

COUNCIL ACTION FORM

DATE: 8/10/26

AGENDA ITEM: Approve Sewer Inspections and Main Trunk Line Inspection

History: There is a need to inspect sanitary sewers for I & I by doing a simulated rain fall. There are 17 sections that need to be looked at and inspected as well as the main trunk line by the Cemetery. This will provide us with a detailed report of findings and measures for the next steps.

Bids:

- | | |
|----------------|----------|
| 1. HYDRO KLEAN | \$18,540 |
| 2. CIT SEWER | \$18,840 |

CIT has provided insight to these issues for us in the past, has continued to work with us on the trunk line and is a Story County business.

Options:

1. Accept the quote from CIT SEWER in the amount of \$18,840
2. Reject all quotes and resend RFP's
3. Reject all bids and do nothing at this time.

Staff recommendation:

Staff recommends approving option 1: Accept the quote from CIT SEWER in the amount of \$18,840

Therefore, it is the recommendation of the City Administrator that Council approve option 1.



Hydro-Klean, LLC
333 NW 49th Place
Des Moines, IA, 50313
Phone: 515-283-0500

Quote

Quote Nbr.: PQ010247
Order Date: 07/15/2026
Valid Until: 10/13/2026
Sales Person: Alex Underwood
Customer ID: 102905
Payment Terms: Net 30 Days

Job Site:

City of Nevada, IA
1209 6th Street
Nevada IA 50201
United States of America

Bill to:

City of Nevada, IA
1209 6th Street
Nevada IA 50201
United States of America

Job Description

Per unit and time and materials cost (if applicable) to conduct the Pipeline Inspection and Proactive Evaluation program as described to the customer. Pricing is conditional to the acceptance and execution of the Pipeline Inspection and Proactive Evaluation Service Agreement.

HK Solutions Group (HK) will Clean & TV a minimum of 10,000 LF of 8"-12" sanitary sewer w/ mainline TV truck and combination jet vac. Customer to provide an adequate water source such as a fire-hydrant at no additional cost to HK. All debris and waste collected to be disposed of on site at customer-designated location. Truck access to exposed manholes, is required. Standard traffic control (i.e. cones) is included. Non-standard traffic control, bypass pumping, or easement work will be additional. Scheduling will be at the discretion of the contractor. Cleaning consists of three (3) passes. Any cleaning requested beyond three (3) passes (considered 'heavy cleaning') will be charged at HK's standard hourly rate of \$450.00-hour standard time or \$500.00-hour for overtime. Prices below are based on a 2-5-year agreement w/ a minimum of 10,000 LF per year. A 3% price increase per unit will go into place for year 4, with an additional 3% increase in year 5.

Deliverables

- Standard NASSCO PACP & MACP export with database, videos and photos.
- A personalized log-in to Pioneer (Sewer AI's cloud-based data storage portal)
- A written and digital report documenting the investigation and highlighting severe defects identified during the investigation with corresponding recommendations.

RESC.	QTY.	ITEM	QTY.	UOM	PRICE	Amount
		Mobilization - Cleaning Crew & Equipment	27.0000	MILE	10.0000	270.00
		Cleaning	10,000.0000	FOOT	0.9500	9,500.00
		Easement Cleaning	0.0000	FOOT	1.9000	0.00
		Televising	10,000.0000	FOOT	0.8500	8,500.00
		Easement Televising	0.0000	FOOT	1.7000	0.00
		Mobilization- Televising Crew & Equipment	27.0000	MILE	10.0000	270.00
		Heavy Cleaning (more than 3 passes)	0.0000	HOUR	450.0000	0.00
		PIPE - Reversals	0.0000	EACH	75.0000	0.00
		Manhole Inspection and Reporting (Level 2 Digital Inspections)	0.0000	EACH	125.0000	0.00

