

TO THE HONORABLE MAYOR AND COUNCIL:

DATE: January 5, 2016

SUBJECT: APPROVE A CONTRACT CHANGE ORDER IN THE AMOUNT OF \$63,975 AND A RELATED BUDGET TRANSFER IN THE AMOUNT OF \$45,000 FOR THE CITYWIDE BRIDGE REPAIR PROGRAM GROUP 1 BRIDGES PROJECT (PROJECT NO. 2342) (FUNDED BY BRIDGE PREVENTATIVE MAINTENANCE PROGRAM GRANT AND GAS TAX FUNDS)

Report in Brief

On July 7, 2015, the City Council awarded a Construction Contract in the amount of \$640,000 to Bay Line Cutting and Coring, Inc. of Berkeley for the Citywide Bridge Repair Program-Group 1 Bridges Project (Project No. 2342) to construct repairs on six bridges. Two previous contract change orders were approved by staff and fell within the project's budget and staff's authorities. Change Orders 1 and 2 related to the need for replacement of expansion joint seals, increased quantities of deck crack and spall repairs as well as paving of the slopes under the bridges. With one bridge left to complete, an additional change order (Change Order 3) is needed to cover increased quantities of polyester concrete overlay required for the Willow Pass Road Bridge over Mount Diablo Creek. There are not adequate funds in the project budget to cover this additional cost. Therefore, a budget transfer in the amount of \$45,000 is required to fund the balance of the change order and provide a \$5,000 contingency budget for the pending repairs of the Walnut Avenue Bridge over the Contra Costa Canal which is scheduled to be constructed between January 1, and March 15, 2016. Staff anticipates that the majority of the costs for all three change orders, \$113,914.48, will be reimbursed to the City by Caltrans.

Staff recommends the City Council authorize the City Manager to execute Contract Change order No. 3 in the amount of \$63,975 and approve related budget transfers in the amount of \$45,000. The available project budget is sufficient to cover \$23,975 of the costs. These requested fund transfers will fund the balance needed.

**APPROVE A CONTRACT CHANGE ORDER AND RELATED
BUDGET TRANSFERS FOR THE CITYWIDE BRIDGE REPAIR
PROGRAM GROUP 1 BRIDGES PROJECT (PROJECT NO. 2342)**

January 5, 2016

Page 2

Background

On July 7, 2015, the City Council awarded a Construction Contract in the amount of \$640,000 to Bay Line Cutting and Coring, Inc. of Berkeley for the Citywide Bridge Repair Program-Group 1 Bridges Project (project No. 2342) to construct maintenance repairs on the following bridges:

- Willow Pass Road Bridge over Mount Diablo Creek, 28C-0034
- Diamond Boulevard Bridge over Walnut Creek Left, 28C-0189L
- Diamond Boulevard Bridge over Walnut Creek Right, 28C-0189R
- Cowell Road Bridge over Galindo Creek, 28C-0427
- Kirker Pass Road Bridge over Mount Diablo Creek, 28C-0116
- Walnut Avenue Bridge over Contra Costa Canal, 28C-0436

The repair work on five of the six bridges is complete. Work on the Walnut Avenue Bridge over Contra Costa Canal was postponed at the request of the Contra Costa Water District to coincide with their canal maintenance period which is scheduled between January 1 and March 15, 2016.

During the initial design phase of the project, the City's engineering consultant evaluated each bridge to identify needed repairs. However, close observation of many elements was not possible due to creek flows or height of the elements such as the top of the bridge piers and bottom of the bridge girders. It was recognized that during the repairs that the contractor would have the scaffolding, ladders and other means for better access to these components and would be in a better position to identify additional repair needs. Thus, the contract specifications were written with the intent to allow the contractor to address additional repair needs identified during construction at contract unit prices.

As anticipated, additional needs such as slope paving, replacement of joints seals, and spall repairs were identified by the contractor during construction on the first five bridges repaired. Prior to directing the contractor to proceed with the additional repairs, staff contacted Caltrans, who is the primary funding source of the project, to confirm eligibility of reimbursement for the repairs and to advise if the City is required to obtain approval prior to directing the contractor to proceed with the extra work. Caltrans advised staff that the work appeared eligible for additional funding and did not recommend suspending the work. Thus staff directed the contractor to proceed with the additional repairs, and submitted a formal request to Caltrans for additional funding. Caltrans also advised that though an increase in Bridge Preventative Maintenance Program (BPMP) funding is likely to be approved to cover the additional costs; the funds will not be available until March or April of 2016. Staff will work with Caltrans for timely reimbursement.

