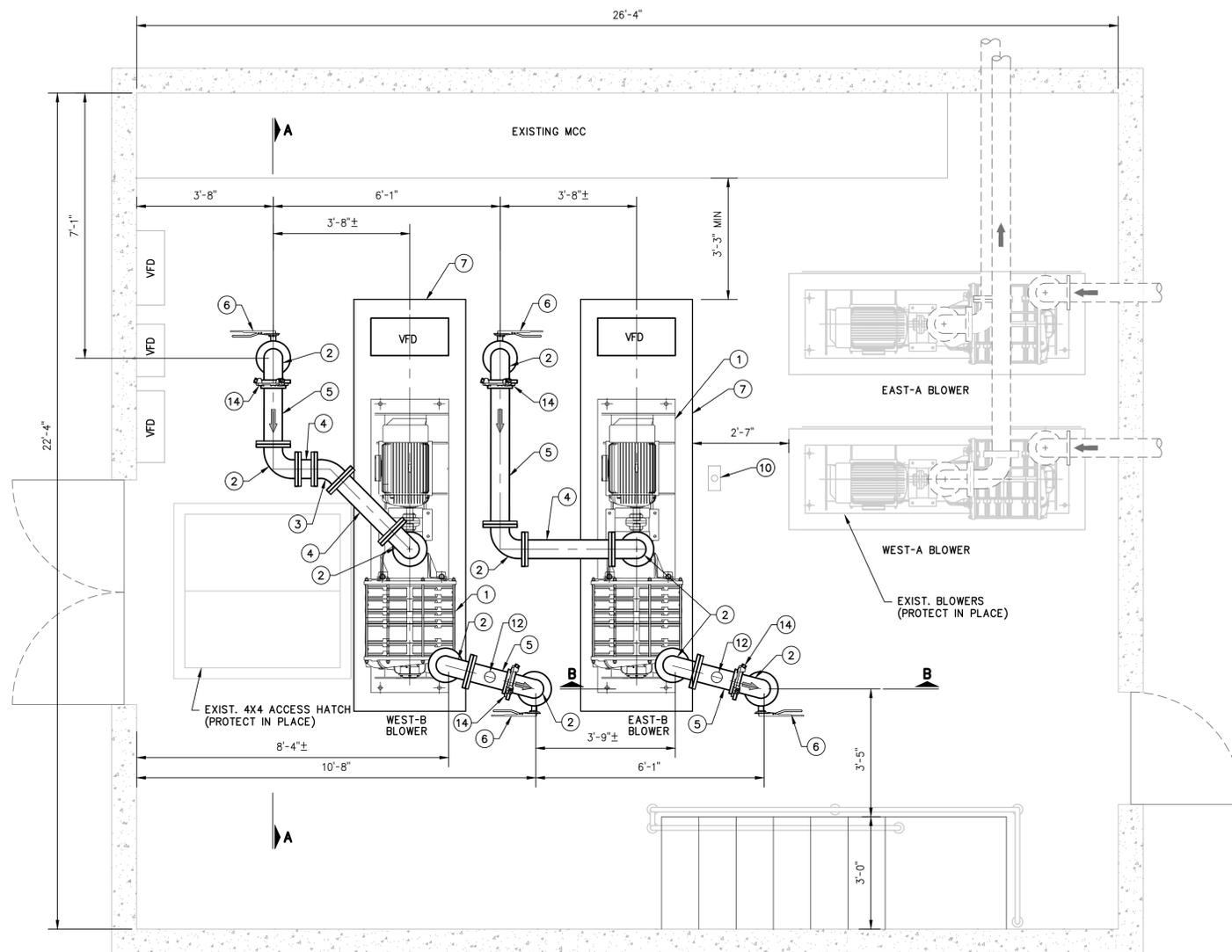
**DEMOLITION PLAN AND DETAILS**

**D-01**  
 SHEET  
**3**  
 OF  
**7**

B:\Users\Public\Desktop\Projects\TRABUCO\Projects\2223-105\01 - UPPER LEVEL BLOWER MECHANICAL DEMO PLAN.dwg Plotted on Feb. 26, 2024 - 7:45am by JIG CAD 3

**CONSTRUCTION NOTES**

- 1 CONSTRUCT MULTISTAGE CENTRIFUGAL AIR BLOWER WITH SKID MOUNTED VFD/CONTROLLER, LONE STAR MC5-10 OR APPROVED EQUAL
- 2 CONSTRUCT 6" 90° FLG'D DUCTILE IRON BEND
- 3 CONSTRUCT 6" 45° FLG'D DUCTILE IRON BEND
- 4 CONSTRUCT 6" FE×FE DUCTILE IRON SPOOL PIECE (LENGTH AS SHOWN)
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- 7 CONSTRUCT 6" THICK CONCRETE SLAB PER  $\frac{2}{M-02}$
- 8 CONSTRUCT 6" WAFER CHECK VALVE, US VALVE MODEL 09-2-0, OR APPROVED EQUAL.
- 9 CONSTRUCT PIPE SUPPORT PER  $\frac{1}{M-02}$
- 10 PROTECT IN PLACE EXISTING JUNCTION BOX AND 2" CONDUIT TO MCC.
- 11 JOIN EXISTING 6" FLANGE CONNECTION
- 12 CONSTRUCT PRESSURE GAUGE ASSEMBLY PER  $\frac{3}{M-02}$
- 13 CONSTRUCT 6"×5" EXPANSION JOINT, GENERAL RUBBER STYLE 1101CR, OR APPROVED EQUAL
- 14 CONSTRUCT 6" FLANGE ADAPTER, EBAA IRON SERIES 1000 EZ FLANGE, OR APPROVED EQUAL



