

Meeting Date: 10/8/2013

Report Type: Consent

Report ID: 2013-00627

Title: Groundwater Well Electrical Rehabilitation - Change Order No. 1

Location: District 2 and 3

Issue: The City operates numerous wells to pump potable groundwater into the City's water distribution system. Some of these facilities were built decades ago and are not currently producing water. This change order will allow rehabilitation at four of these facilities to continue.

Recommendation: Pass a Motion authorizing the City Manager or the City Manager's designee to sign change order no. 1 to City Contract No. 2013-0420 with J.R. Sharp Construction, Inc., for the amount of \$198,567.40, bringing the contract's total not-to-exceed amount to \$451,567.40.

Contact: Bill Busath, Engineering and Water Resources Manager, (916) 808-1434; Dave Hansen, Supervising Engineer, (916) 808-1421, Department of Utilities

Presenter: None

Department: Department Of Utilities

Division: Engineering & Water Resources

Dept ID: 14001311

Attachments:

- 1-Description/Analysis
- 2-Background
- 3-Location Map
- 4-Change Order No. 1

City Attorney Review

Approved as to Form
Joe Robinson
10/3/2013 12:09:02 PM

City Treasurer Review

Reviewed for Impact on Cash and Debt
John Colville
8/16/2013 12:23:42 PM

Approvals/Acknowledgements

Department Director or Designee: Dave Brent - 10/2/2013 11:52:24 AM

Description/Analysis

Issue Detail: The City groundwater Wells 134, 154, 156 and 159 are designed to pump potable groundwater into the City's water distribution system. These facilities were originally built decades ago and some are not currently in production. The electrical equipment in these facilities is outdated, difficult to maintain, and replacement parts are no longer available.

On April 18th, 2013, the City Council awarded a contract for the Well Electrical Rehabilitation Project for these four groundwater wells to J.R. Sharp Construction Inc. for an amount not to exceed \$253,000. City staff and the Contractor have negotiated Change Order No. 1, to authorize and compensate the Contractor for extra work needed to complete this groundwater well rehabilitation Project.

Policy Considerations: The amount of the change order is \$198,567.40, which exceeds the City Manager's approval authority and must be approved by City Council.

Economic Impacts: The additional work authorized by this change order is expected to create 0.5 total jobs (0.3 direct jobs and 0.2 jobs through indirect and induced activities) and create \$84,123 in total economic output (\$53,023 of direct output and another \$31,100 of output through indirect and induced activities).

The indicated economic impacts are estimates calculated using a calculation tool developed by the Center for Strategic Economic Research (CSER). CSER utilized the IMPLAN input-output model (2009 coefficients) to quantify the economic impacts of a hypothetical \$1million of spending in various construction categories within the City of Sacramento in an average one-year period. Actual impacts could differ significantly from the estimates and neither the City of Sacramento nor CSER shall be held responsible for consequences resulting from such differences.

Environmental Considerations: The Community Services Department, Environmental Planning Services Division reviewed the project and determined that this project is exempt from the California Environmental Quality Act (CEQA) under Section 15301(b) and 15302(c). The project consists of the operation, maintenance of existing utilities involving negligible or no expansion of use. The project also consists of replacement of existing utility system and/or facilities involving negligible expansion of capacity.

Sustainability: The City is committed to developing an efficient and dependable groundwater supply that will increase the City's water supply reliability and support a surface water/groundwater conjunctive use program. This report's recommendation is consistent with the City's Strategic Plan Goals of achieving sustainability, livability, and expanding economic development throughout the City.

Commission/Committee Action: None

Rationale for Recommendation: The proposed change order compensates the Contractor for performing additional work necessitated by unforeseen conditions and extra work requested by the City.

Financial Considerations: There is sufficient funding in the Well Electrical Rehabilitation Project (Z14110101, fund 6310) for an additional amount of \$198,567.40, which brings the total contract amount to \$451,567.40.

Emerging Small Business Development (ESBD): This project includes participation requirements of 20% for emerging and small business enterprises per Ordinance 99-007 and Resolution 99-055 relating to ESBD participation goals and policies, adopted by City Council on February 9, 1999. J.R. Sharp Construction Inc. exceeded the ESBD goals with a participation level of 100%.

