

DENVER BOARD OF WATER COMMISSIONERS

Board Item: V-E-6

Meeting Date: October 13, 2010

**FIFTH AMENDMENT TO AGREEMENT WITH
BATES ENGINEERING FOR THE WILLIAMS FORK
SMALL HYDRO/OUTLET WORKS PROJECT
CONTRACT 11017A**

Action by Consent

Action

Information

This Board item requests approval of additional construction phase services to Agreement 11017A with Bates Engineering for structural, architectural and geotechnical related components of a combined new hydropower turbine and outlet works project at the Williams Fork Reservoir. The additional services consisted of office engineering support to address several significant project amendments that were added to the contract to address unknown conditions that were encountered as well as to cover costs associated with having a full time inspector on site to support in-house construction management personal on the project. The office support included: design of the outlet works floor replacement; complications with rock bolting; the design of an additional rock bolting system to address rock stabilization and sub-grade stabilization. In addition, a full time inspector provided by the consultant under this contract is requested as the project is transitioning to the heavy structural and electrical phases and a corresponding change to the inspection staff is needed. The project variance for this Board Item addresses necessary design changes for unforeseen conditions, inspection costs, and the cost for in-house resources.

This cost is broken down as follows: Bates Engineering (Structural Design): \$123,574.24; Short & Brennan (Architectural Design): \$8,959.10; CTL Thompson (Geotechnical Services): \$32,573.00 for a total amount of \$165,106.34. This will bring the total agreement amount to \$1,335,583.34 which includes the already completed design phase and bidding phase services.

The 2010 Capital Improvement Plan (MPC 1AD0022) will be supplemented by the variance request below. The variance requested has been projected in the 2010 budget forecast.

Bates Engineering is a certified Small Business Enterprise (SBE) and 73.5% SBE participation was achieved for this Amendment.

RECOMMENDATION

It is recommended that the Board approve the Fifth Amendment to Agreement 11017A to Bates Engineering for the additional Construction Phase Engineering Services for the Williams Fork Small Hydro/Outlet Works Project in the amount of \$165,106.34 bringing the total agreement amount to \$1,335,583.34. No extension to the July 30, 2012 contract completion date is requested in this amendment.

Budget Considerations

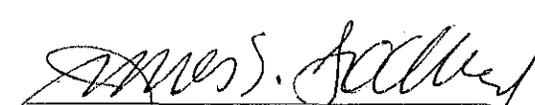
Master Plan Code(s): 1AD0022

- Budgeted Item Unbudgeted Item Funds transferred from another project:

Budget Information

2010/2011 Budget	\$13,320,093.00
Amount Requested This Item	\$165,106.34
YTD Expenditures	\$9,403,715.00
Additional Expenditures Anticipated	\$6,865,630.60
Revised 2010/2011 Budget	\$16,434,452.00
Variance Required	\$3,114,359.00

Approvals: 
Robert J. Mahoney, Director of Engineering


James S. Lochhead, CEO/Manager


for Patti Wells, General Counsel