SMOKS

*NOTE: Quote does not include any applicable taxes

Prepared By: Alex Underwood
Approved By: Michael Ingham

Accepted By: _____
Date: _____
PO#: _____

*Quote Total: 18,540.00



Municipal Sewer Maintenance • Inspection • Trenchless Rehabilitation

July 10, 2026

City of Nevada, Iowa
Public Works and Wastewater Departments
Nevada, Iowa

RE: Inflow and Infiltration — Recommended Investigation and Maintenance Program

Summary

The July 3–4 rainfall event exposed a significant wet-weather inflow and infiltration (I/I) issue in the City's sanitary sewer collection system. After accounting for normal wastewater flow and the documented lagoon discharge, approximately **5.2 million gallons** of flow received at the wastewater treatment plant remain unaccounted for. This figure is an estimate based on available operating data; the specific sources have not yet been confirmed. CIT Sewer Solutions recommends the City move forward with a targeted investigation and a recurring maintenance program to identify and reduce the largest sources of I/I.

Recommended Actions

Phase 1 — Investigate the 17 Suspected Cross-Connections

Use CCTV inspection, smoke testing, and dye testing to confirm the exact connection points between the storm and sanitary systems and determine the appropriate corrective action at each location.

Phase 2 — Install Temporary Flow Monitoring

Place flow monitors at strategic locations along the main sanitary trunk system where larger drainage basins intersect. Comparing wet-weather and dry-weather data will identify the basins contributing the greatest excess flow, so investigation and repair dollars go where they matter most.

Phase 3 — Develop a Targeted Infrastructure Map

Map the sanitary sewer, storm sewer, drainage tile, creeks, and drainageways, including locations where these systems cross or run parallel. Use the map to identify high-risk areas for additional investigation.

Phase 4 — Perform Targeted Rainfall Simulation Testing

Conduct controlled surface-water or rainfall simulation testing in priority areas, while monitoring nearby sanitary sewer infrastructure, to determine how water is entering the system.

Phase 5 — Establish a Five-Year Cleaning and CCTV Program

Clean and inspect approximately 20% of the sanitary sewer system each year so the full system is assessed on a recurring five-year cycle, with defects documented and repairs prioritized as they are found.

Phase 6 — Complete an Annual Data Review

CIT Sewer Solutions will review the flow-monitoring, CCTV, smoke-testing, dye-testing, and mapping data each year and provide prioritized repair and rehabilitation recommendations.

Immediate Next Step

CIT Sewer Solutions recommends the City authorize development of a scope and proposal covering:

- Investigation of the 17 suspected cross-connections.
- Installation of temporary flow monitors at strategic basin locations.
- Development of the initial infrastructure and risk map.

These three steps will confirm known defects and produce the data needed to prioritize everything that follows. We are prepared to review this program with City staff and deliver the proposal promptly.

Respectfully,

A handwritten signature in black ink that reads "Shane Jacobson". The script is cursive and fluid.

Shane Jacobson
President
CIT Sewer Solutions



Quote

Quote ref. 20260730-204154374
Issue date Jul 30, 2026
Expires Aug 29, 2026

Seller

CIT Sewer Solutions

530 Dubois Ave, PO Box 203
McCallsburg, IA 50154
United States

Contact

Shane Patterson (shanepatterson@citsewer.com)
515-434-2248

Buyer

City of Nevada

1209 6th St
Nevada, Iowa 50201-1536
United States

Contacts

Joe Mousel (jmousel@cityofnevadaaiowa.org)

Bill to

Contact

Joe Mousel (jmousel@cityofnevadaaiowa.org)

City of Nevada

1209 6th St
Nevada, Iowa 50201-1536
United States

Effective date	Total discount	Total contract value
On agreement	\$0.00	\$18,840.00

