

*"Placerville, a Unique Historical Past Forging into a Golden Future"*



**City Manager's Report**  
**August 9, 2016 City Council Meeting**  
**Prepared By: Katy Webster, Associate Civil Engineer**

**Item#: 12.6**

**Subject:** Adopt a resolution approving Construction Contract Change Order Nos. 1, 2 and 3 with McGuire and Hester for the Blairs Lane Bridge Replacement Project (CIP #40604), in the amount of \$129,171.20.

**Background:**

At its regularly scheduled meeting on March 8, 2016, the Council approved the construction contract for the Blairs Lane Bridge Replacement Project (CIP #40604) with McGuire and Hester (M&H) in an amount of \$2,684,669.20.

Project construction began on April 18, 2016 and is ongoing.

**Discussion:**

The contractor has submitted all the necessary documentation and requests to process the appropriate Contract Change Orders (CCO) for the project as described below.

*Contract Change Order No. 1 – Potholing - \$28,415.56*

When construction began, McGuire and Hester performed utility potholing along Broadway in preparation for sewer and water line construction. During potholing operations a number of utilities originally shown on the project plans were mismarked by Underground Service Alert (USA). Upon notification from M&H of the inconsistency with the project plans and USA marks, the City immediately contacted B&B locating to use Ground Penetrating Radar (GPR) to correctly locate utilities within the project limits. Once GPR was completed, M&H was able to complete the potholing operations. Additional unknown utilities were also discovered with the GPR, requiring M&H to perform additional potholing. The total delay to the project due to mismarked utilities and additional potholing was seven (7) working days with a total cost of \$28,415.56. This change order was discussed and verified by the Construction Management Team, UNICO Engineering, and subsequently by City Staff.

*Contract Change Order No. 2 – 10" Water Line - \$87,021.03*

During project layout of the underground utilities, it was identified that the existing 36" storm drain north of the bridge was in conflict with the new sewer system. This conflict required the storm drain to be relocated east of the alignment previously shown in the contract plans. In order to shift the storm drain, the City's existing 10" water main along Blairs Lane was then in conflict with the realigned storm drain. Environmental regulations require water mains to be a minimum of 4-feet horizontally from a storm drain. In order to maintain clearances and avoid additional conflict between the new sewer, relocated storm drain and water systems, the water main required relocation. City Staff worked diligently to identify functioning valves within the aged

system to isolate the section of 10" water main to be relocated. After spending several unsuccessful days attempting to locate shut-off valves, M&H installed an *insert-a-valve* on the 10" water main at the northwest corner of the Broadway and Blairs Lane intersection. An existing shut-off valve was identified behind 1332 Broadway. Once the valves were in place and the water line isolated, M&H removed the section of water line pipe from the bridge north to Broadway and installed approximately 100-lf of new 10" water main. The total delay to the overall project schedule was 9-days with a cost of \$87,021.03. The change order was reviewed and verified by both UNICO and City Staff.

*Contract Change Order No. 3 – Various Items of Work - \$13,734.61*

CCO No. 3 included the following items of non-contract work:

1. Adjustment to 6" waterline to Pressure Reducing Station – Upon installation of the 6" waterlines to the new Pressure Reducing Station it was discovered that the existing storm drain along Blairs Lane was higher than shown on the project plans. This required the water line to be adjusted over the top of the storm drain. Costs associated with the additional time and materials are \$4,419.12 and one additional day for the contract schedule.
2. Sawcut Additional AC Depth – Project documents indicate 6" of asphalt concrete along Broadway, actual thickness varied up to a depth of 16" thus requiring different equipment than required by the project documents and assumed at bid. Costs associated with the additional time and materials are \$4,538.29. No additional contract time was requested for this change.
3. CCTV of Existing Sewer Mains – A portion of work with this construction contract includes installing a new 15" sewer main in Broadway to replace the function of an existing deteriorated 4" main in Broadway and an existing 12" sewer main located in Hangtown Creek. During potholing operations of the existing 4" sewer, additional sewer services were found and required tie-in to the proposed 15" sewer main. To verify this was not the case with the existing 12" main, direction was given to M&H to verify and locate all active laterals that would be tied into the 15" line from the existing 12" line. M&H completed closed circuit television (CCTV) inspection of the existing 12" sewer main and revealed no additional sewer services requiring attention. Costs associated with the additional time and materials for the CCTV are \$4,777.20. No additional contract time was requested for this change.

