



AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	Storm Sewer Cleaning & Televising Contract		
Presenter & Title:	Bob Van Gyseghem, Superintendent of Water & Wastewater		
Date:	September 15, 2025		
Please Check Appropriate Box:			
<input checked="" type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Associated Strategic Plan Goal/Objective: ES-II, QIS-1			
Estimated Cost: \$175,967.00	Budgeted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No
Executive Summary:			
<p>The FY26 budget has funds allocated to clean & televise storm sewers. Cleaning of storm sewers is a requirement in the Illinois Environmental Protection Agency Municipal Separate Storm Sewer System, MS4, Permit. Bids were advertised in the Daily Herald and the City website. Three (3) bids were received with the low bid provided by Dukes Root Control in the amount of \$175,967.00. Staff is recommending that a 10% contingency be included in the overall not-to-exceed amount to account for any unforeseen field changes that may occur. Any field changes (Change Orders) must be approved by the City Administrator to be applied to the contingency. The available budget will complete the cleaning and televising of all storm sewers in Geneva in sixteen (16) years based on the low bid prices.</p>			
Attachments: <i>(please list)</i>			
<ul style="list-style-type: none"> • Resolution • Bid Summary • Map of Cleaning Area 			
Voting Requirements:			
<p><i>This motion requires a simple majority of affirmative votes for passage. (City Council Only)</i></p> <p><i>The Mayor may vote on three occasions: (a) when the vote of the alderpersons has resulted in a tie; (b) when one half of the alderpersons elected have voted in favor of an ordinance, resolution, or motion even though there is no tie vote; or (c) when a vote greater than a majority of the corporate authorities is required by state statute or local ordinance to adopt an ordinance, resolution, or motion.</i></p>			
Recommendation / Suggested Action: <i>(how the item should be listed on agenda)</i>			
<p>Recommend approval of a Resolution authorizing the City Administrator to enter into a contract with Dukes Root Control at a cost of \$175,967.00 and allow the City Administrator to approve up to \$17,596.70 in change orders for a total not-to-exceed amount of \$193,563.70</p>			

RESOLUTION NO. 2025-108

**RESOLUTION AUTHORIZING EXECUTION OF
Contract for Storm Sewer Cleaning & Televising**

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS, as follows:

SECTION 1: That the City Administrator is hereby authorized to execute, on behalf of the City of Geneva, a contract with Dukes Root Control, related to cleaning & televising storm sewers in an amount not to exceed \$193,563.70.

SECTION 2: This Resolution shall become effective from and after its passage as in accordance with law.

PASSED by the City Council of the City of Geneva, Kane County, Illinois, this ____ day of _____, 2025

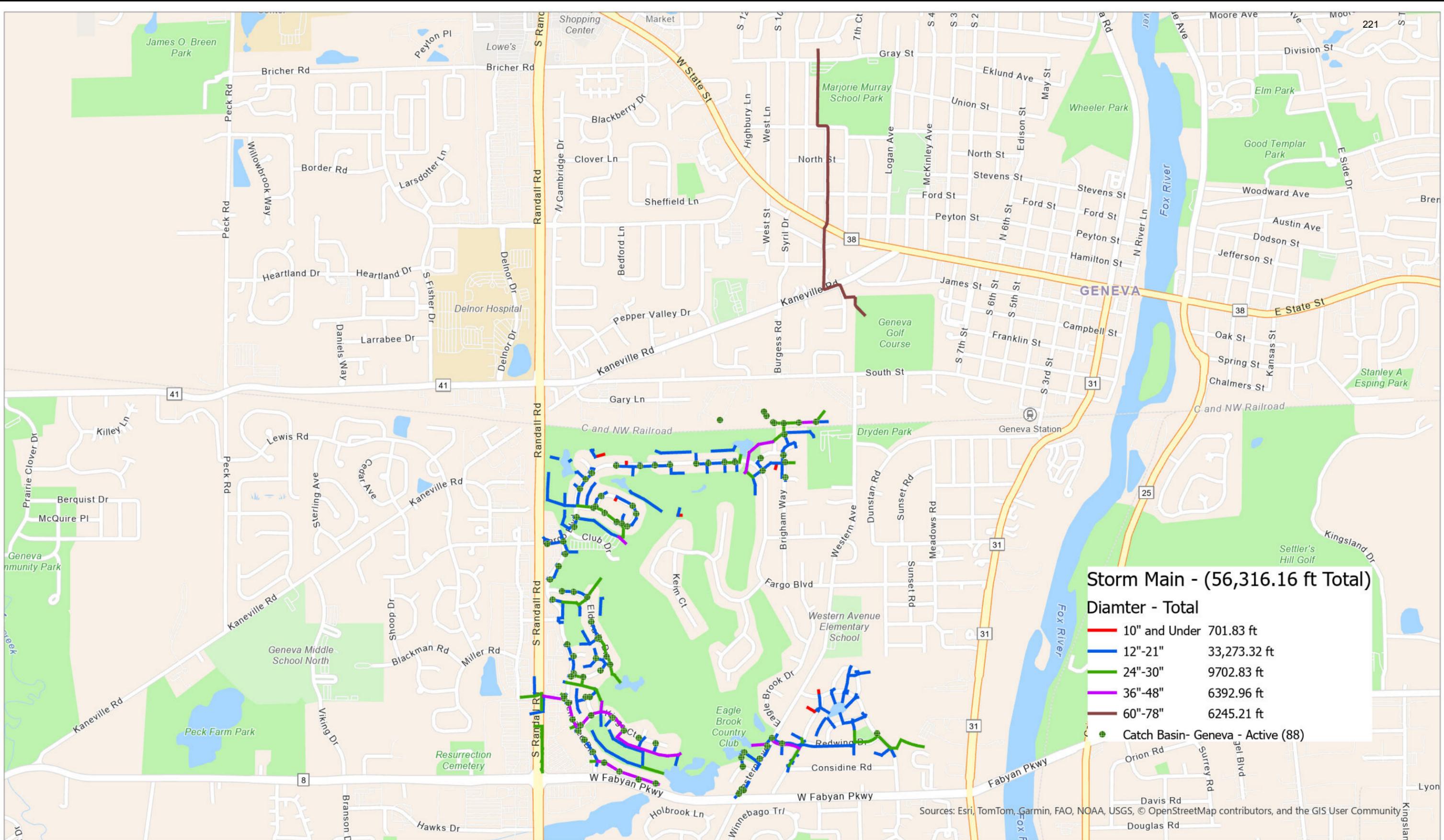
AYES: __ NAYS: __ ABSENT: __ ABSTAINING: __ HOLDING OFFICE: __

Approved by me this ____ day of _____, 2025.

Mayor

ATTEST:

City Clerk



Storm Main - (56,316.16 ft Total)

Diameter - Total

10" and Under	701.83 ft
12"-21"	33,273.32 ft
24"-30"	9702.83 ft
36"-48"	6392.96 ft
60"-78"	6245.21 ft

● Catch Basin- Geneva - Active (88)

Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community



2025 Storm Cleaning

Information shown on this map is schematic in nature and accuracy is not guaranteed. It is the responsibility of the user to field verify all information shown. The data is subject to change without notice. Original base maps provided via intergovernmental agreement with Kane County GIS- Technologies. Reproduction without permission from the City of Geneva is forbidden.



PROJECT

**FY 2026 STORM SEWER
CLEANING & TELEVISIONING
CITY OF GENEVA**

**City of Geneva, Illinois
Bob VanGyseghem
Superintendent of Water & Wastewater
July 29, 2025**

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SECTION 00020

ADVERTISEMENT FOR BIDS

FY 2026 STORM SEWER CLEANING & TELEVISIONING CITY OF GENEVA

Sealed **Bids** submitted in duplicate in a sealed envelope with the words “FY 2026 Storm Sewer Cleaning & Televisioning” clearly marked on it, will be received by the City of Geneva, Illinois until **10:00 A.M. Monday August 18, 2025** at the office of the City Administrator, 22 South First Street, Geneva, IL, 60134 and will be publicly opened and read aloud at that time. The proposed project consists of storm sewer cleaning & TV and all necessary traffic control.

The Contractor and sub-Contractors shall pay not less than the current prevailing wages at the time of the signing of the contract as found by the Department of Labor or as determined by the Court of Appeal, to all his/her employees performing work under the Contract. A signed certification stating the above as well as the fact that the bidder is not barred from bidding as a result of a violation of either Section 33E-3 or 33E-4 of Chapter 38, Illinois Revised Statutes, 1987 (as amended) must be submitted by the successful bidder as part of this contract.

A digital copy of Instructions for Bidders, Bid Form, Plans, and Specifications is available of the City of Geneva website: <https://www.geneva.il.us/>

All **Bids** shall be submitted in accordance with the Instructions for Bidders and shall be accompanied by a **5% Bid** guarantee consisting of a bid bond, as provided for under terms of said Instructions for Bidders and Specifications. Complete instructions for filing Bids are included in the Instructions for Bidders.

The City reserves the right to reject any or all **Bids** and waive technicalities.

City of Geneva, Illinois
Bob VanGyseghem
Superintendent of Water & Wastewater

SECTION 00100

INSTRUCTIONS FOR BIDDERS

FY 2026 STORM SEWER CLEANING AND TELEVISIONING CITY OF GENEVA

Certain additional terms used in these Instructions for Bidders have the meanings indicated below which are applicable to both the singular and plural thereof.

Bidder - one who submits a Bid directly to Owner as distinct from a sub-bidder, who submits a bid to a Bidder.

Issuing Office - the office from which the Bidding Documents are to be issued and where the bidding procedures are to be administered.

Successful Bidder - the lowest, responsible and responsive Bidder to whom Owner (on the basis of Owner's evaluation as hereinafter provided) makes an award.

Article 1. Qualifications of Bidders

- 1.1 To demonstrate qualifications to perform the Work, each Bidder must be prepared to submit within five days after Bid opening, upon Owner's request, detailed written evidence such as financial data, previous experience, present commitments, and other such data as may be called for. **Each Bid must contain evidence of Bidder's qualification to do business in the state where the Project is located or covenant to obtain such qualification prior to award of the contract.**

The investigation of a Bidder will seek to determine whether the organization is adequate in size, has had previous experience and whether available equipment and financial resources are adequate to assure Owner that the Work will be completed in accordance with the terms of the Agreement. The amount of other work to which the Bidder is committed may also be considered.

- 1.2 In evaluating Bids, Owner will consider the qualifications of only those Bidders whose Bids are in compliance with the prescribed requirements.
- 1.3 Owner reserves the right to reject any Bid if the evidence submitted by, or the investigation of, such Bidder fails to satisfy Owner that such Bidder is properly qualified to carry out the obligations of the Contract Documents and to complete the Work contemplated therein.
- 1.4 Owner may consider the qualifications and experience of Subcontractors and other persons and organizations (including those who are to furnish the principal items of material or

equipment) proposed for those portions of the Work as to which the identity of Subcontractors and other persons and organizations must be submitted as described herein.

Article 2. Copies of Contract Documents

- 2.1 Complete sets of Contract Documents shall be used in preparing Bids; neither Owner nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Contract Documents.
- 2.2 **Each Bidder shall submit two (2) copies of the Bid Documents.**
- 2.3 The Owner and Engineer, in making copies of Contact Documents available, do so only for the purpose of obtaining Bids on the Work and do not confer a license or grant for any other use.

Article 3. Examination of Contract Documents and Site

- 3.1 Before submitting a Bid, each Bidder must (a) examine the Contract Documents, including Addenda, thoroughly, (b) visit the project sites to become familiar with local conditions that may in any manner affect cost, progress or performance of the work, (c) become familiar with Federal, State and local laws, ordinances, rules and regulations that may in any manner affect cost, progress or performance of the Work, (d) study and carefully correlate Bidder's observations with the requirements of the Contract Documents, and (e) satisfy themselves of the accuracy of the estimated quantities in the Bid Schedule.
- 3.2 Before submitting a Bid, Bidders may, at their own expense, make such investigations and tests as they may deem necessary to determine their Bid for performance of the Work in accordance with the time, price and other terms and conditions of the Contract Documents.
- 3.3 On request, Owner will provide each Bidder access to the site to conduct such investigations and tests as each Bidder deems necessary for the submission of a Bid.
- 3.4 The lands upon which the work is to be performed, rights-of-way for access thereto and other lands designated for use by Contractor in performing the work are identified in the Specifications, Special Provisions or on the Drawings.
- 3.5 The submission of a Bid will constitute an incontrovertible representation that the Bidder has complied with every requirement of this Article 3 and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Work.

Article 4. Interpretations

- 4.1 All questions about the meaning or intent of the Contract Documents shall be received in writing to City of Geneva Public Works, 1800 South St., Geneva IL 60134 Attention Bob

Van Gyseghem (Email bvangyseghem@geneva.il.us) (Fax: 630-208-1503) & Nate Landers (Email nlanders@geneva.il.us, at least five (5) days before the date set herein for the opening of bids. Questions received less than five (5) business days prior to the date for opening of Bids will not be answered.

- 4.2 Written clarifications or interpretations will be issued by Addenda not later than two days before the bid opening date. Only questions answered by formal written Addenda will be binding. Oral and other clarifications or interpretations will be without legal effect. Addenda will be sent by delivery service with return receipt requested or by FAX, to all parties recorded as having received the Contract Documents.
- 4.3 Bidders are responsible for determining that they have received all Addenda issued.

Article 5. Bid Security

- 5.1 Each Bidder shall deposit with his Bid a Bid guarantee consisting of a **bid bond** executed by the Bidder in an amount not less than **5%** of the total amount of the Bid submitted. Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the PROJECT is located. The bid security shall act as a guarantee that in case the Bidder's proposal is accepted, the Bidder shall within ten (10) days after the date of such acceptance and notification thereof, deliver to the Owner a contract signed and executed by the Contractor and a responsible bonding company acceptable to and written upon forms prepared or approved by the Owner.

Article 6. Bid Form

- 6.1 Each Bid shall be submitted on the Bid Form on the pages included in the Contract Documents. The Bid Form shall be removed and submitted separately. All blank spaces for Bid prices must be filled in with the unit price of the item or the lump sum for which the Bid is made.
- 6.2 Bid Forms shall be completed in ink or by typewriter. The Bid price of each item on the form shall be stated in figures.
- 6.3 Bids by corporations shall be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown below the signature.
- 6.4 Bids by partnership shall be executed in the partnership name and signed by a partner, whose title shall appear under the signature. The official address of the partnership shall be shown below the signature.
- 6.5 All names shall be typed or printed below the signature.

- 6.6 The Bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which shall be filled in on the Bid Form).
- 6.7 The address to which communications regarding the Bid are to be directed shall be shown.
- 6.8 A Bid which includes for any item a Bid Price that is abnormally low or high may be rejected as unbalanced.
- 6.9 A conditional or qualified Bid will not be accepted.

Article 7. Receipt of Bids

- 7.1 Sealed Bids will be received by the City of Geneva, Illinois, on the 18th day of August 2025, up to the hour of 10:00 o'clock A.M., Prevailing Time, and then at said office PUBLICLY OPENED AND READ ALOUD.
- 7.2 Each Bid must be submitted in a sealed envelope addressed to Mr. Bob VanGyseghem, Superintendent of Water and Sewer, City of Geneva. Each sealed envelope containing a Bid must be plainly marked on the outside as “**FY 2026 STORM SEWER CLEANING AND TELEVISIONING**”, and the envelope should bear on the outside the name of the Bidder and their address. If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope, addressed to the City Administrator at 22 South First Street, Geneva, Illinois 60134.
- 7.3 Owner may consider informal any Bid not prepared and submitted in accordance with the provisions hereof.
- 7.4 Bidders are cautioned that it is the responsibility of each individual bidder to assure that their bid is in the possession of the responsible official, or the designated alternate, prior to the stated time and at the place of the Bid Opening. Owner is not responsible for bids delayed by mail and/or delivery services, of any nature.

Article 8. Modification and Withdrawal of Bids

- 8.1 Bids may be modified only by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are to be submitted at any time prior to the opening of Bids.
- 8.2 Bids may be withdrawn prior to the scheduled time (or authorized postponement thereof) for the opening of Bids.
- 8.3 Any Bid received after the time and date specified shall not be considered. No Bid may be withdrawn for a period of 90 days after the actual date of the opening of the Bids. Should there be reasons why the contract cannot be awarded within the specified period, the time

may be extended by mutual agreement between the Owner and the Bidder.

- 8.4 If the Bidder modifies, limits, restricts or subjects his Bid to conditions that would change the requirements of the Plans and Specifications, this would be considered a conditional or qualified bid and the Bid will not be accepted.

Article 9. Performance, Payment and Other Bonds

- 9.1 A Performance Bond and a Payment Bond, each in the amount of 100 percent of the Contract Price, with a corporate surety approved by the Owner will be required for the faithful performance of the contract.
- 9.2 All Bonds required as Contract Security shall be furnished with the executed Agreement.
- 9.3 Attorneys-in-fact who sign Payment Bonds and Performance Bonds must file with each Bond a certified and effective dated copy of their power of attorney.

