



# City of Broken Arrow

## Request for Action

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**File #: 18-1276, Version: 1**

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**Broken Arrow Municipal Authority  
Meeting of: 11-6-2018**

**Title:**

Approval of and authorization to execute Change Order CO1 for Construction Contract 1551425; Citywide Supervisory Control and Data Acquisition (SCADA) System

**Background:**

The BAMA received Oklahoma Eater Resources Board Loan (OWRB) No. FAP-16-0001-L for implementation for a Supervisory Control and Data Acquisition (SCADA) system in 2016. Alan Plumber and Associates, LP was selected to design a system for monitoring and control of 29 wastewater lift stations and 3 water booster station, and improvements to the plant control systems at Lynn Lane Wastewater Treatments Plant. The design was complete in October 2017, and the project was advertised for bids on October 24 and 31, 2017. The contract was awarded to the lowest responsible bid of \$1,559,028.00 for the base bid and alternative no. 1 to Prime Controls, LP. OWRB approved the contract award on December 7, 2017. Notice to Proceed for the project was issued February 8, 2018.

This Change Order #1 addresses the following additions to the contract:

CO1-1: The contractor is to install a new fully assembled enclosure with an M221 CPU and OIT assembly at the Greenbriar Pump Station. This change is due to a requested upgrade to the existing PLC for the pump station that will not be compatible with the new system being installed. This work was summarized and directed through RFI#17 of the project and is attached within. The below costs is inclusive of materials, labor, insurance & bonds, and all applicable markups such to produced a complete in place product.

CO1-2: Due to conflicts of the installation of new PLC in CO1-1 as well as some field adjustments required by Utilities department, the contractor is to remove and relocate the previously installed electrical/controls rack at the Greenbriar Pump Station. The location of the revised placement of the rack is to be directed by the project CA. The below costs are inclusive of materials, labor, insurance & bond, and all applicable markups such to produce a complete in place product.

CO1-3: During construction it was discovered that the specified Cradlepoint 1150 radios are no longer available for purchase and have been discontinued. In lieu of this item, the contractor is to purchase and implement in its place the newer model Cradlepoint IBR9000 system. This work was summarized and directed through RFI#18 of the project and is attached within. The below costs is inclusive of the increased differential costs between the original system and the newer upgraded system.

Total Number of Days Added by this Change Order:

- In response to the noted unforeseen project related issues in CO1-1, CO1-2, & CO1-3, the contract is to be extended by 45 days due to rework, lead-times on materials, and additional work/labor. The revised contract time shall be increased from 420 days to 465 days.

The additional cost associated with these changes is as follows:

|                              |                |
|------------------------------|----------------|
| Previous Change Orders:      | \$0            |
| This Change Order:           | \$26,093.03    |
| Total Cost of Change Orders: | \$26,093.03    |
| Original Contract Amount:    | \$1,559,028.00 |
| Revised Contract Amount:     | \$1,585,121.03 |
| Percent Change in Contract:  | 1.67%          |
| Applicable to Comp. Bid Act: | 1.67%          |

**Cost:** \$26,093.03

**Funding Source:** OWRB FAP Loan - FAP-16-0001-L

**Requested By:** Alex Mills, P.E., Engineering and Construction Director

**Approved By:** Michael L. Spurgeon, City Manager

**Attachments:** 155425 Contract Change Order CO1

**Recommendation:**

Approve and execute Change Order CO1 for the construction contract 155425; Citywide SCADA System