

**AGENDA FOR A MEETING OF THE
ENGINEERING/EQUIPMENT COMMITTEE
OF THE VALLECITOS WATER DISTRICT
MONDAY, MAY 10, 2021 AT 3:00 P.M.
VIA TELECONFERENCE**

Due to the evolving situation with the COVID-19 Novel Coronavirus, so long as state or local public health officials have imposed or recommended social distancing measures Vallecitos Water District will hold future meetings via teleconferencing and allow members of the public to observe and address the meeting telephonically or otherwise electronically. During this period of time, Vallecitos Water District will not be making any physical location available for members of the public to observe the meeting and offer public comment. The public is encouraged to watch and participate in the meeting from the safety of their homes. The meeting can be viewed on the agenda page located on the main page of the District's website. Public comments or questions can be submitted to the following email address: PublicComment@vwd.org. All written comments that are received at least 90 minutes before the meeting will be provided to the Committee members, and a record of the receipt of comment will be noted during the meeting. Members of the public viewing the meeting via the Zoom videoconferencing platform can express their desire to provide input at the appropriate time by utilizing the "Raise Hand" function. Additional instructions for online participation will be posted on the District's website. www.vwd.org/meetings

CALL TO ORDER - DIRECTOR ELITHARP

ITEM(S) FOR DISCUSSION

1. PROPOSED CHANGE ORDER II FOR SAN MARCOS INTERCEPTOR PHASE II PROJECT
2. LAS POSAS WATERLINE REPLACEMENT PROJECT UPDATE
3. AN OVERVIEW OF VWD'S GEOGRAPHICAL INFORMATION SYSTEM
4. SUNRISE ORIX DEVELOPMENT DISCUSSION
5. URBAN WATER MANAGEMENT PLAN

OTHER BUSINESS

PUBLIC COMMENT

Persons wishing to address a matter not on the Agenda may be heard at this time; however, no action will be taken until the matter is placed on a future agenda in accordance with Board policy. Public comments are limited to three minutes. A Request to Speak form is required to be submitted to the Executive Secretary prior to the start of the meeting, if possible. Public comment should start by stating name, address, and topic. The Board is not permitted during this time to enter into a dialogue with the speaker.

If you have any disability which would require accommodation in order to enable you to participate in this meeting, please call the Executive Secretary at 760.744.0460 ext. 264 at least 48 hours prior to the meeting.

AFFIDAVIT OF POSTING

I, Diane Posvar, Executive Secretary of the Vallecitos Water District, hereby certify that I caused the posting of this Agenda in the outside display case at the District office, 201 Vallecitos de Oro, San Marcos, California by 3:00 p.m., Friday, May 7, 2021.

Diane Posvar

Diane Posvar

DATE: MAY 10, 2021
TO: ENGINEERING & EQUIPMENT COMMITTEE
SUBJECT: CHANGE ORDER 2 FOR THE SAN MARCOS INTERCEPTOR PROJECT, PHASE 2

BACKGROUND:

The San Marcos Interceptor Project consists of replacing the existing 1960's era 21-inch diameter sewer interceptor with approximately 12,200-feet of 42-inch diameter sewer pipeline between Twin Oaks Valley Road and Pacific Street. The project was identified in the 1991 Master Plan and initially approved in the District's 1999/2000 Budget. The project has been phased to correspond to City of San Marcos (City) initiated development of the Creek District, with the following portions completed:

- 2002 - portion behind the Creekside Marketplace from SR-78 to Grand Avenue.
- 2005 - experimental pipe-bursting section from Twin Oaks Valley Road to east of Johnston Lane.
- 2013 - Phase 1A from Grand Avenue to Via Vera Cruz.
- 2014 - Phase 1 from east of Johnston Lane to the south side of SR-78.

Phase 2, extending from Via Vera Cruz to Pacific Street, will complete the remaining 3,400-feet of the project corridor. This project has been identified in the CIP Master Plan as CIP SP-11.

DISCUSSION:

The Board of Directors approved a construction contract with TC Construction (TC) for the San Marcos Interceptor Phase 2 Project in the amount of \$6,310,315 on June 17, 2020.