Article 10. Award of Contract

- 10.1 The Contract will be awarded to the lowest responsive, responsible and eligible Bidder (Successful Bidder) for the project determined by the Owner to be in the Owner's best interest.

Responsive Bidders will provide bids for the unit or lump sum price for each item set forth on the Bid Form, and for each alternate project feature addition. Responsive Bidders may also provide bids for each alternate equipment manufacturer listed as described in the Bid Form and selected by the Bidder.

The term “lowest responsive, responsible and eligible Bidder” as used herein shall mean the Bidder whose Bid is the lowest of those Bidders possessing the skill, ability and integrity necessary to the faithful performance of the Work, and submits a Bid meeting all requirements.

- 10.2 The Contract will be awarded on the basis of material and equipment described in the Contract Documents without consideration of possible substitute or “or equal” items. Whenever it is indicated in the Contract Documents that a substitute or “or equal” item of material or equipment may be furnished or used by the Bidder, if acceptable to the Engineer, application for such acceptance will not be considered by the Engineer until after the “effective date of the Agreement.”
- 10.3 Owner reserves the right to reject any and all Bids, to waive any and all informalities if it is in Owner's best interest to do so, and the right to disregard all nonconforming, nonresponsive or conditional Bids.
- 10.4 Owner also reserves the right to reject the Bid of any Bidder that Owner considers to be

unqualified relative to Article 1 above.

- 10.5 If the Contract is to be awarded, Owner will give the Successful Bidder a Notice of Award within 5 days, after the actual date of approval by the Geneva City Council.
- 10.6 The party to whom the contract is awarded will be required to execute the Agreement and obtain the Performance Bond, Payment Bond, and required insurance within ten (10) calendar days from the date of when the Notice of Award is delivered to the Bidder. The Notice of Award shall be accompanied by the necessary Agreement and Bond forms.

Article 11. Execution of Agreement

- 11.1 When Owner gives a Notice of Award to the Successful Bidder, it will be accompanied by at least five unsigned copies of the Agreement and all other applicable Contract Documents. Within 5 days, excluding Saturdays, Sundays and legal holidays, after the date of receipt of such notification Contractor shall execute and return all copies of the Agreement and all other applicable Contract Documents to Owner.
- 11.2 The Owner within ten (10) days after receipt of acceptable Performance Bond, Payment Bond, required insurance, and Agreement signed by the party to whom the Agreement was awarded shall sign the Agreement and return to such party an executed duplicate of the Agreement. Should the Owner not execute the Agreement within such period, the Bidder may send Written Notice to withdraw their signed Agreement. Such notice of withdrawal shall be effective upon receipt of the notice by the Owner.
- 11.3 The Notice to Proceed shall be issued within ten (10) days of the execution of the Agreement by the Owner. Should there be reasons why the Notice to Proceed cannot be issued within such period, the time may be extended by mutual agreement between the Owner and Contractor. If the Notice to Proceed has not been issued within the ten (10) day period or within the period mutually agreed upon, the Contractor may terminate the Agreement without further liability on the part of either party.
- 11.4 In case of failure of the Bidder to execute and provide all agreements, bonds and insurance as required by the Contract Documents, the Owner may at their option consider the Bidder in default, and the amount of the security submitted with the Bid shall be forfeited as liquidated damages. However, nothing shall be construed herein to prevent the Owner from electing to claim and prove damages in excess of the bid security.
- 11.5 Because time is of the essence regarding the work under this contract, the Contractor shall initiate work within 10 days of the receipt of the Notice to Proceed by the Contractor.

Article 12. Safety and Health Regulations

- 12.1 This project is subject to the Safety and Health Regulations (CFR 29, Part 1926 and all subsequent amendments) as promulgated by the U.S. Department of Labor on June 24, 1974

and CFR 29, Part 1910, General Industry Safety and Health Regulations Identified as Applicable to Construction.

- 12.2 The Successful Bidder shall comply with the Department of Labor Safety and Health Regulations for Construction promulgated under the Occupational Safety and Health Act of 1970 (PL-91-596) and under Section 107 of the Contract Work Hours and Safety Standards Act (PL-91-54).
- 12.3 The Successful Bidder shall have a competent person or persons, as required under the Occupational Safety and Health Act on the Site to inspect the work and to supervise the conformance of the Work with the regulations of the Act.

Article 13. Prevailing Wages for Kane County

- 13.1 The prevailing wage rates from Kane County, Illinois shall apply.

Article 14. Nondiscrimination in Employment

- 14.1 Contracts for work under this Project will obligate the Contractor and Subcontractors not to discriminate in employment practices.
- 14.2 The Contractor assures the Owner that they are an “Equal Opportunity Employer” as defined by Federal and State laws and regulations and agrees to comply with the Illinois Employment Practice Commission Equal Opportunity Clause as required by Article II of the Illinois FEPC Rules and Regulations, which is considered to be part of any contract or purchase agreement.
- 14.3 The Contractor certifies that the firm has a written sexual harassment policy defining sexual harassment as required in Section 2-105 of the IL. Human Rights Act 775 ILCA 5/1-105 et.seq.

Article 15. State Sales Tax

- 15.1 Sales tax will not have to be paid on equipment and material purchased for this project.

Article 16. Liquidated Damages

- 16.1 Provisions for Liquidated Damages are set forth in the Special Provisions – SP-6

Article 17. General

- 17.1 The Contract Documents contain the provisions required for the construction of the Project. Information obtained from an officer, agent, employee of the Owner, or any other person shall not affect the risks or obligations assumed by the Contractor, or relieve them from fulfilling any of the conditions of the Contract.

- 17.2 The low Bidder shall submit the names of the major subcontractors (contracts in excess of \$5,000). Failure to comply with this requirement may make the Bidder non-responsive as determined by the Owner. The Owner shall receive the list of the subcontractors by 2:00 P.M., prevailing time, on the day after Bids are received by the Owner, at the offices, City of Geneva Public Works, 1800 South St., Geneva, IL 60134; (Email bvangyseghem@geneva.il.us) & Nate Landers (Email nlayers@geneva.il.us) FAX (630) 208-1503.
- 17.3 Certification that Contractor is not barred from public contracting due to bid-rigging or bid rotation convictions must accompany the Bid.
- 17.4 The lands upon which the work is to be performed, rights-of-way and easements for access thereto and other lands designated for use by Contractor in performing the Work are identified in the Contract Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by the Contractor.
- 17.5 **Attached is a checklist of items that must be submitted with the Bid.**

FY 2026 STORM SEWER CLEANING & TV
CITY OF GENEVA

Bidder's Checklist of Items to Assist with Bid Submittal

- 1. Bid Security:** 5% of the Bid, attach to last page of Bid Form Section 00300
- 2. Completed Bid Form**
 1. All names filled in appropriate blanks.
 2. Acknowledge receipt of Addenda.
 3. Price Schedule filled out.
 4. Bid Signed by Officers.
- 3. Completed Sections 00310, 00315, 00320**
 - a. Non-Disqualification Compliance of Illinois Compiled Statutes – Section 00310
 - b. Compliance with the Illinois Municipal Code – Section 00310
 - c. Certification of Compliance with Safety Regulations – Section 00310
 - d. Drug Free Workplace Certification – Section 00310
 - e. Compliance with Prevailing Wage Rate Act – Section 00310
 - f. Compliance with Fair Employment Practices – Section 00310
- 4. Completed Affidavit of Experience Section 00330**
- 5. List of Subcontractors by 2:00 p.m. the day after receipt of bids, Section 00300 - Page 6**
- 6. Completed Affidavit of Litigation History Section 00335**

END OF SECTION

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400 E. AIRPORT ROAD, STE E
ELGIN, IL 60123
800-447-6687 | www.dukes.com



REQUEST FOR PROPOSAL FOR
**STORM SEWER CLEANING &
TELEVISION**

AUGUST 18, 2025

PREPARED FOR City of Geneva
22 S 1st St
Geneva IL 60134

August 18, 2025

City of Geneva
22 S 1st St
Geneva, IL 60134

RE: Storm Sewer Cleaning & Televising

To Whom it May Concern,

Thank you for the opportunity to be of service to City of Geneva. Enclosed you will find a bid submission for the Storm Sewer Cleaning & Televising Bid scheduled to open on August 18, 2025.

Since 1979, Duke's has been a leader in the sewer industry for providing chemical maintenance services to extend the life of infrastructure. Duke's has a reputation for providing effective, proven methods for controlling sewer line root problems. More than 2,000 municipalities have used Duke's to effectively treat over 400 million LF of sewers. Since that time, we have expanded our offerings to meet the ever-growing needs of local governments with innovative and quality driven sanitary sewer evaluation services. To meet that need, we now have more than 450 talented sewer professionals at Duke's, many with over 20 years of direct sewer industry experience. We are ready to collaborate, manage, and execute this program within the timelines set forth by this project. Duke's provides the capacity and equipment to handle the scope of work, and we have the skilled data quality experts to assure data integrity from start to finish.

By partnering with Duke's, you are assured of:

An Experienced Team Dedicated to Quality and Customer Service: We have more than 22 years of experience on similar projects with numerous municipalities across the U.S. Your project is the type of work we do every day.

Your Costs Will Be Controlled: Key members from the Duke's executive team also serve as hands-on project managers and drive your project towards successful completion and comprehensive analysis. This translates to lower fees. We pride ourselves on our ability to accurately estimate a project and control costs for our clients.

Extensive In-House Equipment/Capabilities and Turn-Key Approach: Duke's has the in-house personnel, equipment, knowledge, and resources to ensure that the Owner receives a quality project. By using all inhouse resources, we have more control over the schedule, cost, and quality of your project.

Sincerely,



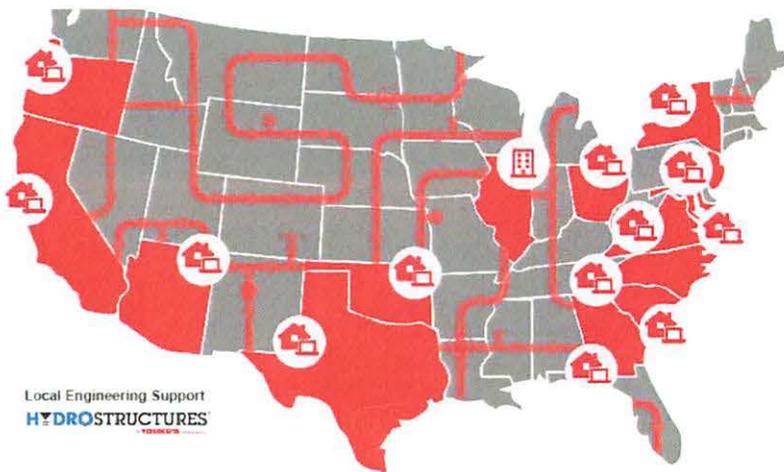
Valerie Kiehl
Opportunity, Response and Profitability (ORP) Manager
Duke's Root Control, Inc.

COMPANY SUMMARY

For more than 40 years, Duke's has assisted system operators in evaluating the overall condition of their facilities, identifying specific problems or shortcomings, and designing the improvements needed to address these concerns. We offer comprehensive in-house services, including inflow/infiltration (I/I) studies, flow metering/monitoring, rain gauge installation, data collection, sanitary sewer evaluation studies, condition assessment reporting, rehabilitation design, construction inspection and management, CCTV inspection and cleaning, and Geographic Information Systems (GIS) development.

LOCATIONS OF OFFICES SUPPORTING THE PROJECT

Duke's Root Control, Inc. is headquartered in Elgin, IL with 14 local branches across the country. Duke's has over 300 full-time employees across these offices including eight registered Professional Engineers and more than 60 employees with NASSCO PACP/MACP/LACP certification.



IN-HOUSE CAPABILITIES

CONDITION ASSESSMENT

- Gravity Sewer Cleaning
- NASSCO MACP Level I, II, & Manned-Entry Manhole Inspection
- Panoramic SI Manhole Scanning
- Video Inspection of Sewer Mains
- Sonar Inspection
- Smoke Testing
- Flow Monitoring and I/I Analysis
- Dye Testing
- Lateral Launch Video Inspection and Locating
- Investigator Water Main Video
- Fire Hydrant Flow Testing
- Sewer Evaluation Studies
- Condition Assessment Reports
- Preliminary Engineering

GIS AND SURVEYING

- GIS Population, Editing and Mapping
- GIS Support
- Plat and Easement Preparation
- Boundary, Utility, Topographic and Property Surveys

DESIGN

- Hydraulic Modeling
- Water Distribution
- Water Main Replacement
- Capacity Analysis
- Trenchless Sewer Rehabilitation
- Sewer Relocation
- Open-Cut Replacement
- Permitting
- Preparation of Construction
- Drawings and Specifications
- Bid Administration
- Grant Application and Administration

EXPERIENCE IN PROVIDING THE SERVICES

The Duke's staff proposed for this project has 22 years of experience in providing services such as this. Our company and its employees are focused on the evaluation and design of public utilities, specifically water, sanitary sewer, and storm water. We have performed hundreds of similar projects throughout our history.

We stake our reputation on our work and will stand accountable. Repeat work is predicated on our successes. Taking responsibility for our actions in the office and in the field to quickly resolve conflicts and issues is how we ensure successful projects no matter how difficult. Honest answers and the right solutions for our clients have qualified us to support and deliver on project goals. This has been our model for success as 90% of the business we do is repeat business with existing clients.

QUALITY OF PAST PERFORMANCE

Duke's has consistently met the budgets and schedules of our clients. Our goal is to go the extra mile for every client, to understand their needs and establish strong team relationships with Owners. We have a proven track record of meeting deadlines. We accomplish this, for example, by adding crews, supplementing staff, and reallocating resources. We ensure quality and safety on every project. *Finally, we believe that we are accountable to the people we serve - our clients and the communities in which we work, because ultimately they are the judges of our performance.*

QUALITY AND SERVICE

We have conducted numerous projects for municipalities throughout the US using these technologies and methods required for this study. While many other consultants leave cities with volumes of information and no direction, we differentiate ourselves in the following ways:

- **A rigorous Quality Assurance/Quality Control program** to reassure you that the information being gathered is appropriate, detailed, accurate, timely, and per budget. Our QA/QC plan involves multiple people reviewing the field data collected and comparing it to what was expected. Because we utilize in house staff resources for field work completion, this QA/QC process ensures completeness from field data collection through to analysis and reporting.
- **We realize that staff is an integral part of a diversified, well-balanced project team.** Therefore, staff will always know what's going on, where, and how long it will last. Progress meetings or phone calls will be held as appropriate to provide a schedule of planned upcoming activities, to summarize the work completed during the previous time frame, and to discuss any obstacles that have been encountered. Our business philosophy is to function as an extension of the owner's staff so that all parties are working towards a common goal. Our web based GIS tools are updated in a real time environment, so you will always know where our field team is working and progress we are making on your project. This service is free.

SECTION 00300

BID FORM

**FY 2026 Storm Sewer Cleaning & Televising
CITY OF GENEVA**

Proposal of Duke's Root Control, Inc.
(hereinafter called "BIDDER"), organized and existing under the laws of the State of Illinois, doing business as a Corporation (insert "A Corporation," "A Partnership," or "An Individual," as applicable) to the City of Geneva (hereinafter called "Owner").

- I. The undersigned BIDDER proposes and agrees, if this bid is accepted, to enter into an agreement with the Owner in the form in the Bidding Documents to perform and furnish all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.
- II. BIDDER accepts all of the terms and conditions of the Advertisement for Bids and Instructions for Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that BIDDER may agree to in writing upon request of Owner.
- III. In submitting this Bid, BIDDER represents, as more fully set forth in the Agreement, that:
 - A. BIDDER has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents, and the following Addenda, receipt of which is hereby acknowledged.

Addendum No.	Addendum Date
_____	_____
_____	_____
_____	_____
_____	_____

- B. BIDDER has visited the site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, performance, and furnishing of the Work.
- C. BIDDER is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

- D. BIDDER has carefully studied all reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site. BIDDER acknowledges that Owner and Engineer do not assume responsibility for the accuracy or completeness of information or data shown or indicated in the Bidding Documents with respect to Underground Facilities at or contiguous to the Site.
 - E. BIDDER is aware of the general nature of Work to be performed by Owner and others at the site that relates to Work for which this Bid is submitted as indicated in the Bidding Documents.
 - F. BIDDER has correlated the information known to BIDDER, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.
 - G. BIDDER has given Superintendent of Water & Wastewater written notice of all conflicts, errors, ambiguities, or discrepancies that BIDDER has discovered in the Bidding Documents, and the written resolution thereof by Superintendent is acceptable to BIDDER.
 - H. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.
- IV. By submission of the bid, each BIDDER further certifies, and in the case of a joint bid each party thereto certifies as to his own organization, that in connection with the bid:
- A. The prices in the bid have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
 - B. Unless otherwise required by law, the prices which have been quoted in the bid have not knowingly been disclosed by the bidder, prior to opening, directly or indirectly to any other bidder or competitor; and
 - C. No attempt has been made or will be made by the bidder to induce any other person or firm to submit or not to submit a bid for the purpose of restricting competition.
- V. Each person signing the Bid certifies that:
- A. They are the person in the BIDDER's organization responsible within that organization for the decision as to the prices being bid and that he has not

participated, and will not participate, in any action contrary to (4) above; or

- B. They are not the person in the BIDDER's organization responsible within that organization for the decision as to the prices being bid, but that they have been authorized to act as an agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to (4) above, and as their agent shall so certify; and shall also certify that he has not participated, and will not participate, in any action contrary to (4) above.

