

Pacheco Pumping Plant Priority 1 Fire Alarm and Suppression System Improvements

Engineer's Report



April 2019

Water Utility Capital Division



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PACHECO PUMPING PLANT PRIORITY 1 FIRE ALARM AND SUPPRESSION SYSTEM IMPROVEMENTS

PROJECT NO. 91214010

ENGINEER'S REPORT

Prepared By:

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Under the Direction of:

Emmanuel Aryee, P.E.
Engineering Unit Manager

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Deputy Operating Officer

Nina Hawk
Chief Operating Officer

Norma Camacho
Chief Executive Officer

The Engineer's Report has been prepared under the direct supervision of the undersigned, who hereby certifies that he is a Registered Civil Engineer in the State of California



April 2019

DISTRICT BOARD OF DIRECTORS

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**Attachment 4
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1. PROJECT DESCRIPTION

This project plans, designs, and constructs a new fire alarm and fire suppression system for the main facility building at the Pacheco Pumping Plant, Dinosaur Point, Merced County, CA. The project will include installation of a clean agent fire suppression system to work in conjunction with the existing water-based system. Major project features include the installation of a VESDA (Very Early Smoke Detection Apparatus) smoke detection system; replacement of the existing underfloor smoke detectors; installation or replacement of manual pull stations and heat detectors; installation of a new fire department standpipe connection; and retrofitting the fire hose nozzles.

The objective of the project is to reduce the risk of pumping plant shutdown due to fire damages.

2. ZONE BENEFITS

The proposed Project work will benefit the customers of Zone W-2 (North County) and Zone W-5 (South County).

3. PROJECT RIGHT OF WAY

The proposed Project would be constructed on District property. The Project would require a permit from the United States Bureau of Reclamation (USBR).

4. MAPS AND FIGURES

Figure 1 - Project Location Map

5. PROJECT COSTS

The estimated cost to design and construct the proposed Project is \$1,920,000 (2019 dollars). The proposed Project would be funded by the Water Enterprise Fund; a total of 20.8% cost will be allocated to Zone W-5 (South County) and the remaining 79.2% will be funded by Zone W-2 (North County).

6. PROJECT SCHEDULE

- Advertise for construction bids: July 2019
- Award construction contract: September 2019
- Complete construction: May 2020

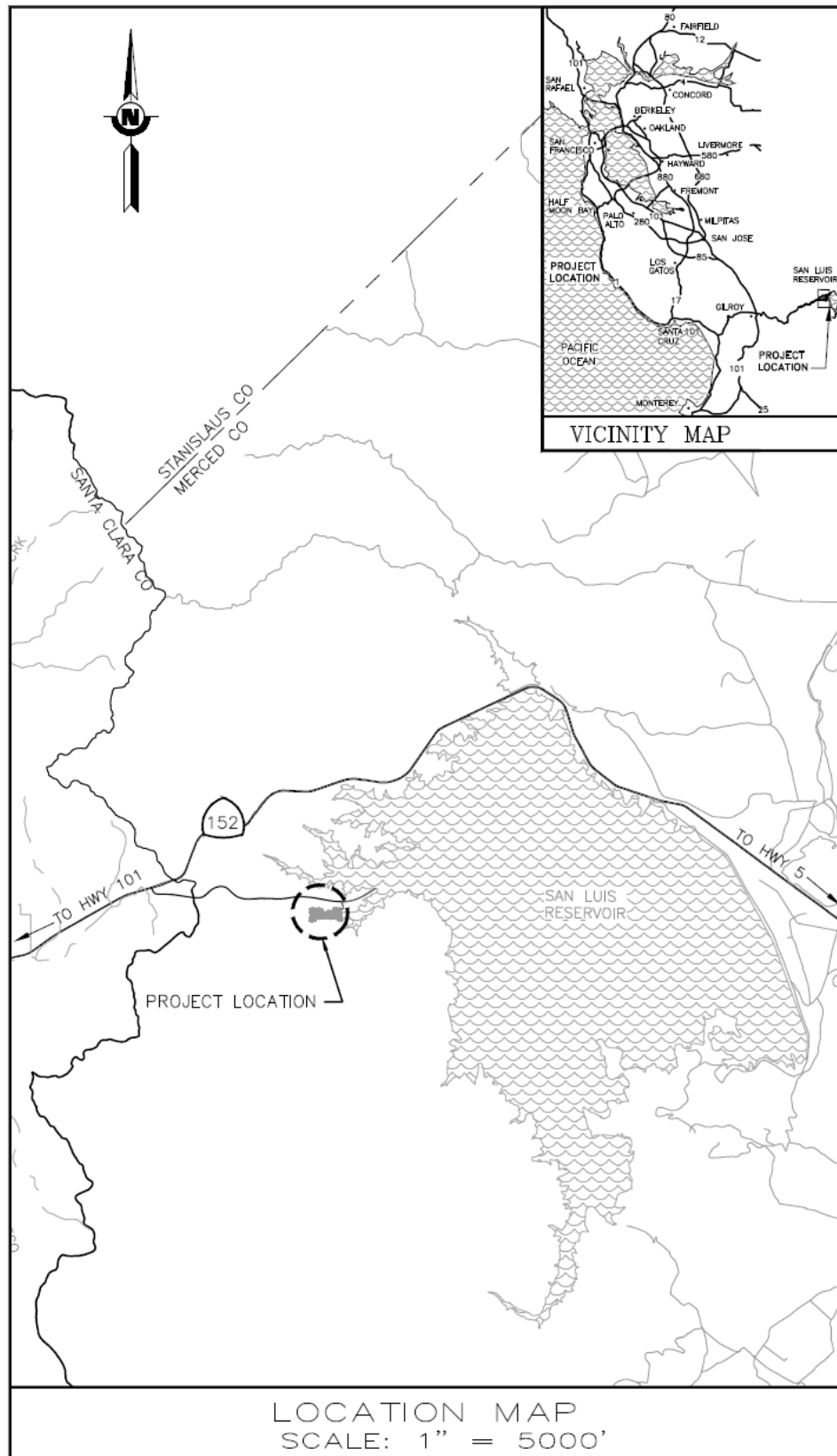


Figure 1 - Project Location Map