



Scope of Work

Annual Requirement Contract for CCTV of Sanitary Sewer Lines for Arlington Water Utilities Department.

1.0 INTENT

The intent of this invitation to bid is to establish an annual requirements contract for Closed Circuit Television and Inspection of Sanitary Sewer Lines for the Arlington Water Utilities Department. This contract shall provide for the equipment and labor necessary to conduct closed circuit camera T.V. inspections to include cleaning of interior sanitary sewer pipes and documenting reports of pipe condition.

2.0 SCOPE OF WORK

The scope of work consists of furnishing all labor, materials, equipment, supervision, and performing all work necessary to clean, internally inspect, and record the condition of designated sanitary sewer collection system pipelines ranging in diameter from 6-inches to 15-inches. Work includes control of existing sanitary sewer flow, cleaning of the pipeline using high pressure water jets, remote obstruction removal, internal inspection of sanitary sewer collection system pipelines, identifying sewer service taps and laterals, transportation, and proper legal disposal of waste materials generated by the cleaning process. Approved methods for conducting the internal inspection of pipelines include the use of closed-circuit television cameras. The City of Arlington shall not be held responsible for any delays in the work. The Contractor shall work with the City of Arlington to minimize any delays. All work will be performed in accordance with these specifications with regard to quality, workmanship, hardcopy and electronic deliverables, and schedule. The Contractor shall meet at minimal production rate 4,000 LF of inspection and/or cleaning per month.

This is a requirements contract. The quantities listed are based upon the best available data and serve only as a guide and in no way represents an intended or guaranteed amount. The City reserves the right to purchase according to actual need and may or may not meet or exceed the estimated quantities shown.



3.0 CONFINED SPACE

The work expected under this contract involves activities in and around confined spaces. The Contractor and/or Contractor's independently retained employee or safety consultant shall implement a confined space entry program in accordance with OSHA standards governing the presence and activities associated with working in and around confined spaces. The Contractor shall, as a function of the Health and Safety plan, implement a confined space entry program and submit the final version to the contract administrator prior to beginning work. The Contractor shall maintain a copy of the Confined Space Entry Program on site at all times. The Contractor shall take all necessary actions to ensure that his employees and subcontractors have read, understand and follow the plan.

3.1 FIELD QUALITY

The Contractor shall not under any circumstances, allow sewage or solids removed in the cleaning process to be released on streets or into ditches, catch basins, cleanouts, storm drains, sanitary or storm sewer manholes, or waterways. Acceptance of sewer cleaning work is subject to successful completion of an internal inspection. If the subsequent internal inspection shows solids, soil, sand, grease, grit, or other debris remaining in the line, cleaning will be considered unsatisfactory. The Contractor shall be required to repeat cleaning, inspection, and image recording of the sanitary sewer line until the segment is judged satisfactory by the Contract Administrator. If, during the cleaning operations, the Contractor or the Contract Administrator observes materials, such as pieces of pipe or other abnormal debris, among the materials being removed from the collection system, the cleaning operation shall be halted and the line shall be inspected to determine the source of the abnormal debris. Inspections conducted under these conditions shall be considered as pre-inspection of a pipeline, with no additional compensation being allowed.



3.2 SURCHARGING SEWER MAINS

All flow control measures that prevent normal operation of the sewer main, including but not limited to temporary weirs, flow through plugs, or plugs that fully constrict flow are not allowed without written permission. Any request to perform flow control shall be submitted at least 2 (two) business days in advance. Where the sanitary sewer flow is blocked or plugged by the Contractor, every feasible precaution must be taken to protect the public health. The sanitary sewer lines shall be protected from damage.

The Contractor will be held liable for all damages to public and private property caused directly or indirectly by intentional or unintentional surcharging of sanitary sewer mains. Backups into buildings that occur during cleaning or other operations require immediate remediation using the services of a local company, approved by the City specializing in cleaning and disinfecting residences and businesses. The remediation company should be available 24 hours every day for those customers who may not be at home or businesses which may not be open during the day and find their property has been damaged after hours. Arlington Water Utility Department shall be immediately notified at (817) 459-5900 of any such occurrence.