VI. BIDDER will complete the Work in accordance with the Bidding Documents for the following price(s):

ITEM NO.	DESCRIPTION	QUANTITY	UNITS	UNIT PRICE	AMOUNT
1	Storm Sewer Video Inspection with Lt Cleaning (10" & Under)	700	LF	\$2.50	\$1,750.00
2	Storm Sewer Video Inspection with Lt Cleaning (12" - 21")	33,275	LF	\$2.20	\$73,205.00
3	Storm Sewer Video Inspection with Lt Cleaning (24" - 30")	9,700	LF	\$2.89	\$28,033.00
4	Storm Sewer Video Inspection with Lt Cleaning (36" - 48")	6,400	LF	\$3.86	\$24,704.00
5	Storm Sewer Video Inspection with Lt Cleaning (60" - 78")	6,245	LF	\$5.00	\$31,225.00
	Storm Sewer Inlet/Catch Basin Cleaning	88	EACH	\$125.00	\$11,000.00
				TOTAL	\$158,917.00
11	Storm Sewer Heavy Cleaning & Root Cutting	20	HR	\$265.00	\$5,300.00
13	Locate Buried Manhole	10	EACH	\$75.00	\$750.00
				TOTAL	\$17,050.00
Total Amount of Bid					\$175,967.00

*Quantities are estimated and may be reduced to zero if not needed.

NOTES:

- OWNER RESERVES THE RIGHT TO DELETE ANY BID ITEMS WHICH ARE NOT IN THE BEST INTEREST OF THE OWNER. THE OWNER ALSO HAS THE RIGHT TO REDUCE ANY QUANTITIES IN ORDER TO KEEP THE PROJECT UNDER THE BUDGETED VALUE FOR THE FISCAL YEAR.
- BIDDER agrees that the Work will be Substantially Complete by March 31, 2026, with Final Completion by April 30, 2026.**
- BIDDER accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work on time.

4. The Owner reserves the right to reject all Bids.
5. Accompanying this Bid is a Bid Security in the amount of \$ 8,798.35 (5%), which is hereby tendered in accordance with the requirements of the Instructions to Bidders and the Specifications.
6. In the event that this Bid is accepted and an award of contract is made to the undersigned BIDDER, the undersigned does hereby covenant and agree to deliver to the Owner the signed and executed Contract and Bonds as specified in the Instructions for Bidders and the Specifications.
7. The undersigned further agrees to begin work within ten (10) days after the execution and acceptance of the Contract, and thereafter to carry on the work diligently and continuously in such manner as to insure final completion and delivery to the Owner of the entire work or equipment under contract in accordance with the provisions of the Contract.

Witness _____ Hand(s) and Seal _____ this _____ day of _____, 202__.

If an individual, sign
and give address

Address _____

If a partnership, sign all
individual names and give
address of each partner

Partnership Name
Address _____

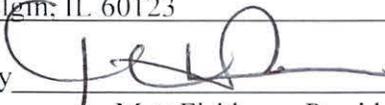
Name and Addresses
of Individual Partners

If a corporation, officers
duly authorized should sign,
attach corporate seal

Duke's Root Control, Inc.
Corporate Name

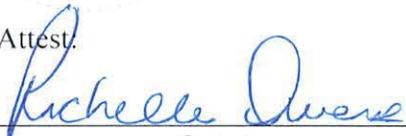
Address 400 Airport Road, Suite E

Elgin, IL 60123

By 
Matt Fishbune, President & CEO

Corporate Seal

Attest.


Secretary

Contact Phone Number of Bidder: (800) 447-6687

Contact Email of Bidder: bids@dukes.com

BID BOND

The logo consists of a blue square frame with rounded corners. Inside the frame, the letters "HF&C" are written in a blue, serif font. The top-left corner of the frame is open, and the bottom-right corner is also open, with the lines extending outwards.

HF&C

HAYLOR, FREYER & COON^{INC.}

AN ALERA GROUP COMPANY

Bonding Specialists



AIA Document A310™ – 2010

Bid Bond

CONTRACTOR:

(Name, legal status and address)

Duke's Root Control, Inc.
400 Airport Road, Suite E
Elgin, IL 60123

SURETY:

(Name, legal status and principal place of business)

Great Midwest Insurance Company
800 Gessner Rd., Ste. 600
Houston, TX 77024

OWNER:

(Name, legal status and address)

City of Geneva
22 South First Street
Geneva, IL 60134

BOND AMOUNT: Five Percent of Bid Amount (5%)

PROJECT:

(Name, location or address, and Project number, if any)

FY 2026 Storm Sewer Cleaning & Televising

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

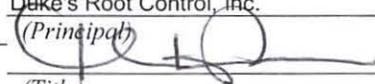
The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

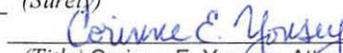
When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 7th day of August, 2025


Richelle Owens
(Witness)

Duke's Root Control, Inc.

(Principal) (Seal)
(Title)


Cat Beck
(Witness)

Great Midwest Insurance Company

(Surety) (Seal)
(Title) Corinne E. Yousey, Attorney-in-Fact

CAUTION: You should sign an original AIA Contract Document, on which this text appears in RED. An original assures that changes will not be obscured.

Init.

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Служба государственной безопасности
Министерства внутренних дел
Секретариат

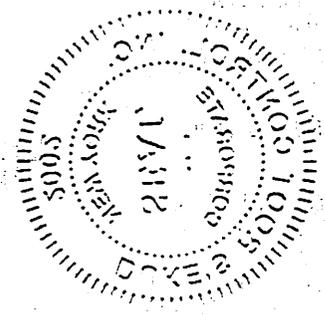
№ 1005

Исходящий № 1005
от 10.05.1990 г.

Секретариат
Министерства внутренних дел
Секретариат

Секретариат
Министерства внутренних дел
Секретариат

Секретариат
Министерства внутренних дел
Секретариат



Секретариат

Секретариат



POWER OF ATTORNEY

Great Midwest Insurance Company

KNOW ALL MEN BY THESE PRESENTS, that GREAT MIDWEST INSURANCE COMPANY, a Texas Corporation, with its principal office in Houston, TX, does hereby constitute and appoint: Corinne E. Yousey, James D. Freyer, Adam J. LaClair, Raechel Eassa, Gia Diep, Meghan J. Hernandez, Steven DeRegis, Anthony Procopio Jr.,

its true and lawful Attorney(s)-In-Fact to make, execute, seal and deliver for, and on its behalf as surety, any and all bonds, undertakings or other writings obligatory in nature of a bond.

This authority is made under and by the authority of a resolution which was passed by the Board of Directors of GREAT MIDWEST INSURANCE COMPANY, on the 1st day of April, 2025 as follows:

Resolved, that the President, or any officer, be and hereby is, authorized to appoint and empower any representative of the Company or other person or persons as Attorney-In-Fact to execute on behalf of the Company any bonds, undertakings, policies, contracts of indemnity or other writings obligatory in nature of a bond not to exceed One-Hundred Million dollars (\$100,000,000.00), which the Company might execute through its duly elected officers, and affix the seal of the Company thereto. Any said execution of such documents by an Attorney-In-Fact shall be as binding upon the Company as if they had been duly executed and acknowledged by the regularly elected officers of the Company. Any Attorney-In-Fact, so appointed, may be removed in the Company's sole discretion and the authority so granted may be revoked as specified in the Power of Attorney.

Resolved, that the signature of the President and the seal of the Company may be affixed by electronic mail on any power of attorney granted, and the signature of the Secretary, and the seal of the Company may be affixed by electronic mail to any certificate of any such power and any such power or certificate bearing such electronic signature and seal shall be valid and binding on the Company. Any such power so executed and sealed and certificate so executed and sealed shall, with respect to any bond of undertaking to which it is attached, continue to be valid and binding on the Company.

IN WITNESS THEREOF, GREAT MIDWEST INSURANCE COMPANY, has caused this instrument to be signed by its President, and its Corporate Seal to be affixed this 8th day of April, 2025.

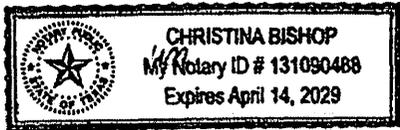


GREAT MIDWEST INSURANCE COMPANY

BY Mark W. Haushill
Mark W. Haushill
President

ACKNOWLEDGEMENT

On this 8th day of April 2025, before me, personally came Mark W. Haushill to me known, who being duly sworn, did depose and say that he is the President of GREAT MIDWEST INSURANCE COMPANY, the corporation described in and which executed the above instrument; that he executed said instrument on behalf of the corporation by authority of his office under the By-laws of said corporation.



BY Christina Bishop
Christina Bishop
Notary Public

CERTIFICATE

I, the undersigned, Secretary of GREAT MIDWEST INSURANCE COMPANY, A Texas Insurance Company, DO HEREBY CERTIFY that the original Power of Attorney of which the foregoing is a true and correct copy, is in full force and effect and has not been revoked and the resolutions as set forth are now in force.

Signed and Sealed at Houston, TX this 7th Day of August 2025



BY Patricia Ryan
Patricia Ryan
Secretary

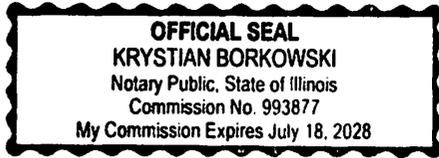
WARNING: Any person who knowingly and with intent to defraud any insurance company or other person, files and application for insurance of claim containing any materially false information, or conceals for the purpose of misleading, information concerning any fact material thereto, commits a fraudulent insurance act, which is a crime and subjects such person to criminal and civil penalties.

ACKNOWLEDGEMENT OF PRINCIPAL

STATE OF Illinois

COUNTY OF Vane

On the 12th day of August in the year 2025, before me, the undersigned, personally appeared Scott Fishbone, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her capacity, and that by his/her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.



Krystian Borkowski
Notary Public

ACKNOWLEDGMENT OF SURETY

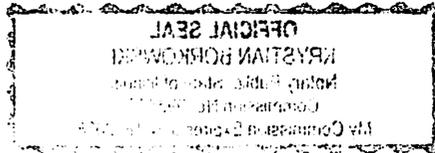
STATE OF New York

COUNTY OF Onondaga

On this 7th day of August in the year 2025 before me personally came Corinne E. Yousey to me known, who, being by me duly sworn, did depose and say that (s) he is the Attorney-in-Fact of the Great Midwest Insurance Company, the corporation described in and which executed the attached instrument; that (s) he knows the corporate seal of the said corporation; that the seal affixed to the said instrument is such corporate seal; and that it was so affixed by order of the Board of Directors of the said corporation; and that signed his/her name thereto by like order.

Meghan J. Hernandez
Notary Public, State of New York
Reg. No. 01HE0025087
Qualified in Onondaga County
Commission Expires May 22, 2028

Meghan J. Hernandez
Notary Public



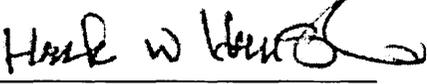
Commission Expires 12/31/2025
Qualified in Onondaga County
Reg. No. 0186032081
Notary Public State of New York
Maginn J. Hennings

Great Midwest Insurance Company
 Statutory Balance Sheet
 as of December 31, 2024
 (in thousands)

Assets		Liabilities, Capital and Surplus	
Cash & Invested Assets:		Liabilities:	
Cash and Short term Investments		Loss and Loss Expense Reserves	\$ 135,359
Bonds	248,659	Unearned Premium	67,488
Commons Stocks	520,407	Ceded Reinsurance Premium	31,846
Mortgage Loans	10,615	Amounts withheld by company for account of others	3,843
Other Invested Assets	142,700	Other Liabilities	79,800
Total Cash & Invested Assets	922,381	Total Liabilities	318,336
Other Assets:		Capital and Surplus:	
Premium Receivables	41,559	Common Stock	4,550
Reinsurance Recoverable	25,299	Gross Paid In & Contributed Capital	677,677
Tax Assets	10,420	Unassigned Funds (Surplus)	28,348
Other Assets	29,252		
Total Other Assets	106,528	Total Capital and Surplus	710,575
Total Assets	\$ 1,028,911	Total Liabilities, Capital & Surplus	\$ 1,028,911

CERTIFICATION

I, Mark W. Haushill, President of Great Midwest Insurance Company, hereby certify that the foregoing is a full, true and correct copy of the Balance Sheet of said Company, as of December 31, 2024.

Signature 

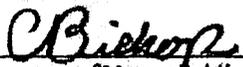
IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of said Company in Houston, Texas this 12th day of March 2025.

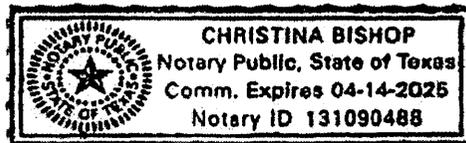
STATE OF TEXAS
 COUNTY OF HARRIS

On this 12th day of March 2025, before me, Christina Bishop, a Notary Public, personally appeared, Mark W. Haushill, who provided to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument and the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY of PERJURY under the laws of the State of Texas that the foregoing paragraph is true and

Witness my hand and official seal.

Signature 
 Signature of Notary Public



**ATTACH BID SECURITY TO THIS PAGE
USING A PAPER CLIP.**

CERTIFICATE OF NON-DISQUALIFICATION

UNDER IL. COMPILED STATUTES, CH. 720, SEC. 33E-11

The undersigned, upon being first duly sworn, hereby certifies to the City of Geneva, Kane County, Illinois, that
Duke's Root Control, Inc. (Contractor)

is not barred from contracting with any unit of State or local government, as a result of a violation of Ch. 720, Sec. 33E-4 of the Illinois Revised Statutes.

Duke's Root Control, Inc.
Name of Contractor

Signature
Matt Fishbune
Print Type Name
President & CEO
Title

Subscribed and sworn to before me this 11th day of August, 2025.



Krystian Borkowski
Notary Public
07/18/23
Commission Expires
Notary Seal

NOTE TO BIDDER: Anyone who makes a false statement, material to this Certification, commits a Class 3 Felony under Ch. 720, Sec. 33E-11(b) of the Illinois Compiled Statutes.

CERTIFICATE OF COMPLIANCE WITH SECTION 11-42.1-1
OF THE ILLINOIS MUNICIPAL CODE

The undersigned, upon being first duly sworn, hereby certifies to the City of Geneva, Kane County, Illinois, that

Duke's Root Control, Inc. (Contractor) is not currently delinquent in the payment of any tax administered by or owed to the Illinois Department of Revenue, or otherwise in default upon any such tax as defined under Chapter 24, Section 11-42.1 Illinois Revised Statutes.

Duke's Root Control, Inc.

Name of Contractor

Signature

Matt Fishbune

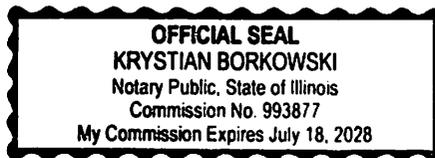
Print Type Name

President & CEO

Title

Subscribed and sworn to before me this 11th day of August, 2021.

Wojciech Borkowski
Notary Public



CERTIFICATE OF COMPLIANCE WITH SAFETY STANDARDS

The undersigned, upon being first duly sworn, hereby certifies to the City of Geneva, Kane County, Illinois, that

Duke's Root Control, Inc. (Contractor)

shall comply with all local, state and federal safety standards.

Duke's Root Control, Inc.

Name of Contractor


Signature

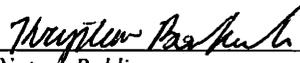
Matt Fishbunc

Print Type Name

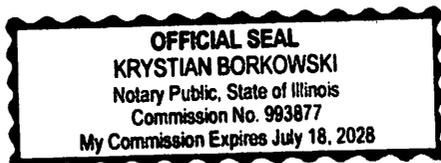
President & CEO

Title

Subscribed and sworn to before me this 11th day of August, 2025.


Notary Public

07/18/28
Commission Expires



OFFICIAL SEAL
KRYSZTIAN BORRKOŃSKI
Notary Public, State of Illinois
Commission No. 003877
My Commission Expires July 18, 2028

CERTIFICATE FOR DRUG FREE WORK PLACE

The undersigned, as a duly-authorized representative of the Contractor do hereby certifies to the City of Geneva, Kane County, Illinois, that the Contractor ensures that he/she will operate a work environment which is free of any and all illegal drugs in accordance with the Drug Free Workplace Act of January, 1992. In addition, any prescribed drugs that will impair an employee's judgement or ability to work safely should not be allowed on the works site or on any satellite location.

Duke's Root Control, Inc.