Line items

Name	Quantity	Unit price	Unit discount	Net price
Mobilization	2	\$170.00	• —	\$340.00
Mobilization - Per Truck				
Billing summary: Starts on effective date				
Jetting / FT	10,000	\$0.80	—	\$8,000.00
Jet/Vac Cleaning 8"-10" - Estimated Footage				
Billing summary: Starts on effective date				
CCTV / FT	10,000	\$1.05	—	\$10,500.00
CCTV Inspection 8"-10" - Estimated Footage				
Billing summary: Starts on effective date				
Hourly Heavy Cleaning	—	\$425.00	—	—
Hourly Heavy Cleaning - As Needed				
Billing summary: Starts on effective date				
Inspection Reversal	—	\$60.00	—	—
Inspection Reversal - As Needed				
Billing summary: Starts on effective date				
Hydro Root Cutting	—	\$1.65	—	—
Hydro Root Cutting 8"-10" - As Needed				
Billing summary: Starts on effective date				
Subtotal				\$18,840.00
Discount included in the subtotal				\$0.00
Due on effective date				\$18,840.00
The total amount due on the effective date, not including any future payments due later.				
Total contract value				\$18,840.00

Terms

TERMS & CONDITIONS: A confined space has limited or restricted means for entry or exit and is not designed for continuous occupancy. Confined spaces include, but are not limited to, tanks, vessels, silos, storage bins, hoppers, vaults, pits, manholes, tunnels, ductwork, pipelines, etc.

In the event that a confined space entry is needed a daily service fee of \$150 will be added to your end bill.

IDLE TIME: \$385/Hour/Truck - Time exceeding 30 min for water fill, debris disposal, customer representative authorization, or other factors not related to CIT's responsibilities while performing the agreed job scope will be considered Idle Time and shall be charged at a prorated rate once that limit is exceeded.

CHANGE ORDER: Request for any additional work not included in the provisions of these specifications will be negotiated between Customer and CIT via Change Order. Must be signed and dated by all parties before additional work can begin.

PAYMENT: CIT Sewer Solutions (CIT) standard payment terms are 30 days, unless agreed upon in writing prior to the start of the project. All past due accounts will be charged a rate of 4% per month.

PLANS: Customer will provide maps or prints of sewer lines to be cleaned and inspected. The lines that are scheduled for inclusion in the project will be clearly marked/highlighted. Customer will provide reference numbers for all manholes. CIT will use the city's reference numbers on the written and video reports.

SCHEDULING AND EXECUTION OF WORK: Customer will give CIT a notice to proceed after all contracts have been executed and all necessary forms or insurance certificates have been collected by either CIT or the Customer. Customer and CIT will establish a schedule that identifies a project itinerary that is mutually beneficial to both parties within the performance period.

WORK AND MATERIALS PROVIDED BY CUSTOMER:

Customer will provide the following at no cost to CIT:

- 1) Community awareness that sewer maintenance is scheduled with CIT.
- 2) Instructions for CIT on how to respond to residents that approach CIT during the project.
- 3) Inform CIT of history of sewers with known sewer system failures.
- 4) Legal and physical access to manholes on portion of sewer included in the project
- 5) Exposure of buried manholes and seized manhole lids loosened prior to CIT mobilizing.
- 6) Any excavation, opening, back filling and/or repair of sewers and/or streets required to remove CIT's equipment caught in the sewer pipe due to sewer defects.
- 7) A person to act as a liaison between Customer and CIT for the duration of the project that will also be able to familiarize CIT with locations of sewers and manholes.
- 8) Water for cleaning sewer and access to nearest fire hydrant.
- 9) A secure storage area to accommodate CIT's equipment, vehicles, and materials.

10) A designated location near the worksite where debris removed during sewer cleaning may be deposited. If no debris disposal location is available, the Customer shall be responsible for all associated disposal fees.

WORK AND MATERIALS PROVIDED BY CIT:

Sewer Cleaning:

- 1) Sewers will be cleaned by removing grit, loose solids, and grease.
- 2) There will be no more than 5% of the pipe diameter of these types of debris left in the lines prior to televising. This does not include the removal of hard deposits.
- 3) The cleaning equipment with truck mounted combination water jet/vac unit. Prior to the sewer cleaning operation, Customer and CIT will agree upon a sewer cleaning sequence. In general the sewer cleaning process will proceed from the upper ends of each sewer basin to the lower ends.
- 4) Debris will be removed by vacuum to prevent workers from entering manholes. CIT will collect and transport all debris removed during the sewer cleaning operations to the facility of Customer choice.

