

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: December 9, 2009

Board Item: V-A-14

**CHANGE ORDER NO. 6  
FOR THE HOWE-HALLER RESERVOIR  
SLOPE IMPROVEMENTS  
CONTRACT 11969A**

Action by Consent

Action

Information

On April 27, 2009, the Board awarded Contract 11969A to Triston Construction, Inc. for the Howe-Haller Reservoir Slope Improvements in the amount of \$533,845.00.

Five change orders have previously been approved in the total amount of \$181,606.90. Change Order No. 6, in the amount of \$196,279.10, is requested and extends the completion date to September 19, 2009. This change order was previously mention in the October 14, 2009 Board Item in Change Order No. 4.

During the construction of the Howe Haller Slope Stabilization Project, the overexcavation of the Zone 2 liner and buttress liner foundations occurred as a result of unforeseen geologic conditions. This material was to be placed to stabilize the side slopes and to act as an erosion control liner (or wearing surface) over the face of the stabilized slopes. As a result, quantity overruns of 69,364 Cubic Yards (CY) of buttress material placement and 39,268 CY of Zone 2 material placement were realized, resulting in an increase to the contract of \$152,110.60.

Also, under a separate contract, approximately 254,118 CY of Zone 2 liner material was processed and stockpiled within and immediately adjacent to the Howe Haller A and B Reservoirs. As a result of required overexcavation, an additional 12,150 CY of Zone 2 material was needed to complete the construction of the slope liner. The Contractor was required to construct a haul road in the bottom of Howe Haller B Reservoir and to haul the additional Zone 2 material from the bottom of Hazeltine Reservoir to the placement area in Howe Haller B Reservoir, an additional haul distance of approximately 1.7 miles (round trip). As a result of this longer haul distance, the unit cost of the contract line item for "Install Zone 2 Slope Protection" increased by \$2.59 per cubic yard. Also included in this change order is the construction (and removal) of a temporary haul road to the placement area. This resulted in an increase to the contract of \$44,168.50 which, combined with the \$152,110.60 increase, totals \$196,279.10.

The 2009 Capital Budget (MPC 1AL0239) includes funds for this project.

*There is no Minority and Women Business Enterprise (MWBE) goal for this project, as there is no subcontracting work. MWBE firms had the opportunity to bid on the project as a General Contractor. No bids were received from MWBE firms.*

**RECOMMENDATION**

It is recommended the Board approve Change Order No. 6 to Contract 11969A in the amount of \$196,279.10, bringing the total contract amount to \$911,731.00 and extending completion date to September 19, 2009.

**Budget Considerations**

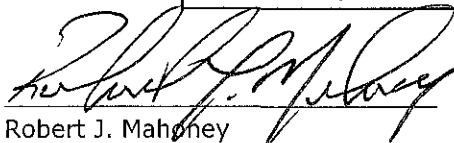
Master Plan Code(s): 1AL0239


- Budgeted Item    ○ Unbudgeted Item    ○ Funds transferred from another project:

**Budget Information**

2009 Budget	\$950,000.00
Amount Requested This Item	\$196,279.10
YTD Expenditures	\$900,040.00
Additional Expenditures Anticipated	\$175,000.00
Revised 2009 Estimate	\$1,271,319.10
Variance Required	\$321,319.10

Approvals:

  
Robert J. Mahoney  
Director of Engineering

  
Manager Approval