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 TWO WORKING DAYS BEFORE YOU DIG  
 Underground Service Alert

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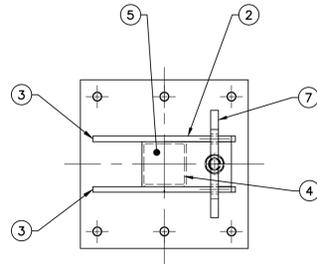


NO.	DATE	REVISIONS

DESIGN: RO	DATE: 2/28/24
DRAWN: RO	LORRAINE S. LAUSTEN RCE 67027 DISTRICT ENGINEER
CHECKED: JG	JOSEPH L. GUTIERREZ RCE 55604 ENGINEER 2/26/24

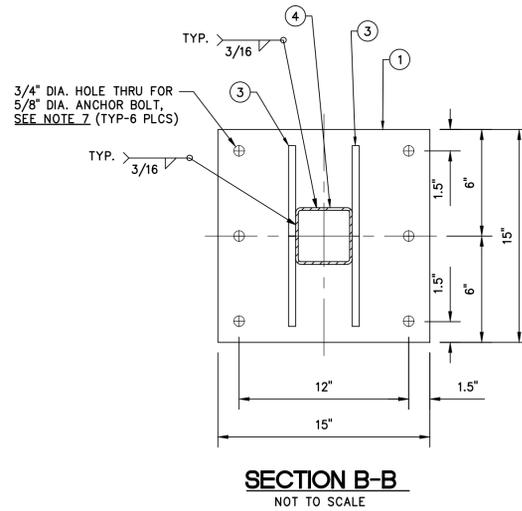
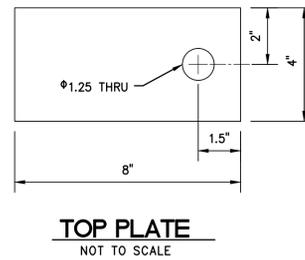
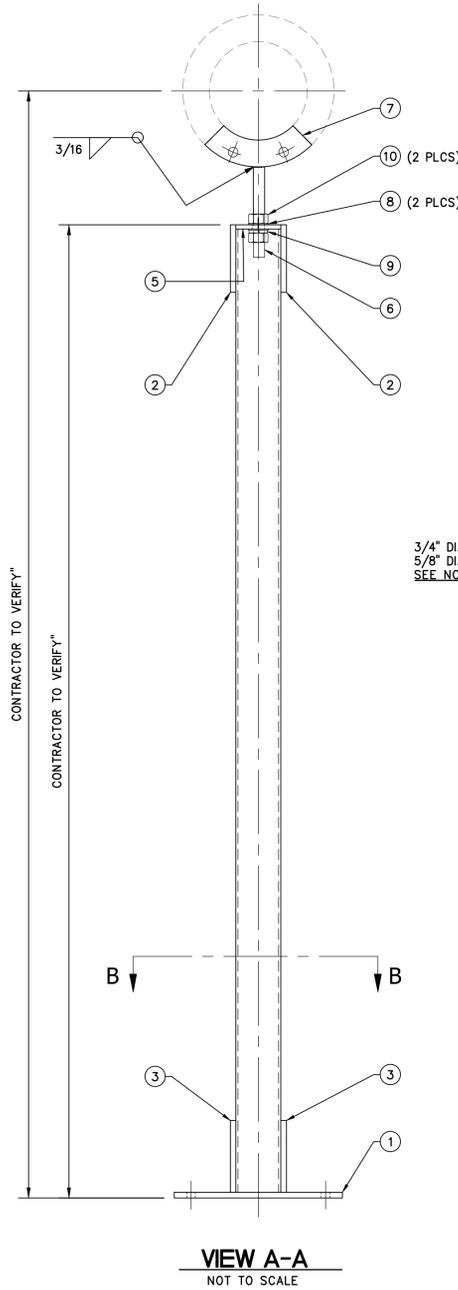
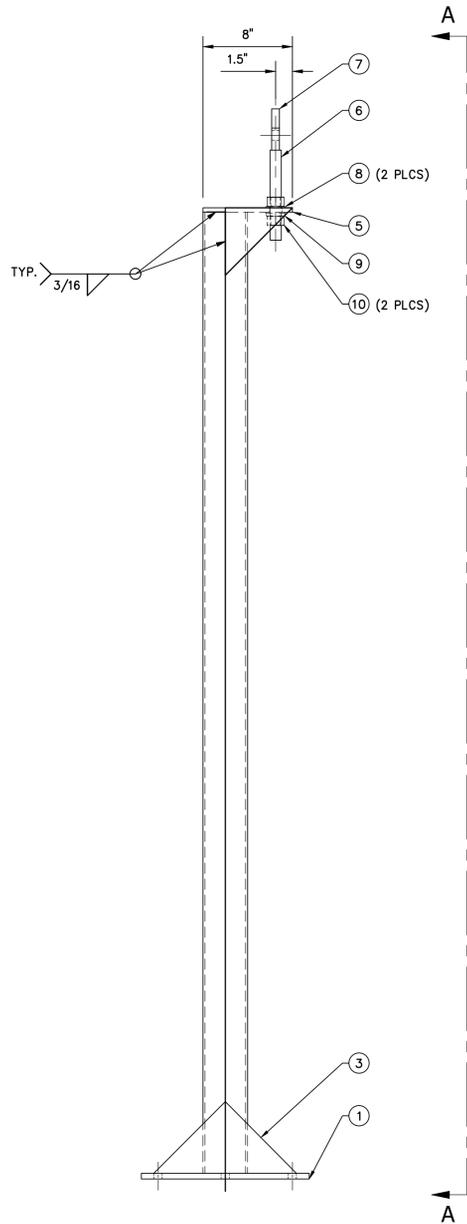
**TRABUCO CANYON WATER DISTRICT**  
**ROBINSON RANCH WASTEWATER TREATMENT PLANT**  
**BLOWER MODIFICATIONS**  
**PROJECT NO. 2223-105**