Over the course of construction between July 2020 to January 2021, the District authorized night work for the highly impacted areas of work in San Marcos Blvd between Pacific Street and Tamarisk Lane. Additional unforeseen underground utilities delayed the progress of construction approximately two months due to required sewer pipeline on San Marcos Blvd. and Pacific St. tunnel alignment redesign and approvals.

Staff received Proposed Change Order No. 1 from TC in the amount of \$310,916 in December 2021. Staff reviewed Proposed Change Order No. 1 for content and completeness for the additional work related to the San Marcos Blvd. alignment redesign and other less significant extra work items associated with the proposed small diameter water and sewer improvements. Upon completion of extra work negotiations and revisions, staff authorized Change Order No. 1 in the amount of \$259,654 on January 14, 2021 which totals 4.1% of the original contract value. Per VWD Ordinance 146, the project budget was allocated a 5.0% contingency and the remaining contingency available after Change Order No. 1 was \$55,862. Any change order above this amount would require Board authorization.

Between the months of January and April, TC crews installed 42" diameter sewer interceptor in San Marcos Blvd. from the downstream connection at the tunnel in Pacific St. to Tamarisk Lane. The sewer alignment was offset toward the curb line in San Marcos Blvd approximately 6-feet from its original horizontal alignment due to a vertical elevation conflict with an existing 14" water transmission main. The horizontal offset of the proposed interceptor alignment created an unforeseen condition in the trench. The roadway fill material encountered under the pavement subgrade at this location was of poor composition and prone to caving. The construction manager identified a seam in the roadway backfill in the No. 1 Eastbound travel lane of San Marcos Blvd. which is presumably where the roadway was widened during past City improvements.

The seam at the roadway backfill transition opened a crack in the existing pavement during the work which ran parallel with the sewer alignment in San Marcos Blvd. The crack was observed to be crack-sealed prior to pre-construction in video review and confirmation. The north side of the trench wall would collapse regularly. The contractor attempted various means and methods to prevent the collapse of the trench wall including excavating in trench boxes, excavating smaller sets, and setting steel plate shoring, none of which prevented the instability of the north trench wall face. Inspectors observed the trench wall composition changed and did not collapse at the seam/crack. The construction means and methods by the Contractor were not a factor in creating the unforeseen condition. The backfill seam and resulting asphalt pavement crack beyond the sewer trench limits in San Marcos Blvd. are illustrated in Figure 1.

