To: Lee R. Feldman, City Manager<br>From: Paul Berg, Public Works Director<br>Date: May 2, 2017<br>Re: Change Order No. 2 for Project 12197

## Job Description: P12197 - Fiveash Water Treatment Plant Hydrotreators 3 and 4 Influent Pipe Modifications

Contractor: RF Environmental Services, Inc.
Amount: $\quad \$ 93,388.46$ and 0 additional calendar days.
Funding: $\quad$ PBS670101-3437 (P12197.454-6599) - \$93,388.46
Itemized and explained as follows:

1. Repair leaks in existing 30" prestressed concrete cylinder pipe (PCCP) at Hydrotreator 3: The existing 30" PCCP on the east side of the valve vault has several significant leaks that were discovered during construction. Provide two (2) each, 30 inch sleeving systems, 10 feet long, utilizing standard EPDM WEKO-SEAL with two (2) type 304 retaining bands, shims, wedges, and lubricant.
2. Remove and install new pipe thrust blocks at Hydrotreator 4: These existing thrust blocks were not shown on the plans and were encountered during excavation. In order to replace the influent pipe at Hydrotreator 4 , these thrust blocks must be removed and replaced. Once the influent pipe is replaced, new thrust blocks will be cast in place to support the new piping.
3. Pressure testing of existing sludge recirculation pipes at Hydrotreator 3 to locate existing leaks: During construction, ground water was unexpectedly found in the excavated trench. Due to the presence of a distinct odor, the groundwater was tested and found to contain chlorine. The chlorine presence suggests that the sludge recirculation piping is leaking. These pipes will be isolated and pressurized individually to find the origin of the leaks, which will be repaired as part of this change order.
4. Repair leaks at Hydrotreator 3 sludge recirculation piping.

## (A) DEDUCTIONS

## Item No.

## (B) ADDITIONS

## Item No.

CO 2-1
Repair Leaks in Existing 30" PCCP at Hydrotreator 3
$\$ 60,160.31$
CO 2-2
Removal and replacement of existing thrust blocks at Hydrotreator 4.
\$ 12,967.37

Repair leaks in sludge recirculation piping at Hydrotreater 3.
\$12,880.33

## ADDITIONAL CONTRACT TIME BEING REQUESTED

## THE TOTAL AMOUNT OF THIS CHANGE ORDER

This Change Order provides for all costs and schedule adjustments associated with completing the work, including materials, labor, equipment, bond, insurance, overhead, profit, impacts, and any and all related items or associated costs incurred or resulting from the items listed above, and is provided in accordance with Article 13 - Changes in the Work of the Contract.

Approved:


Recommended by:
Paul A. Berg
Public Works Director

Approved by:

> Lee R. Feldman
> ICMA-CM, City Manager
cc: Alan Dodd, P.E., Deputy Public Works Director Christopher Bennett, P.E., Assistant City Engineer Scott Teschky, CCM, LEED AP BD +C, Senior Project Manager Financial Administrator Project File

## CHANGE ORDER SUMMARY SHEET

ORIGINAL CONTRACT AMOUNT
COST OF CHANGE ORDERS TO DATE
COST OF THIS CHANGE ORDER

ORIGINAL CONTRACT TIME
TIME ADDED TO DATE
TIME ADDED TO THIS CHANGE ORDER

SCHEDULE OF CHANGE ORDERS TO DATE

|  |  | AMOUNT OF |  |
| :--- | :--- | :--- | :---: |
| C.O.\# | DATE | DESCRIPTION | AST OR <br> CREDIT |
| 1 | $3 / 3 / 17$ | Pipeline inspection, cleaning, pipe-line <br> video and inspection report. | $\$ 10,628.43$ |