Upon discovery that a backup has occurred, the Contractor shall dry up the spill immediately and dispatch the cleaning service to professionally clean and disinfect the area. The cleaning service firm shall be at the customer site within three hours of notification of backup occurrence, or as otherwise scheduled by customer. Documentation of the remediation services provided to customers shall be provided to the contract administrator upon initiation and at completion of the services. Should the customer refuse the remediation services, the Contractor shall provide a business card and contact name should the customer want to schedule remediation at a later date. Refusal of remediation services shall be documented in writing by the Contractor and provided to the contract administrator. Compensation for remediation of damages caused by sanitary sewer backups, along with any ancillary equipment or material costs is considered subsidiary to the cost of cleaning and inspection of the pipelines. Additional compensation will not be allowed.

3.3 Traffic Control Plan and Procedure (Not in TxDOT ROW)

- a) The Contractor shall deliver to the City Public Works/Transportation Department - Traffic Engineering two (2) copies of each Traffic Control Plan two (2) weeks prior to closing any street



or causing any obstruction to traffic on any street. The Contractor shall not proceed with the implementation of the Traffic Control Plan until notified by the Traffic Engineer or contract administrator that the plan has been accepted. The Traffic Control Plan shall be drawn at a scale not less than 1"=200' unless approved by the Project Inspector and such that it is legible and shall include proposed street closings, detours, barricade placements and sign placement, including advance warning signs and pavement markings if necessary.

- b) The Contractor shall furnish and erect suitable barricades, signs and appropriate pavement markings to protect motorists and pedestrians, as set forth in the City of Arlington Work Area Traffic Control Manual and/or the latest edition of the Texas Manual on Uniform Traffic Control Devices. The barricades, signs and pavement markings shall be constructed, placed and adequately maintained as set forth in the Traffic Control Plan or as directed by the Contract Administrator or his/her authorized representative. All barricades, signs, pavement markings and hours of restrictions shall conform to and be set in accordance with the City of Arlington Work Area Traffic Control Manual. Unless otherwise approved by the Contract Administrator or his/her authorized representative, two-way traffic shall be maintained on all roadways under construction at all times. If it becomes necessary to detour traffic off the existing paved roadway for more than seven days, a hard surface driving lane, such as asphalt, shall be properly constructed and maintained by the Contractor throughout the duration of the detour. No direct compensation will be made to the contractor for furnishing, installing and maintaining barricades, signs, pavement markings and detours and their subsequent removal.
- c) This is to be considered subsidiary to the several items for which unit prices are requested in the bid. Should it be necessary for the City to provide and/or maintain signs, barricades, markings, etc. Preparation and implementation of a traffic control plan shall be included in the final bid pricing.

Compensation for preparation and implementation of the Vehicular and Pedestrian Traffic Control Plan and Procedure (not within the TxDOT ROW) is considered subsidiary to the cost of cleaning and inspection of the pipelines. No direct compensation will be made to the contractor for furnishing, installing, and



maintaining barricades, signs, pavement markings and detours and their subsequent removal. Additional compensation will not be allowed.

3.4 Traffic Control Plan and Procedure (Within TxDOT ROW)

- a) The Contractor shall prepare and submit a detailed traffic control plan and procedure that describes the measures that will be taken to control vehicular and pedestrian traffic during the course of the project, in areas where normal traffic flow will be disrupted by the Contractor's operations. During the course of cleaning and televising of the sanitary sewer system, it may become necessary or desirable to disrupt the normal flow of vehicular or pedestrian traffic in work areas. These disruptions shall be minimized and carried out in compliance with the City of Arlington Work Area Traffic Control Manual and/or the latest edition of the Texas Manual on Uniform Traffic Control Devices. The Contractor shall furnish and erect suitable barricades, signs and appropriate pavement markings to protect motorists and pedestrians, as set forth in the City of Arlington Work Area Traffic Control Manual and/or the latest edition of the Texas Manual on Uniform Traffic Control Devices. Unless otherwise approved by the Contract Administrator or his/her authorized representative, two-way traffic shall be maintained on all roadways under construction at all times.

- b) The Contractor shall deliver to the City Public Works/Transportation Department –Traffic Engineering two (2) copies of each Traffic Control Plan two (2) weeks prior to closing any street or causing any obstruction to traffic on any street. The Contractor shall not proceed with the implementation of the Traffic Control Plan until notified by the Contract Administrator or authorized representative that the plan has been accepted. The Traffic Control Plan shall be drawn at a scale not less than 1"=200' unless approved by the Project Inspector and such that it is legible and shall include proposed street closings, detours, barricade placements and sign placement, including advance warning signs and pavement markings if necessary. The Contractor is responsible for coordination of traffic control measures between local entities including, but not limited to, the City of Arlington, and



TxDOT. Note: Traffic control in TxDOT Right of Way shall be prepared by a Licensed Professional Engineer in the State of Texas.

