



Staff Report

---

**File #:** 24-0509

---

**REQUEST FOR CITY COUNCIL AND  
CORONA UTILITY AUTHORITY ACTION**

**DATE:** 07/03/2024

**TO:** Honorable Mayor and City Council Members  
Honorable President and Board Members

**FROM:** Utilities Department

**SUBJECT:**  
MAINTENANCE/GENERAL SERVICES AGREEMENTS WITH SANCON TECHNOLOGIES, INC., AND  
INSITUFORM TECHNOLOGIES, LLC., FOR SEWER MAIN REHABILITATION

**EXECUTIVE SUMMARY:**

This staff report asks City Council to award Maintenance/General Services Agreements for Sewer Main Rehabilitation Services through Cured-In-Place Pipelining methods of sewer mains that are identified through closed-circuit television inspection throughout the City's service area.

**RECOMMENDED ACTION:  
That the City Council:**

- a. Award Request for Proposals No. 24-053SB for Sewer Main Rehabilitation to Sancon Technologies, Inc., of Huntington Beach, CA, and Insituform Technologies, LLC., of Santa Fe Springs, CA.
- b. Authorize the City Manager, or his designee, to execute the Maintenance/General Services Agreements with Sancon Technologies, Inc., and Insituform Technologies, LLC., in the amount of \$600,000 and \$300,000, respectively, to perform Sewer Main Rehabilitation Services, with 2 optional 2-year extensions, including the ability to negotiate and execute non-substantive changes & extensions, purchase orders, change orders and amendments up to 10% of the original contract amount.

**That the Corona Utility Authority** review, ratify, and to the extent necessary, direct that the City Council take the above actions.

**BACKGROUND & HISTORY:**

The Utilities Department (UD) operates and maintains approximately 400 miles of wastewater mains (including service laterals) and 5,000 manhole structures, treats 13.5 million gallons of sewer (per day on average), and serves approximately 144,000 customers. The city's underground sewer infrastructure consists of pipelines of varying sizes, types, and ages. A significant portion of the sewer mains comprises a vitrified clay pipe (VCP) installed during the mid-1900s. Vitrified clay pipes have a life expectancy of up to 100 years, but actual service life depends largely on pipe condition and working environment.

UD maintains a proactive program for sanitary sewer system assessment. This program utilizes closed-circuit television (CCTV) technology for inspections. A camera mounted on tracks is inserted into the sewer pipes and remotely guided to comprehensively examine the entire pipe length. This method identifies structural damage within the sewer mains, enabling targeted repairs or replacements. When the damage is less severe, trenchless rehabilitation techniques can be employed to restore the pipes without extensive excavation.

Cured-in-Place Pipe (CIPP) lining offers a trenchless technique for rehabilitating and restoring existing pipelines of various materials, like cast iron or VCP. Before installation, meticulous inspections with CCTV verify the pipeline's suitability, followed by high-velocity cleaning to remove debris and roots. The CIPP liner is a high-strength woven fiber saturated with an epoxy resin mix that hardens, forming a 4-millimeter-thick lining within the pipe. This method effectively reduces infiltration and leaks without digging, boasting a lifespan of up to 50 years under average use. Additionally, the lining protects against root intrusion, cracks, leaks, and other common underground utility damages. The strong epoxy coating provides superior properties, including damp-proofing, corrosion resistance, and wear resistance.

**ANALYSIS:**

On February 9, 2024, the Purchasing Division issued Request for Proposals (RFP) 24-053SB following the Corona Municipal Code (CMC) [Section 3.08.110](#). Existing VCP sewer mains, installed during the last 50 to 60 years, are suitable candidates for trenchless rehabilitation to extend their useful life. Some sections may exhibit less severe deterioration but are susceptible to further damage without the CIPP rehabilitation process. To ensure the VCP reaches its full potential longevity, employing CIPP on the compromised sections will prevent the need for complete pipe replacement soon.

The Utilities Department received the following proposals from two on-call contractors for Sewer Main Rehabilitation Services through Cured-In-Place Pipelining methods:

<b>Vendor</b>	<b>City</b>	<b>Evaluation Score</b>
Sancon Technologies, Inc.	Huntington Beach	91
Insituform Technologies, LLC	Santa Fe Springs	74

The Contractors will perform sewer main rehabilitation services and furnish all necessary supervision, labor, materials, tools, equipment supplies, tasks, transportation, and all incidental and customary work. These services will only be used for as-needed repairs identified through the UD's proactive CCTV inspection programs, urgency, and contractor availability.

