

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: May 11, 2011

Board Item: V-A-3

**RATIFICATION OF AMENDMENT NO. 2  
WITH T. LOWELL CONSTRUCTION, INC. FOR THE  
EMERGENCY REPAIR OF CONDUIT NO. 94  
CONTRACT 12916A**

Action by Consent

Action

Information

Electromagnetic inspections of Conduit No. 94 (C94) were performed in 2003, 2007, and 2008. These inspections provided an estimate of the quantity of broken prestressing wires in the pipe and identified the location of distressed pipes. In 2010, staff hired a Consultant, Simpson Gumpertz & Heger Inc. (SGH) under Contract 11447A, to use the results of these inspections to perform a failure risk assessment study of C94. SGH concluded four pipes are at a high risk of failure and recommended electrical wire continuity tests which allow SGH to verify the distress level of the four pipes.

In March 2011, Denver Water issued Amendment No. 1 of Contract 12916A to T. Lowell Construction, Inc. which directed the Contractor to excavate and expose the four pipes for electrical wire continuity testing. The week of April 18, 2011, T. Lowell exposed the wires and SGH performed the electrical wire continuity tests. SGH discovered an unacceptably large quantity of broken wires in one of the four pipes and recommended immediate repair/replacement of the 16-foot pipe.

On April 26, 2011, quotes for the emergency repair were received from two large-diameter pipeline contractors currently under contract with Denver Water. Two quotes were received, with the low bid being submitted by T. Lowell Construction, Inc. of Castle Rock, Colorado, in the amount of \$153,000.00.

The 2011 Capital Improvement Plan (MPC 2DD0094) includes sufficient funds for this project.

**Recommendation**

It is recommended that the Board ratify the emergency repair and approve Amendment No. 2 to Contract 12916A in the amount of \$153,000.00.

**Budget Considerations**

Master Plan Code(s): 2DD0094

Budgeted Item     Unbudgeted Item     Funds transferred from another project:

**Budget Information**

2011 Budget	\$	461,613.00
Amount Requested This Item	\$	153,000.00
YTD Expenditures	\$	49,510.00
Additional Expenditures Anticipated	\$	259,103.00
Revised 2011 Estimate	\$	461,613.00
Variance Required	\$	0.00

Approvals:

  
for Robert J. Mahoney  
Director of Engineering

  
James S. Lochhead  
CEO/Manager