**M-01**  
**MECHANICAL PLAN AND SECTIONS**  
 SHEET 4 OF 7

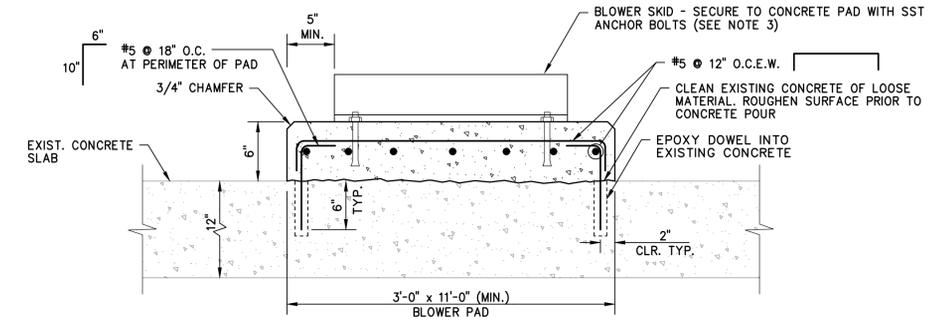


**NOTES:**

1. ALL MATERIAL TO BE CARBON STEEL.
2. WELDED CONSTRUCTION THROUGHOUT.
3. GRIND & DEBURR ALL WELDS.
4. BREAK ALL SHARP EDGES.
5. ALL CORNERS TO BE SQUARE.
6. SANDBLAST & POWDERCOAT.
7. ANCHOR BOLTS: (6) 5/8" DIA. F1554GR.36 (OR A36). ALL THREAD RODS w/HILTI "HT-HY 200" w/4.25" EMBED.



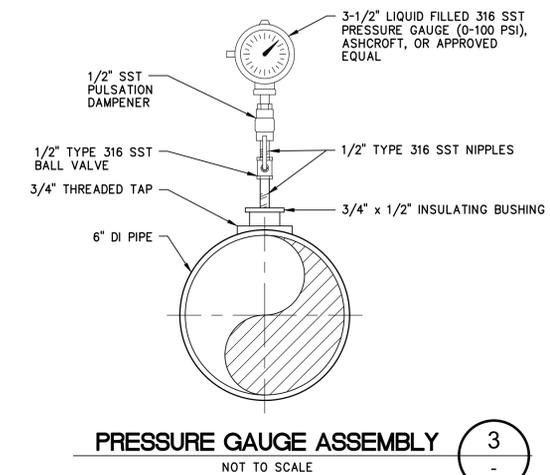
PARTS LIST	
ITEM	DESCRIPTION
1	BASE PLATE PIPE SUPPORT A36 HR 0.5 X 15 X 15
2	GUSSET STL A36 HR 6 X 6 X 0.5TK X 45Deg
3	GUSSET STL A36 HR 9 X 9 X 0.5TK X 45Deg
4	HSS A36 HR 4X4X0.18
5	BAR FLT STL 3 8 X 4 A36
6	ROD ZNC-EPT 1-8
7	FLNG QUARTER SECTION PIPE SUPPORT 8IN
8	WASHER FLAT SS 1IN
9	WASHER LOCK SS 1IN
10	NUT HEX SS 1IN



**NOTES:**

1. USE CLASS C CONCRETE MIX
2. CONTRACTOR TO VERIFY LOCATION AND DIMENSIONS OF CONCRETE PAD IN CONJUNCTION WITH LAYOUT OF NEW BLOWER EQUIPMENT AND SKID
3. CONTRACTOR TO PROVIDE STRUCTURAL CALCULATIONS FOR ANCHOR BOLT SIZE AND EMBEDMENT FOR ENGINEER'S REVIEW.