Sewer Inspection:

- 1) Video Inspection will be performed by a NASSCO certified PACP operator.
- 2) CIT will perform closed circuit video inspections of the sewer using current state of the art technology and trained employees.
- 3) CCTV camera will be high resolution color with adjustable iris focus.
- 4) CCTV camera will have pan and tilt capabilities that allow up close and right-angle inspections of defects and other significant observations.
- 5) Video camera will be equipped with 1,000' of video cable.
- 6) Video camera, television monitor, and other components of the video system will produce a high-quality video image.
- 7) Footage distance measured by the video system will be accurate within 1% and will be used to determine footages for reporting and billing purposes. The center line between manholes will be the reference points used to determine footage measurements.

Sewer Inspection Reporting:

- 1) Video inspection and reporting software will be NASSCO approved software.
- 2) All observations will be chosen from a standard table of descriptions incorporated in the video reporting software.
- 3) CIT will make a color recording on a flash drive of all sewers inspected and will provide a corresponding paper report generated by the video inspection software. The video recording will include on-screen observation identifications that label continuous footages, defects, pipe diameter, direction of flow, direction of viewing, manhole and street reference locations. Video inspections recorded on a flash drive allow indexing of video files for faster viewing by Customer.

INSURANCE:

CIT will maintain General Liability and Auto Liability Insurance throughout the duration of the contract with limits not less than \$1,000,000 General Liability, \$1,000,000 Auto and \$500,000 Workers Compensation Employers Liability. Proof of insurance in the form of an insurance certificate will be issued to the Customer prior to the start of the project.

Payments

Customer must agree to the following payment terms: due on receipt

Acceptance

- This section is designated for the authorized representatives from both parties involved in this agreement. By signing below, the signatories confirm their acceptance of the terms and conditions outlined in this document.

On behalf of the buyer,

Joe Mousel

jmousel@cityofnevadaiaowa.org



SEWER MAINTENANCE · TRENCHLESS REHABILITATION · INSPECTION

SEWER MAINTENANCE SERVICES AGREEMENT

between

CIT Sewer Solutions and City of Nevada

AGREEMENT SNAPSHOT

Customer	City of Nevada, IA
Effective Date	[Month Day, Year]
Initial Term	One (1) years — [Start Date] through [End Date]
Annual Minimum	\$10,000 per contract year
CIT Contact	Shane Patterson · 515-434-2248 · shanepatterson@citsewer.com

CIT Sewer Solutions · PO Box 203, McCallsburg, IA 50154 · 515-434-2248 · www.citsewer.com

1. Parties and Customer Information

This Sewer Maintenance Services Agreement (the "Agreement") is between CIT Sewer Solutions ("CIT") and the customer named below ("Customer"). CIT will provide sewer maintenance services using its own equipment and personnel, under the terms, scope, rates, and conditions set out in this Agreement and in Schedule A.

Customer	City of Nevada, IA
Customer Address	1209 6 th St, Nevada, IA 50201
Customer Representative	Joe Mousel – jmousel@cityofnevadaiaowa.org – 515-450-2394
Service Provider	CIT Sewer Solutions — PO Box 203, McCallsburg, IA 50154 · 515-434-2248
CIT Representative	Shane Patterson – shanepatterson@citsewer.com - 515-423-9183

2. Scope of Services

CIT will perform the sewer maintenance services requested and authorized by the Customer under this Agreement. Services may include sanitary and storm sewer cleaning, CCTV inspection, root cutting, smoke testing, emergency response, reporting, mobilization, manhole scanning, and other services listed in Schedule A.

3. Annual Maintenance Planning and Work Authorization

Each year, before work begins, CIT and Customer will agree on cleaning frequency, inspection methods, work areas, and level of effort — based on the annual maintenance plan and the conditions found in the system.

