

**SUBMITTAL TO THE BOARD OF SUPERVISORS
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**



FROM: TLMA - Transportation Department

SUBMITTAL DATE:
June 7, 2012

SUBJECT: Contract Change Order No. 14 and 15 - between the County of Riverside and Griffith Company for the replacement of Van Buren Boulevard Bridge over Santa Ana River, Riverside Area

RECOMMENDED MOTION: That the Board execute and authorize the Transportation Department to issue Contract Change Order No. 14 and 15 with Griffith Company.

BACKGROUND: On May 19, 2009 (agenda item 3.38) the Board entered into an agreement with Griffith Company of Santa Ana, CA for the bridge replacement and the approach roadway improvements on Van Buren Boulevard at the Santa Ana River.


Juan C. Perez

Director of Transportation and Land Management

dj

(Continued On Attached Page)

FINANCIAL DATA	Current F.Y. Total Cost:	\$ 680,000	In Current Year Budget:	Yes
	Current F.Y. Net County Cost:	\$ 0	Budget Adjustment:	No
	Annual Net County Cost:	\$ 0	For Fiscal Year:	2011/2012
SOURCE OF FUNDS: Seismic Safety Retrofit [Federal] (67.9%), Proposition 111 [Gas Tax] (0.5%), Proposition 1B - Seismic Bridge Funds (8.0%), Seismic Safety Retrofit [State] (0.6%), Measure A / Western (6.6%), TUMF Regional System [RCTC] (12.2%), Jurupa Community Services District (4.2%) There are no general funds used in this project				Positions To Be Deleted Per A-30 <input type="checkbox"/>
				Requires 4/5 Vote <input type="checkbox"/>

C.E.O. RECOMMENDATION:

APPROVE

BY


Tina Grande

County Executive Office Signature

Dep't Recomm.: ☒ Policy
Per Exec. Ofc.: ☒ Policy

☐ Consent
☐ Consent

Prev. Agn. Ref. 3.38 of 5/19/09

District: 2/2

Agenda Number:

ATTACHMENTS FILED
WITH THE CLERK OF THE BOARD

3.51

The Honorable Board of Supervisors

RE: Contract Change Order No. 14 and 15 - between the County of Riverside and Griffith Company for the replacement of Van Buren Boulevard Bridge over Santa Ana River, Riverside Area

Page 2 of 2

Contract Change Order No. 14 in the amount of \$200,000 became necessary to provide compensation to the contractor for Time Related Overhead (TRO) costs associated with delays to the project to accommodate a redesign of the northerly support of the southbound bridge and issues with the installation of a couple of the Cast-in-Drilled-Hole (CIDH) piles that support the bridge. Contract Change Order No. 15 in the amount of \$480,000 became necessary to compensate the contractor for the additional costs to modify the northbound bridge falsework during construction due to encountering the original concrete bridge superstructure buried in the river bottom below the proposed new bridge.

JUSTIFICATION:

Contract Change Order No. 14 provides a time extension and compensation to the contractor for TRO costs associated with delays during the redesign of northerly end of the southbound bridge (Abutment No. 7). The redesign of the abutment No. 7 foundation was required to adjust the configuration of the spread footing and abutment wall due to differences in the existing foundation bedrock at the abutment location encountered during construction that prevented the construction to be done as originally contemplated. Also included in the change order is a time extension and TRO compensation for additional time required for the changes to the CIDH pile operations. The completion date of the project is extended by 83 working days. The Contractor has agreed to compensation of Time Related Overhead for 50 working days and a contract time extension of 83 working days and is inclusive of all other associated delays from December 29, 2009 to June 29, 2010.

Contract Change Order No. 15 provides compensation to the Contractor for modifying the approved falsework design and construction for the Van Buren Blvd. northbound bridge in lieu of removing the old concrete bridge superstructure that was buried in the location of the new bridge. The existence of the man made buried object was not visible during site reviews, specified in the contract documents, or indicated on the approved plans. The geotechnical site investigation report did not indicate the presence of an old bridge superstructure approximately 10 feet below the existing river bottom. The existence of the buried bridge superstructure is in conflict with the originally approved locations for the timber driven piles supporting the approved bridge falsework.