**CONCRETE PAD** 2  
NOT TO SCALE



**PIPE SUPPORT** 1  
NOT TO SCALE

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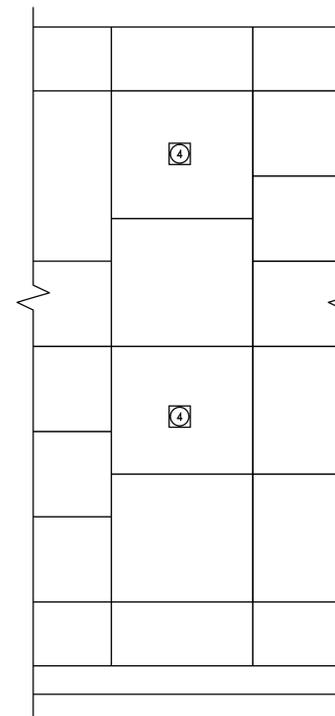
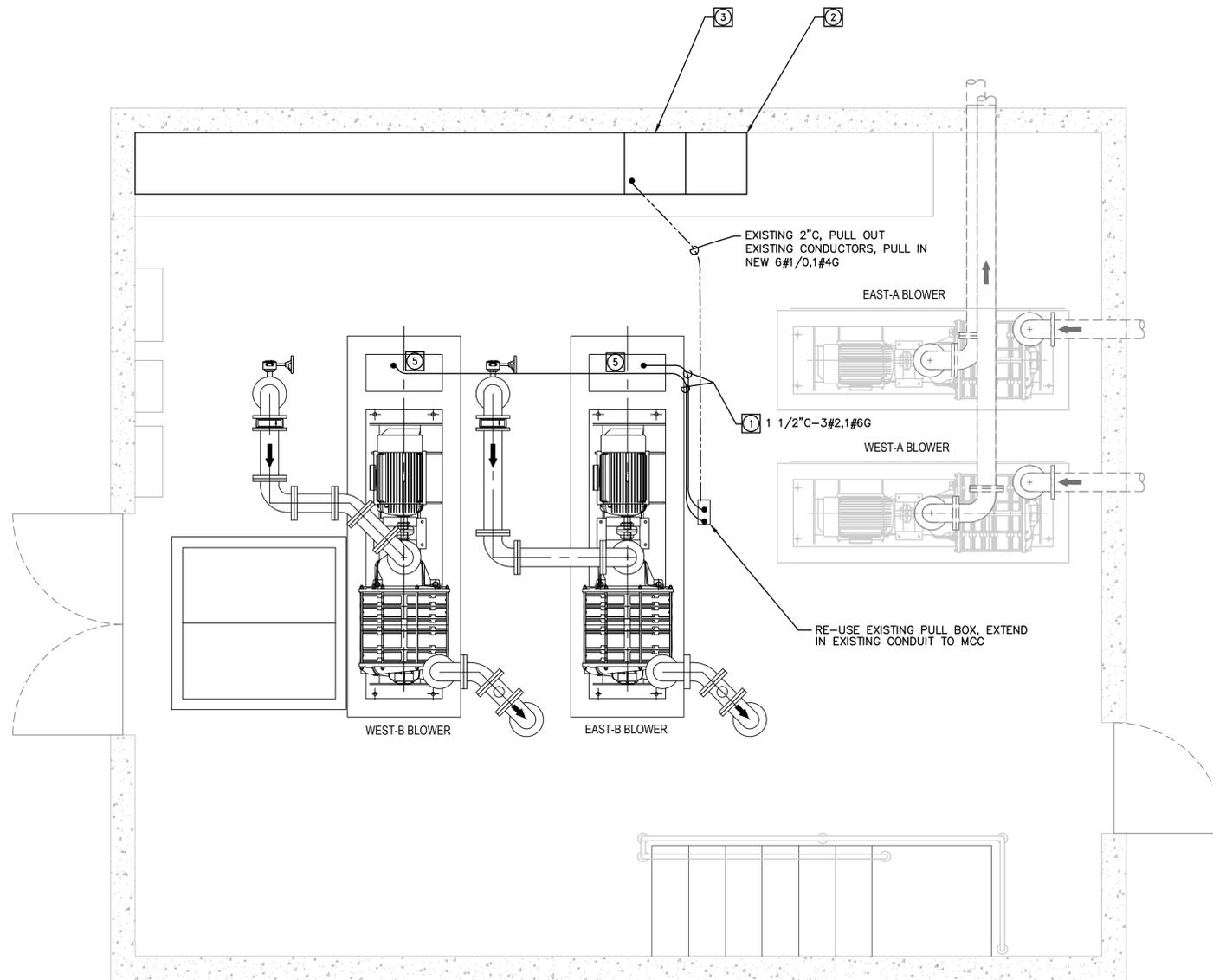
DATE	2/28/24
DISTRICT ENGINEER	LORRAINE S. LAUSTEN RCE 67027
ENGINEER	JOSEPH L. GUTIERREZ RCE 55604

**TRABUCO CANYON WATER DISTRICT**  
**ROBINSON RANCH WASTEWATER TREATMENT PLANT**  
**BLOWER MODIFICATIONS**  
**PROJECT NO. 2223-105**