Name of Contractor



Signature

Matt Fishbunc

Print/Type Name

President & CEO

Title

August 11, 2025

Date

CERTIFICATE OF COMPLIANCE WITH PREVAILING WAGE RATE ACT

The undersigned, upon being first duly sworn, hereby certifies to the City of Geneva, Kane County, Illinois, that all work under this contract shall comply with the Illinois Prevailing Wage Act, 820 ILCS 130/01, et. seq. (the "Act") and current City ordinance, to the extent required by law. Contractors shall submit monthly certified payroll records to the City.

The undersigned, upon being first duly sworn, hereby certifies to the City of Geneva, Kane County, Illinois, that the bidder will file their substance abuse prevention plan.

Duke's Root Control, Inc.

Name of Contractor



Signature

Matt Fishbune

Print/Type Name

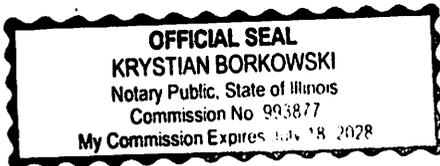
President & CEO

Title

Subscribed and sworn to before me this 11th day of August, 2025.


Notary Public

07/18/28
Commission Expires



CITY OF GENEVA
FY 2026 STORM CLEAN & TV

00310-7
GENERAL CERTIFICATIONS

SECTION 00330

AFFIDAVIT OF EXPERIENCE

**FY 2026 STORM SEWER CLEANING & TELEVISIONING
CITY OF GENEVA**

STATE OF Illinois)
)SS
COUNTY OF Kane)

_____, hereinafter called
Principal. Corporation. Partnership or Individual and which has done work for the following
parties of the general kind and approximate magnitude under this contract:

<u>Name of Owner</u>	<u>Phone #</u>	<u>Job Description</u>	<u>S Amount</u>
Please see attached resumes.			

and that Duke's Root Control, Inc. (Name of said Principal, Corporation, Partnership or
Individuals) available for immediate use on the proposed work the following plant and equipment:

See attached Equipment list.

CERTIFICATION:

CONTRACTOR

BY:



NAME:

Matt Fishbune

(PRINCIPAL)

TITLE:

President & CEO

ADDRESS:

Duke's Root Control, Inc., 400 Airport Road, Suite E, Elgin, IL 60123

CONTRACTORS CORPORATE SEAL

ATTEST

BY:



NAME:

Krystian Burkowski

(NOTARY PUBLIC)

ADDRESS:

Duke's Root Control, Inc., 400 Airport Road, Suite E, Elgin, IL 60123

END OF SECTION

**SECTION 00335
AFFIDAVIT OF LITIGATION HISTORY**

**FY 2026 STORM SEWER CLEANING & TELEVISION
CITY OF GENEVA**

STATE OF Illinois)
)SS
COUNTY OF Kane)

I, Matt Fishbunc, on oath state that the information presented below is a complete accounting of the last ten years of litigation history for the Contractor:

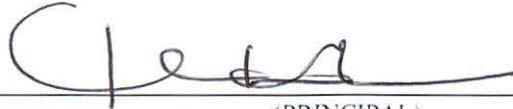
YEAR	CASE/ DOCKET NUMBER	COURT OF JURISDICTION	INDICATE IF CONTRACTOR WAS PLAINTIFF OR DEFENDANT	INDICATE THE NAME OF THE OPPOSING PARTY or PARTIES	<u>DISPOSITION OF CASE</u> INDICATE MONETARY AWARD TO PLAINTIFF/ DEFENDANT / OR SETTLEMENT OR CURRENTLY 'ON-GOING'
None	None	None	None	None	None

Add Additional pages if necessary.

CERTIFICATION:

CONTRACTOR

BY:



(PRINCIPAL)

NAME: Matt Fishbune

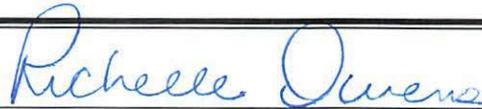
TITLE: President & CEO

ADDRESS Duke's Root Control, Inc., 400 Airport Road, Suite E, Elgin, IL 60123



ATTEST

BY:



(PRINCIPAL SECRETARY)

NAME: Richelle Owens

TITLE: Chief of Staff

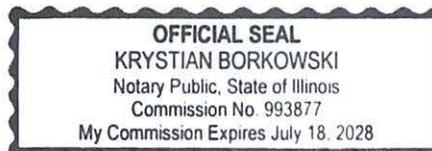
ADDRESS: Duke's Root Control, Inc., 400 Airport Road, Suite E, Elgin, IL 60123

SUBSCRIBED AND SWORN TO

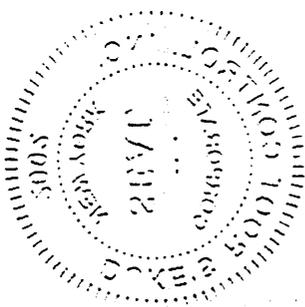
Before me this 11th day of August, 2023.



Notary Public



END OF SECTION



OFFICIAL SEAL
KRYSZTAŁ BORKOWSKI
Notary Public, State of New York
Commission No. 10000
My Commission Expires July 11, 2018

REFERENCES

COMPLETED PROJECTS AND CLIENT REFERENCES

Below is a sample of Projects that Duke's has completed.

VILLAGE OF WILLOW SPRINGS - CCTV AND CLEANING

- Contact Name: Keith Grantland
- Contact Phone: (708) 467-3700
- Scope of Work: CCTV Inspection and Cleaning of Various Diameters and Types
- Contract Value: \$55,000.00

VILLAGE OF LOMBARD - CCTV AND CLEANING

- Contact Name: Ray Schwab
- Contact Phone: (630) 620-5908
- Scope of Work: CCTV Inspection and Cleaning of Various Diameters and Types
- Contract Value: \$220,000.00

VILLAGE OF FLOSSMOOR - CCTV AND CLEANING

- Contact Name: Brian McCarthy
- Contact Phone: (708) 825-5463
- Scope of Work: CCTV Inspection and Cleaning of Various Diameters and Types
- Contract Value: \$100,000.00

CITY OF MCLEANSBORO - CCTV AND CLEANING

- Contact Name: Scott Shoester
- Contact Phone: (618) 643-2723
- Scope of Work: CCTV Inspection and Cleaning of Various Diameters and Types
- Contract Value: \$550,000.00

CITY OF BLOOMINGTON - CCTV AND CLEANING - 2022

- Contact Name: Ward Snarr
- Contact Phone: (309) 287-3334
- Scope of Work: CCTV Inspection and Cleaning of Various Diameters and Types
- Contract Value: \$239,500.00

COBB COUNTY - CCTV AND CLEANING - 2022

- Contact Name: George Barnes
- Contact Phone: (770) 419-6382
- Scope of Work: CCTV inspection and cleaning CCTV inspection and cleaning of large diameter sewer - 42,000 LF of 10- to 36-inch gravity sewer pipe; Erosion and sediment control plan
- Contract Value: \$951,251.00

EQUIPMENT

EQUIPMENT LIST

Duke's has the resources to get this project done, including equipment for in-road and off-road access as well as high quality digital camera equipment. Our extensive in-house equipment includes:

SEWER CLEANING EQUIPMENT

- One (1) 2020 Vac-All Jet/Vac on Freightliner chassis, 85 gpm @ 2,000 psi, 12 cy debris tank, w/18" blower
- One (1) 2017 Vac-All Jet/Vac on Freightliner chassis, 85 gpm @ 2,000 psi, 12 cy debris tank, w/21" blower
- One (1) 2015 Vac-All Jet/Vac on Freightliner chassis, 85 gpm @ 2,000 psi, 12 cy debris tank
- One (1) 2015 Vac-All Jet/Vac on Freightliner chassis, 85 gpm @ 2,000 psi, 12 cy debris tank, w/21" blower
- Two (2) 2012 Vac-All Jet/Vacs on Freightliner chassis, 85 gpm @ 2,000 psi, 12 cy debris tank
- Two (2) 2009 Vac-All Jet/Vacs on Sterling chassis, 85 gpm @ 2,000 psi, 12 cy debris tank
- One (1) 2005 Clean Earth Jet/Vac on Freightliner chassis, 85 gpm @ 2,000 psi, 10 cy debris tank
- One (1) 2004 Clean Earth Jet/Vac on International chassis, 85 gpm @ 2,000 psi, 10 cy debris tank
- One (1) 2003 Clean Earth Jet/Vac on International chassis, 85 gpm @ 2,000 psi, 10 cy debris tank, w/27" blower
- One (1) 1998 Clean Earth Jet/Vac, 85 gpm @ 2,000 psi, 10 cy debris tank
- One (1) 1994 Vactor Jet/Vac on Ford chassis, 85 gpm @ 2,000 psi, 12 cy debris tank
- One (1) 2008 Sewer Equip. Jet Truck, 140 gpm @ 2,500 psi, 3,000 Gallon water tank w/2,500 ft. of 1 ¼-inch hose
- Six (6) Jet-Away track-mounted easement machines w/500 ft. of 1-inch hose
- One (1) Hose Reel mounted on Bobcat T190 skid steer w/1,300 feet of 1-inch hose
- Two (2) Sewer Equipment Company of America bucket machines, w/diesel motors, hydraulic drives, w/1,000 feet of 1/2" cable, and assorted buckets (8"-22")
- 400' of 4" suction hose for remote vacuum cleaning
- Assortment of jetter heads and root cutters (chain, blades and cables) w/root cutting capability in pipe up to 60"
- One (1) - 6" Submersible Hydraulic Pump with 2 self-contained 12 cy debris boxes for a closed loop system

PIPELINE INSPECTION EQUIPMENT

- One (1) New CUES SFX ready base station, DUC ready CCTV system mounted on an Argo Centaur - 8-Wheel Drive UTV
- One (1) Rapidview Ibak MiniLite® 2.0 Push System
- One (1) RapidView/Ibak High Definition color, pan-and-tilt camera system w/data logging computer, ITPipes software, and 1,600 ft. of cable mounted in a 2017 Kubota 4wd ATV with aluminum work station enclosure
- One (1) RapidView/Ibak color, pan-and-tilt camera system w/data logging computer, ITPipes software, and 1,000 ft. of cable mounted on an Argo Centaur - 8-Wheel Drive UTV with aluminum work station enclosure. System also equipped w/a LISY lateral launch system capable of inspecting up to 120 ft. of 3" and larger laterals from the main
- One (1) RapidView/Ibak color, pan-and-tilt camera system w/data logging computer, ITPipes software, and 1,000 ft. of cable mounted in a 2012 Ford E350 cutaway van. System also equipped w/lateral launch capability
- One (1) Power Equipment-Power Vision color, pan-and-tilt camera system w/data logging computer, ITPipes software and 1,000' of cable mounted in 2004 Dodge Sprinter van
- One (1) Power Equipment-Power Vision color, pan-and-tilt camera system w/data logging computer, WinCan reporting software and 1,000 ft. of cable mounted on Off-Road John Deere Gator
- Three (3) Aries Pathfinder pan-and-tilt camera system w/datalogging computer, (1) using WinCan or POSM reporting software and (2) using ITPipes software mounted on Centaur all-terrain vehicles
- One (1) Aries color, pan-and-tilt camera system w/data logging computer, POSM reporting software and 1,000 ft. of cable, van mounted
- Two (2) RST color, pan-and-tilt camera system w/data logging computer, POSM reporting software and 1,000' of cable, van mounted

- One (1) Power Equipment-Power Vision color, pan-and-tilt camera system w/data logging computer, POSM reporting software and 1,000' of cable mounted in an enclosed trailer
- One (1) Cobra and Marine Electrons Totally Integrated CCTV / Sonar System
- Two (2) Marine Electronics Pipe Profiling Sonar unit w/1,000' of cable

LATERAL CAMERA EQUIPMENT

- Three (3) Aries Seeker Push Camera Systems - 200 ft. of cable, self-leveling camera heads, digital video
- One (1) Rigid See Snake Push Camera System - 200 ft. of cable, self-leveling camera head, digital video
- Two (2) Ibak LISY lateral launch camera systems attached to mainline camera systems

MANHOLE CAMERA EQUIPMENT

- Five (5) Panoramio 360 SI 3K/4K camera systems with 300' - 1000' reel lengths, digital video
- Three (3) digital Pole Camera (RHINO) systems for off road access 4K
- Two (2) analog pipe zoom camera systems with 25' pole

SMOKE TESTING EQUIPMENT

- Ten (10) Hurco Power Smoke systems (liquid smoke)
- Signage for smoke testing programs
- Blocking and bypassing sewer plugs, sewer sandbags

MICRODETECTION METERS

- 2,500 Eastech Flow Controls, iTracker Microdetection Sensor Meters (Wi-Fi & Cellular, Alarming Sensors)
- -30+ Digital and Cellular Remote Rain Gauges

PIPE INSPECTION SOFTWARE LICENSES (ALL SOFTWARE IS VERSION 6.0.1)

- Four (4) POSM
- Four (4) ITPipes
- Two (2) WINCAN
- Two (2) PipeLogix
- One (1) Granite XP

WATER SERVICE EQUIPMENT

- Three (3) Kenworth T880 Hydro-Excavation Units
- One (1) Freightlighter L9 Hydro-Excavation Unit
- Two (2) Kenworth T440 Hydro-Excavation Units
- One (1) Peterbilt 597 Hydro-Excavation Unit
- Three (3) Western Start Hydro-Excavation Units
- Two (2) Bobcat Mini-Excavators
- Two (2) Directional Drills
- Seven (7) Dump Trailers
- Fifteen (15) Miscellaneous Support Vehicles



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- Scope of Work: CCTV inspection and cleaning CCTV inspection and cleaning of large diameter sewer - 42,000 LF of 10- to 36-inch gravity sewer pipe; Erosion and sediment control plan
- Contract Value: \$951,251.00

A REPUTATION FOR TRUST

At Duke's, our mission is to provide unparalleled personal service with the knowledge and expertise of our team, offering cost-effective solutions and innovative design.

We are consistent leaders in the fields of water, wastewater, and stormwater consulting, specializing in the inspection, evaluation, mapping, rehabilitation, and design of these infrastructure systems. With a quality team of highly-motivated experts, our strength stems from our commitment to clients, employees, our industry, and the communities we serve.



400 E. Airport Road, Suite E
Elgin, Illinois 60123
800-447-6687 | www.dukes.com

SECTION 00410

NOTICE OF AWARD

**FY 2026 STORM SEWER CLEANING & TELEVISIONING
CITY OF GENEVA**

To: Duke's Root Control, Inc.
400 E. Airport Road, STE E
Elgin, IL 60123

Date: September 18, 2025

The Owner has considered the Bid submitted by you for the above described **Work** in response to its Advertisement for Bids and Instructions for Bidders.

You are hereby notified that your Bid has been accepted in the amount of **\$175,967.00.**

You are required by the Instruction for Bidders to execute the Agreement and furnish the required Contractor's Performance Bond, Payment Bond, and Certificates of Insurance within ten (10) calendar days for the date of the Notice of Award to you.

If you fail to execute said Agreement and to furnish said Bonds and Certificate of Insurance within the ten (10) days from the date of this Notice of Award, said Owner will be entitled to consider all your rights arising out of the Owner's acceptance of your Bid as abandoned and as a forfeiture of your Bid Bond. The Owner will be entitled to such other rights as may be granted by law.

You are required to return an acknowledged copy of this Notice of Award to the Owner.

City of Geneva

NAME: Robert Van Gyseghem

TITLE: Superintendent of Water & Wastewater

DATE: September 18, 2025

ACCEPTANCE OF NOTICE

Receipt of above **NOTICE OF AWARD** is hereby acknowledged:

CONTRACTOR: Duke's Root Control, Inc.

NAME:  _____

TITLE: Matt Fishbune, President & CEO

DATE: September 19, 2025

END OF SECTION

SECTION 00400

AGREEMENT

**FY 2026 STORM CLEANING & TELEVISIONING
CITY OF GENEVA**

This Agreement, made this 22nd day of September, 2025 by and between the City of Geneva, hereinafter called "Owner", and Duke's Root Control, Inc., doing business as a Corporation, hereinafter called "Contractor."