Under the contract, the removal of the buried manmade object would be paid by the County on an actual cost plus mark-up basis. A force account analysis was made and the cost utilizing that method would likely have exceeded \$800,000. The Department negotiated an agreed price for the change in the amount of \$480,000, compensating the contractor for the redesign of the falsework and additional materials required for the new design. Under this change order, the contractor is responsible for the falsework redesign which includes; making the determination if additional of timber driven piles are required, structural elements required for supporting the revised falsework, additional time required for the construction, and falsework construction. The contractor shall also assume all risk associated with the implementation of their revised falsework design and construction. The Contractor has agreed to accept all the risks for designing and constructing the modified falsework at this agreed amount and that no Time Related Overhead (TRO) will be claimed with any issue associated with this man made buried object.

LETTER OF TRANSMITTAL

**Local Agency: County of Riverside
Transportation Department**

**DATE: December 14, 2011
File: Van Buren Bridge Project
W.O. No.: B0-0801
C.C.O.: 14**

TO: Juan C. Perez

From: Hugh Smith

\$200,000 (0.87% of the original contract amount of \$22,875,573.00)

Contract Change Order No. 14 became necessary to provide compensation for Time Related Overhead (TRO) and a time extension to the Contractor for delay in the project completion caused by the redesign to VBS Abutment No. 7 and extra work that occurred during the installation of the CIDH piling. The redesign of abutment 7 was required to adjust the configuration of the spread footing and the abutment wall to complement the differing bedrock configuration and elevations vs. the design contemplated in the plans. Also included is a time extension and compensation for TRO expenses for additional work required for some extra work that occurred in the CIDH pile construction. The completion date of the project is extended by 83 working days from December 29, 2009 to June 29, 2010. This time period encompasses a total of 122 working days.

The Contractor has agreed to compensation of Time Related Overhead for 50 working days and contract time extension of 83 working days. The payment of 50 working days TRO and contract time extension of 83 working days is inclusive of all other associated delays from December 29, 2009 to June 29, 2010.

The amount of this Change Order is \$200,000 and the accumulation of all Contract Change Orders thus far, including this one, is \$1,524,705.15.

Previous Contract Change Order Amounts Approved:

See C.C.O. History
(attached)

\$1,324,705.15

File: Van Buren Bridge Project
W.O. No.: B0-0801
C.C.O. No. 14
Page 2

This Contract Change Order was discussed with Mr. Tayfun Saglam and he gave his concurrence to this change.

Adjustment of Time: 83 Days

ESTIMATE OF COST

Items

Force Account

Agreed Price

Adjustment \$200,000

TOTAL \$200,000



Hugh Smith
Construction Engineer

C. C. O. Category

Agency Mandated	
Anticipated Force Account	
Change in Field Conditions	√
Design Omission	
ROW Obligations	
Upgrades / Benefits	
Utilities	



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 14 – Revised

CONTRACT: Van Buren Bridge Project WORK ORDER NO. B0-0801

TO: Griffith Company CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Adjustment in Compensation and Contract Time for Redesign Delays

As directed by the Engineer and in accordance with the applicable sections of the Special Provisions; compensate the Contractor for Time Related Overhead (TRO) for delays due to the redesign of abutment 7 and the CIDH pile construction of the Van Buren Southbound Bridge incurred from December 29, 2009 to June 29, 2010.

The TRO amount shown below has been verified by force account analysis of the Contractor's daily overhead. The Contractor will accept the following compensation for 50 working days at the TRO amount of \$4,000.00 per day and a contract time extension of 83 working days for expenses related to all delay issues that were incurred for the period beginning December 29, 2009 through June 29, 2010, exclusive of costs that may have been incurred by the CIDH pile Sub-Contractor.