- c) Compensation for preparation and implementation of the Vehicular and Pedestrian Traffic Control Plan and Procedure within the TxDOT Right of Way considered subsidiary to the cost of cleaning and inspection of the pipelines. Preparation and implementation of a traffic control plan shall be included in the final bid pricing. No direct compensation will be made to the contractor for furnishing, installing, and maintaining barricades, signs, pavement markings and detours and their subsequent removal. Should it be necessary for the City to provide and/or **maintain signs**, barricades, markings, etc., the cost of such shall be deducted from the monthly estimate. Additional compensation will not be allowed.

3.5 SANITARY SEWER CLEANING

- a) The Contractor shall clean grease, sediment, sludge, light roots, and other debris from line segments prior or during all pipe inspection. The Contractor shall remove such materials from the collection system at the downstream access of the line segment being cleaned. **Washing debris from one-line segment to another will not be allowed.** The Contractor shall provide a mechanism to prevent debris from moving downstream from the line segment being cleaned. All solids or semisolid resulting from the cleaning operations shall be removed from the site and disposed of at a site designated by the Contract Administrator.
- b) All materials shall be removed from the site no less often than at the end of each workday and disposed of at no additional cost to the City. UNDER NO CIRCUMSTANCE SHALL SEWAGE OR SOLIDS REMOVED THEREFROM BE DUMPED ONTO STREETS OR INTO DITCHES, CATCH BASINS, STORM DRAINS, OR SANITARY SEWER MANHOLES. The Contractor shall obtain, complete, and maintain all state and local permits, documentation, and waste manifests required to transport and dispose of solid and semisolid waste materials for the duration of the project. The Contractor shall make arrangements with the City of Arlington Water Department for use of temporary water



meter for fire hydrant connection. Refer to Special Provisions Section 10-10 Construction Water. No visible deposits shall remain on the pipe after cleaning.

- c) The Contractor shall protect the pipeline and its appurtenances from damage during the cleaning and televising operation. Light roots shall be removed where light root intrusion is observed and shall be considered part of sanitary sewer pipeline cleaning prior to televising procedures, with no additional compensation allowed. Root removal methods where equipment may include the use of mechanical equipment such as rodding machines, bucket machines and winches using root cutters and porcupines are **not** approved methods for cleaning prior to televising. The approved equipment for root removal shall only consist of high-velocity jet cleaners. A list of lines requiring root removal shall be provided to the Contract Administrator. A line that constitutes heavy roots and prevents the line from being televised shall be immediately provided to the Contract Administrator. Special attention should be given during the cleaning operations to ensure removal of roots from the joints and to prevent damage to the pipe. Chemical means of root control or removal shall not be used on this project.

- d) Grease deposits shall be removed in sanitary sewer main sections where grease is identified in the line segment and shall be considered part of standard sanitary sewer main cleaning procedures prior to televising and no additional compensation will be allowed. The Contractor shall provide a list of lines requiring grease removal to the Arlington Water Utility Department Contract Administrator . Special attention should be given during the cleaning operations to ensure the complete removal of grease from the top of the pipe and to prevent damage to the pipe. Procedures may include high-velocity jet cleaners and hot water. Chemical means of grease removal shall not be used. In the situation where a reverse cleaning setup is desirable, the Contractor shall perform the setup and identify the location of the obstruction to include in the documentation. Examples of causes for reverse setups include but are not limited to blockages in the pipeline and severe vertical and horizontal bends. The cost of a reverse setup shall be included in the final bid pricing.



- e) For the purposes of this contract, light cleaning is defined as the use of high velocity jet cleaner making a least three (3) passes in the sanitary sewer main being cleaned. Any grease, root intrusions or other deposits that are not able to be removed by light cleaning shall be noted in the returned marked up maps. Video evidence of at least 3 passes with a high velocity jet cleaner is required in order for lines with grease, roots or other deposits to be consider cleaned. The second and third passes can be limited to the segments that did not come clean with the first pass. The contractor may pause the initial cleaning if a particular segment of grease, ragging or other debris remains to get the second and third passes with the jetter nozzle during the same inspection. Any inspected mains that have deposits without evidence of at least 3 passes will not be considered cleaned and their quantities will be deducted from invoiced amounts.

