



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 126 031 1248
AUDIO PASSWORD 52783933

<https://fallbrookpublicutilitydistrict.my.webex.com/fallbrookpublicutilitydistrict.my/j.php?MTID=m6974ba5474c12803c81a565483d63f35>

TUESDAY, JULY 7, 2020
10:00 A.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 – E)

- A. OVERLAND TRAIL LIFT STATION CHANGE ORDER
- B. CITYWORKS ENTERPRISE ASSET MANAGEMENT IMPLEMENTATION UPDATE
- C. PURCHASE OF BACKFLOW DEVICES AND WATER METERS
- D. BACKFLOW PROGRAM UPDATES
- E. ENGINEERING & OPERATIONS KPI UPDATE

III. ADJOURNMENT OF MEETING

* * * * *

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.

July 2, 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: July 7, 2020
SUBJECT: Overland Trail Lift Station Rehabilitation Project Change Order

Description

Per Administrative Code Section 14.13, request for Board authorization to approve contract amendments for up to 10% of the contract value for the Overland Trail Lift Station Rehabilitation Project (OTLS).

Purpose

As part of the District's capital improvement program, the District is improving the reliability of the sewer collections system through strategic rehabilitation of existing infrastructure. This project was awarded to Pacific Hydrotech in December 2019 with a contract value of \$2,490,150. The work consists of the rehabilitation of the existing Overland Trail Lift Station and the demolition of the Anthony's Corner Lift Station. The capacity at Overland Trail will be increased to handle flows currently handled at Anthony's corner, which will enable the two existing lift stations to be consolidated into a single lift station. The rehabilitation generally includes replacement of pumps, electrical and controls equipment, and backup generator, expansion of the existing wet well, and modifications to the existing controls building. The facilities were originally built in the early 1960's and have been modified and repurposed multiple times since then, which has resulted in a congested site with unforeseen field conditions. To address some of these changed conditions, an initial change order was processed on May 18, 2020 for a total value of \$13,182.48. Since that time, \$40,845.87 of additional cost due to changes has occurred. These changes have been captured in two change orders, both attached as exhibits. To date, the project is approximately 35% complete. Going forward, it is anticipated that additional conflicts will be encountered in the field, which will require authorization to approve additional change orders. Section 14.13 of the Administrative Code states:

The General Manager may request approval authority from the Board to issue contract amendments for up to 10% of the total contract value for specific projects with an initial contract value of greater than \$45,000.

This provision is intended for projects like OTLS where the contractor is likely to encounter extensive unforeseen conditions. With this authorization, change orders within the set limit can be processed by staff on a more timely basis.

Budgetary Impact

No budgetary impact is anticipated. The total approved construction budget for the project is \$3,000,000. Total additional costs due to changed conditions encountered to date are approximately \$54,000 or 2.2% of the contract value. Total changes are anticipated to be less than 4% (approximately \$100,000) at project completion. Including these additional costs, the project is expected to be completed within budget.

Construction Contract Value	\$2,490,150
Change Order 1	\$13,182.48
Change Order 2	\$40,845.87
Total (as of 7/1/2020)	\$2,544,178.35

Recommended Action

That the Committee recommend to the Board:

1. Approval of Change Order 1 for \$13,182.48 – see attached exhibit
2. Approval of Change Order 2 for \$40,845.87 – see attached exhibit
3. Authorization of General Manager approval authority to issue additional contract amendments as needed up to 10% of the total contract value for the Overland Trail Lift Station Rehabilitation Project.