**MISCELLANEOUS MECHANICAL DETAILS**

**CONSTRUCTION NOTES**

- ① ROUTE CONDUITS OVERHEAD WITH UNISTRUT SUPPORT FROM CEILING AVOID LIGHT FIXTURES AND ANY OTHER OBSTRUCTIONS
- ② EXISTING MOTOR CONTROL CENTER
- ③ SEE DETAIL 1, SHEET E-01 FOR MOTOR CONTROL CENTER ELEVATION
- ④ REMOVE EXISTING STARTER COMPONENTS, INSTALL NEW 125A, 3P, THERMAL MAGNETIC CIRCUIT BREAKER TO MATCH EXISTING, BLANK OFF ALL UNUSED OPENINGS IN MCC BUCKET
- ⑤ SKID MOUNTED VARIABLE FREQUENCY DRIVE WITH CIRCUIT BREAKER



**A**  
ELECTRICAL PLAN  
SCALE: 1/2" = 1'-0"

**1**  
MCC ELEVATION  
SCALE: 1" = 1'-0"

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**M&A MULLEN & ASSOCIATES INCORPORATED**  
ELECTRICAL ENGINEERS  
Project Number **2023003**  
1200 N. Jefferson St., Unit D Anaheim, Cal. 92807 Email: LMullen@mullenandassociates.com (714)632-8620 FAX: (714)632-3849



NO.	DATE	REVISIONS

DESIGN: RO	DATE: 2/28/24
DRAWN: RO	LORRAINE S. LAUSTEN RCE 67027 DISTRICT ENGINEER
CHECKED: JG	JOSEPH H. GUTIERREZ RCE 55604 ENGINEER

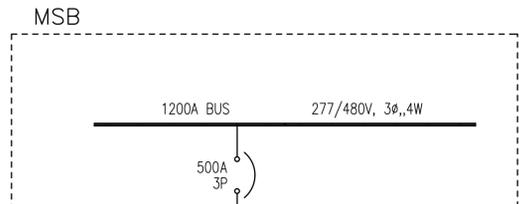
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**BLOWER MODIFICATIONS**  
**PROJECT NO. 2223-105**