3.6 Removal of Any Equipment That Becomes Lodged in the Pipeline

- a) The Contractor shall be responsible for the removal of equipment using non-intrusive methods. Whenever possible, the Contractor will not utilize any intrusive methods other than via existing access devices or structures. In situations where it will be required to excavate and open the pipe for intrusive removal of equipment, the Contractor shall contact the contract administrator and Arlington Water Utilities at (817) 459-5900 immediately.
- b) The Contractor shall be solely responsible for all cost associated with removal by intrusive means, including material, equipment, labor and overhead for repairs to pipelines, manholes, appurtenances, and surface restoration. All repairs shall be done to current City standards. The City makes no guarantee that all of the sanitary sewers to be entered are clear for the passage of cleaning equipment and/or camera.
- c) The methods used for securing passage of the camera are to be at the option of the Contractor. Under all circumstances, all costs associated with retrieving any lodged equipment shall be incidental to television inspection. In the event the cleaning equipment and/or camera is unable to be removed from the pipe and/or manhole, the



Contractor or Contractor's representative shall remain onsite until the equipment is removed, or they have been given written permission to leave by the Contract Administrator. The Contractor shall coordinate all retrieval efforts and provide timetable to the City. The City will be reimbursed by the Contractor for any time and/or materials used to prevent additional damage caused by the Contractor's equipment blocking flow in the sewer main.

3.7 TELEVISION EQUIPMENT AND OPERATION

Color pan, tilt and zoom (PTZ) cameras shall be capable of turning to look at right angles to the longitudinal axis of the pipe segment over an entire vertical circle. Per NASSCO PACP guidelines, the maximum speed for PTZ inspections shall be 30 feet per minute.

Side-wall scanning inspection systems are imaging cameras that are capable of a continuous 360-degree image capture of the wall of the pipeline being inspected. These systems may have one or multiple cameras to capture the complete interior view of the pipeline. Inspection captured with side-wall scanning systems may be conducted at higher speeds if the footage is acceptable quality as judged by the City. The camera speed shall not exceed the manufacturer's max recommendation. Once the pipeline inspections are completed, the captured images can be linked with a companion software package that allows for identifying and coding defects and features in the pipeline. The Contractor shall provide a fold flat view and a perspective view (typical of CCTV) of the pipeline for each inspection unless otherwise approved by the City in writing. The Contractor shall verify camera compatibility with Owner's software prior to using side scanning camera for this project. If the image quality is not adequate for post-inspection coding, the Contractor shall be required to repeat the survey at the Contractor's expense. The only acceptable side-wall scanning camera systems are the RedZone Robotics SOLO and EnviroSight Rover X with a Digisewer head.

Lighting for all cameras shall be suitable for illumination of the entire periphery of the pipe, thus allowing the recording of a clear picture of the condition of the pipe segment. All equipment used shall be specifically designed and constructed for sewer inspection. All non-approved equipment shall not be used in this project.



The camera shall be operative in 100% humidity conditions. The camera shall be capable of producing picture quality to the satisfaction of the Contract Administrator, and if unsatisfactory, equipment shall be removed, and no payment will be made for an unsatisfactory inspection.

Scored Closed-Circuit Television Inspection

- a) The Contractor shall perform inspections in accordance with NASSCO's Pipeline Assessment Certification Program (PACP) version 7. CCTV inspections will be delivered in electronic format. The entire survey shall be recorded in an approved electronic format submitted with electronic links between the data and the video. All television inspection reports shall be with-in +/- two (2) feet of the measured linear footage between manholes along the existing sewer centerline from the start of pipe to end of pipe. Work not following these specifications will be rejected for payment and the Contractor will be required to resubmit in the proper format for no additional costs. Footage for CCTV inspection may be captured by either PTZ or approved side-wall scanning panoramic camera.

- b) All NASSCO PACP required header information and optional fields required by the City must be fully and accurately entered on all inspection data entries. Header information shall match the City provided data. The Contractor shall fill in all PACP version 7 required fields, and the database shall be in the standard PACP version 7 format. All database tables shall be complete and accurately filled out per PACP version 7 and scored as "Sewer/Combined/Stormwater" mains. The optional header Field 3 ("Reviewed By") shall be filled with "ThirdParty_Coded" for all inspections. The optional header Field 20 ("Inspection Technology Used") shall accurately reflect the equipment used in each inspection. Any other adjustments to any PACP fields or acceptable formats shall be documented and approved in writing.