Exhibit A

CHANGE ORDER NUMBER 001

NAME OF PROJECT: Overland Trail Lift Station Rehabilitation Project

CONTRACTOR: Pacific Hydrotech Corporation
314 E. 3rd St.
Perris, CA 92570

Original CONTRACT AMOUNT	\$2,490,150.00
Previous CHANGE ORDERS	\$0.00
Current CONTRACT PRICE	\$2,490,150.00
Amount of this CHANGE ORDER	\$13,182.48
New CONTRACT PRICE	\$2,503,332.48
Original COMPLETION Date	November 1, 2020
Time ADDED due to Previous CHANGE ORDERS	0 CALENDAR DAYS
Time ADDED due to this CHANGE ORDER	31 CALENDAR DAYS
New FINAL COMPLETION Date	December 2, 2020

This Change Order constitutes full and final settlement 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: *(Issued 5-8-2020)*

Item 1 – Main Switchboard Breaker Upsize

General Decision Number: C1927 OTLS COR 001 Main Switchboard Breaker Upsize_2020-03-13 is incorporated into this Project.

This is Change Order Request 001 with reference to the Main Switchboard Breaker Upsize. The engineer’s response to submittal 046 “Switchboard” requested that the 30 KAIC breaker shown on drawing E-3 be upsized to 65KAIC.

CHANGE TO CONTRACT AMOUNT	\$4,027.89
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

Item 2 – Retaining Wall Extension (reduction in footing width)

General Decision Number: C1927 OTLS COR 002 Extend Retaining Wall_2020-05-05 is incorporated into this Project.

This is the Revised Change Order Request 002 to Extend the Retaining Wall. The engineer's response to RFI 006 requested a proposal to replace an existing CMU retaining wall section with a concrete retaining wall per SDRSD C-4, C-8 details. Price includes labor and dump fees for removal of existing wall and construction waste, along with all labor, equipment and material to construct new wall per attached drawing. Credit for FPUD revisions to (smaller) footing detail also included.

CHANGE TO CONTRACT AMOUNT	\$1,126.60
TIME EXTENSION	2 calendar days

Perform all work in accordance with the Contract Documents.

Item 3 – Upgrade BN sets to SST

General Decision Number: C1927 OTLS COR 003 Upgrade BN Sets to SST_2020-04-01 is incorporated into this Project.

This is Change Order Request 003 to Upgrade the Bolt & Nut Sets to T316 Stainless Steel. The engineer's response to Submittal 021 and RFI 017 requested that the above-ground bolt & nut sets be upgraded from A307 to T316 SST. The price includes the delta of material including anti-seize and taxes.

CHANGE TO CONTRACT AMOUNT	\$1,271.97
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

Item 4 – Muffin Monster Bracket credit

General Decision Number: C1927 OTLS COR 004 Muffin Monster Bracket CREDIT_2020-04-01 is incorporated into this Project.

This is Deductive Change Order Request 004 to delete the Muffin Monster Bracket from our material scope. The engineer's response to Submittal 065 stated that this bracket would be furnished by the owner.

CHANGE TO CONTRACT AMOUNT	\$-112.00
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

Item 5 – Storm Drain Pipe Upsize

General Decision Number: C1927 OTLS COR 005 Storm Drain Pipe Changes_2020-04-10 is incorporated into this Project.

This is our Change Order Request 005 for the Storm Drain Pipe changes. The engineer’s response to Submittal 029 requested that the pipe size be increased from 4” dia. To 8” dia., and the material upgraded from Sch. 40 PVC to SDR 26. The price includes the additional trenching, backfill, compaction and spoils.

CHANGE TO CONTRACT AMOUNT	\$1,984.16
TIME EXTENSION	1 calendar days

Perform all work in accordance with the Contract Documents.

Item 6 – Schedule Extension

General Decision Number: C1927 OTLS COR 006 Schedule Extension_2020-04-10 is incorporated into this Project.

This is Change Order Request 006 for a Schedule Extension. Per General Conditions Section 00700, Article 42, subsection C “Extension of Time”, Pacific Hydrotech Corporation has informed Fallbrook Public Utility District that the project schedule was impacted due to mechanical design changes affecting the sizes of pumps, piping and valves. The final approved pump submittal 047.1 was received on March 26, 2020 and released to the factory on March 27, 2020.