**ELECTRICAL PLAN AND DETAILS**

**E-01**  
SHEET  
**6**  
OF  
**7**

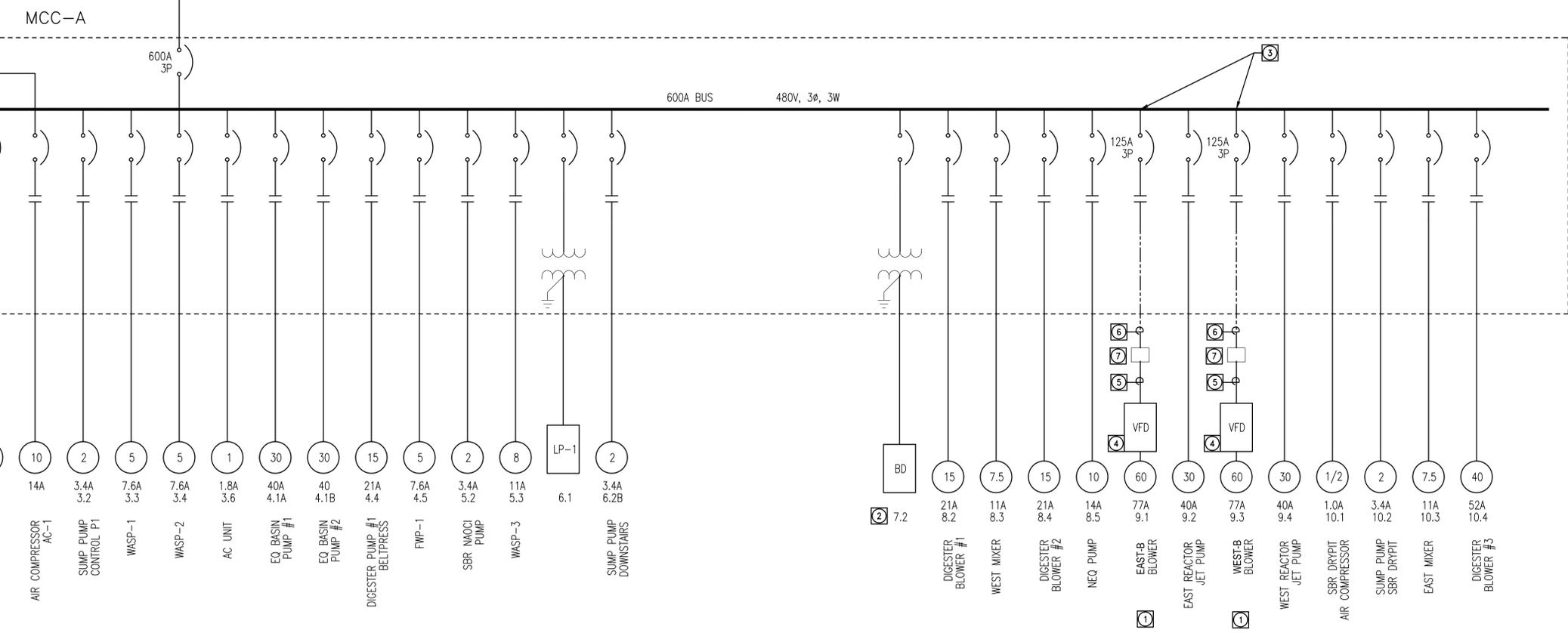
**CONSTRUCTION NOTES**

- ① (E) 30HP(40A) BLOWER TO BE REPLACED WITH 60HP(77A) BLOWER.
- ② MCC BUCKET I.D. - SEE MCC-A ELEVATION, DETAIL 1, SHEET E-01
- ③ REMOVE EXISTING STARTER COMPONENTS, INSTALL NEW 125A, 3P, THERMAL MAGNETIC CIRCUIT BREAKER TO MATCH EXISTING, BLANK OFF ALL UNUSED OPENINGS IN MCC BUCKET
- ④ SKID MOUNTED VARIABLE FREQUENCY DRIVE WITH CIRCUIT BREAKER
- ⑤ 1 1/2" C-3#2,1#6G
- ⑥ RE-USE EXISTING CONDUIT PER PLAN, PULL IN NEW CONDUCTORS PER PLAN
- ⑦ RE-USE EXISTING PULL BOX PER PLAN



**MCC-A LOAD CALC:**

EXISTING MOTOR LOAD	=	623A
EXISTING MISC. LOAD	=	20A
LCL +25% OF 77A	=	19A
EXISTING TOTAL LOAD	=	662A
NEW INCREASED BLOWER LOAD	=	74A
NEW TOTAL LOAD	=	736A



① SINGLE LINE DIAGRAM - MCC-A



CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION WORK. SEE GENERAL NOTES FOR FURTHER INFORMATION.

**M&A MULLEN & ASSOCIATES INCORPORATED**  
 ELECTRICAL ENGINEERS  
 Project Number **2023003**  
 1200 N. Jefferson St., Unit D, Anaheim, Cal. 92807 Email: LMullen@mullenandassociates.com (714)632-8620 FAX: (714)632-3849



NO.	DATE	REVISIONS

DESIGN:	RO
DRAWN:	RO
CHECKED:	JG

<i>Lorraine S. Lausten</i>	DISTRICT ENGINEER	DATE	2/28/24
LORRAINE S. LAUSTEN	RCE 67027		
<i>Joseph L. Gutierrez</i>	ENGINEER	DATE	2/26/24
JOSEPH L. GUTIERREZ	RCE 55604		

**TRABUCO CANYON WATER DISTRICT**  
**ROBINSON RANCH WASTEWATER TREATMENT PLANT**  
**BLOWER MODIFICATIONS**  
**PROJECT NO. 2223-105**

**ELECTRICAL SINGLE LINE DIAGRAM**

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | MARCH 6, 2024**

**ENGINEERING MATTERS**

**ITEM 4: LIVE OAK PIPELINE UPGRADE – RFP ISSUED**

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Trabuco Canyon Water District (District) operates 10-inch and 14-inch pipelines in Live Oak Canyon Road, which distribute water from the Ridgeline Booster Pump Station to the Harris Grade Zone. The 10-inch pipeline, built in 1964, is undersized and at the end of its service life. The District has budgeted to replace this pipeline over the next three fiscal years. The proposed improvements are to build an 18-inch pipeline, approximately 4,900 LF, from Cooks Corner to the Harris Grade Reservoirs.

Staff has prepared a Request for Proposals for the Design portion of the project. Proposals are due back in late March 2024 and will be brought to the Engineering/Operational Committee Meeting in April 2024.

