



# City of Sacramento City Council

915 I Street, Sacramento, CA, 95814  
[www.CityofSacramento.org](http://www.CityofSacramento.org)

**Meeting Date:** 11/8/2012

**Report Type:** Consent

**Title:** Change Order: South Land Park Water Main Replacement Project - Phase 5 (Z14010052)

**Report ID:** 2012-00843

**Location:** District 4

**Recommendation:** Pass a Motion authorizing the City Manager or the City Manager's designee to sign Change Order 2 to City Agreement No. 2011-1236 with United Building Contractors, Inc., in an amount not to exceed \$195,560.47, bringing the final contract amount to \$2,289,368.15.

**Contact:** Bill Busath, Interim Engineering Manager, (916) 808-1434; Dan Sherry, Supervising Engineer, (916) 808-1419 - Department of Utilities

**Presenter:** None

**Department:** Department Of Utilities

**Division:** Cip Engineering

**Dept ID:**

**Attachments:**

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- 1- Description/Analysis
- 2 - Background
- 3 - Location Map
- 4 - Change Order

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**City Attorney Review**

Approved as to Form  
Joe Robinson  
10/30/2012 11:56:06 AM

**City Treasurer Review**

Reviewed for Impact on Cash and Debt  
Janelle Gray  
10/18/2012 8:56:33 AM

**Approvals/Acknowledgements**

Department Director or Designee: Dave Brent - 10/26/2012 11:25:24 AM



## Description/Analysis

**Issue:** The South Land Park Water Main Replacement Project, Phase 5 consists of replacing approximately 14,000 lineal feet of steel mains, replacing individual water services, installing water meters, and improving fire protection. The City Council awarded this contract to United Building Contractors on October 11, 2011, for a contract amount of \$2,064,005.00. The contract amount was increased by \$29,802.68 by Change Order 1. Change Order 2 compensates the contractor for additional work due to unforeseen conditions, and adjusts the estimated bid item amounts to reflect the actual amounts measured in the field. Change Order 2 will increase the final contract amount by \$195,560.47 for a revised total contract amount of \$2,289,367.

**Policy Considerations:** The action requested herein is consistent with the City of Sacramento Strategic Plan goals of improving and expanding public safety and achieving sustainability and livability.

**Economic Impacts:** None

**Environmental Considerations:** The Community Development Department, Environmental Planning Services Division, reviewed this proposed project prior to contract award and determined that this project is categorically exempt from CEQA (the California Environmental Quality Act) under Class 1, Section number 15301(b) and (c) and Class 3, Section number 15303(d) of the CEQA Guidelines. Projects exempt under Class 1, Section number 15301(b) and (c) consist of minor alteration or repair of existing utility facilities and sidewalks. Projects exempt under Class 3, Section number 15303(d) consist of installation and location of new, small utility facilities.

**Sustainability:** The project is consistent with the City's Sustainability Master Plan by improving water system service, and reliability, which will reduce energy-intensive maintenance efforts.

**Commission/Committee Action:** Not applicable.

**Rationale for Recommendation:** Unforeseen conditions caused delays and extra work including mismarked utilities, issues with excessive concrete under the streets, concrete encased utilities, and scheduling delays. In addition, there were overruns on bid items.

**Financial Considerations:** The South Land Park Water Main Replacement Project, Phase 5 total project budget is \$2,770,000.00. Currently, the total expended and encumbered amounts for design, inspection, and construction is approximately \$2,400,000. With the change order amount of \$195,560.47, there are sufficient funds to complete the project.

**Emerging Small Business Development (ESBD):** This project included a participation goal of 20% for emerging and small business enterprises (ESBEs) as required by Ordinance 99-007 and Resolution 99-055, relating to ESBD participation goals and policies, adopted by the City Council on February 9, 1999. United Building Contractors exceeded this goal with an ESBE participation level of 98.5%.



## Background

This project is the last of five phases to replace water distribution mains and install water meters in the South Land Park area. The existing distribution system consists of thin-walled steel water mains found within residential backyards and front lawns. These dilapidated mains require frequent maintenance to repair leaks and have passed the end of their useful life. Fire protection is inadequate in segments of the project area due to poor hydrant spacing.

This area has also been incorporated into the City's Water Meter Retrofit Program. The purpose of this program is to meet the requirements of Assembly Bill 2572 and City Ordinance 2005-090, which require the installation of water meters on all service connections by the year 2025.