Witnesseth: That for and in consideration of the payments and agreements hereinafter mentioned:

1. The Contractor will commence and complete the construction of the **FY 2026 Storm Sewer Cleaning & Televising**.
2. The Contractor will furnish all of the material, supplies, tools, equipment, labor, and other services necessary for the construction and completion of the Project described herein.
3. The Contractor will commence the work required by the Contract Documents after the date of the Notice to Proceed. The Contractor will Substantially Complete the Work by **March 31, 2026** and will meet Final Completion by **April 30, 2026**, unless the period for completion is extended otherwise by the Contract Documents.
4. The Contractor agrees to perform all of the Work described in the Contract Documents and comply with the terms therein for the sum of **\$175,967.00**, as shown in the Bid Form - Section 00300.
5. The term "Contract Documents" means and includes the following:
 - A. Advertisement for Bids
 - B. Instructions for Bidders
 - C. Bid Form
 - D. This Agreement
 - E. Notice of Award
 - F. Notice to Proceed
 - G. Change Order Form
 - H. Performance Bond
 - I. Payment Bond
 - J. Certificates of Insurance
 - K. Certifications (various)

- L. Addenda:
No. _____, dated _____, 202__
No. _____, dated _____, 202__
- M. Any modification, including Change Orders, duly delivered after execution of Agreement.
6. The Owner will pay to the Contractor in the manner and at such times as set forth in the Special Provisions, such amounts as required by the Contract Documents.
7. This Agreement shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.
8. Owner and Contractor recognize that time is of the essence of this Agreement and that Owner will suffer financial loss if the Work is not completed within the times specified in paragraph 3 above, plus any extensions thereof allowed in accordance with the Contract Documents. The Contractor also recognizes the difficulties involved in proving the actual loss suffered by the Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Contractor shall pay the cost of engineering time, construction observation time, construction management time and any other costs associated with such delay for each day that expires after the time specified in paragraph 3 for Substantial Completion until the work is substantially complete. After Substantial Completion, if contractor shall neglect, refuse or fail to complete the remaining Work within the time specified in paragraph 3 for completion and readiness for final payment, contractor shall pay the cost of engineering time, construction observation time, construction management time and any other costs associated with such delay for each day that expires after the time specified in paragraph 3 for completion and readiness for final payment.

In witness whereof, the parties hereto have executed or caused to be executed by their duly authorized officials this Agreement in **duplicate** each of which shall be deemed an original on the date first above written.

Owner:

City of Geneva

By: 

Name: Alex Voigt

Title: City Administrator



Attest:

Name: Vicki Kellick, by Jannine Tomai

Title: Deputy City Clerk

Contractor: Duke's Root Control, Inc.

By: 

Name: Matt Fishbune

Title: President & CEO



Attest:

Name: Valerie Kiehl

Title: Valerie Kiehl, ORP Manager

END OF SECTION

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**FY 2026 Storm Sewer Cleaning and Televising
City of Geneva**

SPECIAL PROVISIONS

The following Special Provisions supplement the General Conditions, Supplementary Conditions, “Standard Specifications for Water and Sewer Construction in Illinois, 7th Edition” (hereinafter referred to as the “Standard Specifications”), the “Standard Specifications for Road and Bridge Construction”, adopted April 1, 2016, and “Supplemental Specifications and Recurring Special Provisions”, adopted January 1, 2021 by the Illinois Department of Transportation (hereinafter referred to as the “I.D.O.T. Specifications”), the “Manual on Uniform Traffic Control Devices”, and the “Illinois Urban Manual”, included herein by reference which apply to and govern the proposed improvement.

In case of conflict with any part or parts of said General Conditions, Supplementary Conditions, Standard Specifications and I.D.O.T. Specifications, these Special Provisions shall take precedence and shall govern. In case of conflict between the Standard Specifications and the I.D.O.T. Specifications, the Standard Specifications shall take precedence and shall govern.

SP-1 EXECUTION OF CONTRACT

1. Contractor warrants that it has reviewed the Contract Documents, including any plans, specifications and reports, has inspected the project site, and has satisfied itself as to the conditions under which the Work is to be performed, including any subsurface or otherwise latent conditions. Contractor understands that the conditions it encounters may differ from those anticipated and agrees to bear the risk of such difference in conditions. Neither the time in which the Work is to be performed, nor the cost of performing such Work, shall be increased because of unforeseen or unanticipated site or project conditions.
2. The procedures, methods, and materials agreed to in the Contract Documents shall not be deviated from without the written consent of the Owner.
3. The Owner reserves the right of approval over all procedures, methods, and materials to be employed by the Contractor or its subcontractors for this Work.
4. In performing the Work hereunder, it is understood that the Contractor is acting as an independent Contractor and that its employees, agents, and representatives and those of any and all subcontractors which it retains in the Work hereunder shall not be deemed, for any purpose, to be agents, servants, and/or employees of the Engineer or Owner.

Contractor shall perform the Work as an independent Contractor and all of its employees engaged in the performance of the Work shall be supervised and controlled exclusively by the Contractor.

Contractor shall not delegate or assign the obligation of this Contract without prior written approval of the Owner.

5. Contractor warrants that its Work shall be free from defects and shall be suitable for the use intended. In the event that any deficiencies in the Contractor's Work are discovered within one year after completion of the project, Contractor shall, at its sole cost, repair or replace any defective work, including repair of any portion of the project or property damaged by repair, replacement or repetition of defective work. This warranty is in addition to any other remedy which Engineer may have for any defective work of Contractor.
6. The individual or individuals signing this Contract on behalf of the Contractor warrants that they are authorized to bind Contractor to this Contract and guarantee Contractor's performance of the Work set forth under this Contract.
7. The Owner, without prejudice to any other remedy, may correct any defects or deficiencies in the Work of Contractor at the expense of Contractor. Should any tests not otherwise required by this Contract be necessary to inspect or test the Work of Contractor, Contractor shall pay for the cost of the tests if the Work is found not to be in accordance with the requirements of this Contractor, or is otherwise defective.
8. Time is of the essence. Contractor shall schedule its work and that of its Subcontractors to meet requirements of Owner.
9. Contractor shall not divulge information concerning any portion of the Work or the results of any tests, nor shall it provide copies of any reports made pursuant to this Contract, without prior written approval of the Owner, or as required by law.
10. This Contract may be terminated by Owner on fourteen days written notice to Contractor. Contractor shall be paid for all Work performed prior to termination, less the cost of remedying any defective work performed by Contractor. The indemnification, insurance liens, and job site safety obligations survive termination of this Contract.
11. Contractor agrees to defend, indemnify and hold harmless Owner, its officials, trustees, employees, Engineer, and agents from and against any and all claims, damages, liability, suits, actions and expenses, including reasonable attorney's fees, relating to any and all losses or damages sustained by or alleged to have been sustained by any person, including employees of parties hereto, and arising or allegedly arising from Contractor's performance or failure to perform the services set forth in this Agreement and/or the Work regardless of whether or not concurrently caused by the negligence of Owner, except that Contractor shall not be required to defend, indemnify and hold harmless and indemnified Party from claims, damages or liability caused by the sole negligence or willful misconduct of the indemnified Party. In the event that any such claim, action, cause of action or lawsuit is brought or filed, the indemnified Party and its officials, trustees, employees, Engineer and agents sued thereunder, shall have the right to

determine the attorney of its, his, hers or their choice to present and defend their interests in any legal or administrative action, all at the Contractor's expense pursuant to this Contract. The duration of the indemnification hereunder shall be indefinite.

12. Contractor shall be solely responsible for the safety of persons or property on, or adjacent to, the job site. Contractor shall be responsible for his/her activity and that of any of its Subcontractors, employees or agents on the job site with respect to job site safety. Neither the professional activities nor the presence of Engineer or its employees and Subcontractors shall be understood to control the operations of others.

The Contractor shall arrange for all of its employees who will be working on the site to take any appropriate safety and health training courses applicable for the site conditions. The costs and expenses of the employees taking such course shall be paid by Contractor.

Contractor is responsible for providing, at its own expense, all personal protective clothing and equipment required for its employees to perform their Work in a safe manner and in compliance with all applicable local, state, and federal laws and regulations including, but not limited to Occupational Safety and Health Administration (OSHA) standards. Contractor is responsible for ensuring that such equipment is in good condition and is properly inspected and maintained. In cases where a Job Safety Plan or equivalent document (e.g., Health and Safety Plan) has been prepared and adopted by the Owner, Contractor must, at a minimum, use the equipment and follow the procedures described in that plan. This does not relieve the Contractor of the responsibility to provide equipment and institute procedures affording a greater degree of protection than those specified in the Job Safety Plan, if such equipment and procedures are necessary for the Contractor to perform its tasks in a safe manner and in compliance with applicable local, state, and federal regulations.

13. Contractor shall discharge at once or bond otherwise secure against all liens and attachments which are filed in connection with the services, and Contractor shall indemnify and save Engineer, and the Owner of the premises on which the services are performed, or to which the services relate, harmless from and against any and all loss, damage, liability and claims thereof resulting from such liens and attachments.
14. This is the final and complete Contract Documents between Contractor and Owner and supersedes any prior Contract Documents, whether written or oral. Should any portion of these Contract Documents be held invalid, the remaining portions shall continue as if the invalid portions had not been part of these Contract Documents.
15. The Instructions to Bidders, the Specifications and amendments thereto, the Addenda, the Proposal as accepted by the Owner, the Special Provisions, the Project Plans or Drawings, Contract, Contractor's Bonds, Notice to Proceed, Notice of Award, Advertisement for Bids, Certificates of Insurance and all certifications of Contractor regarding eligibility to enter into public contracts, certifications regarding maintenance of sexual harassment policy and certifications regarding absences of tax delinquencies shall form part of this Contract and the provision thereof shall be as binding upon the

parties as if they were fully set forth herein. The Index, titles, headings, running headlines and marginal notes contained herein and in said Contract Documents are solely to facilitate various provisions of the Contract Documents and in no way affect, limit or cast light upon the interpretations of the provisions to which they refer. Whenever the term "Contract Documents" is used, it shall mean and include this Contract, the Instructions to Bidders, the enumerated plans, specifications and amendments thereto, the Addenda, the Proposal, the Special Provisions, Insurance certificates, written Change Orders, and the Contractor's proposal incorporating all post-bid discussions and all other documents set forth herein and in the Specifications.

16. The Contract Documents are complementary, and any Work called for by any part thereof shall be executed as part of the Contract in the same manner as if called for in all parts. Therefore, all Work that may be called for in the Specifications and not shown on the Plans, shall be executed and furnished by the Contractor as if described in both of these documents. Should any work or material be required which are not denoted in the Plans, Specifications, or other Contract Documents either directly or indirectly, but which are necessary for the proper carrying out of the intent thereof, the Contractor shall perform all Work and furnish all materials as fully as if they were particularly described. Likewise, any contradictory clauses between any of the Contract Documents shall be resolved by the Engineer or Owner. The Engineer or Owner's interpretation of these contradictory clauses shall be final.
17. All work covered by the Contract is to be performed under the general direction, supervision, and responsibility of the Contractor but shall be subject to inspection and final acceptance by the Owner.

The Contractor agrees that it shall carry on said Work at its own risk until the same is fully completed and accepted, and shall, in case of any accident, destruction, or injury to the Work and/or materials before its final completion and acceptance, repair, or replace forthwith the Work and/or materials so injured, damaged, or destroyed, at its own expense and to the satisfaction of the Owner.

18. Contractor shall not subcontract the whole or any part of said Work without the written consent of the Owner having been first obtained, which consent shall not be unreasonably withheld by the Owner.
19. Contractor shall cooperate with others performing services for the Owner in connection with any Work in the same location.
20. The Contractor shall be responsible for obtaining all permits necessary for moving equipment over the city or county streets and state highways. The Contractor shall pay all charges and fees, the cost of which will be included in the Contract price for the Work.
21. The Contractor shall comply with all laws, ordinances, rules, and regulations of governmental authorities affecting the conduct of the proposed Work. Before the completion of the Contract, the Contractor shall furnish to the Owner any and all

certificates of approval resulting from required inspections.

22. Contractor shall warrant that all services under this Contract will be performed in accordance with the Contract Documents and in a professional manner with the skill and care which would be exercised by qualified contractors. Contractor will perform again, at its own cost and expense, any portion of the services provided herein that do not meet the standards set forth in this paragraph. Contractor warrants that all equipment it provides will be in good condition when consigned to the job and that its personnel will be capable of performing the tasks to which they are assigned. Contractor further warrants that it understands the risks of exposure to waste, which are presented to persons, property, and the environment by the tasks encompassed by the Contract and that it will fully comply with all applicable federal, state, and local laws.
23. The adequacy of all safeguards is the responsibility of the Contractor. All material and services furnished by the Contractor shall be in compliance with the provisions of the Federal Occupational Safety and Health Act (OSHA) and the regulations and standards promulgated by the Secretary of Labor thereunder.
24. The Contractor agrees that due care shall be used throughout the Work; and that whenever plans, drawings, or specifications, or any of them for any part of the Work, are in its opinion faulty or at variance with each other or with any applicable rules, regulations, or ordinances, or are such as will, if followed, result in construction which is or will be unsafe, imperfect, insecure, or violate of any applicable rules, regulations, or ordinances, the Contractor shall promptly stop Work on the part of the Work affected thereby and notify the Engineer in writing of such opinion and in what respect said plans, drawings, or specifications are insufficient or improper, and shall not proceed with the part of the Work so criticized until a written order has been received from the Engineer or Owner directing what is to be done and when to proceed. Additionally, the Contractor shall:
 - A. Be responsible for repairing any damage to any man-made structure, walkway, etc. arising in connection with the Work performed.
 - B. Bear the responsibility for repairing and/or replacing any equipment or materials damaged by the Contractor or any of its Subcontractors.
 - C. Post warning signs adjacent to all Work areas indicating any hazards as the construction progresses.
 - D. Provide necessary temporary lighting, wiring, globes, guard lights, barricades, or any other items required by regulations, standards, or laws established for public protection and safety or to facilitate the Work.
25. The Contractor shall be responsible for providing a level of security that will ensure control, accountability, and protection to the Work area, tools, materials, and equipment involved in the execution of this Contract.

26. The Contractor, its employees, agents, representatives, and Subcontractors shall not discuss, offer comment, or opinions concerning the Work, or disclose results without the consent of the Owner. This requirement shall apply to the Contractor with regard to disclosures to members of the general public and public and private media.
27. The Contractor shall not display any signs, posters, or other advertising matter in or on the Work or on or around the Site thereof without the specified approval in writing by the Owner.
28. In addition, no advertising copy mentioning the Owner or Engineer or quoting the opinions of any of its employees may be released unless such copy is approved by the Owner or Engineer before release.
29. Contractor in performing Work shall comply and shall require compliance by its Subcontractors with all applicable laws and regulations. Contractor shall not take and is not authorized to take any action in the name of or otherwise on behalf of the Owner which would violate applicable laws or regulations. If Contractor or its Subcontractors perform any part of the Work contrary to applicable laws or regulations, any additional costs resulting therefrom shall be for Contractor's account.
30. Contractor shall make reasonable efforts to discover any conflicts between applicable laws or regulations and job specification and shall promptly notify the Engineer of any conflicts it discovers. Contractor shall not proceed with the part of the Work in conflict without prior written notice from the City of Geneva that (1) the job specification has been revised to comply with the applicable laws and regulations, or (2) the Contractor has negotiated an approval or variance in the law or regulation with the appropriate governmental authority or agency. Additional costs resulting from Contractor's proceedings without such notice shall be for the Contractor's account.
31. Contractor shall not enter into negotiations with any governmental authority or agency to develop variances or revisions to laws or regulations without the Owner's prior written approval.
32. Contractor shall defend the Owner from all claims, suits, or proceedings brought against the Owner and which arise or occur by reason of any alleged violation or violations of applicable law or regulation by Contractor or its Subcontractors in the performance of Work. Contractor shall indemnify and hold the Owner harmless from liability or penalty imposed by reason of such alleged violation or violations of applicable law or regulation.
33. If there is a conflict between any provision of the Contract and applicable law, the latter shall prevail; but, in such event, the provisions of the Contract affected shall be curtailed and limited only to the extent necessary to conform with applicable law.

SP-2 GENERAL

All work shall conform to the Ordinances and Regulations of the City of Geneva, the Illinois Environmental Protection Agency, and other regulatory agencies having jurisdiction over this project, the Standard Specifications, and these Special Provisions. Copies of the plans and specifications must be kept on the job site. Failure to comply with this provision shall be considered cause to stop the job.

All materials used in construction shall be certified as to type and quantity by ticket, invoice, or other written means from the source of supply, except as otherwise provided for by these Special Provisions.

All work shall be constructed in accordance with the limits as shown on the drawings or as given by the City. Responsibility for keeping alignment shall belong to the Contractor. Limits shall be set by the City as construction progresses. The Contractor shall use limit references, as established by the City, to establish his own working or construction limits as required at his own expense and shall be solely responsible for the accuracy thereof. The Contractor's work shall be subject to check and review of the City. The Contractor shall safeguard all property corners, monuments, and bench marks adjacent to but not related to the work, and if required shall bear the cost of restoring these if damaged or moved during construction.

SP-3 PRECONSTRUCTION CONFERENCE

Following the award of the Contract, the Contractor will be required to attend a Preconstruction Conference prior to beginning work. At this time, the Contractor will be required to furnish and discuss the following:

- Written progress schedule and beginning of work
- Names of Project Manager and Field Superintendent including the name and phone number of a responsible individual who can be reached 24 hours a day
- Names of subcontractors and material suppliers
- Traffic Control
- Protection of pavement and property
- Phasing of the Work; Access to Residents; Completion Time; Restoration
- Use of City water
- Location of construction trailer and materials.

SP-4 INCIDENTAL WORK

All work shown or called for on the Plans and in the Specifications shall be incidental to the various bid items in the Proposal even though a specific item is not shown, and no additional compensation shall be made to the Contractor, unless it is indicated in the Special Provisions that additional payment will be allowed, or a unit price is provided for said work in the Bid Proposal.