**FUNDING SOURCE:**

Capital Improvement Program

**FISCAL IMPACT (PROJECT BUDGET)**

FY23-24: \$250,000

FY24-25: \$1,750,000

FY25-26: \$500,000

**ENVIRONMENTAL COMPLIANCE:**

Notice of Exemption

**RECOMMENDED ACTION:**

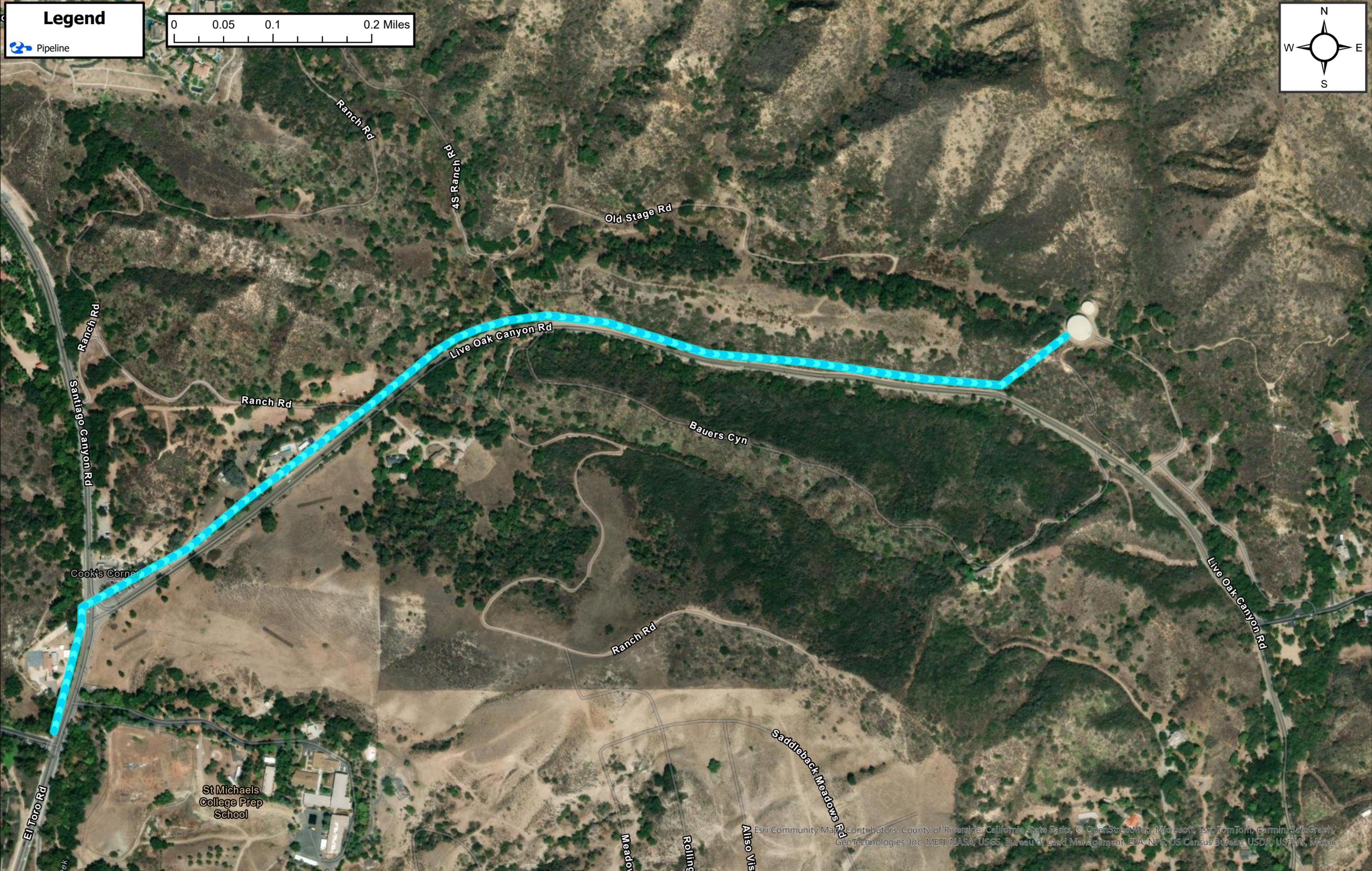
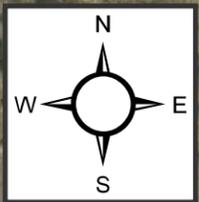
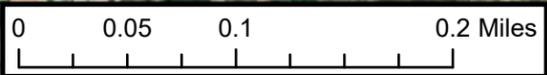
*Committee to receive system status updates. No action required.*

**EXHIBIT(S):**

1. Project location map

**CONTACTS (staff responsible): PALUDI/PEREA/LAUSTEN**

**Legend**  
Pipeline



**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | MARCH 6, 2024**

**ENGINEERING MATTERS**

**ITEM 5: OTHER ENGINEERING AND OPERATIONS PROJECT UPDATES**

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1. Other Projects

**RECOMMENDED ACTION:**

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

**EXHIBIT(S):**

None

**CONTACTS (staff responsible): PALUDI/PEREA/LAUSTEN**

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | MARCH 6, 2024**

**OPERATIONAL MATTERS**

**ITEM 6: WATER SYSTEM UPDATES**

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The following is a brief report of the water system through **February 2024**.

**Projects and Repairs**

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

1. Added 2 pallets of Anthracite Coal media to all filters at the Dimension Water Treatment Plant (DWTP).
2. Replaced the Influent water valve on Filter #1 and the effluent water valve on Filter #3 at DWTP.
3. Placed the DWTP into operation on 2/9/2024.
4. Added filter media (garnet) to all 18 filters and replaced all chemical feed lines at Trabuco Creek GWTF.
5. Operations staff continues to work closely with outside vendors at the Saddle Crest facility and continues to work with Tesco on SCADA upgrade.

**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 - 2024**

<b>System Demands**</b>													
AF/Day	3.1												3.1
Daily Average, CFS	1.5												1.5
<b>Other Water Deliveries/Purchases</b>													
Ridgeline (DWTP Delivery)	0.0												0.0
El Toro (Interconnection Purchase)	0.0												0.0
Baker WTP (CSC Delivery)	89.1												89.1
Portola Hills (Wholesale Purchase)	8.5												8.5
Skyridge (Wholesale Purchase)	1.7												1.7
* Usage estimated													
** Excludes Operational use, losses, and supplement to Recycled Water Reservoir (RW)													

**TRABUCO CANYON WATER DISTRICT  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | MARCH 6, 2024**

**OPERATIONAL MATTERS**

**ITEM 7: WASTEWATER SYSTEM UPDATES**

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

**Projects and Repairs**

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

1. Worked with Ferreira Construction to install station bypass at Via Allegre Sewer Lift Station.
2. Worked with TESCO Controls to complete PLC upgrades at Shadow Rock Pump Station, O’Neill Sewer Lift Station, and Plano Sewer Lift Station.
3. Completed the requested inspection of select sewer manhole lids in the Dove Canyon community.
4. Backflushed the Dove Lake pump pipeline in preparation for increased recycled water demands for Spring.