Scheduled maintenance cleaning includes the number of passes stated in Schedule A. Specialized work — such as heavy cleaning, root cutting, easement-machine work, reverse inspection, emergency calls, manhole scanning, confined-space entry, investigative work, and additional reports — is billed only when needed and authorized, under the matching Schedule A line item. The Customer may combine different service types to meet the annual minimum, as long as the work is authorized and performed within the same contract year.

4. Customer Responsibilities

Customer will:

- Provide current sewer maps and the system information reasonably available to plan and perform the work.
- Provide water, legal access to all manholes and work areas, and a suitable place to dispose of debris removed during cleaning, unless agreed otherwise in writing.
- Expose or make accessible the manhole lids needed for scheduled work.
- Promptly notify CIT of stoppages or known trouble areas, especially in lines cleaned and televised during the prior service year.

- Provide timely authorizations and on-site coordination so work is not delayed and idle time or extra mobilization is avoided.

5. CIT Responsibilities and Service Standards

CIT will:

- Provide the equipment, labor, insurance, and incidentals reasonably needed to complete authorized work.
- Use qualified personnel and perform work in a professional, orderly manner.
- Follow applicable OSHA and other safety requirements that apply to CIT's work.
- Keep complete records, maps, videos, and reports for completed work, with copies available to the Customer on request.
- Provide a summary report when each job is finished. CCTV deliverables include PACP reports, rehabilitation recommendations, and digital files (or a flash drive on request).

6. Lodged Equipment and Stoppage Follow-Up

6.1 Lodged Equipment. If CIT equipment — such as hose, camera, cleaners, or nozzles — becomes lodged while performing work the Customer has directed, the Customer is responsible for the cost of removing and replacing that equipment. When practical, CIT will coordinate with the Customer before doing any removal work.

6.2 Stoppage Follow-Up. The Customer should notify CIT of any stoppage in a line that CIT fully cleaned and televised during the prior service year. CIT will clear that line at no charge on the next scheduled visit. This no-charge follow-up does not apply if the prior video showed the line was clear, or if the stoppage results from new conditions outside CIT's earlier work.

7. Contract Options

These options support long-term planning, budget visibility, and priority access to related CIT services. They apply while the Customer remains in good standing under this Agreement.

7.1 Renewal Option. At signing, the Customer may choose an additional renewal term. Unless otherwise agreed in writing, renewal work is governed by this Agreement, with rates adjusted each year as described in Section 9.8.

☐ No renewal selected ☐ Additional 3-year term ☒ Additional 5-year term

7.2 Preferred Rehabilitation and Repair Pricing. The Customer receives a 10% discount on qualifying CIT rehabilitation and repair work performed during the term. This discount applies only when CIT work can be directly awarded, negotiated, or obtained through cooperative procurement. It does not apply to pass-through costs, third-party services, taxes, bonds, permits, prevailing-wage impacts, emergency premiums, mobilization (unless stated in the quote), or work already procured through a separate public bid (unless the bid documents allow the discount).

7.3 Advanced Inspection Services. 360° manhole inspection and Large-Diameter Multi-Sensor Inspection (MSI) using Sonar/LiDAR/CCTV are available under this Agreement; see Schedule A for pricing. Final MSI pricing is confirmed before work is authorized, based on pipe diameter, access, flow conditions, sensor package, deliverables, and project-specific scope.

8. Pricing and Work Authorization

Schedule A rates apply to all authorized work and, together with the annual adjustment in Section 9.8, are fixed for the initial term and any selected renewal term unless changed by written agreement.

9. Terms and Conditions

9.1 Confined Space. A confined space has limited means of entry or exit and is not designed for continuous occupancy — for example, tanks, vessels, silos, bins, hoppers, vaults, pits, manholes, tunnels, ductwork, and pipelines. When confined-space entry is required, a \$150 daily service fee is added to the invoice.