- c) The PTZ camera footage shall pause, pan, and visually inspect all service connections, pipe ends, and maintenance or structural defects per NASSCO PACP guidelines. If utilizing a camera with side-wall scanning capabilities, the contractor shall ensure all service



connections, pipe ends, and maintenance or structural defects are fully visible in the final footage. The only acceptable side-wall scanning camera systems are the RedZone Robotics SOLO and Envirosight Rover X with a Digisewer head.

- d) Except for the case where another utility pipe is blocking the sewer main, if a blockage is encountered the Contractor shall remove it using high pressure jet nozzle. If a blockage cannot be removed and hampers the televising of the sewer in one direction, then the Contractor shall attempt to complete the section by televising from the other manhole to complete the section. This reversal should immediately follow the initial direction. If a bore-through utility pipe is visible in the sewer main, the Contractor shall immediately stop cleaning and inspecting the main and make every effort to avoid damaging the bored-through utility pipeline. The Contractor must immediately report the obstruction to the Contract Administrator and shall not re-attempt the inspection without permission from the Contract Administrator.

- e) The Contractor shall provide a PACP certified operator on site at all times during the entire survey. If video is to be coded separately from the actual recording, both the onsite Operator and the individual performing the PACP coding shall be PACP certified. The Contractor shall provide proof of certification prior to commencement of work, prior to a change in personnel involved in data collection, and as requested by the Contract Administrator.

Unscored Closed-Circuit Television Inspection

- f) The Contractor shall collect inspection footage in accordance with NASSCO's Pipeline Assessment Certification Program (PACP) version 7. No scoring for this footage is required except for the initial and final required codes (Initial access point, water level and final access point/inspection abandonment). CCTV footage will be delivered entirely in electronic format. The entire survey shall be recorded in an approved electronic format submitted with electronic links between the data and the video. All television inspection



reports shall be with-in +/- two (2) feet of the measured linear footage between manholes along the existing sewer centerline from the start of pipe to end of pipe. Work not following these specifications will be rejected for payment and the Contractor will be required to resubmit in the proper format for no additional costs . No video inspections from pan/tilt/zoom cameras will be accepted for unscored closed-Circuit television inspection footage.

- g) Footage for CCTV inspection shall be captured by approved side-wall scanning panoramic camera only. The contractor shall ensure all service connections, pipe ends, and maintenance or structural defects are fully visible in the final footage. The only acceptable side-wall scanning camera systems are the RedZone Robotics SOLO and Envirosight Rover X with a Digisewer head.

- h) All Engineer and PACP required header information must be fully and accurately entered on all CCTV data entries. Header information shall match the City provided data. The Contractor shall fill in all PACP version 7 required fields, and the database shall be in the standard PACP version 7 format. All database tables shall be complete and accurately filled out per PACP version 7 and scored as "Sewer/Combined/Stormwater" mains. The optional header Field 3 ("Reviewed By") shall be filled with "ThirdParty_Uncoded" for all inspections collected under this section. The optional header Field 20 ("Inspection Technology Used") shall accurately reflect the equipment used in each inspection. Any other adjustments to any PACP fields or acceptable formats shall be documented and approved in writing.

- i) Except for the case where another utility pipe is blocking the sewer main, if a blockage is encountered the Contractor shall remove it using high pressure jet nozzle. If a blockage cannot be removed and hampers the televising of the sewer in one direction, then the Contractor shall attempt to complete the section by televising from the other manhole to complete the section. This reversal should immediately follow the initial direction. If a bore-through utility pipe is located in the sewer main, the Contractor shall immediately stop



cleaning and inspecting the main and make every effort to avoid damaging the bored-through utility pipeline. The Contractor must immediately report the obstruction to the Contract Administrator and shall not re-attempt the inspection without permission from the Contract Administrator.

- j) The Contractor shall provide a PACP certified operator on site at all times during the entire survey. If video is to be coded separately from the actual recording, both the onsite Operator and the individual performing the PACP coding shall be PACP certified. The Contractor shall provide proof of certification prior to commencement of work, prior to a change in personnel involved in data collection, and as requested by the Contract Administrator.