**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:*

<b>Sewer System Management Plan (SSMP) Monthly Update</b>	
Total Sewer Line, Feet*	212,045
<b>Total Sewer Line Cleaned (Ft) – Month</b>	<b>10,200</b>
Total Sewer Line Cleaned (Ft) – Cleaning Cycle	20,600
Cleaning Cycle Period (Mos.) [Start date: 1/1/24]	1
<b>Total Sewer Line Cleaned, %</b>	<b>9%</b>
The Oaks at Trabuco – Pumping Frequency for the Month	12
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

**CONTACTS (staff responsible): PEREA/ULLOA**

**TRABUCO CANYON WATER DISTRICT | RECYCLED WATER SYSTEM SUMMARY - 2024**

<b>RECYCLED WATER SUPPLY</b>															
	MAX	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
WWTP Reclaimed Water Production, AF	78.3	39.4												39.4	517.2
Reclaimed Reservoir Level, FT	1274.5	1,272.8												-	-
Reclaimed Reservoir Free Board, FT	25.5	1.7												-	-
Reclaimed Reservoir Storage, AF	145.5	134.3												-	-
Supplemental Domestic Water Added, AF	N/A	0.0												0.0	5.2

<b>RECYCLED WATER SYSTEM DEMAND</b>															
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	0.00												0.00	0.0%
Dove Canyon Golf Course	106.7	0.54												0.54	0.5%
Dove Canyon Master Association	279.3	0.90												0.90	0.3%
Robinson Ranch	80.2	0.78												0.78	1.0%
Trabuco Highlands	159.7	1.97												1.97	1.2%
City of RSM	0.1	0.03												0.03	26.2%
Construction Water	N/A	0.00												0.00	N/A
Sakaida Nursery	1.1	0.00												0.00	0.0%
SMWD	N/A	-												0.00	N/A
TY Nursery	17.9	0.00												0.00	0.0%
<b>TOTAL, AF</b>	<b>653.2</b>	<b>4.2</b>	<b>0.0</b>	<b>4.22</b>	<b>0.6%</b>										
<b>PERCENTAGE OF NDW ALLOCATION/YEAR</b>		<b>0.6%</b>													
<b>TOTAL ANNUAL AVG. NDW AVAILABLE**</b>	<b>774.36</b>														

<b>URBAN RUNOFF CAPTURE AND REUSE</b>															
DISTRICT FACILITY		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	FIVE YEAR AVG
Shadow Rock Detention Basin Production		0.06												0.06	14.2
Dove   Tick Creek Production*	<i>Dry Season</i>	4.9												4.9	43.5
	TCWD Portion	4.9												4.9	-
	SMWD Portion	0.0												0.0	-
Dove Lake Water Pumped		0.0												0.0	183.0
Dove Lake Free Board, Ft		0.0												-	-
Dove Lake Storage, AF		331.0												-	-
Total Rainfall, In.		4.7												4.7	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  
ENGINEERING/OPERATIONAL COMMITTEE MEETING | MARCH 6, 2024**

**OPERATIONAL MATTERS**

**ITEM 8: MAINTENANCE DEPARTMENT UPDATES**

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The following is a brief report of work completed by Maintenance staff through **February 2024**

**Projects and Repairs**

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

**Water Operations**

1. Ordered and received one new Rotron Blower for DWTP filters
2. Prepared Topanga BPS for the installation of new Automatic Transfer Switch (ATS) with Duthie Power
3. Ordered new mag-flow meter for installation at Topanga BPS
4. Replaced doorknob at Larchmont Booster Pump Station

**Wastewater Operations**

1. Worked with Operations and Ferreira Construction to install station bypass at Via Allegre SLS
2. Delivered new surge tank to Golf Club Sewer Lift Station for contractor PachHydro and attended meeting for surge tank cut-over plan.
3. Prepared Plano SLS for SCADA System upgrade with TESCO Controls
4. Assisted Hydrotech Electric at O'Neill SLS and Plano SLS for SCADA System upgrade with TESCO Controls
5. Prepared/Cleaned WWTP for visit/inspection with Assemblywoman Kate Sanchez
6. Worked with SMWD to bypass El Toro SLS for planned work at their SLS downstream at Alicia Parkway.

**District Fleet Upgrades & Other Projects**

1. Submitted HAZMAT Business Plan to OC Health Department
2. Performed oil change and inspection on vehicles no. 15 & 19
3. Prepared District Fleet for heavy rain events throughout the month.
4. Cleaned and cleared access roads with skiploader

**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 | MARCH 6, 2024**

**REGULATORY AND OTHER MATTERS  
ITEM 9: OTHER MATTERS/REPORTS**

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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**