The project objective is to improve water system reliability, increase fire protection, and advance the City's obligation to meet AB 2572 requirements. This is being accomplished by:

- Abandoning existing 6 to 8-inch water mains in backyards and front lawns and constructing approximately 14,000 lineal feet of 6-inch, 8-inch, and 12-inch water main in the street.
- Installing new fire hydrants to meet current standards.
- Constructing 239 residential services with water meters.
- Retrofitting approximately 80 residential water services with water meters.

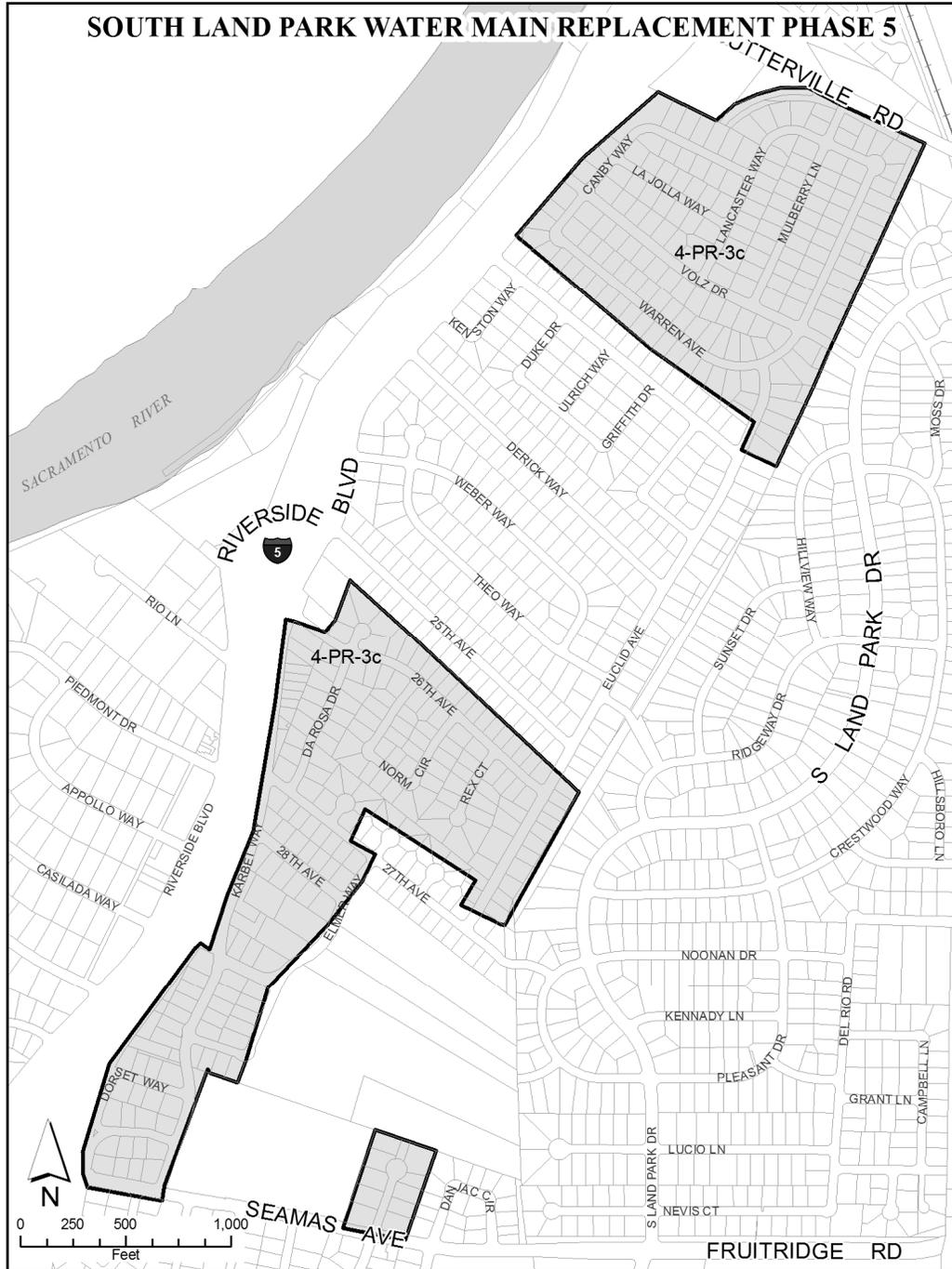
This project was awarded to United Building Contractors, Inc. for \$2,064,005.00 on October 11, 2011, with a Notice to Proceed issued for November 7, 2011. Change Order 1 increased the contract amount by \$29,802.68 to pay for extra work and delays due to unforeseen conditions in the field.