Background

The City's water supply system includes 27 groundwater wells, a majority of which have been in service for over 40 years. In order to pursue a conjunctive use strategy for water production and not rely entirely on surface water during periods of low water supply, the Department of Utilities has begun a program to evaluate the City's groundwater well system to identify future needs for system reliability and efficient groundwater production.

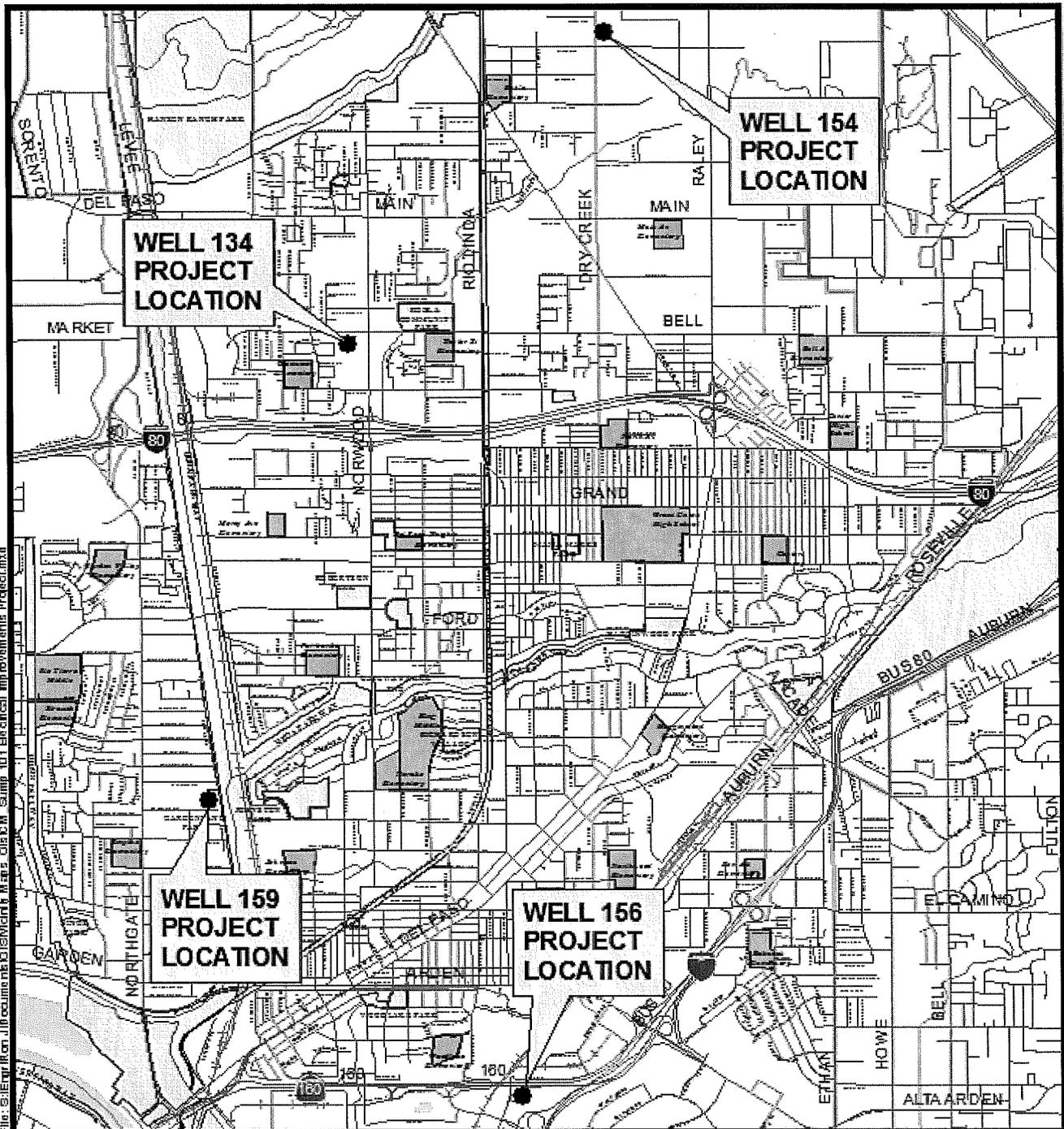
Four groundwater wells have been selected and initial cleaning and well casing work has been completed as a result of the condition assessment performed for each groundwater well.

Staff prepared plans and specifications for the associated electrical rehabilitation of these four groundwater wells (134,154,156,159) and the City Council awarded the contract to J.R. Sharp Construction Inc. on April 18, 2013.