3.8 Closed Circuit Television Inspection Special Instructions

- a) Recorded images shall pan beginning and ending manholes to show that all debris has been removed. The Contractor shall leave the camera recording during initialization. If during TV inspection a manhole is encountered that is not shown on the maps or tabular segment listings, the Contractor shall mark the manhole on the maps provided, and add the note “Unknown Manhole” in the remarks section of the closing access point code.
- b) All recorded PTZ camera video footage shall formatted in .mp4 using the H.264 video coding standard.
- c) The Contractor shall then update the header form to reflect unknown manhole and begin a new inspection per NASSCO-PACP standards.
- d) The new inspection will begin with the unknown manhole and carry the same Pipe Segment ID as the initial inspection. If multiple unmapped manholes are discovered during a single inspection, the Contractor shall add the suffix ‘-01, -02, etc.’ the end of the unknown manholes and notify the Contract Administrator immediately.



- e) If an obstruction is encountered during the televising process the Contractor shall televise the manhole section from the other direction in order to obtain a complete recording of the line. Examples of causes for reverse setups include, but are not limited to, blockages in the pipeline and severe vertical and horizontal bends. The cost of reverse setups shall be considered subsidiary to this item. No additional compensation will be allowed for reverse setups. Staging and/or overnight **storage of vehicles and equipment shall not be allowed**. The Contractor shall notify customers for any extended out of service periods during emergency repairs.

3.9 DELIVERABLES

Electronic submittals must include the following information and conform to the applicable guidelines:

- NASSCO PACP version 7 Certified Database and media export unless otherwise agreed by the City in writing. All City required and NASSCO PACP required information must be fully and accurately entered on all inspections per this spec.
- Each deliverable shall include a report outlining the deliverable scope and inaccessible main in a format agreed to in writing.
- Data may be transmitted via portable hard drive or other media as agreed by Contract Administrator.

In addition, the contractor shall track inspection comments on the supplied maps or Contractor generated maps using supplied GIS information. Any inspections not attempted due to inaccessible manholes, high flow depths, obstructed pipes or any other reason shall be noted on the maps, as well as any manholes or other unknown features discovered during the CCTV inspection(s). All field marks shall be legible and clear in meaning, and the Contractor shall revise and clarify any ambiguous or unclear comment at the Contract Administrator's request. The Contractor may digitally reproduce the maps and/or markups. The Contractor shall return a PDF of the marked-up map along with the inspection information.

All reports shall be checked for quality and completeness prior to returning to the City. Any omissions in defect or observation coding may result in a partial or complete rejection of the affected deliverable. Any



pan/tilt/zoom camera inspection that fails to inspect every visible defect will require reinspection if the contract administrator determines the video does not adequately capture the condition of the main being inspected. If errors and/or omissions are present in any inspection, the entire submittal will be returned to the Contractor for review before acceptance by the City.

The first deliverable shall be submitted to the City no later than 30 calendar days after the Contractor receives the initial project scope map(s) for review and shall contain at least 1500 linear feet of inspection.

3.10 Line Plugging and Flow Diversion

- a) Line plugging and flow diversion will only be allowed with specific, written permission. When flow in a sanitary sewer is plugged, blocked, and/or diverted to another collection system for the reduction of the water level within the sanitary sewer main, sufficient precautions, as determined by the Contractor, must be taken to protect the sanitary sewer lines from damage that might result from sanitary sewer surcharging. Under no circumstances will overflows be permitted by the Contractor. Further precautions must be taken to ensure that sewer flow control operations do not cause flooding or damage to public or private property being served by the sanitary sewer lines involved.

- b) The Contractor shall be solely liable for damages due to backups, overflows or system diversions that result from the Contractor's work activities related to this project. The Contractor will be required to provide a map that illustrates where the plug will be placed and where the flows are to be transferred to. A sanitary sewer line plug shall be inserted into the Line upstream of the section being worked. The plug shall be so designed that all or any portion of the sewage can be immediately released during cleaning or inspection operations. After the work has been completed, flow shall be restored to normal pre-inspection conditions. Line plugging or blocking shall be considered incidental to sanitary sewer line cleaning and inspection activities, with no additional compensation allowed.



- c) The process of DEWATERING pipelines includes plugging of the sanitary sewer line and running a nozzle slowly from the plug at the upstream end of the line in order to pull water downstream. Dewatering will not be allowed without specific, written approval. A vacuum may be required to dewater the line to within the limits specified herein. The downstream manhole may also have to be plugged to prevent backflow. After the work has been completed, flow shall be restored to normal pre-inspection conditions. DEWATERING of the sanitary sewer flow is allowed with prior notification of the Contract Administrator. Dewatering shall be considered incidental to sanitary sewer line cleaning and inspection activities, with no additional compensation allowed. Pricing shall be Included in the final bid pricing in this bid.