Throughout the project, the contractor encountered various unforeseen conditions, causing delays and extra work. These included mismarked utilities, issues with excessive concrete under the streets, concrete encased utilities, and scheduling delays. In addition, there were overruns on some bid items. The cost of this extra work has been negotiated and will be paid for as an agreed upon lump sum totaling \$195,560.47.



# Location Map

## South Land Park Water Main Replacement Project-Phase 5



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CITY OF SACRAMENTO

CHANGE ORDER

Contract # & Date: 2011-1236 10/11/2011

Budget #: 6005-500000-51000000-Z14010052

Purchase Order #: 0000016043

Change Order No: 2

Sacramento, California

October 5, 2012

TO: United Building Contractors, Inc., Contractor

CONTRACT FOR: **South Land Park Water Main Replacement – Phase 5 (B123331007)**

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, attached and incorporated herein by this reference.**

The original contract sum was:	<u>\$ 2,064,005.00</u>
Net change by previous change orders:	<u>\$ 29,802.68</u>
The contract sum prior to this change order was:	<u>\$ 2,093,807.68</u>
The contract sum will be <i>increased</i> by this C.O.:	<u>\$ 195,560.47</u>
New contract sum including all Change Orders:	<u>\$ 2,289,368.15</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 of other work by CONTRACTOR. The time for performance of the Contract will be **increased by 2 working days** changed by reason 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 – Melissa Marshall

\_\_\_\_\_  
Joe Robinson, Deputy City Attorney

Approved By:

Approved By:

\_\_\_\_\_  
Contractor – United Building Contractors, Inc.

\_\_\_\_\_  
Dave Brent, Director, Department of Utilities

Approved By:

\_\_\_\_\_  
Shirley Concolino – City Clerk Date

**CITY OF SACRAMENTO  
CHANGE ORDER  
EXHIBIT A**

**Contract # & Date:** 2011-1236 10/11/2011

**Budget #:** 6005-500000-51000000-Z14010052

**Purchase Order #:** 0000016043

**Change Order No:** 2

- |                       |   |                                |
|-----------------------|---|--------------------------------|
| 1)                    | Bid Item #2, "6-Inch Diameter Water Main to Furnish and Install" <b>increase</b> quantity by 503 LF @ \$77.00/LF.<br>(Database Code: Unforeseen Conditions)   | Total This Item: \$ 38,731.00  |
| 2)                    | Bid Item #3, "8-Inch Diameter Water Main to Furnish and Install" <b>increase</b> quantity by 196 LF @ \$69.00/LF.<br>(Database Code: Unforeseen Conditions)   | Total This Item: \$ 13,524.00  |
| 3)                    | Bid Item #5, "6-Inch Diameter Gate Valve for Furnish and Install" <b>increase</b> quantity by 5 LF @ \$1,500.00/LF.<br>(Database Code: Unforeseen Conditions)                                       | Total This Item: \$ 7,500.00   |
| 4)                    | Bid Item #6, "8-Inch Diameter Gate Valve for Furnish and Install" <b>increase</b> quantity by 22 LF @ \$1,700.00/LF.<br>(Database Code: Unforeseen Conditions)                                      | Total This Item: \$ 37,400.00  |
| 5)                    | Bid Item #10, "8-Inch Standard Fire Hydrant to Furnish and Install" <b>increase</b> quantity by 1 EA @ \$4,600.00 EA.<br>(Database Code: Unforeseen Conditions)                                     | Total This Item: \$ 4,600.00   |
| 6)                    | Bid Item #11, "Existing Fire Hydrant to Remove" <b>increase</b> quantity by 1 EA @ \$400.00 EA.<br>(Database Code: Unforeseen Conditions)   | Total This Item: \$ 400.00     |
| 7)                    | Bid Item #12, "2-Inch and Smaller Substandard Water Service Replaced" <b>increase</b> quantity by 5 EA @ \$400.00 EA.<br>(Database Code: Unforeseen Conditions)                                     | Total This Item: \$ 2,000.00   |
| 8)                    | Bid Item #13, "1-Inch Water Service w/Meter Box to Furnish and Install (Main to Meter Box)" <b>increase</b> quantity by 6 EA @ \$1,500.00 EA.<br>(Database Code: Unforeseen Conditions)             | Total This Item: \$ 9,000.00   |
| 9)                    | Bid Item #14, "Hybrid Water Service w/Meter Box (Main to Front/Side Hose Bib), to furnish and Install" <b>increase</b> quantity by 98 EA @ \$2,200.00 EA.<br>(Database Code: Unforeseen Conditions) | Total This Item: \$ 215,600.00 |
| 10)                   | Bid Item #16, "Meter Retrofit of 2-Inch and Smaller Water Services" <b>increase</b> quantity by 12 EA @ \$400.00 EA.<br>(Database Code: Unforeseen Conditions)                                      | Total This Item: \$ 4,800.00   |
| 11)                   | Bid Item #18, "Connection to Existing Water Distribution System" <b>increase</b> quantity by 3 EA @ \$3,260.00 EA.<br>(Database Code: Unforeseen Conditions)  | Total This Item: \$ 9,780.00   |
| 12)                   | Bid Item #19 "Water Service, to Abandon" <b>increase</b> quantity by 22 EA @ \$150.00 EA.<br>(Database Code: Unforeseen Conditions)   | Total This Item: \$ 3,300.00   |
| 13)                   | Bid Item #25, "Asphaltic Concrete, to Remove and Replace" <b>increase</b> quantity by 391 SF @ \$5.00/SF.<br>(Database Code: Unforeseen Conditions)   | Total This Item: \$ 1,955.00   |
| 14)                   | Bid Item #27, "Potholes" <b>increase</b> quantity by 1EA @ \$650.00 EA.<br>(Database Code: Unforeseen Conditions)   | Total This Item: \$ 650.00     |
| <b>Net Additions:</b> |   | <b>\$ 349,240.00</b>           |
| 15)                   | Bid Item #4, "12-Inch Diameter Water Main to Furnish and Install" <b>decrease</b> quantity by 1 9 EA @ \$113.00/EA.<br>(Database Code: Unforeseen Conditions)                                       | Total This Item: \$- 2,147.00  |
| 16)                   | Bid Item #15, "Hybrid Water Service w/Meter Box (Main to Rear Hose Bib), to Furnish and Install" <b>decrease</b> quantity by 76 EA @ \$2,300.00/EA.<br>(Database Code: Unforeseen Conditions)       | Total This Item: \$-174,800.00 |

- 17) Bid Item #17, "Additional 1 1/2 -Inch Water Pipe to Furnish and Install" **decrease** quantity by 225 LF @ \$9.00/LF.  
(Database Code: Unforeseen Conditions) Total This Item: \$- 2,025.00
- 18) Bid Item #20, "1 1/2 -Inch Schedule 40 PVD Pipe to Furnish and Install" **decrease** quantity by 253 LF @ \$5.00/LF.  
(Database Code: Unforeseen Conditions) Total This Item: \$- 1,265.00
- 19) Bid Item #24, "Concrete, to Remove and Replace" **decrease** quantity by 299 SF @ \$3.00/SF.  
(Database Code: Unforeseen Conditions) Total This Item: \$ - 897.00
- 20) Bid Item #26, "Unsuitable material, to Remove and Replace" **decrease** quantity by 500 ton @ \$1.00/Ton.  
(Database Code: Unforeseen Conditions) Total This Item: \$ - 500.00

**Net Deductions: \$-181,634.00**

**NOTE: Above items 1 through 20 are listed to reconcile the contract quantities with the actual amounts measured in the field.**