Time Related Overhead (TRO) 50 Days @ \$4,000.00 / Day = \$200,000.00

Estimated Cost: Decrease \$ _____ Increase \$ \$200,000

WE, the undersigned contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

By reason of this proposed change 83 days adjustment of time will be allowed.

Accepted [Signature] 12/6/11 Date
Griffith Company

NOTE: This change order is not effective until approved by County. If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest with the time therein specified.

[Signature]
Approval Recommended

12/1/11
Date

[Signature]
Approval Recommended

Juan C. Perez, Director of Transportation

6/20/12
Date

Approved _____

Chairman, Riverside County Board of Supervisors

_____ Date

Van Buren Bridge and Street Improvements
Contract CCO History

Contract No. 09-04-011
Work Order No. B0-0801
Contract Amount \$22,875,573.70

Single Maximum CCO \$150,000.00
Maximum CCO's \$2,287,557.37
Tip Budget \$40,627,000.00

Tip Comments:
No Change

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CCO No.	Amount This CCO	Authority	Cumulative CCO's	% Original Authorized	Cumulative CCO %	Classification
1	\$50,000.00	Trans. Director	\$50,000.00	0.22%	0.22%	Extra/Unavoidable
2	\$49,957.00	Trans. Director	\$99,957.00	0.22%	0.44%	Extra/Unavoidable
3	\$35,000.00	Trans. Director	\$134,957.00	0.15%	0.59%	Extra/Unavoidable
3S1	\$40,000.00	Trans. Director	\$174,957.00	0.17%	0.76%	Extra/Unavoidable
5	\$50,590.94	Trans. Director	\$225,547.94	0.22%	0.99%	Extra/Unavoidable
4	\$57,633.61	Trans. Director	\$283,181.55	0.25%	1.24%	Extra/Unavoidable
6	\$237,366.90	Board Approval	\$520,548.45	1.04%	2.28%	Extra/Unavoidable
7	\$86,856.00	Trans. Director	\$607,404.45	0.38%	2.66%	Extra/Unavoidable
11	\$5,812.97	Trans. Director	\$613,217.42	0.03%	2.68%	Extra/Unavoidable
10	\$176,270.49	Board Approval	\$789,487.91	0.77%	3.45%	Extra/Unavoidable
13	\$55,217.24	Trans. Director	\$844,705.15	0.24%	3.69%	Extra/Unavoidable
15	\$480,000.00	Board Approval	\$1,324,705.15	2.10%	5.79%	Extra/Unavoidable
14	\$200,000.00	Board Approval	\$1,524,705.15	0.87%	6.67%	
	<u>\$1,524,705.15</u>			<u>6.67%</u>		

New Authorized Contract Total	\$24,400,278.85
Total CCO Dollars To Date	\$1,524,705.15
Total % Increased by CCO's	6.67%

LETTER OF TRANSMITTAL

**Local Agency: County of Riverside
Transportation Department**

**DATE: December 12, 2011
File: Van Buren Bridge Project
W.O. No.: B0-0801
C.C.O.: 15**

TO: Juan C. Perez

From: Hugh Smith

\$480,000 (2.10% of the original contract amount of \$22,875,573.00)

Contract Change Order No. 15 became necessary to compensate the Contractor for modifying the falsework for Van Buren Blvd. northbound bridge in lieu of removing buried manmade material (old concrete bridge superstructure) which is in conflict with the originally proposed and approved locations of the timber driven piles for supporting the falsework. The contractor is responsible for the redesign, making the determination of locations any additions of timber driven piles and other structural elements required for supporting the falsework and bridge construction, the time required for the construction and assume all risk associated with the implementation of their revised falsework design and construction.

The existence of the man made buried material was not visible and not indicated in the contract plans, documents or the Special Provisions. The geotechnical site investigation report also did not indicate the presence of the remnants of the bridge superstructure left in place.

The Contractor has agreed to accept all the risks for designing and constructing the modified falsework at this agreed amount and that no Time Related Overhead (TRO) will be claimed with any issue associated with this man made buried object.

