



## STAFF REPORT

**To:** Honorable Mayor and Members of Town Council

**Through:** David L. Corliss, Town Manager

**From:** Mark Marlowe, P.E., Director of Castle Rock Water  
Roy Gallea, P.E., Engineering Manager  
Erin Evans, P.E., Project Manager

**Title:** **Resolution Approving a Services Agreement between the Town of Castle Rock and Burns & McDonnell for the Front Street Downtown Connection, RWRWTC Pump Upgrades, and Liggett Road Pipe Upsize Projects** [*Located in various locations throughout Castle Rock, CO*]

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### Executive Summary

Castle Rock Water (CRW) staff requests approval of a resolution approving a Services Agreement (**Attachment A**) with Burns & McDonnell for the Front Street Downtown Connection, Ray Waterman Regional Water Treatment Center (RWRWTC) Pump Upgrades and Liggett Road Pipe Upsize engineering and design services. In the effort to reduce administrative and contracting costs, gain economies of scale and generate more competitive engineering bids, CRW staff combined three separate but smaller design projects into one request for proposals. The Burns & McDonnell proposal cost is \$405,500. This cost includes engineering and design services to add an additional transmission main between Front Street and Wilcox Street, complete modeling for the planned upgrades to the RWRWTC high service pump station and provide phasing recommendations for these upgrades, and upsize the distribution main from Plum Creek Water Purification Facility (PCWPF) in Liggett Road. The scope of services to be completed by Burns & McDonnell is detailed in the proposal included in *Attachment A*. Burns & McDonnell's rate and fee schedule is also an attachment to the agreement.

Burns & McDonnell shall undertake the work upon execution of the agreement and shall complete the work by 2025. Location maps for the Front Street Downtown Connection and Liggett Road Upsize projects are provided in attachments to the agreement (**Attachments B and C**).

### ***Estimated Project Budget***

Engineering	\$ 405,500.00
Construction - Liggett Rd	\$ 3,000,000.00
Construction - Front st. Downtwn	\$ 1,400,000.00
Construction - RW Pumps	TBD*
Land Acquisition	\$ 90,000.00

*\*Complexity determined through Hydraulic Analysis and Phasing Plan will drive construction cost*

### **Notification and Outreach Efforts**

CRW Staff will evaluate the need for public outreach based on final design location and the level of impact to the public. At this time, no public meetings are included in the scope of work.

### **History of Past Town Council, Boards & Commissions, or Other Discussions**

Castle Rock Water staff presented this item to the Castle Rock Water Commission at their meeting held on March 27, 2024.

### **Discussion**

Downtown Castle Rock is located in the Yellow Pressure Zone and is served by one 12-inch water main that connects to Elbert and Third Street from PCWPF. The oldest portion of this transmission main was constructed in 1988 and crosses I-25, Plum Creek, and BNSF Railroad tracks. As this pipeline ages, the probability for leaks and failures of this line increase. If repairs are needed to the existing pipeline, the entire supply to downtown has the potential to be interrupted for the duration of the repair work, causing disruptions to the businesses and residences located within the downtown area. Through the Front Street Downtown Connection project, an additional 2,600 Linear Feet of 12" transmission main will be designed and constructed to connect Front Street to Wilcox Street. This additional connection point will provide redundancy in supply to downtown and will support current and future development in the area.

As Water Infrastructure and Supply Efficiency (WISE) Partnership water becomes increasingly available to Castle Rock, pumping improvements are needed at the RWRWTC. The Red Zone and Green Zone pumps will undergo several phases of upgrades to keep up with increasing supplies of water to the plant. Through this project an initial hydraulic analysis and phasing plan will be developed to guide planning efforts on the future upgrades to the High Service Pump Station. Castle Rock Water anticipates the first phase of upgrades that will be identified through this project are the Red Zone pumps. The full design of the upgrades will be completed as a separate service agreement.

Castle Rock Water is currently in the design stage of expanding PCWPF from 6 Million Gallons per Day (MGD) to 12 MGD. Upon completion of the plant expansion project, the existing 16-inch main in Liggett Road from the plant to the distribution system will be a bottleneck location for the increased production from the plant. CRW engineering has identified the need to install approximately 2,000 LF of 24-inch and 3,000 LF of 16-inch water main to distribute the increased flows from the plant.

A Request for Qualifications (RFQ) was advertised on bidnet to procure qualified consultants for the 2024 on-call professional services for various Castle Rock Water Capital Improvement Projects. A project specific Request for Proposal (RFP) was then sent to six of the pre-qualified consultants for this project. The following table shows the fee proposals received from five of the consulting firms:

<b>Consulting Firm</b>	<b>Total Cost</b>
AE2S	\$426,014
Conсор Engineering	\$649,093
Forsgren	No Proposal
Dewberry Engineers	\$510,900
Providence Infrastructure	\$427,656
Burns & McDonnell	Total: \$405,500 (Base: \$359,700 Add Alt: \$45,800)

Burns & McDonnell was chosen by the selection committee to perform the design services for this project and staff has determined the price provided is reasonable. Burns & McDonnell were the only consultant to provide alternates in their proposal fee. Task 701 (Permitting with RR and CDOT) and Task 702 (Environmental Studies) were included in their total fee consideration in order to provide proper scope comparison between all fees received. Castle Rock Water staff also selected the addition of these two alternates to more closely adhere to the project expectations and requirements. Some of the consultants that were invited to propose on this project could not fit this work into their current project loads.

**Budget Impact**

The Burns & McDonnell proposal fee is \$405,500. Staff requests an additional \$40,550 (Town-managed 10% contingency) be authorized for a total project authorization of \$446,050. The project will be funded from the accounts shown below.

<b>Account Name</b>	<b>Account Number</b>	<b>Amount Requested</b>	<b>Contingency Requested</b>	<b>2024 Budget</b>
Frnt St to Dwntrwn Wtrline	210-4275-442.79-29	\$405,500	\$40,550	\$1,063,000

**Staff Recommendation**

Staff recommends Town Council approval of the resolution awarding the Services Agreement for the Front Street Downtown Connection, RWRWTC Pump Upgrades and Liggett Road Pipe Upsize design services to Burns & McDonnell in the amount of \$405,500 plus a Town-managed 10% contingency in the amount of \$40,550, for a total authorization of \$446,050.

**Proposed Motion**

*“I move to approve the Resolution as introduced by title.”*

## **Alternative Motions**

*“I move to approve the resolution as introduced by title, with the following conditions: (list conditions).”*

*“I move to continue this item to the Town Council meeting on \_\_\_\_\_ date to allow additional time to (list information needed).”*

## **Attachments**

Attachment A: Resolution  
Exhibit 1: Agreement and Scope of Services  
Attachment B: Location Map for Front Street Downtown Connection  
Attachment C: Location Map for Liggett Road Pipe Upsize