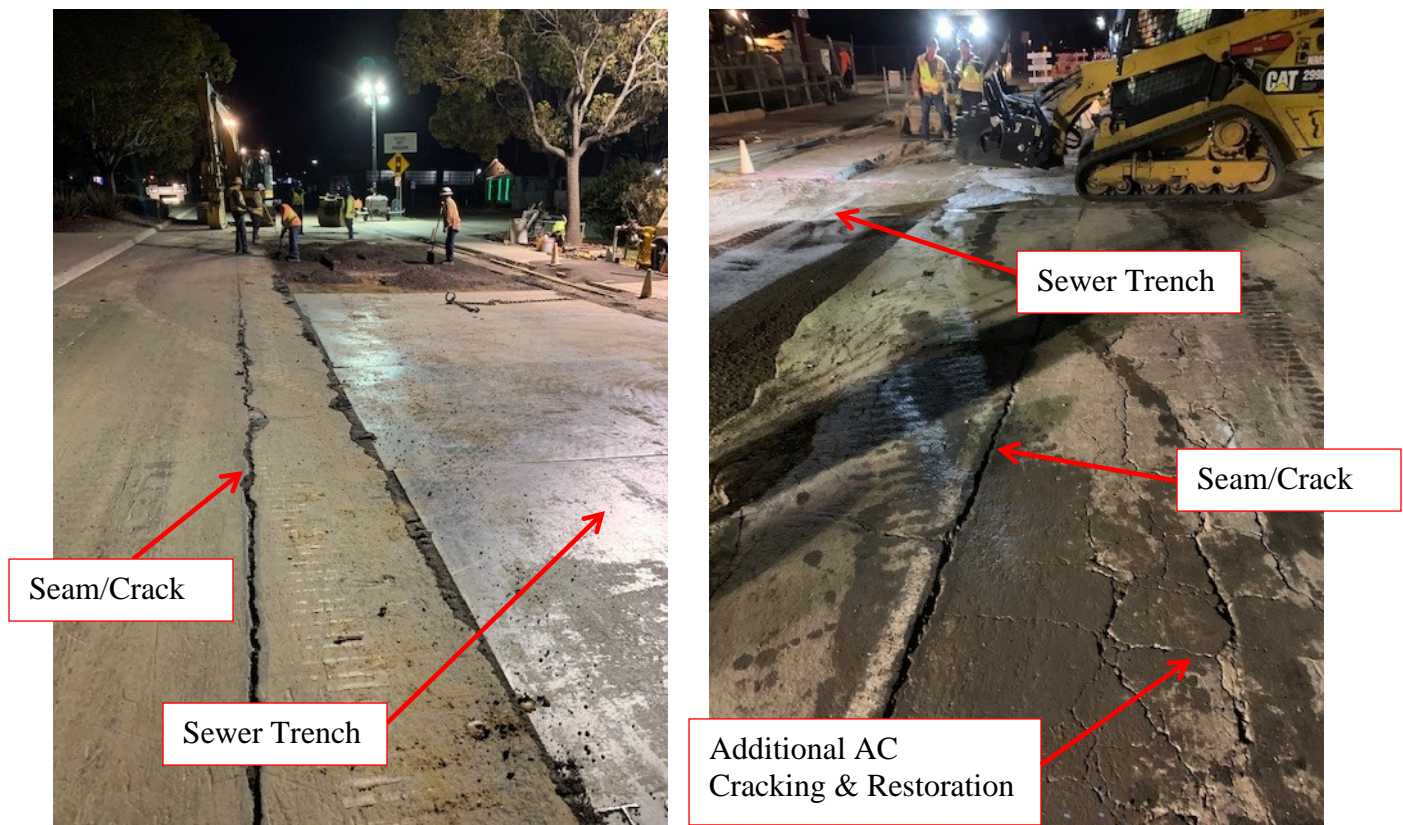


Figure 1 – San Marcos Blvd. Asphalt Pavement Crack

Additionally, the project encountered unforeseen asphalt concrete paving restoration needs at locations where extra water valve replacements were needed for isolation to safely install the interceptor sewer. Less significant additional roadway repairs to San Marcos Blvd. were also requested and negotiated between the District and the City of San Marcos near the intersection of Pacific St. Due to the unforeseen factors related to poor trench soils/caving and District-initiated asphalt paving restoration work in San Marcos Blvd, TC exceeded the bid amount of AC pavement restoration in the contract.

Staff received Proposed Change Order No. 2 from TC in the **amount of \$136,000** in May. Staff reviewed Proposed Change Order No. 2 for content and completeness for the additional materials and labor related to the additional asphalt pavement restoration work on San Marcos Blvd. Change Order No. 2 totals **2.1%** of the original contract value which exceeds the 5% budget contingency per Ordinance 146. Change Orders No. 1 and No. 2 combine to total **6.2%** of the original contract value.

FISCAL IMPACT:

The project is identified in the FY 20/21 Budget with a budget amount of \$8,500,000. The project funding sources are divided 29% from Sewer Replacement and 71% from Sewer Capacity funds. The total estimated cost and budget summary are as follows:

Budget	\$8,500,000
Construction	\$6,310,315
Change Order #1	\$ 259,654
Change Order #2	\$ 136,000
Planning, Design, and Environmental (K/J)	\$ 484,195
Staff & Overhead: Planning, Design, ROW Acquisition, And Environmental Services	\$ 385,000
Bid and Construction Phase Services (K/J)	\$ 87,138
CM&I (VCM)	\$ 636,174
<u>Staff & Overhead: Construction Phase</u>	<u>\$ 200,000</u>
Total	\$8,498,476
Budget Surplus	\$ 1,524

