



FALLBROOK PUBLIC UTILITY DISTRICT  
MEETING OF THE ENGINEERING & OPERATIONS COMMITTEE

AGENDA

**PURSUANT TO WAIVERS TO CERTAIN BROWN ACT PROVISIONS UNDER EXECUTIVE ORDERS ISSUED BY GOVERNOR NEWSOM RELATED TO THE COVID-19 STATE OF EMERGENCY, THIS MEETING WILL BE CONDUCTED VIA TELECONFERENCE USING THE BELOW INFORMATION, AND THERE WILL BE NO PHYSICAL LOCATION FROM WHICH MEMBERS OF THE PUBLIC MAY PARTICIPATE.**

**INSTEAD MEMBERS OF THE PUBLIC ARE ENCOURAGED TO PARTICIPATE IN THE COMMITTEE MEETING VIA TELECONFERENCE USING THE BELOW CALL-IN AND WEBLINK INFORMATION**

**MEMBERS OF THE PUBLIC MAY ALSO SUBMIT PUBLIC COMMENTS AND COMMENTS ON AGENDA ITEMS IN ADVANCE IN ONE OF THE FOLLOWING WAYS:**

- BY EMAILING TO OUR BOARD SECRETARY AT LECKERT@FPUD.COM
- BY MAILING TO THE DISTRICT OFFICES AT 990 E. MISSION RD., FALLBROOK, CA 92028
- BY DEPOSITING THEM IN THE DISTRICT’S PAYMENT DROP BOX LOCATED AT 990 E. MISSION RD., FALLBROOK, CA 92028

**ALL COMMENTS SUBMITTED BY WHAT EVER MEANS MUST BE RECEIVED AT LEAST ONE HOUR IN ADVANCE OF THE MEETING. ALL COMMENTS WILL BE READ TO THE BOARD DURING THE APPROPRIATE PORTION OF THE MEETING. PLEASE KEEP ANY WRITTEN COMMENTS TO 3 MINUTES. THESE PUBLIC COMMENT PROCEDURES SUPERSEDE THE DISTRICT’S STANDARD PUBLIC COMMENT POLICIES AND PROCEDURES TO THE CONTRARY.**

**AUDIO CALL-IN +1 (408) 418-9388  
ACCESS CODE 126 343 9105  
AUDIO PASSWORD 48386523**

<https://fallbrookpublicutilitydistrict.my.webex.com/fallbrookpublicutilitydistrict.my/j.php?MTID=mcb51871a00d5834f0b54583a61f575f9>

**THURSDAY, SEPTEMBER 17, 2020  
1:00 P.M.**

**FALLBROOK PUBLIC UTILITY DISTRICT  
990 E. MISSION RD., FALLBROOK, CA 92028  
PHONE: (760) 728-1125**

*If you have a disability and need an accommodation to participate in the meeting, please call the Secretary at (760) 999-2704 for assistance so the necessary arrangements can be made.*

**I. PRELIMINARY FUNCTIONS**

CALL TO ORDER / ROLL CALL

PUBLIC COMMENT

**II. ACTION / DISCUSSION------(ITEMS A – D)**

- A. WINTER HAVEN ROAD PIPELINE REPLACEMENT PROJECT
- B. SMRCUP PROFESSIONAL SERVICES AGREEMENT AMENDMENT
- C. COLLECTIONS CCTV MONITORING PROGRAM OVERVIEW
- D. POINT OF ENTRY UPGRADES

**III. ADJOURNMENT OF MEETING**

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**DECLARATION OF POSTING**

I, Lauren Eckert, Executive Assistant/Board Secretary of the Fallbrook Public Utility District, do hereby declare that I posted a copy of the foregoing agenda in the glass case at the entrance of the District Office located at 990 East Mission Road, Fallbrook, California, at least 72 hours prior to the meeting in accordance with Government Code § 54954.2.

I, Lauren Eckert, further declare under penalty of perjury and under the laws of the State of California that the foregoing is true and correct.