The contract completion date was November 1, 2020. After releasing the revised pumps into production on March 27, 2020, the pumps are projected to be delivered on August 21, 2020. This is a 28-calendar day impact to the schedule from the original delivery date of July 24, 2020. Our revised scheduled contract completion is now November 29, 2020.

CHANGE TO CONTRACT AMOUNT	\$0.00
TIME EXTENSION	28 calendar days

Perform all work in accordance with the Contract Documents.

Item 7 – Pressure Transmitter Changes

General Decision Number: C1927 OTLS COR 007 Pressure Transmitter Changes_2020-04-23 is incorporated into this Project.

This is Change Order Request 007 to meet the new requirements from the engineer’s response to RFI 020. The pressure switches have been upgraded to Ashcroft Pressure Switches DPDT and the quantities of the SST valves and diaphragm seals have increased.

CHANGE TO CONTRACT AMOUNT	\$4,883.86
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

CONTRACTOR: Pacific Hydrotech Corporation

Sign By: _____

Date: _____

Print Name: _____

Title: _____

RECOMMENDATION AND CONCURRENCE

FALLBROOK PUBLIC UTILITY DISTRICT:

Sign By: _____

Date: _____

Print Name: _____

Title: _____

Exhibit B

CHANGE ORDER NUMBER 002

NAME OF PROJECT: Overland Trail Lift Station Rehabilitation Project

CONTRACTOR: Pacific Hydrotech Corporation
314 E. 3rd St.
Perris, CA 92570

Original CONTRACT AMOUNT	\$2,490,150.00
Previous CHANGE ORDERS	\$13,182.48
Current CONTRACT PRICE	\$2,503,332.48.00
Amount of this CHANGE ORDER	\$40,845.87
New CONTRACT PRICE	\$2,544,178.35
Original COMPLETION Date	November 1, 2020
Time ADDED due to Previous CHANGE ORDERS.....	31 CALENDAR DAYS
Time ADDED due to this CHANGE ORDER	14 CALENDAR DAYS
New FINAL COMPLETION Date	December 16, 2020

This Change Order constitutes full and final settlement 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: *(Issued 5-8-2020)*

Item 1 – SCADA Changes

General Decision Number: C1927 OTLS COR 008 SCADA Changes is incorporated into this Project.

This is Change Order Request 008 with reference to additional instrumentation and corresponding conduit needed.

CHANGE TO CONTRACT AMOUNT	\$25,435.75
TIME EXTENSION	9 calendar days

Perform all work in accordance with the Contract Documents.

Item 2 – Handrail Gate

General Decision Number: C1927 OTLS COR 009 Added Handrail Gate is incorporated into this Project.

This is the Revised Change Order Request 009 to add a handrail gate at the influent channel for maintenance access.

CHANGE TO CONTRACT AMOUNT	\$793.53
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

Item 3 – VFD Timer Relay

General Decision Number: C1927 OTLS COR 010 VFD Timer Relay is incorporated into this Project.

This is Change Order Request 010 to add timer relays to the VFDs for control capabilities.

CHANGE TO CONTRACT AMOUNT	\$1,947.72
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

Item 4 – Electrical Conduit Changes at Grinders

General Decision Number: C1927 OTLS COR 011 Electrical Changes at Grinders is incorporated into this Project.

This is to reroute the electrical conduit at the influent channel and upsize the pull boxes to accommodate site conditions.

CHANGE TO CONTRACT AMOUNT	\$3,236.56
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

Item 5 – Unforeseen Underground Conflicts at Retaining Wall

General Decision Number: C1927 OTLS COR 012 Unforeseen UG Conflicts is incorporated into this Project.

This is to remove a buried concrete kicker for an abandoned pipeline that conflicted with the replacement retaining wall footing.

CHANGE TO CONTRACT AMOUNT	\$1,309.87
TIME EXTENSION	1 calendar days

Perform all work in accordance with the Contract Documents.