**Extra Work Items:**

- 21) PCO#13, Contractor encountered concrete under AC at STA 0+00, sheet 9, while excavating for a hot tap on Riverside Blvd., at Volz Dr.  
Database Code: Unforeseen Conditions Total This Item: **\$ 1,215.18**
- 22) PCO#13A, Contractor encountered concrete under AC at cut and cap STA 0+00, sheet 9 adjacent to hot tap on Riverside Blvd. at Volz Dr.  
Database Code: Unforeseen Conditions Total This Item: **\$ 348.29**
- 23) PCO#14, Contractor encountered and hit unmarked 6 -Inch sewer STA 2+00, sheet 6, on Darosa Dr.  
Database Code: Unforeseen Conditions Total This Item: **\$ 670.73**
- 24) PCO#15, Contractor encountered concrete under AC at STA 0+25 thru 0+50, sheet 6, on Karbet Way.  
Database Code: Unforeseen Conditions Total This Item: **\$ 1,383.98**
- 25) PCO#16, Contractor hit unmarked water service at STA 1+00, sheet 7, on Norm Circle.  
Database Code: Unforeseen Conditions Total This Item: **\$ 1,338.63**
- 26) PCO#17, Relocate water main connection plan showed connection into sewer main, encountered DI lead STA 0+00, sheet 7, Earls Court and 27<sup>th</sup> Ave.  
Database Code: Unforeseen Conditions Total This Item: **\$ 551.81**
- 27) PCO#18, City crews were unable to shut water off at Darosa Dr. STA 2+81, sheet 6, Contractor on stand-by until City could shut down main.  
Database Code: Unforeseen Conditions Total This Item: **\$ 1,076.78**
- 28) PCO#19, City reimbursement to Contractor for providing sprinkler repair at 5000 Euclid Ave., sheet 8.  
Database Code: Unforeseen Conditions Total This Item: **\$ 109.00**
- 29) PCO#20, Contractor unable to locate water main, City directed Contractor to lay main until they encountered existing main, STA 3+91, sheet 5, at Elmer Way and Casilada Way  
Database Code: Unforeseen Conditions Total This Item: **\$ 1,141.72**
- 30) PCO#20a, Plans showed existing main on wrong side of trench, contractor had to cut out existing main to make connection STA 9+30, sheet 5, on Elmer Way and 28<sup>th</sup> Ave.  
Database Code: Unforeseen Conditions Total This Item: **\$ 289.28**
- 31) PCO#21, Change layout not as shown on plans realigned taking extra time STA 11+56, sheet 7, on Elmer Way at 27<sup>th</sup> Ave.  
Database Code: Unforeseen Conditions Total This Item: **\$ 1,048.41**
- 32) PCO#22, City directed Contractor to chase missed marked main on Barlin Court, sheet 6.  
Database Code: Unforeseen Conditions Total This Item: **\$ 685.82**

- 33) PCO#23, Contractor encountered concrete under AC creating extra work, this required relocating main crew until concrete could be removed STA 6+35 thru 6+50, sheet 5, on Karbet Way and Casilada Way.  
Database Code: Unforeseen Conditions Total This Item: \$ **874.74**
- 34) PCO#24, Contractor encountered concrete encased DI Lead, making it undiggable Contractor removed DI Lead, laid new water main through and reestablished DI Lead STA 0+50, sheet 4, on Karbet Way at Seamas Ave.  
Database Code: Unforeseen Conditions Total This Item: \$ **2,004.93**
- 35) PCO#25, Contractor encountered large masses of concrete assumed gravity encasement unable to dig under, contractor had to go over requiring additional fittings an ductile iron pipe at STA 2+00 thru 0+00, sheet 4, on Dorset Way.  
Database Code: Unforeseen Conditions Total This Item: \$ **5,342.21**
- 36) PCO#26, Concrete under AC STA 0+00 thru 0+50, sheet 4, on Seamas Ave.  
Database Code: Unforeseen Conditions Total This Item: \$ **2,980.44**
- 37) PCO#27, Casilada and Elmer STA 5+10 sheet 5, Contractor unable to place hydrant due to existing main and fire hydrant, had to kill existing main and remove existing hydrant valve tee and branch required additional work by contractor  
Database Code: Unforeseen Conditions Total This Item: \$ **2,461.24**
- 38) PCO#28, Contractor encountered 2 foot section of surface, half AC half concrete with steel STA 0+10, sheet 4, at hot tap on Seamas Ave.  
Database Code: Unforeseen Conditions Total This Item: \$ **718.18**
- 39) PCO#29, City pushed tap schedule back 2-days requiring plates and jacks and arrow boards for an additional 2 days, located at STA 0+10, sheet on Seamas Ave.  
Database Code: Unforeseen Conditions Total This Item: \$ **1,568.06**
- 40) PCO#30, City crews/welder asked contractor to expand excavation of tap hole at 0+10, sheet 4, on Seamas Ave.  
Database Code: Unforeseen Conditions Total This Item: \$ **331.38**
- 41) PCO#31, Two locations encountered corrugated steel encasing at cut cap locations, on Riverside west of I-5 creating additional work by Contractor location is referenced on sheet 6 and other there is no sheet reference.  
Database Code: Unforeseen Conditions Total This Item: \$ **1,813.66**

***Net Additions: \$ 27,954.47***

**Total This Change Order: \$ 195,560.47**