



Item: Change Order No. 1 and Final Payment, Lower River Road Landslide, O.F. 1611.4

From: Engineering Division

Initiated By: Public Works Department

Presented By: Jim Rearden, Public Works Director

Action Requested: Approve Change Order No. 1 and Final Payment

Suggested Motion:

1. Commissioner moves:

"I move the City Commission approve Change Order No. 1 for \$12,700.50 and final payments of \$61,374.12 to Tamietti Construction Company (Tamietti) and \$619.94 to the State Miscellaneous Tax Division for the Lower River Road Landslide, O.F. 1611.4, and authorize the City Manager to execute the necessary documents."

2. Mayor calls for a second, discussion, inquiries from the public, and calls for the vote.

Staff Recommendation: Approve Change Order No. 1 and Final Payments.

Background:

Original Bid Opening Date: Three bids were received and opened for this project on September 21, 2011.

Bid Amount: Tamietti submitted the low bid of \$310,900.00.

Commission Award Date: The City Commission awarded the contract to Tamietti on October 4, 2011.

Change Order: Changes in the project scope due to subsurface changes added work, and requires a change order in the amount of \$12,700.50. This change order provides for additional lengths of sheet piling driven on the southern 70 feet of the retaining structure.

Final Payment: The final project cost is \$323,600.50, which includes this change order.

Project Work Scope: This project stabilized a stretch of roadway that had failed due to sliding within a fill section during the high flood water in April and May of 2011. The slide is located approximately one mile south of the water treatment plant on Lower River Road and adjacent to the Missouri River. Due to space constraints of the river and railroad on either side of the roadway, no option existed for realignment to provide further setback or to avoid the fill material.

This project installed 200 feet of steel sheet piling, with an underdrain in the backfill zone. The contractor removed, salvaged and reset guardrail and salvaged and reset riprap encountered during construction. The city street division patched the roadway after the sheet piling was installed.

Pile lengths were pre-determined based upon information obtained from two soil borings conducted by NTL Engineering (NTL) on June 27, 2011. Pile driving began on November 14, 2011 on the north end of the wall. As pile driving progressed from north to south, pile advancement slowed to near refusal at or near the predetermined depths into the underlying shale layer. Beginning around the 130-foot wall location, NTL observed that piles were not slowing to near refusal as the 30-foot design depth was approached. At that time it was decided that advancement of two additional borings would be required to determine the depth of the clay shale layer.

NTL drilled the additional holes near the 140- and 180- foot wall locations. Results indicated that refusal in the clay shale was at 37 and 45 feet respectively for the additional holes. Based upon this information, it was decided to extend the piles at graduated lengths from 5.5 feet up to 18 feet at the 130- and 200-foot locations respectively. Pile driving to the revised depths was completed on November 30, 2011. NTL, City engineering, and Tamietti kept track of the additional materials, equipment and labor costs for a final change order.

Conclusion: Construction was substantially complete on December 2, 2011, which is the start date for the two year warranty. Punchlist items have been completed and all areas have been accepted by the City staff. City staff recommends approving this change order with Tamietti Construction in the amount of \$12,700.50. This change order increases the contract amount from \$310,900.00 to \$323,600.50.

Reconstruction of the roadway will be contracted out during the 2012 construction season. The contract will excavate and remove the existing roadway fill material; remove and reset the guardrail; and install and compact structural backfill material, gravel base, and pavement surfacing. The river bank will be re-vegetated.

Fiscal Impact:

The Street Projects Fund was used to fund this project. Up to 75% of the project costs are eligible for reimbursement from the Federal Emergency Management Agency (F.E.M.A.).

Attachments:

Change Order No. 1 and Final Payments

February 2, 2012

Tamietti Construction Co.
P.O. Box 6547
Great Falls, MT 59406

RE: Lower River Road Landslide, O.F. 1611.4
Change Order No. 1

Dear Mr. Tamietti:

Enclosed are two copies of proposed Change Order No. 1 for the above-referenced contract. Please review and sign both copies and return them to me.

This change order incorporates costs for additional work to extend the southern 70 feet of the sheet pile wall along Lower River Road. If you have any questions, I can be reached by phone at 771-1258, Ext. 120.

Sincerely,

Jason Handl, P.E.
Senior Civil Engineer

JTH/jth

CHANGE ORDER

No. 1

DATE OF ISSUANCE February 2, 2012 EFFECTIVE DATE February 21, 2012

OWNER City of Great Falls

CONTRACTOR Tamietti Construction Co.

Contract: Lower River Road Landslide, O.F. 1611.4

OWNER'S Contract No. O.F. 1611.4 ENGINEER'S Contract No. _____

You are directed to make the following changes in the Contract Documents.

Description: Increase the length of sheet piling installed on the southern 70 feet of the retaining wall..

Reason for Change Order: To extend piles into the clay shale for proper embedment at graduated lengths beginning with 5.5 feet and up to 18 feet at the 130- and 200-foot locations, respectively.

Attachments: (List documents supporting change)

<p align="center">CHANGE IN CONTRACT PRICE:</p> <p>Original Contract Price</p> <p>\$ <u>310,900.00</u></p> <hr/> <p>Net changes from previous Change Orders No. _____ to _____</p> <p>\$ <u>0</u></p> <hr/> <p>Contract Price prior to this Change Order</p> <p>\$ <u>310,900.00</u></p> <hr/> <p>Net Increase (decrease) of this Change Order</p> <p>\$ <u>12,700.50</u></p> <hr/> <p>Contract Price with all approved Change Orders</p> <p>\$ <u>323,600.50</u></p>	<p align="center">CHANGE IN CONTRACT TIMES:</p> <p>Original Contract Times</p> <p>Substantial Completion: <u>45 days</u></p> <p>Ready for final payment: _____ days or dates</p> <hr/> <p>Net change from previous Change Orders No. _____ to No. _____</p> <p align="center"><u>0</u> days</p> <hr/> <p>Contract Times prior to this Change Order</p> <p>Substantial Completion: <u>45 days</u></p> <p>Ready for final payment: _____ days or dates</p> <hr/> <p>Net Increase (decrease) of this Change Order</p> <p align="center"><u>0</u> days</p> <hr/> <p>Contract Times with all approved Change Orders</p> <p>Substantial Completion: <u>45 days</u></p> <p>Ready for final payment: _____ days or dates</p>
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RECOMMENDED:

APPROVED:

ACCEPTED:

By: _____
Engineer (Authorized Signature)

By: _____
Owner (Authorized Signature)

By: _____
Contractor (Authorized Signature)

Date: _____

Date: _____

Date: _____

Change Order No. 1 (page 2)
Date: February 21, 2012
Agreement Date: October 5, 2011

Project: Lower River Road Landslide, O.F. 1611.4

Approvals Required:

Approved by: _____
Gregory T. Doyon, City Manager

Attest: _____
Lisa Kunz, City Clerk

(Seal of the City)

Reviewed for Legal Content: _____
James W. Santoro, City Attorney