



Staff Report

TO: Board of Directors

FROM: Doug Roderick, P.E., Interim Engineering Manager
Adrian Schneider, P.E., Senior Engineer

DATE: October 21, 2021

SUBJECT: French Dam Upgrades Project (Project #2360) (Consent)

ENGINEERING

RECOMMENDATION:

Ratify the Change Order 3 with Glissman Excavating in the amount of \$94,454.90 and authorize the General Manager to execute the appropriate documents.

BACKGROUND:

The Board approved the French Dam Upgrades Project construction contract with Glissman Excavating on July 27, 2021. The project includes the construction of a rock wall measuring weir structure located in the creek below the dam outlet. The design plans show a 16-foot long structure with a foundation depth of approximately two feet below existing ground.

Project construction began in August of this year. After removing the loose material in the field, it was determined that the rock wall required modifications. In order to establish a better sealing depth against water passage under the wall, excavation was directed to go deeper than planned. Additionally, the wall's location and length were revised and extended to better seal off the ends of the rock wall to competent, solid rock. Upon further digging of the foundation, it was determined that a total depth of 4 1/2 feet of foundation would be adequate for reducing the passage of flow under the rock wall, extending the total depth of the foundation an additional 2½ feet beyond the initial plan. Due to the new trench depth requirement to get to competent material, an additional 30 linear feet is necessary, making the overall rock wall length 46 linear feet.

This change order includes the labor and materials to excavate the additional volume and place the additional materials required to build up the rock wall. Due to the remote location, equipment is not accessible, and all excavation work is performed by hand.

Change Order 1 was due to unanticipated field conditions, as additional voids in the upstream dam face were found during construction.

Change Order 2 work includes excavation of an additional 2.5 vertical feet of foundation trench to create a cutoff wall and extend the trench an additional 30 linear feet, fracturing of large rocks, and ordering/delivering additional material. Due to limited time left related to weather concerns and permit requirements, the additional work necessary to complete the rock wall measuring weir was broken up into two change orders. Staff authorized the contractor to begin working on the revised rock wall measuring weir by approving Change Order 2.

Since the costs for the additional work necessary for the rock wall measuring weir exceeds the 25% threshold for staff signature authority, Change Order 3, in the amount of \$94,454.90, is for the remaining amount of work required to complete the weir/rock wall installation.

Due to the ongoing information technology issue that started the week of October 4, 2021, the regularly scheduled Board Meeting on October 15, 2021, was cancelled. Due to the fact that the additional excavation needed to complete the trench for the cutoff wall and the extended portion of the wall was initiated under Change Order 2 and that Change Order 3 would have completed the extended rock wall measuring weir structure in the location of the excavation, the General Manager authorized Change Order Number 3 that would have been presented to the Board for consideration during the October 13, 2021 Board Meeting. This decision was made consistent with Board Policy 3080.4, Emergency Purchases, in order to ensure the work can be completed prior to any storms impacting the construction site that could the dam outlet structure but also the water quality of the stream due to erosion.

As such, Staff is now recommending that the Board ratify Change Order 3 in the amount of \$94,454.90. The total adjusted contract amount, including all three change orders, is \$890,888.97. This total is still below the next lowest bid received, which was for \$1,566,340.

The following table provides detail on the change orders and percentages.

	Definition	Amount	Cumulative Contract Change	Cumulative Percentage
Change Order	Original Contract Amount	\$677,933.97		
1	Repairing Deep Voids in Dam Face - Unanticipated Field Conditions	\$18,500.00	\$696,433.97	2.7%
2	Funds to Allow Contractor Continued Work on Weir/Rock Wall - Unanticipated Field Conditions	\$100,000.00	\$796,433.97	17.5%
3	Remaining funds to complete Weir/Rock Wall due to increased volume and length	\$94,454.90	\$890,888.87	31.4%

BUDGETARY IMPACT:

The 2021 adopted budget for this project was \$1,560,000. This included \$1,040,000 for Project #2360 and \$520,000 for Project #2007 (Account #50112-52921). To date, including encumbrances, there has been \$979,566.12 expended on this project. After this commitment, there will be \$485,978.98 remaining.

ATTACHMENTS: None

DR/AS