3.11 SEWAGE SPILLS AND OVERFLOWS

If during the cleaning or inspection operation, raw sewage is spilled, discharged, leaked or otherwise deposited in the open environment due to the Contractor's work or activities, the Contractor shall immediately clean up the sewage and solids and disinfect the area affected. All overflows shall immediately be reported to the Contract Administrator and Arlington Water Utilities at (817) 459-5900.

Proper cleanups and mitigation actions shall be taken to resolve the matters in the most expeditious manner to primarily address safety to the public.

The Contractor is responsible for any fines, penalties or other costs or damages imposed upon the City of Arlington by any agency or private party as a result of the spill or improper discharge by the Contractor.

3.14 DISPOSAL OF SOLID AND SEMISOLIDS

The Contractor shall dispose of all material removed from the sanitary sewer collection system at Cold Springs Processing, located at 1300 Cold Springs Road, Fort Worth, Texas 76102. All materials shall be removed from the site no less often than at the end of each workday and disposed of at no additional cost to the City.

The Contractor shall not stockpile any removed materials on the site. If the disposal process uses decanting, the Contractor shall decant liquids collected during the cleaning and inspection processes, only at locations designated and approved by the City, back into the sanitary sewer collection system. The



Contractor shall not pass grease or solids into the sanitary sewer collection system during the decanting process.

Compensation for transportation and disposal of waste material resulting from the cleaning and inspection operations is considered subsidiary to the cost of cleaning and inspection of the pipelines. Additional compensation will not be allowed.

3.15 NOTIFICATION/RESPONSE FOR SERVICE

The Contract Administrator shall be notified of all work. At the City's option, a City representative may be present during the Contractor's cleaning, inspection, and televising of each project location. The Contractor shall inform the Contract Administrator with sufficient time to be present should the Contract Administrator deem necessary. Contractor shall provide response for service within 24 hours upon notification from owner.

3.16 Cleaning Locations

The City shall provide maps showing the scope limits of the sewer main cleaning and inspection project(s). The Contract Administrator shall provide the approximate lengths, estimated pipe diameter, pipe segment ID, Upstream ID and Downstream of all pipes to be cleaned, inspected and televised. These lengths shall be measured, agreed upon by the Contract Administrator and Contractor, prior to the commencement of any work. All mains within one project shall be inspected for a project to be considered complete. If any main is unable to be inspected due to field conditions, these conditions must be noted when the project is submitted for review.

3.17 MOBILIZATION

Mobilization is subsidiary to each bid item.

3.18 CONSTRUCTION WATER

Construction water necessary for the normal construction of this project will not be provided free to the Contractor. All construction water will be metered by City owned meters and only these meters. The Contractor is responsible for paying the current rate for the meter at the Customer Services Office - 101 West Abram Street, 1st Floor of the City Hall, prior to picking up the meter. There will be a fee and deposit



for furnishing the meter. These meters will be furnished by the City of Arlington and will be picked up at the City of Arlington Water Utilities Field Operations Building - 1100 S.W. Green Oaks Boulevard. The meter will be read and billed each month in accordance with the current Customer Services Policy.

Any damage that occurs to the meter during this time will be repaired by the City of Arlington at the expense of the Contractor. The cost of the repairs will be deducted from the deposit and the remaining deposit returned to the Contractor. This procedure will be followed wherever construction water is needed. No exceptions to the rule will be sanctioned. If the meter is set on a fire hydrant, the meter assembly shall be provided with an approved backflow prevention device, provided and supported by the contractor in accordance with the standard detail. Where water is necessary only to settle dust on the street at the request of the property owners, the Contract Administrator or inspector will notify the Contractor.

4.0 SUBMITTALS (RESPONSE ATTACHMENTS)

1. Letter from remediation company offering acknowledging availability to preform emergency remediation in accordance with these specifications.
2. List of all PACP certified inspectors that may be collecting date for this project.
3. All CCTV cameras (make and model) and all CCTV software (program and version) that may be used in this inspection.
4. Sample electronic export from every unique vehicle to be used.
5. Scored PACP version 7 export of review of City supplied CCTV video
6. Certificate of Insurance
7. W9 (rev. 2018)
8. Conflict of Interest Form