SP-5 SAFETY

The general contractor, and all subcontractors employed on this project by the general contractor, shall at all times observe safe working conditions as outlined in the Safety and Health Regulations for Construction, Department of Labor, Bureau of Labor Standards, as published in Volume 36 Number 75 of the Federal Register dated Saturday, April 17, 1971: the Occupational Safety and Health Act of 1970 (PL 91-596) and the Rules and Regulations promulgated thereunder.

All subcontractors employed by the general contractor, shall also observe the provisions of the Illinois Occupational Safety and Health Laws.

The Contractor shall be responsible for the cost of any fines levied against Owner or the Engineer due to the Contractor's failure to comply with any safety regulations.

SP-6 FINAL COMPLETION

The completion date is specified on page 3 of the Bid Form. The Contractor shall complete all Work on or before the stipulated completion date, otherwise the Owner may proceed to collect liquidated damages in the amount per calendar day as specified in Article 108.09 of the Illinois Department of Transportation Standard Specification for Road and Bridge Construction.

When a delay occurs causing stoppage of the Work due to unforeseen causes beyond the control and without the fault or negligence of the Contractor, including, but not restricted to acts of the public enemy, governmental acts, fires, floods, epidemics, strike, extraordinary delays in delivery of materials caused by strikes, lockouts, wrecks, freight embargoes, governmental acts, or acts of God, the completion date may be extended by the Owner.

An "Act of God" means an earthquake, flood, cyclone, or other cataclysmic phenomena of nature beyond the power of the Contractor to foresee or make preparation in defense against. Storms or other natural phenomenon of normal intensity, based on U.S. Weather Bureau reports, for the particular locality and for the particular season of the year in which the Work is being prosecuted, shall not be construed as an "Act of God" and no extension of Contract time will be granted for the delays resulting therefrom.

It shall be the responsibility of the Contractor to request in writing an extension of time for each delay event. Contractor shall make no claim against Owner, and no claim shall be allowed, for any damages which may arise out of any delay caused by Owner, its agents, employees or other

contractors or Subcontractors. Contractor's sole remedy for delay from Owner shall be an extension in the Contract Time.

SP-7 HOURS OF WORK

The regular 8-hour day shall be considered to begin at 7:00 A.M. and end at 3:30 P.M. with a one-half (½) hour lunch period, or such other 8-hour period as may be mutually agreed upon by the Owner and the Contractor. It is further agreed that the regular 8-hour day, as established, shall apply to all subcontractors employed on the project.

No work will be permitted to start prior to 7:00 A.M. or after 8:00 P.M. on any day including the start up of heavy equipment, without prior approval from the Owner. The normal working day shall be Monday through Friday. Work on Saturday will be allowed only after formal permission from the Owner is obtained.

No work will be permitted on Sundays and/or Holidays.

SP-8 RESIDENT NOTIFICATION & SEWER ACCESS

The Contractor shall provide and hang notices on doors of all residences / businesses with storm sewers located on the property (example back yard or front yard). The Contractor shall include the contact information for the onsite supervisor as the primary contact for affected residents. The Contractor shall customize the notice to include the City of Geneva logo and contact information. The City shall review and approve the notice format and text at the beginning of the project prior to distribution. All work required for notification to residents shall be incidental to the contract.

For any work conducted in rear yards, coordination with the City's Public Works Department will be required. Easement machines and portable televising may be required to access these sewers.

SP-9 DAMAGE TO PROPERTY & RESTORATION

The Contractor shall be responsible to take all necessary precautions to prevent any damage to private residences / businesses. Any damage to public or private property caused by the cleaning or televising operation shall be the sole responsibility of the Contractor. Any repairs, restoration, or cleaning that is necessitated by project shall be the sole responsibility of the Contractor and shall not be paid for separately.

The Contractor is also responsible for any damaged caused by their vehicles, including ruts in unpaved areas.

All grass areas that are disturbed due to work shall be restored at the sole cost to the Contractor, except work involving uncovering and raising buried manhole frames. The work shall include the grading of trench backfill material, the spreading of pulverized top soil, the grading to obtain

positive drainage, fertilizing, seeding, installing loose straw blanket, stabilizing with hydraulic mulch.

Seed mix with 25% increased rate:

- 24.93% ASAP Perennial Ryegrass
- 24.46% Caddieshack Perennial Ryegrass
- 24.33% Goalkeeper Perennial Ryegrass
- 12.37% Geronimo Kentucky Bluegrass
- 12.29% Kentucky Bluegrass
- 1.34% Inert Matter
- 0.28% Crop
- 0.00% Weed

The Contractor shall replace all topsoil to the depth as it now exists. If the topsoil is less than 6" thick, the Contractor shall provide additional top soil so that a minimum of 6" is replaced. The Contractor shall seed all disturbed grass areas.

Each resident/business shall be responsible for watering after the application.

All restoration shall not be paid for separately, and is incidental to the contract.

SP-10 NOISE RESTRICTIONS

All engines and engine driven equipment used for construction shall be equipped with a sound restrictor device to prevent excessive or unusual noise during normal work hours (7 a.m. to 5 p.m.). Construction operation performed between the period of 7:00 A.M. to 5:00 P.M. on weekdays and all weekends shall be limited to the maximum of 55 dBA noise levels at a distance of 23 feet from the equipment.

SP-11 ACCESS TO RESIDENTS AND BUSINESSES

Contractor shall provide access to residents and businesses at all times, except in an unavoidable circumstance where Contractor may limit the length of closure to four (4) hours during normal working hours, and shall notify the residents, business owners, Owner and Engineer a minimum of 24 hours in advance.

The Contractor shall not close any street or driveway without prior notification and consent of the controlling agency and shall provide at least twenty-four (24) hours notice to the affected residents and businesses. In-the-event of an emergency, the Contractor shall provide immediate access to closed driveways or streets.

The Contractor shall provide to residents, businesses and motorists twenty-four (24) hours advance notice of parking restrictions with appropriate signs and/or barricades placed meeting the approval of the Engineer and controlling agency.

If the Contractor does not provide access to residents and businesses within 3 hours of notification by the Owner, the Owner shall make the necessary arrangements to construct an access to said residence and/or businesses. The cost of such access work will be deducted from any monies due to or to become due to the Contractor.

Contractor shall not use driveways of residential and non-residential properties without the coordination with City staff and property owner. Contractor shall be responsible for and correct any damage or stains to the driveway to the satisfaction of property owner and City.

SP-12 USE OF CITY WATER

The City will provide all water necessary for the project at no cost to the Contractor. The City will provide hydrant meters for this project. The Contractor shall coordinate with the City for the hydrant locations and meter setup.

The Contractor must ensure that the meter / backflow prevention device is installed between the hydrant and the jet truck supply hose. Additionally, the Contractor's vehicle must have a fixed air gap, or one fabricated, in order to pass inspection. The Contractor will be held responsible for damages done to hydrants, water mains and other water appurtenances while securing water. Weekly meter readings are required to be provided to the Engineer.

SP-13 DISPOSAL OF DEBRIS

The Contractor shall remove all sludge, dirt, sand, rocks, grease and other solid or semisolid material resulting from the cleaning operation from the downstream manhole of the sewer segment. Passing material from sewer segment to sewer segment shall not be permitted. In the event that sludge, dirt, sand, rocks, grease and other solid or semisolid material resulting from the cleaning operation are observed and/or detected, as passing to downstream sewer segment(s), the Contractor shall clean such sewer segment(s) at no additional cost.

A "Vactor" or similar vacuum truck must be onsite during all cleaning operations and will be required to be setup on the downstream manhole to pull debris out of the sewer during all cleaning operations. As the sewer jet or other cleaning equipment is in use, the vacuum equipment shall be running in order to prevent debris from moving further downstream. The use of the vacuum truck does not constitute heavy cleaning.

Disposal of all debris from the storm sewers shall be coordinated with city staff as to the temporary location. City staff will then dispose of the debris in a properly delivered container provided by the city's refuse contractor. Under no circumstances shall the removed debris be dumped onto streets or into ditches, catch basins, storm drains, sanitary, manholes or otherwise improperly disposed. Improper disposal of sewage or solids removed from the sewers may subject the Contractor to fines imposed by the City. In addition, the CONTRACTOR may be

subject to civil and/or criminal penalties for improper disposal under the law. **Disposal costs will be paid for separately by the City and will not be part of the contractor's responsibility.**

SP-14 WORKSITE PROTECTION AND TRAFFIC CONTROL

The Contractor shall provide all temporary enclosures, coverings, etc. for protection of the work and workmen until completion of the work; and shall provide all barricades, guards, and overhead protection in connection with the work and maintain them in satisfactory condition so long as they shall be required.

The Contractor shall provide and install any other protection required to properly safeguard the Owner's property, equipment, employees and the public, including obstruction lights, as required by conditions, on equipment or structures in connection with this Contract.

Barricades, lights, signs, arrow boards and flagmen shall be provided by the Contractor in accordance with the Manual on Uniform Traffic Control Devices as printed by the Illinois Department of Transportation. Particular attention shall be given to Part VI, "Traffic Controls for Street and Highway Construction and Maintenance Operations". A copy of this document shall be in the possession of the Contractor on the job site at all times. It shall be the responsibility of the Contractor to follow the procedures on traffic control contained therein at all times. All costs to meet the requirements stated herein shall be considered incidental and included in the various unit bid prices.

At the preconstruction meeting the Contractor shall furnish the name of the individual in his direct employment who is to be responsible for the installation and maintenance of the traffic control for this project. If the actual installation and maintenance are to be accomplished by a subcontractor, approval of said subcontractor shall be obtained from the owner at the time of the preconstruction meeting. This shall not relieve the Contractor of the foregoing requirement for a responsible individual in his direct employ to supervise this work. The Contractor shall provide a manned telephone on a continuous 24-hour-a-day basis to receive notification of any deficiencies regarding traffic control and protection and shall dispatch men, materials and equipment to correct any such deficiencies. The Contractor shall respond to any call from the Owner concerning any request for improving or correcting traffic control devices and begin making the requested repairs within two hours from time of notification.

The Contractor shall be responsible for the proper location, installation, and arrangement of all traffic control devices. Special attention shall be given to advance warning signs during construction operations in order to keep lane assignment consistent with barricade placement at all times. The Contractor shall ensure that all traffic control devices are operational 24 hours a day, including Sundays and Holidays.

Traffic control and protection shall not be limited to the Public right-of-way, but may also be used on private properties, if necessary, upon written authorization from property owner.

SP-15 WORK IN EASEMENTS AND R.O.W.

Contractor shall notify the property owner at least 48 hours in advance prior to starting the work on their property.

SP-16 VIDEO INSPECTION WITH LIGHT CLEANING STORM

This item shall include the cleaning and televising of existing sewers for the purposes of visually inspecting them for acceptance.

Light Sewer Cleaning Prior to Televising: All sewer cleaning prior to televising shall be included as part of the televising cost. The purpose of cleaning is to remove such accumulations of sediment, debris, blockage, mineral deposits, grease, roots, etc. to permit a thorough and complete examination of the condition of the sewer through internal closed-circuit color television inspection. Any additional “Heavy” cleaning required must be approved by Engineer or Owner.

Three full passes with the jetter hose may be required to fulfill the “Light Cleaning” requirement. The intent is to provide the industry standard 95% clean pipe in order to properly assess the pipe with PACP V 7.0.2 coding. The use of a vacuum truck or debris catcher is required in each downstream manhole in order to remove the debris and prevent it from passing further downstream. Should dirt or debris be observed and/or detected, in a manhole or sewer after cleaning, the CONTRACTOR shall re-clean said manhole and the adjacent downstream sewer segment(s) at no additional cost.

The cleaning operation shall occur concurrently with the televising of the sewer.

Video Equipment: The television camera used for the inspection shall be one specifically designed and constructed for the purpose of televising sewers and shall provide a color picture. Lighting for the camera shall be suitable to allow for a clear picture of the entire periphery of the pipe with a field depth of a minimum of (6) six feet. The color camera shall have a high-resolution lens, capable of spanning 360 degrees circumference and 270 degrees on horizontal axis to televise sewer lines (6) six inches in diameter and larger. It is the intention to view all laterals and defects. Further, the camera is to provide a close view of all service line connections. The color camera shall be operative in 100 percent humidity conditions. The camera, television monitor and other components of the video system shall be capable of producing a minimum 500-line resolution video picture. Picture quality and definition shall be to the satisfaction of the Owner, and if unsatisfactory, the sewer line shall be re-televised at no additional cost to the Owner. The Contractor is required to provide atmospheric testing prior to televising to determine if combustible levels exist. The Contractor is required to lower combustible levels as necessary for safe televising by means of ventilation of U.L. approved explosion proof televising and lighting equipment. This work or equipment change is considered incidental to the work and shall not be considered for payment.

Method of Televising Lines: The inspection will be done one manhole section at a time, and the flow in the section being inspected will be suitably controlled. The camera shall be moved through

the line in either direction at a uniform rate, stopping when necessary to ensure proper documentation of the sewer's condition, but in no case will the television camera be moved at a speed greater than 30 feet per minute. Manual winches, power winches, TV cable and powered rewinds or other devices that do not obstruct the camera view or interfere with proper documentation of the sewer conditions shall be used to move the camera through the sewer line. If, during the inspection operation the television camera will not pass through the entire manhole section, the Contractor shall reset his equipment in a manner so that the inspection can be performed from the opposite manhole. If the Owner determines that the camera cannot pass through the entire manhole section, the inspection shall be considered complete and no additional inspection work will be required. During televising operations, only 5% of the internal diameter flow is acceptable.

Television Inspection Logs. The television inspection reports shall be provided both electronically in Adobe Acrobat Reader “.pdf” format as well as two bound hardcopies of the printed paper report. The file naming format shall follow a similar format to the video naming format. Each inspection report shall be named according to the “upstream manhole number – downstream manhole number.pdf” format. For example, a pipe segment with an upstream manhole of 12345 and downstream manhole 67890 would be named “12345 - 67890.pdf”.

The final report files, in paper and electronic “.pdf” formats, shall include a still shot image of **every observation**. These detailed reports shall include the following information at a minimum:

- Project Name
- System Owner Name
- Survey Customer Name
- Contractor Name, Phone Number & Address
- Surveyor's Name & PACP Certification Number
- Date and Time of Televising
- Location (Street Name and Number)
- Address (nearest to each manhole)
- Rim to Invert Measurements (for both Upstream & Downstream Manholes)
- Pipe Segment ID Number
- Upstream Manhole Number & Downstream Manhole Number
- Drainage Area
- Weather
- Segment Length
- Joint Length
- Pipe Material
- Pipe Height (and Width if not Circular)
- Total Pipe Length
- Total Length Surveyed
- Flow Control
- Tape/Media Number
- Pre-Cleaning / Cleaning method
- Pipe condition observations (i.e. grease, roots, deposits, cracks, fractures, sags voids etc.)

- Location of all service connections (description of active vs. inactive) N/A
- Location of all manholes
- Still shot photos of each observation
- NASSCO – Structural, O&M and Overall Ratings

Digital Video Deliverables:

The Contractor shall provide a color digital video of all pipeline segments in “.mpeg” format on two external hard drives with USB 2.0 connections. **Each video shall be named according to the “upstream manhole number – downstream number.mpg” format. For example, a pipe segment video with an upstream manhole of 12345 and downstream manhole 67890 would be named “12345 - 67890.mpg”.** Separate MPEG-3 files and PDF reports with still images shall be created for each manhole to manhole pipe segment inspected.

Video recordings shall be one file per sewer line section and shall be included on the external hard drives submitted. Total drives submitted for final acceptance at the end of the project shall be two.

The pipeline inspection shall consist of identifying a location both within the pipe segment (physical location) and within the digital recording (video frame location) for each defect or observation. The use of time codes for defect location shall NOT be deemed equivalent or acceptable. The digital recording and inspection data is to be cross-referenced for instant access to any point of interest within the digital recording. The inspection information shall include the digital recording of video and audio, segment identification information (starting manhole, date, time, etc.) including a pointer from each observation to the digital recording (video frame number), and any accompanying digital still images (JPEG or BMP).

Any out-of-focus video recordings, or portions thereof, shall be cause for rejection of the video recording and will necessitate re-televising at the Contractor’s expense. Televising shall be done one section at a time. Inspections shall be performed using NAASCO’s PACP version 7.0.2. The sewer pipe video inspection reports must be saved with the PACP overview report

Audio and video observation documentation is to be provided in the most up-to-date form of a NASSCO PACP 7.0.2 coding methodology database. The PACP Version 7.0.2 data base shall include all header information as well as any observations recorded. Links to the videos and the “.pdf” format of the reports shall be included within the data base. This data base shall be updated monthly and shall contain every observation from the beginning of the project through current delivery date.

The deliverable video files shall be full-color, high-resolution, and shall include all pipe surfaces above the water line. At each lateral and connected **service line**, the camera shall stop, rotate, and record a clear image of the lateral or service line to determine condition and if it is active or inactive. The inspection and database shall be fully compatible with PACP 7.0.2 format. N/A

All video files shall be viewable on both VLC Media Player and Windows Media Player. Videos must play in a continuous manner without freezing/glitching on both platforms.