September 14, 2020  
Dated / Fallbrook, CA

/s/ Lauren Eckert  
Executive Assistant/Board Secretary

**M E M O**

**TO:** Engineering and Operations Committee  
**FROM:** Aaron Cook, Senior Engineer  
**DATE:** September 17, 2020  
**SUBJECT:** Winter Haven Road Pipeline Replacement Project

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Description

Request for authorization of change order costs related to the construction of the Winter Haven Road Pipeline Replacement Project and Notice of Completion for the project.

Purpose

As part of the District's pipeline and valve replacement program, the project replaced approximately 2,500 linear feet of aging water main and relocated it out of an inaccessible wooded area into the existing street. The project was awarded to the lowest responsible bidder, TK Construction, in December of 2019 for \$750,400.

The project was completed in August. Due to field changes and unforeseen conditions, additional costs were incurred during the pipeline installation. The total additional costs are shown in the attached Change Order #1. The costs were due to an alignment change to avoid existing obstructions, additional labor time required for a 16-inch tie in that was encased in concrete, and the addition of 3 drains to the new water main.

Budgetary Impact

There is no budgetary impact. The approved capital budget included \$860,000 for the construction of this project. The total change order costs are \$52,445.36 as shown on in the attachment, bringing the total contract amount with TK Construction to \$802,845.36. Internal staff costs for the project were \$46,121.32, so the combined total project costs were \$848,966.68.

Recommended Action

That the Committee recommend to the Board:

1. Approval of Change Order #1 for the Winter Haven Road Pipeline Replacement Project in the amount of \$52,445.36, increasing the total contract amount with TK Construction to \$802,845.36.
2. Staff authorization to file the attached Notice of Completion with the San Diego County Recorder.

## **Attachment A**

**CHANGE ORDER NUMBER 001**

**NAME OF PROJECT:** Winterhaven Pipeline Replacement

**CONTRACTOR:** TK Construction  
PO BOX 9608  
San Bernardino, CA 92427

Original CONTRACT AMOUNT .....	\$750,400.00
Previous CHANGE ORDERS .....	\$0.00
Current CONTRACT PRICE .....	\$750,400.00
Amount of this CHANGE ORDER .....	\$52,445.36
New CONTRACT PRICE .....	\$802,845.36
Original COMPLETION Date .....	August 3, 2020
Time ADDED due to Previous CHANGE ORDERS .....	0 CALENDAR DAYS
Time ADDED due to this CHANGE ORDER .....	10 CALENDAR DAYS
New FINAL COMPLETION Date .....	August 13, 2020

This Change Order constitutes full and final payment for all direct, indirect, and consequential costs, including but not limited to, all labor, design, equipment, material, mark-ups, and time associated with performing the work described herein. This document will become a supplement to the Contract and all Contract provisions will apply hereto. The Change Order will become effective when approved by the Fallbrook Public Utility District. By accepting this Change Order, the Contractor waives the right to make any additional claim for any item related to these changes.

The following changes are hereby made to the CONTRACT DOCUMENTS:

**Item 1 – 6” PVC alignment change**

Alignment of 6” PVC section was changed due to conflict with existing trees, sheds, and fences that were not shown on the contract drawings. The new alignment added two 45\* angles in the pipeline with thrust blocks.

CHANGE TO CONTRACT AMOUNT	\$5,457.51
TIME EXTENSION	1 calendar days

Perform all work in accordance with the Contract Documents.

**Item 2 – Existing pipe alignment and concrete thrust block**

Contractor removed large concrete thrust block at 16” tie-in point and had to modify tie-in alignment which required additional labor and welding.

CHANGE TO CONTRACT AMOUNT	\$26,676.38
TIME EXTENSION	4 calendar days

Perform all work in accordance with the Contract Documents.

**Item 3 – Concrete cap on shallow pipe**

Per District request, Contractor installed a concrete cap on 12” water main between STA. 14+61~15+99 and STA. 16+17~16+48 because of shallow depth of pipe at storm drain crossing.