To date the contractor has completed and has been compensated for the extra work identified during construction for slope paving (under bridges), replacement of joint seals, and spall repairs of the five completed bridges under Contract Change Orders 1 & 2 at a total cost of \$49,939.48. The original project budget contingency was adequate to cover these first two change orders.

**APPROVE A CONTRACT CHANGE ORDER AND RELATED
BUDGET TRANSFERS FOR THE CITYWIDE BRIDGE REPAIR
PROGRAM GROUP 1 BRIDGES PROJECT (PROJECT NO. 2342)**

January 5, 2016

Page 3

Discussion

Execution of a third Contract Change Order is necessary to compensate the contractor for furnishing and installing polyester concrete (the bridge surface overlay) in excess of the contract bid amount on the Willow Pass Road Bridge over Mount Diablo Creek (Willow Pass Road Bridge).

The Willow Pass Road Bridge over Mount Diablo Creek repairs included a ¾” – 1” polyester concrete overlay for the deck surface. The bridge is 31 feet wide and over 1000 feet long. Small variations in thickness of the polyester concrete overlay have a significant impact on project costs. The additional polyester concrete volume needed to complete repair of this bridge results from a discrepancy between the estimated and actual quantity of material needed to conform to the bridge surface imperfections (filling in and conforming to the voids and undulations in the bridge surface); additionally, the placement of the filler has been extended to provide for a smoother transition to the bridge from the asphalt roadway. The cost of this additional volume of material and work is \$63,975. Council approval is required due to the magnitude of this change order and the cumulative cost of the changes.

Additional funds are required for the project budget to supplement funding for Contract Change Order No. 3 (\$63,975), and to provide a construction contingency (\$5,000) for work on the Walnut Avenue Bridge over the Contra Costa Canal. The project budget is sufficient to cover \$23,975 of these costs. Work on the Walnut Avenue Bridge is scheduled for construction between January 1, and March 15 of 2016. Contract Change Order Nos. 1, 2 & 3 will have a combined dollar amount of \$113,914.48 which is 18% of the base construction contract and will bring the total construction amount to \$753,914.48. Available gas-tax funds (Fund 262) from FY 14-15 Pavement Maintenance (Project No. 2329) and The Seismic Retrofit of the Marsh Drive Bridge over the Walnut Creek Channel (Project No. 1854) have been identified to cover the budget shortfall.

Staff’s request for additional funding from Caltrans is anticipated to be approved in March or April of 2016. Once the approval from Caltrans is received, staff will request reimbursement and return the funds transferred to this project to meet the funding shortfall to the City’s gas-tax fund balance.

Fiscal Impact

The project requires additional funding in the amount of \$45,000 to fund Change Order No. 3 and provide a \$5,000 contingency for the remainder of the project. There are sufficient gas-tax funds in CIP Project No. 1854 and Project No. 2329, to cover the necessary budget transfer. Contract Change Order Nos 1, 2 & 3 have a combined dollar amount of \$113,914.48 which is 18% of the base construction contract. The budget transfer and subsequent execution of Contact Change Order No. 3 will bring the total construction amount to \$753,914.48.

Public Contact

The City Council Agenda was posted.

**APPROVE A CONTRACT CHANGE ORDER AND RELATED
BUDGET TRANSFERS FOR THE CITYWIDE BRIDGE REPAIR
PROGRAM GROUP 1 BRIDGES PROJECT (PROJECT NO. 2342)**

January 5, 2016

Page 4

Recommendation for Action

Staff recommends to the City Council the following actions:

- Approve a \$40,000 budget transfer of gas-tax funds (Fund 262) from FY 14-15 Pavement Maintenance Project (Project No. 2329) to The Citywide Bridge Repair Program –Group 1 Bridges Project (Project No. 2342)
- Approve a \$5,000 budget transfer of gas-tax funds (Fund 262) from The Seismic Retrofit of the Marsh Drive Bridge Over the Walnut Creek Channel Project (Project No. 1854) to The Citywide Bridge Repair Program –Group 1 Bridges Project (Project No. 2342)
- Authorize the City Manager to execute Contract Change order No. 3 in the amount of \$63,975.

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