Invoice Data Delivery:

The CONTRACTOR shall provide the City with (2) hard drives prior to the submittal or processing of each invoice. The hard drives shall include the following information:

- Database: A Microsoft Access V07 database file (detailing all header information, defect observations, links to videos and “.pdf” format of the reports from the beginning of the project through current delivery date).
- The associated video files and “.pdf” reports for each line segment televised to date. One digital copy of all files shall be provided on portable USB hard drives.
- A detailed breakdown of segments cleaned and televised for each invoice shall be required including MH to MH segment, pipe size, length and date work was performed. This shall be provided in excel format.
- Certified Payrolls shall be submitted along with the invoice.

Final Data Delivery:

At the end of the project, the CONTRACTOR shall provide two complete reports in binders and two (2) complete sets of all digital video files on individual portable USB powered hard drives. The hard drives shall include the following information:

- Database in **PACP 7.0.2** format to detail location, type, and severity of all defects.
- Microsoft Access V07 Database files with all tables linked by appropriate I.D. numbers, and links to video and “.pdf” report files. **All data shall be linked to the pipe segment ID number.**
- Individual reports (in pdf format) of the PACP & Pipe Segment View Reports for each pipe section, to include a graphical representation of the pipe, service locations / directions, defect locations, **AND STILL-SHOT PHOTOS OF EACH OBSERVATION.**
- The Contractor shall hand-write notes on the maps provided by the CITY. This shall include confirmation of sections that were completed, any variations discovered such as differing pipe diameter, missing pipe sections, missing manholes, etc. and labeled by the Contractor as necessary to correlate to video / photo / database labels. Any buried or unmapped manholes located shall be marked with dimensions to upstream and downstream manholes.
- All videos shall be in **MPEG-3** format and delivered on the portable USB hard drives. Any compromised video files, or un-playable videos will be rejected and the Contractor will need to re-submit at no additional cost.
- All USB flash drives and portable USB hard drives shall become the property of the City upon delivery.

All required work for project deliverables shall be considered incidental to the Contract and will not be compensated for separately.

Basis of Payment:

This work item shall be paid at the Contract Unit Price **per linear foot** for “Storm Sewer Video Inspection with Lt Cleaning” of the diameter specified and shall include all labor and material required for television inspection, light cleaning, electronic media, digital database and all appurtenances required to complete the work. The total quantity for each section shall be the measured straight-line distance in Linear Feet from the center of manhole to center of manhole, regardless of the number of set-ups required.

SP-17 STORM SEWER INLET/CATCH BASIN CLEANING

Each Inlet and Catch basin that is connected to lines called out for Video Inspection and Lt Cleaning are to be cleaned as well. No debris should be remaining in the inlet or catch basin.

Digital Video Deliverables:

The Contractor shall provide a color digital video of each Inlet/Catch Basin cleaned in “.mpeg” format on two external hard drives with USB 2.0 connections. **Each video shall be named according to the Inlet/Catch Basin Structure ID.**

Video recordings shall be one file per structure cleaned and shall be included on the external hard drives submitted. Total drives submitted for final acceptance at the end of the project shall be two.

The surrounding area shall be included in the video recording to verify structure identification. Verbal identification of the structure ID shall also be included with the video as well. Each structure shall be visibly free of any solid debris. Failure to meet this criteria will result in a rejection of payment.

All video files shall be viewable on both VLC Media Player and Windows Media Player. Videos must play in a continuous manner without freezing/glitching on both platforms.

Basis of Payment:

This work item shall be paid at the Contract Unit Price **Each** for “Storm Sewer Inlet/Catch Basin Cleaning” and shall include all labor and material required for cleaning.

SP-18 HEAVY CLEANING & ROOT CUTTING STORM SEWER

Heavy cleaning shall be required where it has been determined that large deposits of debris remain in the sewer lines and complete cleaning of the segment would require more than the industry standard three (3) passes through the line with high pressure water jetting equipment. Wherever four (4) or more passes are required to completely clean the pipe segment, it shall be brought to the attention of the City or Engineer so that this item can be approved before proceeding to “Heavy Cleaning” of the sewer. **Without prior knowledge or approval by the Engineer or City, the City reserves the right to deny payment for “Heavy Cleaning”.**

The heavy cleaning equipment to be used shall facilitate the removal of such accumulation of sediment, debris, blockages, mineral deposits, bricks, grease, etc. The pipe must be free flowing with no obstructions to allow for a complete and thorough inspection.

Bucket machines, rodding machines, lumberjacks, augers and 120 gpm or higher hydro jetting equipment can be utilized in this heavy-duty cleaning. Where bucket machines and buckets are to be used, caution should be taken that a proper sized flexible cable be used so that breakage will not occur hanging the cleaning equipment up within the sewer lines.

The video inspection must begin before the heavy cleaning takes place, in order to get visual confirmation of the initial pipe condition.

Root cutting shall be required where root growth is excessive and cutting would be required to facilitate a thorough and complete examination of the condition of the sewer through CCTV inspection.

Wherever root cutting is required it shall be brought to the attention of the City or Engineer so that this item can be approved before proceeding to “Root Cutting” of the sewer. **Without prior knowledge or approval by the Engineer or City, the City reserves the right to deny payment for “Root Cutting.”**

The root cutting tools shall be the industry standard concave saws, flat saws, water blasters or chain knockers and shall be carefully selected to ensure no damage is caused to the sewer main or any portion of the lateral including protruding laterals. Extreme caution should be taken when operating root cutters in the sewer and a video inspection shall be on the root cutter at all times to ensure damage is not caused from root cutting. The Contractor is responsible for any damage caused by the root cutter and shall be repaired at no expense to the Owner.

The entire segment shall be free of root intrusion for this item to be approved for payment.

Basis of Payment:

All heavy cleaning, root cutting, and protruding tap cutting shall be considered incidental to “Storm Sewer Video Inspection with Lt Cleaning” and shall include all material, and labor required. This item must be approved by the Engineer prior to proceeding. All Heavy Cleaning, Root Cutting, and Protruding Tap Cutting will require accompanying CCTV video and data to be submitted.

SP-19 LOCATE BURIED MANHOLE

This item shall include field locating & field marking of the manhole. The location shall be determined above ground via three methods. First, a camera-mounted sonde and compatible detection wand shall be utilized to locate and paint / flag the location while the camera is halted within the buried manhole. Second, the Contractor shall utilize a measuring wheel or tape to measure from the entry manhole to the buried manhole (based on camera reel counter footage) for confirmation that the correct location is marked. Third, a metal detector shall be utilized to confirm

location if possible. Upon confirmation of location, the buried manhole shall be thoroughly painted (oil-based white) in paved areas and staked in vegetated areas. The Contractor shall also send an area photograph of the location to the city showing the marked location and its surroundings.

Basis of Payment:

Locating of buried manholes shall be incidental to “Storm Sewer Video Inspection with Lt Cleaning” and shall include all labor, equipment and materials required to complete the work. The city must be notified when the manhole has been found via CCTV. The manhole must be drawn onto the field map, as well as clearly marked on the ground.

SP-20 PRE-CONSTRUCTION CLEANING AND TELEVISIONING

General

This section governs all work required for sewer cleaning and inspection by closed circuit televising done in preparation for cured-in-place pipelining, and grouting. Cleaning and televising shall be performed on the entire section of sewer between upstream and downstream manhole structures and shall be completed to the industry standard of 95% clean.

Notice to Residents when Private Property Access is Required

The Contractor shall provide and hang notices on doors of all residences / businesses to sewer mains to be cleaned on private property. Notices shall be distributed 48 hours in advance of the work. The Contractor shall include the contact information for the onsite field supervisor as the primary contact for affected residents. The Contractor shall customize the notice to include City of Geneva logo and contact information. The notice shall be written in both English and Spanish. The City shall review and approve the notice format and text at the beginning of the project prior to distribution. All work required for notification to residents shall be incidental to the contract.

Damage to Property

The Contractor shall be responsible to take all necessary precautions to prevent damage to private residences / businesses. Any damage to public or private property caused by the cleaning or televising operation shall be the sole responsibility of the Contractor. The Contractor shall be responsible for the cleaning needed as the result of sewer backups caused by the jetting operation. Any repairs, restoration, or cleaning that is necessitated by project shall be the sole responsibility of the Contractor.

Equipment

The Contractor is responsible to provide and maintain all industry-standard equipment required to complete the project. Each crew shall have a vacuum / jetter combination truck equipped with a high velocity gun for washing and scouring manholes and a TV truck capable of seating a minimum of 4 people including the City and Engineer. For easement work, the Contractor shall be required to have off-road equipment as necessary to access off-street sewer areas.

A camera-mounted locating sonde, capable of operation at depths up to 20 feet, shall be required to be available each day to locate buried manholes and other defects as required by the Contract and / or as directed by the City.

Each vactor truck must be equipped with a flexible hose in order to reach manholes located at a maximum distance of 8 feet off the edge of pavement.

If any equipment gets stuck in the sewer and needs to be dug up, the Contractor is solely responsible for the cost of the dig, complete restoration and repair of sewer and any other costs associated with the retrieval of the equipment.

1. Hydraulic Sewer Cleaning Equipment Requirements:

- a. Hydraulic sewer cleaning equipment shall be the movable dam type constructed such that a portion of the dam may be collapsed during cleaning to prevent flooding of the sewer.
- b. The movable dam shall be the same diameter as the pipe being cleaned and shall provide a flexible scraper around the outer periphery to ensure total removal of grease.
- c. The Contractor shall take special precautions against flooding prior to using sewer cleaning balls or other equipment that cannot be collapsed instantly.

2. High Velocity Hydro-Cleaning Equipment Requirements:

- a. A minimum of 700 feet of high pressure hose.
- b. Two or more high velocity nozzles capable of producing a scouring action from 10 degrees to 45 degrees in all size lines to be cleaned.
- c. A high velocity gun for washing and scouring manhole walls and floor with the capability of producing flows from a fine spray to a long distance solid stream.
- d. A 1,500-gallon minimum water tank, auxiliary engines and pumps, and a hydraulically driven hose reel.
- e. Equipment operating controls located above ground.
- f. Minimum working pressure of 1,000 pounds per square inch at a 50 gpm rate.

3. Mechanical Cleaning Equipment Requirements:

a. Bucket Machines:

- 1) Furnish with buckets in pairs and with sufficient dragging power to perform the work efficiently.
- 2) Use V-belts for power transmission or have an overload device. No direct drive machines will be permitted.
- 3) Be equipped with a take up drum and a minimum of 500 feet of cable.

b. Rodding Machines:

- 1) Either sectional or continuous.
- 2) Hold a minimum of 750 feet of rod.
- 3) The rod shall be specifically heat-treated steel.
- 4) The machine shall be fully enclosed and have an automatic safety throw out clutch or relief valve.

- c. Lumberjack & Impact Cutters
 - 1) Lumberjack high speed low torque multi-purpose cutters
 - 2) Speeds up to 50,000 rpm
 - 3) Paikert low-speed, high-torque auger cutter
- 4. Closed Circuit Television Equipment
 - a. Television equipment shall include television camera, television monitor, cables, power source, lights and other equipment necessary to the televising operation. The television camera shall be specifically designed and constructed for operation in connection with sewer inspection and pipe joint sealing and testing. A camera-mounted locating sonde, capable of operation at depths up to 20 feet, shall be required to be available each day to locate buried manholes and other defects as required by the Contract and / or as directed by the City.
 - b. Camera and lighting quality shall be suitable to provide a clear, continuously in-focus picture of the entire inside periphery of the sewer pipe for all conditions encountered during the work. The camera shall be able to operate efficiently in 100% humidity conditions.
 - c. The TV camera shall have a rotating head with a high-resolution lens, capable of spanning 360-degrees circumference and 270-degrees on horizontal axis to televise sewer lines 6-inch diameter and larger. Focal distance shall be adjustable through a range of 1 inch to infinity. The purpose of the rotating head camera is to view all service connections, and to locate all defects, as well as any questionable problem areas. The camera shall be zoom capable.
 - d. The TV camera shall be equipped with remote control devices to adjust the light intensity and at a minimum one thousand (1,000) feet of continuous cable shall be provided. The camera shall be able to transmit a continuous image to the television monitor as it is being pulled through the sewer segments. Lighting system shall be adequate for quality pictures. A reflection in front of the camera may be required to enhance lighting.
 - e. For manholes that may be difficult to access or where lamp holes are present in the place of manholes, the Contractor shall have available a self-propelled crawler transporter on which to mount the color television camera so as to be able to inspect the sewer as required.
 - f. The TV camera shall be able to provide a continuous image of not less than ninety percent (95%) of the internal pipe surface at all times for sewers 8" through 18" in diameter and not less than eighty percent (90%) of the internal pipe surface for sewers over 18" through 48" in diameter. Maximum acceptable speed of camera through sewer shall be thirty (30) feet per minute.
 - g. The camera, television monitor and other components of the video system shall be capable of producing a minimum 500 line resolution color video picture.
 - h. Electronic media shall visually display and include a narrative noting:
 - 1) Date, time of day, and depth of flow;
 - 2) Sewer segment number "from manhole to manhole";

- 3) Distance from upstream manhole'
 - 4) Locations of service connections into sewer;
 - 5) Location of obstructions, structural defects, joint deterioration, leakage or evidence thereof, and other abnormalities with respect to the sewer condition and distance in feet from the upstream manhole centerline.
- i. The remote reading footage counter shall be accurate to two-tenths of a foot over the length of the particular section being inspected and shall be mounted over the television monitor. At the City's discretion, the CONTRACTOR shall provide an above-ground verification of the counter's accuracy if requested.
 - j. Digital images should be provided in the common format accessible by Windows Media Player and VLC Media Player viewable in a continuous format. Videos must play in a continuous manner without freezing/glitching on both platforms.

Sewer Cleaning

The sewer manhole sections designated for Sewer Cleaning shall be cleaned using hydraulically propelled, high-velocity jet, or mechanically powered equipment. Selection of the equipment used shall be based on the conditions of the sewer lines at the time the work commences. The equipment and methods selected shall be satisfactory to the City/Engineer. This item shall include the cleaning of sewer and adjacent manholes, and shall consist of root cutting, removal of dirt, grease, rocks, sand and other materials and obstructions from sewer lines and manhole troughs. If cleaning of an entire section cannot be successfully performed from one manhole, the equipment shall be set on the other manhole and cleaning again attempted. Should dirt or debris be observed and/or detected, in a manhole or sewer after cleaning, the Contractor shall re-clean said manhole and the adjacent downstream sewer segment(s) at no additional cost.

The Contractor shall perform all work in accordance with the latest OSHA confined space entry regulations.

Satisfactory precautions shall be taken to protect the sewer segments and sewer manholes from damage that might be inflicted by the improper use of cleaning equipment. Whenever hydraulically propelled cleaning tools, which depend upon water pressure to provide their cleaning force, or any tools which retard the flow of water in the sewer segment are used, precautions shall be taken to ensure that the water pressure created does not cause any damage or flooding to public or private property being served by the sewer segment involved.

The use of a vactor truck or debris catcher is required in each downstream manhole to remove the debris and prevent it from passing further downstream.

If conditions such as broken pipe and major blockages are encountered that prevent cleaning from being accomplished or where damage would result if cleaning were attempted or continued, the Contractor shall immediately notify the Engineer. The Engineer shall be notified of any conditions which warrant termination of cleaning activities.

Heavy Cleaning

Heavy cleaning shall be required where it has been determined that large deposits of debris remain

in the sewer lines and complete cleaning of the segment would require more than the industry standard three (3) passes through the line with high pressure water jetting equipment. The heavy cleaning equipment to be used shall facilitate the removal of such accumulation of sediment, debris, blockages, mineral deposits, bricks, grease, etc. The pipe must be free flowing with no obstructions, in order to permit a thorough and complete examination of the condition of the sewer through internal closed-circuit color television inspection.

Bucket machines, rodding machines, lumberjacks, augers and 120 gpm or higher hydro jetting equipment can be utilized in this heavy-duty cleaning. Where bucket machines and buckets are to be used, caution should be taken that a proper sized flexible cable be used so that breakage will not occur hanging the cleaning equipment up within the sewer lines. No debris shall be allowed to pass into downstream segments during the cleaning operation.

The video inspection must begin before the heavy cleaning takes place, in order to get visual confirmation of the initial pipe condition.

The City of Geneva must be notified that heavy cleaning is needed prior to the work being done.

Heavy cleaning will be paid at the hourly rate in the bid documents.

Root Cutting

Root cutting shall be required where it has been determined that root growth is substantial and cutting would be required to facilitate a thorough and complete examination of the condition of the sewer through internal closed-circuit color television inspection.

The root cutting tools shall be the industry standard concave saws, flat saws, water blasters or chain knockers and shall be carefully selected to ensure no damage is caused to the sewer main or any portion of the lateral including protruding laterals. Extreme caution should be taken when operating root cutters in the sewer and a video inspection shall be on the root cutter at all times to ensure damage is not caused from root cutting.

Root cutting will be considered incidental to this Contract item and will not be paid for separately.