9.2 Idle Time. Idle time is charged at \$400 per hour, prorated after the first thirty (30) minutes, for delays not caused by CIT — such as water filling, debris disposal, or waiting on Customer authorizations — while performing the agreed scope.

9.3 Investigative Work. Investigative work is charged \$400 per truck-hour, prorated in fifteen (15) minute increments for time worked.

9.4 Buried Manholes. CIT will expose a manhole buried up to eight (8) inches under dirt or gravel for a flat \$95. If a cover is more than eight (8) inches deep and the Customer wants CIT to expose it, the Customer must first arrange for Iowa One Call locates; that work is then charged at \$400 per hour.

9.5 Annual Minimum. CIT will perform at least \$10,000 of work per year, met through any combination of services offered under this Agreement.

9.6 Visit Minimum. Pre-scheduled work is a minimum of \$2,000 per truck, per visit.

9.7 Payment Terms. Invoices use the unit prices in Schedule A. Payment is due within thirty (30) days unless agreed otherwise in writing before the project starts. Past-due balances accrue interest at four percent (4%) per month.

9.8 Annual Price Adjustment. Schedule A prices increase five percent (5%) each year, on the first day of the month in which this Agreement was signed.

9.9 Changes and Additional Work. Work not covered by this Agreement will be negotiated between the Customer and CIT and documented by a written change order, written authorization, or another mutually accepted method before the work proceeds.

9.10 Termination. Either party may end this Agreement with thirty (30) days' written notice. The Customer remains responsible for completed work, authorized costs incurred, and any amounts due on the termination date.

A. Schedule A — Maintenance Pricing

Rates below are governed by the terms of this Agreement, including the annual adjustment in Section 9.8.

Service / Description	Price	Unit
SANITARY SEWER — 6" TO 15" (3,000 FT MINIMUM FOR PER-FOOT PRICING)		
Jet/Vac cleaning — 6" (two passes or less)	\$1.03	FT
Jet/Vac cleaning — 8"-10" (two passes or less)	\$0.80	FT
Jet/Vac cleaning — 12"-15" (two passes or less)	\$0.90	FT
Hourly Jet/Vac truck — heavy cleaning, lift stations, catch basins, storage tanks, etc.	\$450	HR
Hydro root cutting — 8"-10"	\$1.65	FT
Hydro root cutting — 12"-15"	\$1.83	FT
Easement machine — 8"-10"	\$1.72	FT
Easement machine — 12"-15"	\$1.89	FT
STORM SEWER — 6" TO 15" (3,000 FT MINIMUM FOR PER-FOOT PRICING)		
Jet/Vac cleaning — 6" (two passes or less)	\$1.26	FT
Jet/Vac cleaning — 8"-10" (two passes or less)	\$1.00	FT
Jet/Vac cleaning — 12"-15" (two passes or less)	\$1.21	FT
CCTV INSPECTION		
CCTV inspection — 6"	\$1.05	FT
CCTV inspection — 8"-10"	\$1.05	FT
CCTV inspection — 12"-15"	\$1.05	FT
CCTV inspection — hourly	\$450	HR
Reverse inspection	\$60	EA
PACP reports, rehabilitation recommendations, and digital file / flash drive (with all CCTV)	Included	EA
SMOKE TESTING		
Smoke testing (10,000 ft minimum)	\$0.76	FT
EMERGENCY CALLS		
Jet/Vac cleaning — port to port, one technician	\$475	HR
CCTV inspection — port to port, one technician	\$475	HR
Additional required technicians	\$90	HR
ADDITIONAL SERVICES		
Additional reports	Varies	EA
Door hangers	Time & materials	EA
360° manhole inspection / scan — imagery and condition assessment	\$200	EA
Large-Diameter Multi-Sensor Inspection (MSI) — Sonar/LiDAR/CCTV	\$6.00–\$20.00	FT
Mobilization — per truck, per trip	\$6.25 / mile	EA

All prices are in U.S. dollars. FT = per linear foot · HR = per hour · EA =