



## **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 Construction Contract between the Town of Castle Rock and Inliner Solutions for the Young American Infrastructure Improvements Sanitary Sewer Rehabilitation Project** *[In the Young American neighborhood North of Memmen Ridge Open Space]*

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### **Executive Summary**

Castle Rock Water (CRW) is seeking Town Council approval of a resolution (**Attachment A**) approving a construction contract (**Exhibit 1**) in the amount of \$322,837 with Inliner Solutions along with \$32,284 (10%) staff-managed contingency funds, for a total authorization of \$355,121 to complete construction of the Young American Infrastructure Improvements Sanitary Sewer Rehabilitation Project. The project schedule is to begin work Summer 2024 and complete all work by January 2025.

The Young American Infrastructure Improvements Sanitary Sewer Project is located mostly along South Street in the Young American neighborhood (**Attachment B**). The neighborhood was constructed in the mid-1970s, and the water and sewer infrastructure in the project area is approaching the end of its useful life. The water distribution and sanitary collection systems have been designed for replacement and/or rehabilitation as part of CRW's ongoing rehabilitation and replacement program for aging infrastructure. Most of the sanitary sewer in the Young American neighborhood has been replaced and rehabilitated over the last 5 years. This project includes the rehabilitation of existing sanitary sewer using Cured-In-Place-Pipe (CIPP) to complete the remaining sanitary rehabilitation in the Young American neighborhood along South Street.

### **Notification and Outreach Efforts**

This project will require close communication with local residents, South Ridge Elementary School and the traveling public on South Street. Once an agreement is authorized, Inliner Solutions and CRW will partner to provide public notice including updates to the Town's

website, a targeted mailing sent to the residents directly impacted in the neighborhood, and the contractor will be required to provide separate notification on individual streets to residents as the work progresses. There will be short term disruptions to wastewater service as a crew works on a particular sewer main, and residents will be advised to discontinue inside water use during that time. South Ridge Elementary School will also be notified by CRW Staff of the upcoming project.

In order to mitigate public impacts, several working hour constraints are required by this project including; requiring all traffic control and equipment to be removed from South Street during pick up and drop off times, lining will only be performed during school breaks (Fall Break, Thanksgiving Break, etc.), and following the Town's permitted working hours and holiday schedule. It is unlikely that street closures will be required, but traffic control plans, coordinated through Public Works, will be in place to protect the public and work crews and to manage traffic. Residents will be advised to contact the Project Manager with any concerns or questions.

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

On August 15, 2023 Castle Rock Town Council voted unanimously to approve a resolution approving a services agreement with Dewberry Engineers, Inc. for the Young American Infrastructure Improvements Project, Bell Mountain Raw Pipeline, and Bell Mountain Flow Meter Vault Upgrade Projects.

Castle Rock Water staff presented this item to the Castle Rock Water Commission at their meeting held on June 26, 2024, and the Castle Rock Water Commission voted XXXX to XXX to recommend Town Council approval of the Resolution as presented.

### **Discussion**

The Young American neighborhood water and sewer infrastructure was constructed in the mid-1970s and the infrastructure that has not already been replaced or rehabilitated is approaching its end of life. The existing sanitary sewer mains in this area are vitrified clay pipe. Some of the sewer mains have been lined in recent years to extend the life of the pipes. The project area is the last area in the neighborhood requiring sewer main rehabilitation. The design project evaluated all of the existing sewer collection system in the area to create a rehabilitation plan for each pipe. Sanitary service connections within the Town's Right-of-Way were also evaluated for replacement and were added to the scope of the future Young American Infrastructure Improvements Waterline Replacement Projects to consolidate excavation and pavement replacement impacts into one construction project. The CIPP lining process included in this Sanitary Sewer Rehabilitation project allows for the pipelines to be rehabilitated while eliminating the requirement for excavation in the Right-of-Way. Storm sewer was evaluated in this neighborhood and was determined to not require upgrades as part of this project.

Future impacts to the Young American neighborhood include the Waterline Replacements Project mentioned above. This project was split into three phases (or areas) throughout the neighborhood, which are currently still in design and are planned to be constructed consecutively in 2025, 2026 and 2027. CRW has also partnered with Public Works to

coordinate pavement and sidewalk replacement with the waterline project to significantly reduce the number and duration of construction impacts to the neighborhood.

Much of the Town’s older sewer pipes are clay pipe (approximately 17 miles) that are more susceptible to root intrusion than modern-era polyvinyl chloride (PVC) pipe. Problem areas that have cracked and deteriorating pipe and significant root intrusion problems require annual root-cutting and cleaning. The roots tend to exacerbate and accelerate the pipe deterioration by growing through cracks and then expanding the cracks to a point of pipe failure. Roots can totally block the pipe, resulting in sewer backups, sometimes into basements. The service life of clay pipe can be extended 50 to 75 years by the method of CIPP lining. The lining effectively seals joints and is a very effective deterrent to root intrusion. Insitu rehabilitation now by the installation of a cured in place liner, before the pipe deteriorates to a failed condition that might require a street-cut to repair, is more cost effective, can be completed with minimal disruption to service and results in less future maintenance. CIPP lining is also effective at reducing infiltration of groundwater through joints in the sewer pipe. The Young American Infrastructure Improvements Sanitary Sewer Rehabilitation construction project will include rehabilitation of approximately 4,500 feet of 8-inch and 6-inch sewer mains with CIPP.

Bids were sent to three shortlisted contracting firms who specialize in CIPP projects. These contractors were pre-qualified as part of the 2024 Request for Qualifications (RFQ) for construction services. The bids received are summarized in the table below. Dewberry Engineers as the designer on this project provided an engineer’s estimate of \$351,822.

Company	Bid
Inliner Solutions	\$322,837.00
SAK	No Bid
Aegion/Insituform/C&L	\$339,517.50
Engineer’s Estimate	\$351,822

The low bid was received from Inliner Solutions and is considered a responsive bid.

**Budget Impact**

The Inliner Solutions bid is \$322,837. Staff requests an additional \$32,284 (10% Town-managed contingency) be authorized for a total project authorization of \$355,121. The project will be funded from the account shown below.

Account Name	Account Number	Amount Requested	Contingency Requested	2024 Budget
CIP/Young American Rehab	213-4575-445-79-31	\$322,837	\$32,284	\$2,400,000

**Staff Recommendation**

Staff recommends Town Council’s approval of the contract between the Town of Castle Rock and Inliner Solutions, for the construction of the Young American Infrastructure Improvements

Sanitary Sewer Rehabilitation Project in the amount of \$322,837 plus a 10% Town-managed contingency of \$32,284 for a total authorization of \$355,121.

**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:	Contract
Attachment B:	Location Map