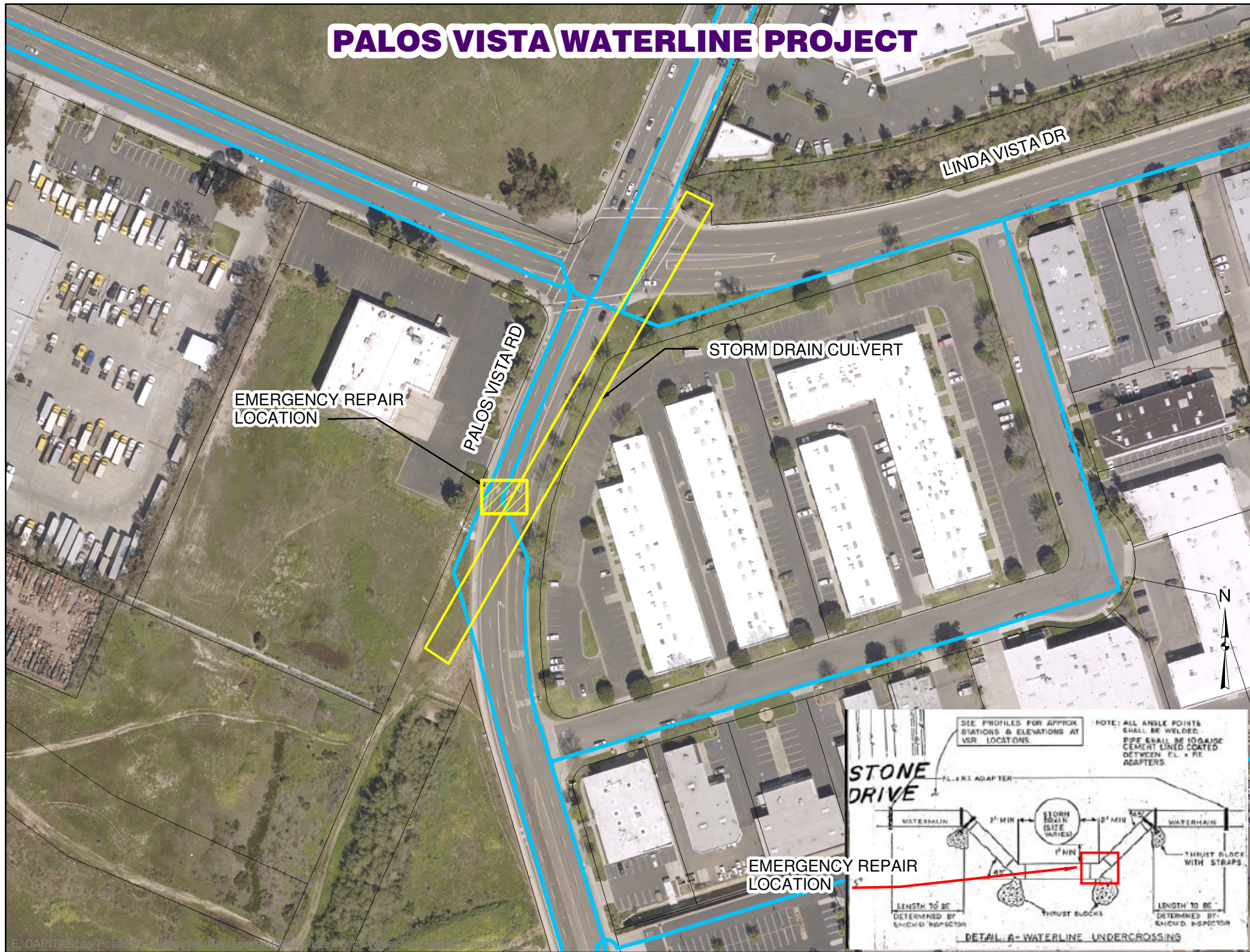
RECOMMENDATION:

Staff is seeking Engineering and Equipment Committee support to the Board of Directors for authorization of Change Order No. 2 in the amount of **\$136,000**, subject to the terms of the contract for the San Marcos Interceptor Phase II Project

ATTACHMENTS:

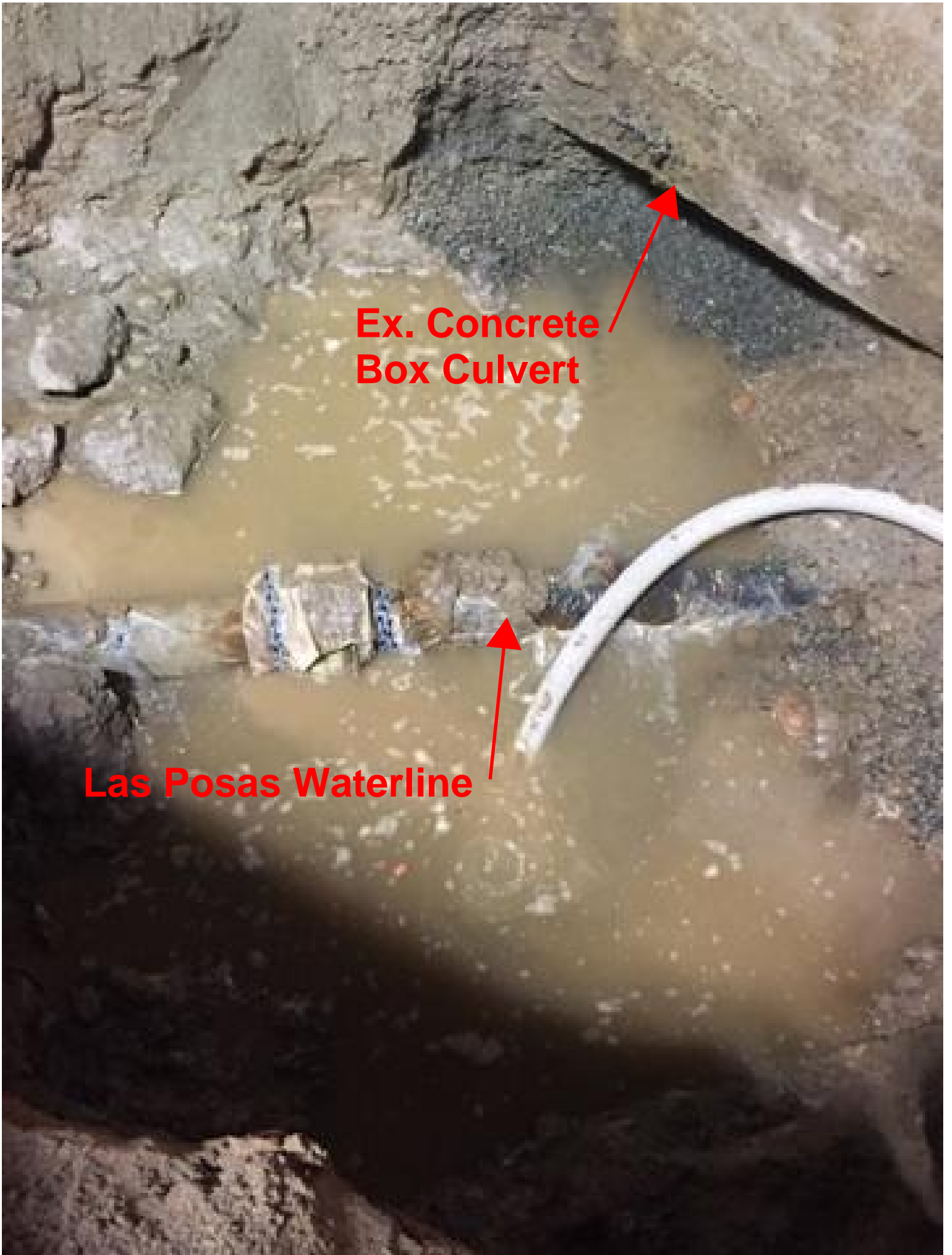
Plat/Aerial

PALOS VISTA WATERLINE PROJECT





**Las Posas
Waterline Repair**



**Ex. Concrete
Box Culvert**

Las Posas Waterline

SUNRISE - ORIX SEWER EXTENSION