Debris Removal and Disposal

The Contractor shall remove all sludge, dirt, sand, rocks, grease and other solid or semisolid material resulting from the cleaning operation from the downstream manhole of the sewer segment being cleaned prior to beginning television inspection. Passing material from sewer segment to sewer segment shall not be permitted. In the event that sludge, dirt, sand, rocks, grease and other solid or semisolid material resulting from the cleaning operation are observed and/or detected, as passing to downstream sewer segment(s), the Contractor shall clean such sewer segment(s) at no additional cost.

Debris catchers or baskets will be required to be set in the channel of the downstream manhole during all cleaning operations. Additionally, a "Vactor" or similar vacuum truck must be onsite during all cleaning operations and will be required to be setup on the downstream manhole to pull debris out of the sewer during all cleaning operations. As the sewer jet or other cleaning equipment

is in use, the vacuum equipment shall be running in order to prevent debris from moving further downstream. The use of the vacuum truck does not constitute heavy cleaning.

When bucket machines are being used, a suitable container shall be provided to receive the materials dumped from the buckets. The Contractor at his discretion may use an approved container (roll off) for the storage of debris removed from the line segments. All material resulting from the cleaning operations shall be removed from the site when the container has reached 3/4 of its volume, or at least once each working day and disposed of at the permitted disposal site.

Disposal of all debris from the storm sewers shall be coordinated with city staff as to the temporary location. City staff will then dispose of the debris in a properly delivered container provided by the city's refuse contractor. Under no circumstances shall the removed debris be dumped onto streets or into ditches, catch basins, storm drains, sanitary, manholes or otherwise improperly disposed. Improper disposal of sewage or solids removed from the sewers may subject the Contractor to fines imposed by the City. In addition, the CONTRACTOR may be subject to civil and/or criminal penalties for improper disposal under the law. **Disposal costs will be paid for separately by the City and will not be part of the contractor's responsibility.**

Internal Closed-Circuit TV Inspection

The Contractor shall furnish all labor, electronic equipment and technicians schooled and licensed in PACP 7.0.3 format, to perform the closed-circuit television inspection of the sewers. Operation of the equipment is to be controlled from above ground with a skilled technician at the control panel in the television studio, controlling the movement of the television camera through the sewer in either direction one segment at a time.

The video operator(s) shall be Pipeline Assessment Certification Program (PACP) certified by the National Association of Sewer Service Companies (NASSCO) and will be required to show proof of PACP ID or certification before performing work on this project. Certification dates must be current including renewal every three years. Operators with expired PACP ID numbers will not be allowed to work on the project until they have undergone the renewal process. The Contractor shall provide copies of each equipment operator's Certification Number at the preconstruction conference.

The Contractor shall begin each inspection with an onscreen written and verbal explanation of the project name, a detailed description of the location, the manhole to manhole segment, the direction of flow, the direction of camera setup and date. The depth (rim-invert) measurement of each manhole shall be recorded on the PDF report as well. A continuous footage counter shall be provided during the entire inspection, and shall be used to accurately record the locations of defects, connections, or objects in the pipe. The counter shall be accurate to two tenths of a foot. Maintain verbal commentary to identify any item that is called out on the report.

All inspections shall begin and end in the center of the manhole. The start of the video shall NOT begin already in the pipe segment. At the end of each inspection, the Contractor shall pan the

camera around the ending manhole to get a view of what it looks like for identification purposes as well as documenting all incoming pipes.

The camera shall be moved through the line in either direction at a uniform rate of 30 feet per minute, stopping when necessary to ensure proper documentation of the sewer's condition. The Contractor shall take all necessary measures to televise 95% of the internal surface of each sewer segment in its entirety. If dewatering with the jet truck is required to see 95% of the pipe, this shall be done at no additional charge to the City. Lighting system shall be adequate for quality pictures. A reflection in front of the camera may be required to enhance lighting.

If any obstruction in the sewer segment such as a protruding building lateral prohibits the passage of the television camera, the Contractor shall remove the protruding portion of the tap, and shall complete the inspection of the sewer. In case the Contractor must abandon the survey due to any obstructions in the sewer segment that cannot be removed, the Contractor shall attempt to inspect the remainder of the sewer segments by making a reverse set up at the next downstream manhole. No additional payment shall be made for reverse setups. Reverse set ups shall be easily distinguishable from ordinary setups, and must be labeled as such in the header of the PDF report.

All obstructions in the sewer segment that prohibit passage of the television camera shall be immediately reported to the Engineer by the Contractor referencing the location and nature of the obstruction.

The jetter nozzle shall accompany the camera at all times. This will ensure that the maximum area of pipe is visible.

The Contractor shall be responsible for any damage to public or private property resulting from televising activities and shall repair or otherwise make whole such damage at no cost to the City.

Digital Video & Report Deliverables

Electronic media of all sections shall be provided to City together with the respective television inspection reports. TV reports shall legibly show the location of each point of significance in relation to an identified manhole. Points of significance are, but not limited to the following: private service connections, unusual conditions, roots, storm sewer connections, sags, grease, broken pipe, presence of scale and corrosion, structural failures and other discernable features.

The Contractor shall provide a color digital video of all pipe line segments in “.mpeg” format on four (4) external hard drives with USB 2.0 connections. **Each video shall be named according to the “upstream manhole number – downstream number.mpg” format. For example, a pipe segment video with an upstream manhole of 12345 and downstream manhole 67890 would be named “12345 - 67890.mpg”.** Separate MPEG files and PDF reports shall be created for each manhole to manhole pipe segment inspected.

Video recordings shall be one file per sewer line section and shall be included on the external hard drives submitted. Total drives submitted for final acceptance at the end of the project shall be three (3).

All video files shall be viewable on both VLC Media Player and Windows Media Player in a continuous manner. Videos must play in a continuous manner without freezing/glitching on both platforms.

The hard drives shall include a master Excel spreadsheet with hyperlinks to each video file and associated PDF report as well as a master digital database of all observation data. Two (2) copies of the digital video data and logs and (2) complete reports in binder form shall become the property of the City.

- The Master Spreadsheet shall have a record for each line segment televised to date. The spreadsheet shall be in MS Excel format and shall have hyperlinks to both the video files and the associated “.pdf” of the PACP & Pipe Segment View report for each section of sewer televised. The spreadsheet shall include the following information for each record - Upstream and Downstream Structure Numbers, Date Televised, Televised Length, Pipe Size, work performed, and links to both the Video and the “.pdf” report files.
- The Database in PACP 7.0.3 format shall detail location, type, and severity of all defects and shall be Microsoft Access V07 Database files with all tables linked by appropriate I.D. numbers, and links to video and “.pdf” report files. **All data shall be linked to the pipe segment ID number.**

The pipeline inspection shall consist of identifying a location both within the pipe segment (physical location) and within the digital recording (video frame location) for each defect or observation. The use of time codes for defect location shall NOT be deemed equivalent or acceptable. The digital recording and inspection data is to be cross-referenced for instant access to any point of interest within the digital recording. The inspection information shall include the digital recording of video and audio, segment identification information (starting manhole, date, time, etc.) including a pointer from each observation to the digital recording (video frame number), and any accompanying digital still images (JPEG or BMP).

Any out-of-focus video recordings, or portions thereof, shall be cause for rejection of the video recording and will necessitate re-televising at the Contractor’s expense. Televising shall be done one section at a time. Inspections shall be performed using NAASCO’s PACP version 7.0.3. The sewer pipe video inspection reports must be saved with the PACP overview report.

Audio and video observation documentation is to be provided in NASSCO PACP (V7.0.3) coding methodology database. The PACP Version 7.0.3 data base shall include all header information as well as any observations recorded. Links to the videos and the “.pdf” format of the reports shall be included within the data base. This data base shall be updated monthly and shall contain every observation from the beginning of the project through current delivery date.

The deliverable video files shall be full-color, high-resolution, and shall include all pipe surfaces above the water line. At each lateral and connected **service line**, the camera shall stop, rotate, and record a clear image of the lateral or service line to determine condition and if it is active or inactive. The inspection and database shall be fully compatible with PACP V 7.0.3 format.

Contractor shall record inspection in a PACP format. Video recordings and inspection shall visually display and include a narrative noting:

1. Date, time of day, and depth of flow
2. Sewer segment number "from manhole to manhole"
3. Direction of Flow
4. Distance from upstream manhole'
5. Locations of service connections into sewer;
6. All other information encountered during the inspection i. e obstructions, structural defects, leakage, sags, collapses etc.

The television inspection reports shall be provided both electronically in Adobe Acrobat Reader “.pdf” format as well as two bound hardcopies of the printed paper report. The file naming format shall follow a similar format to the video naming format. **Each inspection report shall be named according to the “upstream manhole number – downstream manhole number.pdf” format. For example, a pipe segment with an upstream manhole of 12345 and downstream manhole 67890 would be named “12345 - 67890.pdf”.**

The final report files, in paper and electronic “.pdf” formats, shall include a still shot image of every observation. These detailed reports shall include the following information at a minimum:

- Project Name
- System Owner Name
- Survey Customer Name
- Contractor Name, Phone Number & Address
- Surveyor’s Name & PACP Certification Number
- Date and Time of Televising
- Location (Street Name and Number)
- Address (nearest to each manhole)
- Rim to Invert Measurements (for both Upstream & Downstream Manholes)
- Pipe Segment ID Number
- Upstream Manhole Number & Downstream Manhole Number
- Drainage Area
- Weather
- Segment Length
- Joint Length
- Pipe Material
- Pipe Height (and Width if not Circular)
- Total Pipe Length
- Total Length Surveyed
- Flow Control
- Tape/Media Number
- Pre-Cleaning / Cleaning method
- Pipe condition observations (i.e. grease, roots, deposits, cracks, fractures, sags voids etc.)
- Location of all service connections (description of active vs. inactive)
- Location of all manholes

- Still shot photos of each observation
- NASSCO – Structural, O&M and Overall Ratings

Measurement:

The Contractor shall measure from center of upstream manhole to center of downstream manhole.

Basis of Payment:

Sewer cleaning and television inspection in preparation for rehabilitation work shall be incidental to “Storm Pre – Construction Cleaning and Televising” and “Sanitary Pre – Construction Cleaning and Televising” and shall include all labor and material required for cleaning storm and sanitary sewer prior to liner installation, including all cleaning, televising, root cutting, removal and disposal of debris, removal of mineral deposits and sewerage solids, and all appurtenances required to complete the work.

SP-21 SEWER FLOW AND BYPASS PUMPING

~~This work shall include control of storm and sanitary sewer flow during closed circuit television (CCTV) inspection, sewer cleaning operations, manhole rehabilitation, manhole installation and all other sewer maintenance, inspection or construction activities. The Contractor shall be fully responsible for maintaining sewer service during these operations and shall not be allowed to backup or flood any sewer system user, building or property. The Contractor shall be solely liable for property damages that result from the work being performed.~~

During sewer cleaning operations, only 25% of the internal pipe diameter flow or “limited sewage flow” is acceptable. Flows shall be reduced by plugging, blocking, manually operating pump stations or bypass pumping. During sewer televising operations, only 5% of the internal pipe diameter flow is acceptable.

The Contractor may be required to submit drawings and complete design data showing methods and equipment to be utilized in bypass and dewatering operations. The bypass plan shall include the following information:

1. Location of temporary sewer plugs and bypass discharge lines indicated on plans
2. Capacities of pumps, prime movers, and standby equipment
3. Type of standby power source
4. Traffic control plan

When pumping and bypassing is required, the Contractor shall furnish all temporary pumps, conduits, and other equipment to divert the flow of sewage around the sewer section in which work is to be performed. The bypass system shall have sufficient capacity to handle existing flow plus additional flow that may occur during peak flow periods or from precipitation. The Contractor shall construct bypass system of material to prevent leakage during pumping operation.

The Contractor shall equip all engines with mufflers and/or enclose to keep noise level less than 50 decibels, or 10 decibels above ambient noise levels when measured at building closest to noise source.

The Contractor shall maintain sufficient labor, equipment and materials on site to ensure continuous and successful operation of bypass and dewatering systems including the following:

1. Keep standby pumps fueled and operational at all times
2. Maintain on site sufficient number of valves, tees, elbows, connections, tools, sewer plugs, piping, and other parts or system hardware to ensure immediate repair or modification of any part of system as necessary.
3. Provide piping, joints and accessories designed to withstand at least twice the maximum system pressure or 50 psi (345 kPa), whichever is greater.

In areas where flows are bypassed, all discharge flow shall be returned to the storm and sanitary sewer. No bypassing to ground surface, receiving waters, storm drains, or bypassing which results in groundwater contamination or potential health hazards shall be permitted.

In the event sewage is released into a storm drainage system or street, the Contractor shall immediately stop the release, notify IEPA, and take all necessary actions to clean up and disinfect spillage to satisfaction of the Engineer.

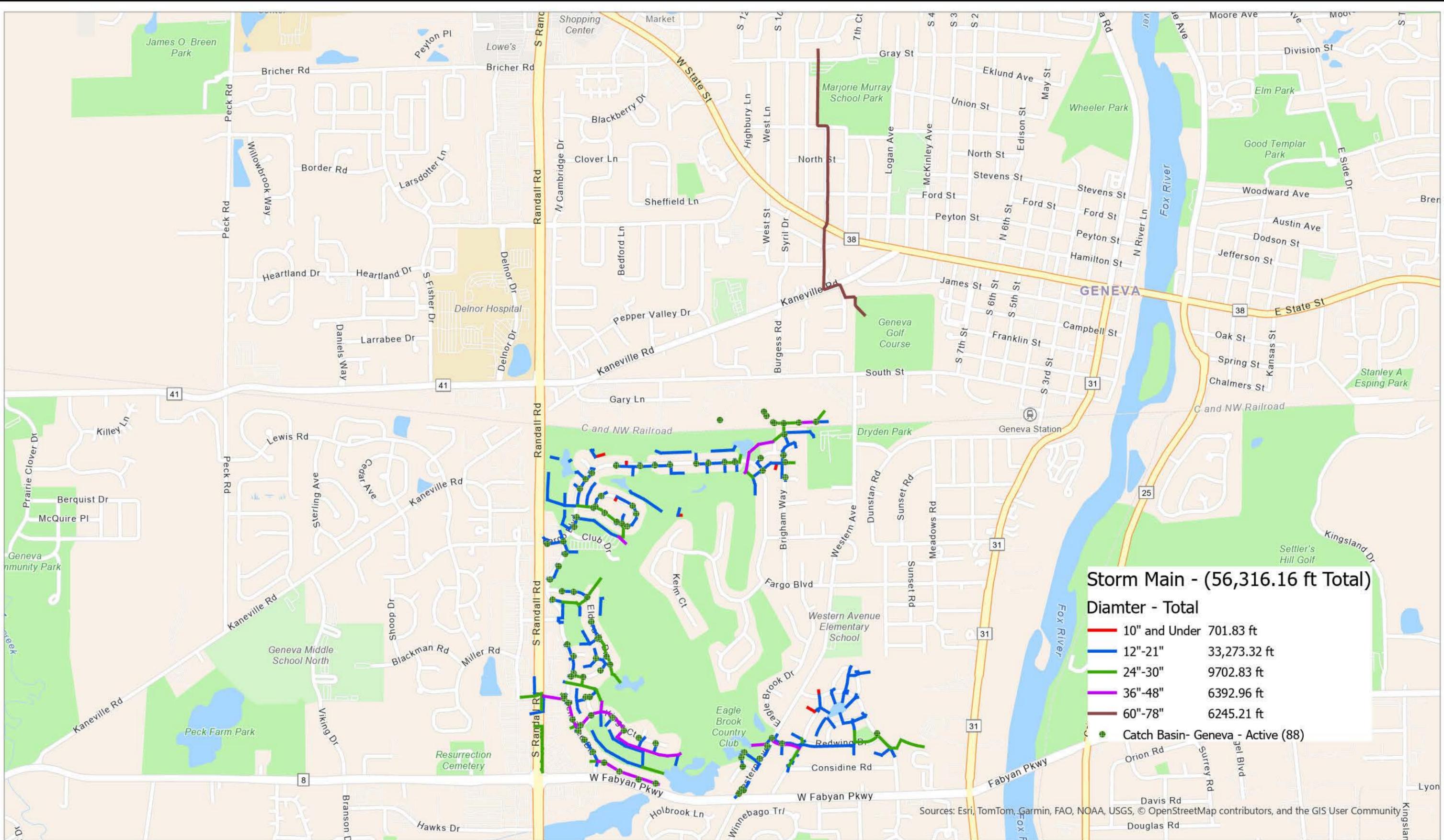
During plugging or bypass pumping operations the Contractor shall utilize sewer plugs specifically designed so that all or any portion of sewage can be released. During sewer flow control operations, reduce flow to comply with requirements as describe above. After cleaning, inspection, installation or rehabilitation work has been completed, restore the flow to normal.

Basis of Payment:

All plugging, bypass pumping and sewer flow control operations shall be considered incidental to the Contract and shall not be compensated for separately.

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Not to Scale

2025 Storm Cleaning

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GIS Division
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