The scope of work and estimated construction cost for Sewer Main Rehabilitation Services through CIPP, in accordance with the 2021 Greenbook Standard as submitted by both Sancon Technologies, Inc. and Insituform Technologies, LLC., are outlined as follows:

<b>NO.</b>	<b>ITEM DESCRIPTION</b>	<b>UNIT OF MEASURE (Lump Sum)</b>	<b>QTY.</b>	<b>SANCON TECH. PRICE</b>	<b>INSITUFORM TECH. PRICE</b>
1.	Mobilization/Demobilization	LS	1	\$1,500	\$13,250
2.	Traffic control (if needed)	LS	1	\$1,500	\$2,700
3.	Preliminary inspections	LS	1	\$1,500	\$3,750
4.	Surface preparation cleaning of pipeline to remove debris and roots	LS	1	\$1,500	\$7,600
5.	Reconnection of active HC's	LS	1	\$1,500	\$325
6.	6" CIPP Sewer main per 350 Linear feet	LS	1	\$9,000	\$19,045
7.	8" CIPP Sewer main per 350 Linear feet	LS	1	\$15,000	\$21,634
8.	10" CIPP Sewer main per 350 Linear feet	LS	1	\$16,000	\$23,974
9.	12" CIPP Sewer main per 350 Linear feet	LS	1	\$17,000	\$30,679
10.	16" CIPP Sewer main per 350 Linear feet	LS	1	\$18,500	\$43,445
11.	18" CIPP Sewer main per 350 Linear feet	LS	1	\$20,000	\$50,857
12.	24" CIPP Sewer main per 350 Linear feet	LS	1	\$22,000	\$76,907
13.	30" CIPP Sewer main per 350 Linear feet	LS	1	\$25,000	\$101,950
14.	Sewer manhole rehabilitation with epoxy lining (per City's standard manhole detail STD 302 with 5' diameter and 12' depth)	LS	1	\$8,000	\$7,032
15.	6" sewer main bypass pumping for the duration of the project (per 350 linear feet)	LS	1	\$500	\$2,454

16.	8" sewer main bypass pumping for the duration of the project (per 350 linear feet)	LS	1	\$1,500	\$2,454
17.	10" sewer main bypass pumping for the duration of the project (per 350 linear feet)	LS	1	\$1,500	\$2,454
18.	12" sewer main bypass pumping for the duration of the project (per 350 linear feet)	LS	1	\$1,500	\$20,833
19.	16" sewer main bypass pumping for the duration of the project (per 350 linear feet)	LS	1	\$1,500	\$22,499
20.	18" sewer main bypass pumping for the duration of the project (per 350 linear feet)	LS	1	\$1,500	\$22,919
<b>SCHEDULE-TOTAL PRICE IN NUMBERS (ITEM Nos. 1-20)</b>				\$166,000	\$476,761

Staff recommends that the City Council approve the \$600,000 and \$300,000 Maintenance/General Services Agreement for Sewer Rehabilitation Services with Sancon Technologies, Inc. and Insituform Technologies, LLC.

**FINANCIAL IMPACT:**

Funding for the recommended action is available in the Fiscal Year 2025 Utilities Department Operating Budget and the Sewer Main Rehabilitation at Various Locations Capital Improvement Project No. UT-2024-02 within the Sewer Utility Fund 572. Future funding requests will be recommended through the annual budget process.

**ENVIRONMENTAL ANALYSIS:**

This action is categorically exempt pursuant to Section 15302 (c) of the Guidelines for the California Environmental Quality Action (CEQA), which states that "operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the CEQA determination" and is therefore exempt from CEQA. This action involves repairs to existing infrastructure to maintain public health and safety. Therefore, this item is exempt from the requirements of CEQA, and no environmental analysis is required.

**PREPARED BY:** AFTAB HUSSAIN, MAINTENANCE MANAGER

**REVIEWED BY:** TOM MOODY, DIRECTOR OF UTILITIES

**Attachments:**

1. Exhibit 1 - Sancon Technologies, Inc. MGSA
2. Exhibit 2 - Insituform Technologies, LLC. MGSA