During construction, unforeseen conditions and new requests from the Operations Division staff necessitated additional work such as the installation of a new fluoride feed system. This additional work is described in attached Change Order No. 1.

Currently, the City is waiting upon approval of the new fluoride feed system from the California Department of Public Health. The City reserves the right to delete items 3, 5, 7, and 9 in the attached change order if the new fluoride feed system is not approved by the California Department of Public Health.

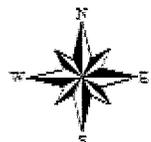
Well Electrical Rehabilitaion Project PN: Z14110101



file:///C:/Users/John/Desktop/Projects/Map_01_Electrical_Improvements_Project/Map_01_Electrical_Improvements_Project.mxd



Map Prepared By
City of Sacramento
Department of Utilities



CITY OF SACRAMENTO

CHANGE ORDER

Contract # & Date: 2013-0420 04/18/2013

Budget #: 6005-50000-51000000-Z14110101

Purchase Order #: 0000020431

Change Order No: 1

Sacramento, California

July 22, 2013

TO: J. R. Sharp Construction, Inc., Contractor

CONTRACT FOR: WELL ELECTRICAL REHABILITATION PROJECT

(B13141321014)

Upon mutual acceptance of this document by the City of Sacramento, hereinafter referred to as "CITY", and your firm, hereinafter referred to as "CONTRACTOR", in accordance with the terms and conditions of the original contract documents, you are hereby directed to make the following change or changes for the consideration set forth below:

Description: SEE EXHIBIT A

The original contract sum was:	\$ <u>253,000.00</u>
Net change by previous change orders:	\$ <u>0.00</u>
The contract sum prior to this change order was:	\$ <u>253,000.00</u>
The contract sum will be <i>increased</i> by this C.O.:	\$ <u>198,567.40</u>
New contract sum including all Change Orders:	\$ <u>451,567.40</u>

CONTRACTOR agrees that the amount of increase or decrease in the contract sum specified in this change order shall constitute full compensation for the work required by this change order, including but not limited to all compensation for the additional and/or revised work specified herein, and shall fully compensate CONTRACTOR for any and all direct and indirect costs that may be incurred by CONTRACTOR in connection with such additional and/or revised work, including any changes, disruptions or delays in work schedules or in the performance or other work by CONTRACTOR. The time for performance of the Contract will be **increased by 75 days** by reason of the performance of the work required by this Change Order. Except as herein above expressly provided, CONTRACTOR further agrees that the performance of the work specified in this Change Order or the rescheduling of other project work made necessary by this Change Order, shall not constitute a delay which will extend the time limit for completion of the work as said term is used in the Contract between CITY and CONTRACTOR for the project.

Approval Recommended By:

Approved as to Form by:

Project Manager – Jian Zhuang P.E.

Joe Robinson, Deputy City Attorney

Approved By:

Approved By:

Contractor – J R Sharp Construction, Inc.

Dave Brent, Director, Department of Utilities

Approved By:

Shirley Concolino – City Clerk Date

**CITY OF SACRAMENTO
CHANGE ORDER
EXHIBIT A**

Contract # & Date: 2013-0420 04/18/2013

Budget #: 6005-50000-51000000-Z14110101

Purchase Order #: 0000020431

Change Order No: 1

1) Bid Item #1, *Delete Hydrofluosilicic Acid Feeding System at Well 156.*
(Database Code: Customer Request) Total This Item: \$ -33,000.00

Net Deduction: \$ -33,000.00

At Well 134,

2) Demo existing building, concrete pad and dispose.
Provide concrete equipment pad and a 3 sided steel canopy with light and switch over owner furnished electrical equipment.
Furnish and Install SMUD riser and secondary pull box.
Furnish and install 1 motion activated GE Evolve LED security light and mount to light pole.
Furnish and install one Bosch OD850 motion detector.
Furnish and install one 10' tall galvanized light pole with reinforced concrete foundation.
Furnish and install conduit and conductors to security light and motion detector.
Relocate chlorine detector to the PLC cabinet.
Install City supplied generator receptacle.
Furnish and install 2" conduit and 2/0 conductors from the generator receptacle to the generator breaker.
Install ground rod and grounding wire to ground the MCC and facility fence.
Install new 1/0 conductors from the MCP to the pump.
(Database Code: Unforeseen Conditions) Total This Item: \$ 27,886.81

