

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: October 13, 2010

Board Item: V-E-5

**CHANGE ORDER NO. 5 WITH GLOBAL DIVING AND SALVAGE, INC.
FOR THE CHEESMAN UPSTREAM CONTROL PROJECT – PHASE 1
CONTRACT 11577A**

Action by Consent

Action

Information

On October 28, 2009, the Board awarded Contract 11577A to Global Diving and Salvage, Inc. for the Cheesman Upstream Control Project Phase 1 Contract in the amount of \$12,736,904. Four change orders have previously been approved in the total amount of \$593,511.59.

Change Order No. 5, in the amount of \$288,437.21 is requested, and covers the changed underwater physical conditions encountered at the Mid Level gate installation. The majority of the costs (\$283,538.54) are associated with the Work Change Directive (WCD) authorizing the contractor to proceed with increasing the size of the tunnel portal cap and additional rock excavation to accommodate the pre-purchased trashrack. A memorandum to the CEO/Manager and the Board, dated August 19, 2010 (attached) outlined the requirement for additional work due to the differing underwater physical conditions. Change Order No. 5 covers the Mid Level work area and contains WCD's 10A and 11 and modifications to the contract as described below:

- Increase the size of the Mid Level tunnel portal cap by placing additional rebar, rock anchors, formwork, and grout.
- Additional rock excavation to install trashrack.
- Hydraulic valve change.

To date, both the Auxiliary Level and Mid Level gate installations are complete. The Low Level installation is in progress and is anticipated to be complete first week of November. Performance testing of the system will be the last project activity and is scheduled for the second week in November.

Note: Change Order No. 6 will be presented at the November Board Meeting. Change Order No. 6 covers additional blasting and excavation at the Low Level tunnel portal. It was discovered through the underwater survey that a large area behind the gate anticipated to be competent rock contained poor quality masonry. The discovery resulted in a design change requiring the contractor to perform additional blasts and excavation to reposition the gate and spool further within the tunnel and beneath competent rock. A separate memorandum (attached) details the need for the design change.

The 2010 Capital Budget (MPC 1AB0012) includes funds for the original contract amount and a contingency fund. It is recommended the Board approve a \$288,437.21 variance for Change Order No. 5, and leave the remaining contingency fund (\$169,536.00) intact for future use.

RECOMMENDATION

It is recommended the Board approve Change Order No. 5 to Contract 11577A with Global Diving and Salvage, Inc. in the amount of \$288,437.21, bringing the total contract amount to \$13,618,852.80.

Budget Considerations

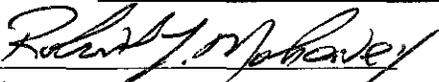
Master Plan Code(s): 1AB0012

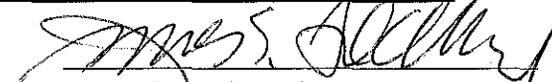
- Budgeted Item
- Unbudgeted Item
- Funds transferred from another project:

Budget Information

2010/2011 Budget	\$15,792,571.00
Amount Requested This Item	\$288,437.21
YTD Expenditures	\$12,854,273.00
Additional Expenditures Anticipated	\$2,649,860.79
Revised 2010/2011 Estimate	\$15,792,571.00
10-Year Budget Variance Required in 2011	\$0.00

Approvals:


Robert J. Mahoney
Director of Engineering


James S. Lochhead
CEO/Manager