CHANGE TO CONTRACT AMOUNT	\$12,318.72
TIME EXTENSION	2 calendar days

Perform all work in accordance with the Contract Documents.

**Item 4 – Install (2) 2” drains**

Per District request, Contractor added 2” drains at STA. 20+88 and 20+90 that were not shown on the contract drawings.

CHANGE TO CONTRACT AMOUNT	\$6,360.83
TIME EXTENSION	1 calendar days

Perform all work in accordance with the Contract Documents.

**Item 5 – Blind flange and 2” drain**

Per District request, Contractor welded on blind flange with 2” drain on Shadowcrest to abandoned existing 8” water main.

CHANGE TO CONTRACT AMOUNT	\$1,631.92
TIME EXTENSION	2 calendar days

Perform all work in accordance with the Contract Documents.

**CONTRACTOR: TK Construction**

**By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Name:**

**Title:**

**RECOMMENDATION AND CONCURRENCE**

**FALLBROOK PUBLIC UTILITY DISTRICT:**

**By:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Name: JACK BEBEE**

**Title: General Manager**

## **Attachment B**



**RECORDING REQUESTED BY:**  
Fallbrook Public Utility District

**AND WHEN RECORDED MAIL TO:**  
Fallbrook Public Utility District  
990 E. Mission Road  
Fallbrook CA 92028

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**NOTICE OF COMPLETION**

NOTICE IS HEREBY GIVEN THAT:

1. The undersigned is the owner of the interest or estate stated below in the property hereinafter described.
2. The full name of the undersigned is Fallbrook Public Utility District.
3. The full address of the undersigned is 990 E Mission Road, Fallbrook CA 92028.
4. The nature of the title of the undersigned is public utility district in fee.
5. The full names and full addresses of all persons, if any, who hold title with the undersigned as joint tenants or as tenants in common are:

<u>NAMES</u>	<u>ADDRESSES</u>
Fallbrook Public Utility District	990 E. Mission Rd, Fallbrook CA 92028

6. The names of the predecessors in interest of the undersigned, if the property was transferred subsequent to the commencement of the work of improvement herein referred to are (OR IF NO TRANSFER WAS MADE INSERT THE WORD "None")

<u>NAMES</u>	<u>ADDRESSES</u>
None	None

7. The work of improvement on the property hereinafter described was completed on **August 31, 2020**.
8. The name of the original contractor, if any, for the work of improvement was: **TK Construction**  
The kind of work done or material furnished was for the **Winter Haven Pipeline Replacement**.
9. The property on which the work of improvement was completed is in the unincorporated area of Fallbrook, county of San Diego, state of California, and is described as follows: **Winter Haven Road**
10. The street address of the said property is: **Winter Haven Road**

DATED: September 10, 2020

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Aaron Cook, Senior Engineer  
Fallbrook Public Utility District

**VERIFICATION**

I, the undersigned, say:

I am the person who signed the foregoing notice. I have read the above notice and know its contents, and the facts stated therein are true of my own knowledge.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on September 10, 2020, at Fallbrook, California.

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Signature

**M E M O**

**TO:** Engineering and Operations Committee  
**FROM:** Aaron Cook, Senior Engineer  
**DATE:** September 17, 2020  
**SUBJECT:** SMRCUP Professional Services Agreement Amendment

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Description

Request for authorization of an amendment to the professional services agreement with the SMRCUP design engineer for services during construction.