The exact magnitude and limits of the buried superstructure material is unknown. The time involved and the extent of the removal is not accurately quantifiable, therefore, the total estimated cost of the removal, as well as the potential cost of right of way delays (including Time Related Overhead) cannot be ascertained. The agreed price of this contract change order is reasonable based on a cursory analysis using the effort involved in removing the interfering portions of the buried superstructure for the installation of the CIDH, and as the Contractor has agreed to accept all responsibility for the design and construction of the modified falsework in place for the Van Buren Blvd. northbound

File: Van Buren Bridge Project
W.O. No.: B0-0801
C.C.O. No. 15
Page 2

bridge without the possibility of any claims for additional compensation and contract time extensions for this work.

The amount of this Change Order is \$480,000 and the accumulation of all Contract Change Orders thus far, including this one, is \$1,324,705.15.

Previous Contract Change Order Amounts Approved:

See C.C.O. History
(attached)

\$844,705.15

This Contract Change Order was discussed with Mr. Tayfun Saglam and he gave his concurrence to this change.

Adjustment of Time: 0 Days

ESTIMATE OF COST

Items

Force Account

Agreed Price

\$480,000

Adjustment

TOTAL

\$480,000



Hugh Smith
Construction Engineer

C. C. O. Category

Agency Mandated	
Anticipated Force Account	
Change in Field Conditions	√
Design Omission	
ROW Obligations	
Upgrades / Benefits	
Utilities	



COUNTY OF RIVERSIDE
TRANSPORTATION DEPARTMENT

SHEET 1 OF 1 SHEETS

Contract Change Order No. 15

CONTRACT: **Van Buren Bridge Project**

WORK ORDER NO. **B0-0801**

TO: **Griffith Company** CONTRACTOR: YOU ARE HEREBY DIRECTED TO MAKE THE HEREIN DESCRIBED CHANGES FROM THE PLANS AND SPECIFICATIONS OR DO THE FOLLOWING DESCRIBED WORK NOT INCLUDED IN THE PLANS AND SPECIFICATIONS ON THIS CONTRACT.

Description of work to be done, estimate of quantities and prices to be paid. Segregated between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Estimate of Extra Work at Agreed Price:

As directed by the Engineer and in accordance with the applicable sections of the Special Provisions; compensate the Contractor for modification of the design, materials and construction of portions of the falsework for Van Buren Blvd. northbound bridge in lieu of removal of manmade buried material (old concrete bridge superstructure) which is in conflict with the locations of driven pile bents for supporting the falsework as shown in the contractor's approved falsework submittal. The existence of the man made buried material was not visible and not indicated in the contract plans, documents or the Special Provisions.

The Contractor agrees to accept the lump sum amount of \$480,000.00 which includes but is not limited to redesigning the falsework, providing the revised falsework materials, constructing redesigned falsework and the previous removal of portions of the manmade buried materials for construction of the CIDH's for northbound bridge, Piers 2 and 3. Furthermore, the contractor agrees to assume all risks for the redesign, the appropriateness of the design, the construction and any delays associated (including Time Related Overhead) with the modified falsework design and construction for Van Buren Blvd. northbound bridge for this agreed amount.

Estimated Cost: Decrease \$ _____ Increase \$ **\$480,000**

WE, the undersigned contractor, have given careful consideration to the change proposed and hereby agree that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above.

By reason of this proposed change 0 days adjustment of time will be allowed.

Accepted [Signature] 12/9/11
Griffith Company Date

[Signature] 11/8/11
Approval Recommended Date

[Signature] 12/20/12
Approval Recommended
Juan C. Perez, Director of Transportation Date

NOTE: This change order is not effective until approved by County. If the Contractor does not sign acceptance of this order, his attention is directed to the requirements of the specifications as to proceeding with the ordered work and filing a written protest with the time therein specified.

[Signature]
Approved
Chairman, Riverside County Board of Supervisors Date

Van Buren Bridge and Street Improvements
Contract CCO History

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