The total combined delay to the overall project schedule was 1-day with a total combined cost of \$13,734.61. The change order was reviewed and verified by both UNICO and City Staff.

**Budget Impacts:**

The Blairs Lane Bridge Replacement Project is funded primarily through the Federal Highway Bridge Program (HBP). The City Council adopted the Fiscal Year 2005/2006 Capital Improvement Program (CIP) Budget which appropriated \$1,265,000 for the Blairs Lane Bridge over Hangtown Creek Project (CIP #40604). The City Council appropriated an additional \$32,600 at its meeting held on February 25, 2014. At its regularly scheduled meeting held on June 23, 2015, the Council approved an additional \$3,374,360 budget appropriation for a total project budget of \$4,671,960.

To date, the project has encumbered the following costs:

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McGuire and Hester Original Contract	\$ 2,684,669
McGuire and Hester (Proposed Change Order No. 1)	28,416
McGuire and Hester (Proposed Change Order No. 2)	87,021
McGuire and Hester (Proposed Change Order No. 3)	13,735
UNICO Engineering, Inc. (NTP #1)	390,063
Quincy Engineering, Inc. (Original Agreement)	105,500
Quincy Engineering, Inc. (Addendum No. 1)	311,400
Quincy Engineering, Inc. (Addendum No. 2)	115,910
Quincy Engineering, Inc. (Addendum No. 3)	43,400
Quincy Engineering, Inc. (Addendum No. 4)	172,000
Quincy Engineering, Inc. (Addendum No. 5)	211,177
Quincy Engineering, Inc. (Addendum No. 6)	-
Quincy Engineering, Inc. (Addendum No. 7)	40,500
AT&T	3,426
B & B Locating, Inc.	2,000
Best Best & Krieger	27,683
California Department of Transportation	7,196
Counihan Consulting Engineering	1,330
John Driscoll, City Attorney	2,696
E&TS Consulting	162
El Dorado County Environmental Management	438
El Dorado County Recorder/Clerk	1,800
El Dorado Water & Shower Services, Inc.	7,390
Ferguson Enterprises	335
Foothill Tree Service	2,565
Holdredge & Kull	3,823
Inter-County Title Company	33,269
McDonough Holland & Allen	415
Mountain Democrat	102
Omni Means-Interim City Engineer	3,375
Patrick Orelli	650
PCS Appraisal	3,250
PG&E	113,780
Placer Title Company	54,052
Sierra Rock	1,480
State Department of Fish and Game	5,158
State Treasury, Condemnation Fund	1,395
State Water Resources Control Board	3,960
Statewide Traffic Safety	1,288
National Fish and Wildlife Foundation	17,800
Engineering Staff	98,364
<b>Total</b>	<b>\$ 4,602,973</b>

As you can see, the \$4,602,973 in total project encumbrances, including the proposed \$129,171.20 construction contract change orders (Nos. 1, 2, and 3) with M&H, is within the \$4,671,960 project budget.

**Recommendation:**

Adopt a resolution approving Construction Contract Change Order Nos. 1, 2 and 3 with McGuire and Hester for the Blairs Lane Bridge Replacement Project (CIP #40604), in the amount of \$129,171.20.



Rebecca Neves, City Engineer



Pierre Rivas, Development Services Director



M. Cleve Morris, City Manager

**Attachments:**

1. Resolution
2. Summarized Proposed CCOs Nos. 1, 2, and 3