



TOWN OF ERIE

645 Holbrook Street
Erie, CO 80516

Town Council

Board Meeting Date: 5/12/2020

File #: 20-258, Version: 1

SUBJECT: GENERAL BUSINESS

A Resolution of the Board of Trustees of the Town of Erie Approving a Professional Services Agreement with SGM, Inc. for the Design of the Mobile Bypass System

DEPARTMENT: Public Works

PRESENTER: Todd Fessenden, Public Works Director

TIME ESTIMATE: 10 Min

FISCAL SUMMARY:

Cost as Recommended:	\$32,036
Balance Available:	\$250,000
Budget Line Item Number:	500-70-110-605000-100262
New Appropriation Required:	No

STAFF RECOMMENDATION:

Resolution to approve said contract, authorize the appropriate Town officer to execute said contract, and authorize Staff to expend said funds.

SUMMARY AND BACKGROUND OF SUBJECT MATTER:

Background:

A significant portion of the Town's water system in the Vista Ridge area, as well as proposed development to the north of this area is served by a pump station. From a reliability standpoint this is not ideal, a failure of the pump station could result in a loss of water service to this large area. The Town's Water Master Plan has long contemplated a 500,000 gallon water storage tank be built in Broomfield, a mile and a half south of Vista Ridge. The cost for this tank and related transmission line is estimated at roughly \$2 million. The reality of obtaining approval, land and easements for this infrastructure is questionable.

For this reason staff proposed an emergency interconnect with Broomfield in 2017, whereby a valve vault would allow for water from Broomfield's water system to be delivered into Erie's system in an emergency situation and vice versa. Erie currently has emergency interconnects with Lafayette and Left Hand Water District. Recently the interconnect agreement with Left Hand was revised to allow for interconnection throughout the respective service areas vs. at locations where vaults are in place. In working with Broomfield staff became aware that Broomfield's disinfection system is incompatible with Erie's. In order to create an interconnect between the two systems an elaborate and costly treatment vault would be needed. Such a system would result in a cost upwards of \$1.5 million. The cost to acquire a mobile interconnect system is anticipated to be \$350,000 or less.

Staff has experience with the design and implementation of a unique mobile pumping system which could create a mobile interconnect and has been employed successfully. Such a system could allow for the

transmission of water within the Town's system, or external systems (Left Hand & Lafayette), at a fraction of the cost of a single vault. We solicited a sole-source proposal from the engineering firm that designed that system and received a very reasonable proposal which is just above the limit of staff approval of \$25,000.

The total design estimate is \$29,036. Staff is requesting an additional allowance of \$3,000 for any unforeseen items that may arise.

Fiscal Impact:

The existing 2020 budget for this project is \$250,000, which was the anticipated design cost for a single interconnect. Any necessary piping needed to connect such a system in key areas would be additional, but far smaller in scale and subject to timing as this system could be operated between two existing fire hydrants.

ATTACHMENTS:

1. Resolution
2. Agreement