Item 6 – Roof Overhang Changes

General Decision Number: C1927 OTLS COR 013 Roof Overhang Changes is incorporated into this Project.

This is to modify the roof overhang on the south side of the controls building to improve maintenance access to the influent channel.

CHANGE TO CONTRACT AMOUNT	\$967.49
TIME EXTENSION	1 calendar days

Perform all work in accordance with the Contract Documents.

Item 7 – Replace Piping at Overflow Storage Clarifier

General Decision Number: C1927 OTLS COR 014 Replace Piping at Clarifier is incorporated into this Project.

This is to replace approximately 20 linear feet of pipe between the splitter box and the overflow storage clarifier. Existing pipe was in poor condition and had unnecessary fittings and dysfunctional valves. Includes demo and disposal of existing pipe and valves, trenching, bedding, new pipe, and backfill.

CHANGE TO CONTRACT AMOUNT	\$1,625.00
TIME EXTENSION	1 calendar days

Perform all work in accordance with the Contract Documents.

Item 8 – MaxAdapters for Bypass Line

General Decision Number: C1927 OTLS COR 015 MaxAdapters for Bypass Line is incorporated into this Project.

This is to upgrade (5) transition couplings to MaxAdapters, which will enable the bypass piping to be utilized as a long term feature of the lift station.

CHANGE TO CONTRACT AMOUNT	\$1,267.59
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

Item 9 – Unforeseen Underground Conflicts with Bypass Piping

General Decision Number: C1927 OTLS COR 017 Unforeseen Underground Conflicts on 5-21-2020 is incorporated into this Project.

This is for the removal of various underground conflicts discovered on May 27, 2020. These included an electrical encasement from the catch basin towards the clarifier, removal of concrete at the clarifier, miscellaneous conduits, and various abandoned piping.

CHANGE TO CONTRACT AMOUNT	\$6,044.27
TIME EXTENSION	2 calendar days

Perform all work in accordance with the Contract Documents.

Item 10 – Added Grounding

General Decision Number: C1927 OTLS COR 018 Added Grounding is incorporated into this Project.

This is to add ground wire to the duct bank, ground rods, and grounding in an underground pull box.

CHANGE TO CONTRACT AMOUNT	\$2,987.13
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

Item 11 – Mechanical Revisions CREDIT

General Decision Number: C1927 OTLS COR 019 Mechanical Revisions Credit is incorporated into this Project.

This is a credit for downsizing the pump suction and discharge piping and associated valves to better pair up with the selected replacement pumps.

CHANGE TO CONTRACT AMOUNT	(\$4,769.04)
TIME EXTENSION	0 calendar days

Perform all work in accordance with the Contract Documents.

CONTRACTOR: Pacific Hydrotech Corporation

Sign By: _____

Date: _____

Print Name: _____

Title: _____

RECOMMENDATION AND CONCURRENCE

FALLBROOK PUBLIC UTILITY DISTRICT:

Sign By: _____

Date: _____

Print Name: _____

Title: _____

M E M O

TO: Engineering & Operations Committee
FROM: Jason Cavender, Operations Manager
DATE: July 7, 2020
SUBJECT: CityWorks Enterprise Asset Management Implementation Update

Description

This memo serves for informational purposes only as an overview of the District's CityWorks Enterprise Asset Management (EAM) software implementation. EAM software is a critical asset management tool commonly used by utilities to plan, optimize, and track maintenance and repair activities for key assets.

Purpose

As part of the FY 19/20 capital improvement program the Board approved the purchase of CityWorks EAM software, and awarded a professional services contract to Black & Veatch to take the lead in implementation. The primary elements of this implementation include the development of:

- Service Requests
- Work Orders for unplanned maintenance and repair activities
- Preventative Maintenance Work Orders
- Dashboards and reports for tracking

This presentation will provide a summary of the District's progress to-date, and will outline areas of further development during FY 20/21.

Budgetary Impact

There is no budgetary impact.

Recommended Action

Informational only, no recommended action.