Purpose

As discussed with the Committee in the August meeting, the District has engaged multiple contractors and consultants to facilitate the construction of the SMRCUP Facilities. As part of this effort, a Professional Services Agreement was entered into with Infrastructure Engineering Corporation (IEC) in November of 2014 for design of the project. Part of the scope of the agreement at the time included Bid Phase Services and Design Services During Construction (DSDC), which were anticipated to be completed in 2016-2018. In addition to time delays due to finalization of the SMRCUP agreement, the scope of the construction phase services at the time the agreement was initiated did not encompass the level of effort that has been required. The construction is nearing 50% completion, and is expected to be complete by November 2021. The scope changes include additional project management time, additional bid phase services, and additional DSDC, outlined as follows:

Task	2014 Scope	Revised Scope
Bid Phase	Respond to Questions and Prepare 3 Addendums	Responded to 343 Questions and Prepared 6 Addendums
DSDC – Respond to Requests for Information	200 RFIs	341 RFIs
DSDC – Prepare Design Changes	20 Design Changes	25 Design Changes
DSDC – Submittal Review	200 Submittals	480 Submittals

The bid phase was completed in July 2019 so the revised scope covers the actual level of effort required at that time. As of August 2020, the design engineer has responded to 277 RFIs, prepared 18 Design Changes, and reviewed 396 submittals. The revised scope provides \$733,655 of additional funds to cover the additional work to date and a portion of the anticipated work required to complete the project over the next 14 months. Rather than attempt to anticipate the level of effort needed to complete the rest of the project, this amendment will provide funds to continue the work, but deliberately keep the professional services agreement budget tight to encourage efficiency from the

design engineer. However, additional funds may be needed before the end of the project to complete the effort.

#### Budgetary Impact

No budgetary impact at this time. The additional \$733,655 brings the Professional Services Agreement with IEC to a total of \$4,712,557. As discussed previously, these changes would be covered within the \$5,440,000 contingency of the SRF Loan Agreement as planned. However, the addition of GAC treatment, as presented to the board in January of 2020, is estimated to cost between \$4M and \$5M, which will use the majority of the construction contingency (Note that staff continue to seek grant funding opportunities to offset some of the GAC treatment cost). Staff will also be seeking an amendment to the existing Local Resources Program (LRP) Agreement with MWD to help offset the additional capital and operating costs for the GAC treatment.

The GAC treatment design is approximately 75% complete. Once complete and bids received, staff will know with more certainty how much of the contingency will be needed to cover these costs. If an amendment to the SRF Loan Agreement is needed, the review process with the State DWR takes up to six months and should be initiated well in advance of needing the funds. If a future amendment to the SRF Loan Agreement increasing the total loan amount is needed, it would result in increased payment installments, which may be offset by any additional grant funding and LRP payments. Once the final GAC capital and operating costs are known an update on the anticipated costs will be provided.

#### Recommended Action

That the Committee recommend to the Board approval of a contract amendment with Infrastructure Engineering Corporation for a not to exceed amount of \$733,655 to continue providing Design Services During Construction for the Santa Margarita Conjunctive Use Project.

**Professional Services Contract  
Amendment No. 4**

The following amends the contract between the FALLBROOK PUBLIC UTILITY DISTRICT (FPUD), a local public agency and Infrastructure Engineering Corporation, dated November 22, 2014.

**Scope of Services:**

This amendment modifies the original contract by modifying the following tasks in Attachment A:

- Task 100C – Project Management (Tasks 400 and 500)
- Task 400 – Bid Phase Services
- Task 500 – Design Services During Construction
  - Respond to Requests for Information (Assume 341 Total)
  - Preparation of Design Changes (Assume 25 Total)
  - Submittal Reviews (Assume 480 Total)

**Fee Schedule:**

This amendment adds the following additional Fee schedule breakdown in Attachment B for Task 300:

Item	Additional Effort (\$)
Task 100C – Project Management (Tasks 400 and 500)	\$86,000
Task 400 – Bid Phase Services	\$83,285
Task 500 – Design Services During Construction	
• Respond to Requests for Information (Assume 341 Total)	\$70,020
• Preparation of Design Changes (Assume 25 Total)	\$109,320
• Submittal Reviews (Assume 480 Total)	\$385,040
<b>Total</b>	<b>\$733,655</b>

**Budget:**

This amendment increases the budget by \$733,655 from \$3,978,902 to \$4,712,557.

**Signatures:**

The individuals executing this contract represent and warrant that they have legal capacity and authority to do so on behalf of their respective legal entities.