3) Remove and reinstall water softener bracket, chlorine scale, chlorine booster pump, fluoride calibration system and valve closure box.
Furnish and install new Fluoride Feed System which is subjected to the approval of the California Department of Public Health.
Relocate exhaust fan and move junction box.
Remove and deliver existing fluoride feed system to the City.
(Database Code: Customer Request) Total This Item: \$ 29,110.85

At Well 154,

4) Relocate Owner furnished electrical equipment.
Set pull box at existing PLC location, run new 2" conduit to new location for antenna cable and provide other conductors as needed.
Provide concrete equipment pad and a 3 sided steel canopy with light and switch over owner furnished electrical equipment.
Furnish and install new SMUD service drop pole, additional 40 feet of trenching, conduit and wires.
Furnish and install 1 motion activated GE Evolve LED security light and mount to light pole.
Furnish and install one Bosch OD850 motion detector.
Furnish and install one 10' tall galvanized light pole with reinforced concrete foundation.
Furnish and install conduit and conductors to security light and motion detector.
Relocate chlorine detector to the PLC cabinet.
Install City supplied generator receptacle.
Furnish and install 2" conduit and No. 2 conductors from the generator receptacle to the generator breaker.
Install ground rod and grounding wire to ground the MCC and facility fence.

Install new No. 2 conductors from the MCP to the pump.
(Database Code: Unforeseen Conditions)

Total This Item: \$ 33,885.45

- 5) Remove and reinstall water softener bracket, chlorine scale, chlorine booster pump, and fluoride calibration system.
Furnish and install new Fluoride Feed System which is subjected to the approval of the California Department of Public Health.
Remove and deliver existing fluoride feed system to the City.
(Database Code: Customer Request)

Total This Item: \$ 29,110.85

At Well 156,

- 6) Provide concrete equipment pad and a 3 sided steel canopy with light and switch over owner furnished electrical equipment.
Extend 3" PVC SMUD feeder to SMUD transformer.
Saw cutting, excavating, and disposal of asphalt for the Fluoride building and restore AC surface.
Furnish and install 2 motion activated GE Evolve LED security lights and mount one to light pole and one to the existing antenna pole.
Furnish and install one Bosch OD850 motion detector.
Furnish and install one 10' tall galvanized light pole with reinforced concrete foundation.
Furnish and install conduit and conductors to each security light and motion detector.
Relocate chlorine detector to the PLC cabinet.
Install City supplied generator receptacle.
Furnish and install 2" conduit and 2/0 conductors from the generator receptacle to the generator breaker.
Install ground rod and grounding wire to ground the MCC and facility fence.
Install new 1/0 conductors from the MCP to the pump.
(Database Code: Unforeseen Conditions)

Total This Item: \$ 32,409.86

- 7) Remove and reinstall water softener bracket, fluoride calibration system and relocate pipes.
Furnish and install new Fluoride Feed System which is subjected to the approval of the California Department of Public Health.
Remove and deliver existing fluoride feed system to the City.
(Database Code: Customer Request)

Total This Item: \$ 28,494.89

At Well 159,

- 8) Provide concrete equipment pad and a 3 sided steel canopy with light and switch over owner furnished electrical equipment.
Furnish and install 3 motion activated GE Evolve LED security lights and mount to existing pump house.
Furnish and install one Bosch OD850 motion detector.
Furnish and install conduit and conductors to security lights and motion detector.
Relocate chlorine detector to the PLC cabinet.
Install City supplied generator receptacle.
Furnish and install 2" conduit and No. 2 conductors from the generator receptacle to the generator breaker.
Install ground rod and grounding wire to ground the MCC and facility fence.
Install new No. 2 conductors from the MCP to the pump.

(Database Code: Customer Request)

Total This Item: \$ 22,173.80

- 9) Remove and reinstall water softener bracket, fluoride calibration system and relocate pipes.
Furnish and install new Fluoride Feed System which is subjected to the approval of the California Department of Public Health.
Remove and deliver existing fluoride feed system to the City.
(Database Code: Customer Request)

Total This Item: \$ 28,494.89

Net Extra Work Items: \$ 231,567.40

Total This Change Order: \$ 198,567.40

The City reserves the right to delete items 3, 5, 7, and 9 of this change order if the new Fluoride Feed System is not approved by the California Department of Public Health.