



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
Erik Dam, P.E., CFM, Project Manager

Title: **Resolution Approving a Construction Contract Between the Town of Castle Rock and 53 Corporation, LLC for the East Plum Creek Reach 5 Phase II Stabilization Project** [*East Plum Creek west of the Plum Creek Water Purification Facility*]

Executive Summary

Castle Rock Water is seeking Town Council approval of a Resolution (***Attachment A***) awarding a Construction Contract to 53 Corporation, LLC for the East Plum Creek Reach 5 Phase II Stabilization Project in the amount of \$2,512,796.55 plus a 10% Town-managed contingency in the amount of \$251,279.66 for a total authorization of \$2,764,076.21.

The project is located within the East Plum Creek drainageway west of the Plum Creek Water Purification Facility (PCWPF). Improvements will stabilize approximately 1,300 linear feet (LF) of channel with Soil Riprap, Void-Filled Riprap, two sculpted concrete drop structures and extensive landscaping to preserve wetlands and natural habitat (see ***Attachment B***). Additionally, the existing CR-1 water diversion facility will be upgraded to provide improved year-round access to water rights on East Plum Creek.

This project will be funded through the Stormwater Enterprise Fund and Water Resources Fund, with construction completion projected by the end of September 2025. Construction will be scheduled to minimize impacts to renewable water diversions during irrigation season.

Notification and Outreach Efforts

The project is located within and adjacent to Town owned property. Staff will provide notifications to the public via news releases and social media postings as needed. A temporary detour will be installed for a portion of the East Plum Creek Trail to allow for construction access to the site, and signage and flaggers will be utilized to inform trail users. Project details and updates will be provided on CRgov.com/water.

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

This project was identified in the East Plum Creek Watershed Master Plan Preliminary Design Report (Master Plan), adopted by Council through Resolution No. 2009-03 on January 6, 2009.

Castle Rock Water staff presented this item to the Castle Rock Water Commission at their meeting held on February 26, 2025, and the Castle Rock Water Commission voted unanimously 5 to 0 to recommend Town Council approval of the Resolution as presented.

Discussion

The Town has multiple objectives to be achieved through channel stabilization along Reach 5 of East Plum Creek that include but are not limited to:

- Preserve and enhance the riparian and wetland corridor by incorporating natural designs and features where possible that complement the natural and geological environment.
- Reduce channel slope and erosive velocities to restore a sustainable channel system for water quality and flood control.
- Protect existing infrastructure, including the CR-1 Diversion, sanitary sewer interceptor, East Plum Creek trail and adjacent property, by reducing channel erosion and migration during flood events.
- Restore original design grade above sanitary sewer interceptor, to the extent practicable.
- Minimize magnitude of construction impacts by protecting existing trees and vegetation where possible.
- Identify opportunities for permanent maintenance access from the existing trail to proposed channel improvements that fits the existing and constructed riparian corridor.

Specific objectives to be achieved through channel stabilization at the CR-1 Diversion include:

- Armor and protect the existing structure to prevent undermining and channel migration away from the screened section and catastrophic failure of the facility.
- Direct flows over the screened section to optimize water intake.
- Minimize sediment deposition on screened section.
- Construct an additional intake structure (infiltration gallery) upstream to provide additional capacity and redundancy.

The improvements to CR-1 including the infiltration gallery will allow the Town to capture additional water during high flow events. During these high flow events, the existing diversion is typically shut down due to the high sediment loads. The infiltration gallery will allow the Town to continue to capture water off of Plum Creek during high flow events since it will be located below the creek bed. The infiltration will also be used to increase the capture of additional water during normal operations. Additionally, any water that can be diverted off Plum Creek at this location will provide an extra benefit to PCWPF. Most of the Town's renewable water is collected at the Plum Creek Diversion located in Sedalia. Due to the pumping back from Sedalia to PCWPF, there is a large energy cost associated with the pumping operations. Any increase in flow that can be collected with CR-1 with its proximity to PCWPF will result in noticeably lower energy costs associated with pumping that water to PCWPF. Water quality is usually better at CR-1 for several specific parameters (total dissolved solids and contaminants of emerging concern like forever chemicals) in addition to the reduced energy needed to collect water at this location. This is because CR-1 is upstream

of the Plum Creek Water Reclamation Authority (PCWRA) discharge where these particular pollutants are introduced to the creek. Higher water quality helps to decrease operational costs, especially those associated with granular activated carbon for removal of forever chemicals.

Due to the length of Reach 5, stabilization will occur in multiple phases. Reach 5 Phases III and IV project limits are located north of this project between Meadows Parkway and North Meadows Drive, and will be designed and constructed under future capital improvement projects.

The Town solicited construction bids from six (6) selected contractors on Castle Rock Water’s Approved Contractors List, developed from qualifications submitted to the Town for storm drainage, water and sanitary sewer disciplines. Bids were received from three (3) of these contractors and are shown below:

<u>Contractor</u>	<u>Bid Price</u>
53 Corporation, LLC	*\$2,512,796.55
Native Sun Construction	\$3,664,728.36
Iron Woman Construction	**\$4,063,749.81
JHL Constructors	No Bid
Concrete Works of Colorado, Inc.	No Bid
Redline Pipeline, LLC	No Bid
 <i>Engineer’s Estimate</i>	 \$2,700,000.00

*A unit price error was discovered in Bid Item No. 15, CDOT Item No. 208-00400, Water Control resulting in a \$200,000.00 increase in the total bid. However, this did not alter the overall order of bids as the second low bid was still over \$1.1 million higher.

** Invalid Bid (Did not utilize Addendum No. 1 Revised Bid Schedule). Total Bid corrected from \$3,889,209.75.

53 Corporation, LLC is the confirmed lowest bidder, and has demonstrated that they are qualified to perform the proposed work under the contract, having successfully constructed previous similar projects for the Town and other local clients.

Budget Impact

Funds for this services agreement will be charged to the Stormwater, and Water Resources accounts below.

Fund	Account No.	Amount	Cont.	Total	Budget
SW – EPC	212-4475-444.76-37	\$1,199,174.00	\$119,917.40	\$1,319,091.40	\$0.00

Stream Stab					
WR – CR-1 Diversion	211-4375-443.79-16	1,313,622.55	\$131,362.26	\$1,444,984.81	\$2,500,000
Total		\$2,512,796.55	\$251,279.66	\$2,764,076.21	

A budget transfer will occur for both the stormwater and water resources portions of the work as follows:

To	Description	From	Description	Amount	Budget before Change	Budget After Change
212-4475-444.76-37	SW – EPC Stream Stab			\$1,320,000	\$0.00	\$1,320,000
		212-4475-444.75-72	Sellers Gulch Stream St.	\$-1,320,000	\$1,320,000	\$0,00
211-4375-443.79-16	CR-1 Diversion			\$1,445,000	\$0.00	\$1,445,000
		211-4375-443.77-54	Plum Creek Diversion Strc	\$-1,445,000	\$3,550,000	\$2,105,000

Staff Recommendation

Staff recommends Town Council approval of a Resolution awarding a Construction Contract with 53 Corporation, LLC for the East Plum Creek Reach 5 Phase II Project at a cost of \$2,512,796.55 plus a 10% Town-managed contingency in the amount of \$251,279.66 for a total authorization in the amount of \$2,764,076.21.

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: Construction Contract
- Attachment B: Project Site Map