IN WITNESS WHEREOF, the parties have executed this contract amendment on the following date.

DATED: \_\_\_\_\_, 2020

Fallbrook Public Utility District

By: \_\_\_\_\_

Jack Bebee, General Manager

Infrastructure Engineering Corporation

By: \_\_\_\_\_

Rob Weber, President

**M E M O**

**TO:** Engineering and Operations Committee  
**FROM:** Aaron Cook, Senior Engineer  
**DATE:** September 17, 2020  
**SUBJECT:** Collections CCTV Monitoring Program Overview

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Description

Overview of the collection system CCTV monitoring program and planned upgrades to enhance functionality with CityWorks, the District’s new CMMS program.

Purpose

To properly monitor the condition of the collections system, and to comply with state law, the District’s Sewer System Management Plan (SSMP) includes a goal to inspect 75,000 linear feet of sewer main each year, so that the entire system is reviewed every six to seven years. The District performs this effort in house, using a CCTV van and records the video inspections using a program called GranitNet. Each sewer main is assigned a standardized score based on its condition and, when needed, repairs are made. The records are also used for long term capital maintenance planning.

The current program has limited capabilities for transferring the collected information into the District’s GIS system and is not compatible with CityWorks. Staff are currently considering two options to upgrade the program:

1. Purchase additional modules offered by GraniteNET that enable these capabilities.
2. Switch to an alternative program, WinCan, with the needed GIS and CityWorks compatible capabilities.

Budgetary Impact

No Budgetary impact. The capital budget for Fiscal Year 2020/2021 included \$30,000 allocated towards CCTV program updates to enable GIS and CityWorks compatibility.

Recommended Action

For information only; no action required.

## M E M O

**TO:** Engineering and Operations Committee  
**FROM:** Kevin Collins, Purchasing/Warehouse Supervisor  
**DATE:** September 17, 2020  
**SUBJECT:** Point of Entry Upgrades

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Description

This request to the Engineering & Operations Committee to recommend authorizing award for door and gate point of entry (POE) upgrades to Doors & Windows West.

Purpose

For nearly 20 years, FPUD has utilized a POE security called CyberKey. The CyberKey system enables staff to enter secured locations throughout the District.

While once a cutting edge technology, the system has aged, and failures of CyberKeys and locks have increased, while costs to keep the hardware working have increased exponentially. In addition to key and lock failures, the CyberKey software requires a complete update.

In January 2020, FPUD staff researched alternate POE security systems, with the main requirement that they have a self-contained power source since most door jambs throughout the District are not powered. This eliminates the cost to run electrical or Ethernet drops to each POE to enable compatibility with most modern systems that require a power feed. After meeting with CyberKey and AlarmLock representatives, the two product options staff were able identify, staff determined AlarmLock products would best meet all of the District's POE security system goals. The primary goals are: single system to manage all POE access rights (the UV Plant is not on CyberKey); limit the cost by not retrofitting all doors with power; implement a photo ID FPUD card to all staff; and install a reliable and low maintenance system. By allowing remote locking of doors through AlarmLock's software, staff are able to ensure exterior entrances are secured, eliminating any potential door being left unlocked due to human error. Any added safety measures help protect hundreds of thousands of dollars of FPUD owned materials including, but not limited to, electronics, tools, raw metals, and inventory items.

AlarmLock gave FPUD Purchasing staff a pre-select list of qualified installers. Of those installers, three attended the mandatory job walk on 8/12/2020, and two submitted bids, with the lowest responsive and responsible bid submitted by Doors & Windows West in the amount of \$118,278.00.

Budgetary Impact

For fiscal year 2020-21, FPUD staff budgeted a total of \$145,000 for Building Upgrades. After this project is completed, a total of \$26,722 will remain.

Recommended Action

That the Engineering and Operations Committee recommends to the Board of Directors that they approve award for door and gate POE upgrades to Doors & Windows West in the amount of \$118,278.00.