

## **CITY OF JOPLIN COUNCIL AGENDA ITEM**

### **ITEM**

CB 2022-121 Approval of an Agreement and a Purchase Order for Work Order No. 2022A with Ace Pipe Cleaning, Inc. for the 2022 Evaluation and Rehabilitation Toolbox for Wastewater Collection System Project

### **MEETING DATE**

May 16, 2022

### **ORIGINATING DEPT**

Public Works / Engineering

### **ATTACHMENTS**

CB 2022-121 Ordinance, Agreement, Bid Summary, Schedule of Pay Items, Exhibit and Schedule of Work for Work Order 2022A

### **REVIEWED BY**

Interim Director of Public Works – Daniel Johnson, Director of Finance – Leslie Haase, City Attorney – Peter C. Edwards, City Manager – Nicholas Edwards

### **SUMMARY**

This Council Bill approves an Agreement and a Purchase Order with Ace Pipe Cleaning, Inc. for the 2022 Evaluation and Rehabilitation Toolbox for Wastewater Collection System Project in the amount of Five Hundred Seventy-five Thousand and 00/100 Dollars (\$575,000.00).

### **BACKGROUND**

Since 2012, City staff have utilized a “toolbox” contract for the evaluation and rehabilitation of the City’s sanitary sewer collection system. Throughout the years, this contract has improved the reliability of the system by cleaning and evaluating the condition of the city’s sewer system, along with rehabilitation of the same. This menu-like contract contains more than 300 bid items, giving City staff the benefit of multiple tools to renew and maintain the collection system—activities which are required by the City’s Operating Permits issued by the Missouri Department of Natural Resources.

The project, which was advertised in accordance with the City of Joplin’s procurement policies, contained specific language indicating that the City of Joplin intends to issue Work Orders using the bidder’s unit prices, “on an as needed basis” over the life of the contract. Furthermore, bidders were informed that the “estimated quantities indicated in the Conceptual Work Order do not represent the first Work Order,” but rather, it was to be “utilized as a comparison of bids,” only. Bidders were also informed that the City will “provide a separate written scope of work for each individual work order.” After bids were opened on April 5, 2022, the low bidder was determined by comparing the summation of each bidder’s unit prices multiplied by estimated quantities in the “Conceptual Work Order” list of typical pay items. The low bid was provided by Ace Pipe Cleaning, Inc., whose bids were below the Engineer’s estimate. The attached Bid Summary indicates that only non-local contractors submitted bids.

Lastly, by approving this Council Bill, Ace Pipe Cleaning will be authorized to perform the scope of work under Work Order 2022A, which includes the rehabilitation of sewer mains, lateral connections, CCTV inspection of sewer mains and laterals (supporting the private-side I&I reduction program), as well as, evaluating the manholes on the 60-inch diameter trunkline pipes immediately upstream of the Turkey Creek Wastewater Treatment Facility. All work under this contract will be funded by the City's Sanitary Sewer Rehab Fund No. 415-4542-540-8675, whose budget accommodates staff's anticipated expenditures ranging from approximately \$500,000 to \$800,000 in this current fiscal year, and the next.

**FUNDING SOURCE**

FY 2021-2022 budget of the Wastewater fund

**RECOMMENDATION**

Staff recommends adoption of this Council Bill on first reading.

**BID SUMMARY**

**PROJECT: 2022 EVALUATION AND REHABILITATION TOOLBOX  
FOR WASTEWATER COLLECTION SYSTEM**

**CONCEPTUAL WORK ORDER**

**DATE OF BID OPENING: April 5, 2022 @ 10:00 am**

<b>CONTRACTOR</b>	<b>BID &amp; ADDITIVE AMOUNT</b>
Ace Pipe Cleaning, Inc. (Kansas City, MO)	\$2,735,213.83
Hydro-Klean, LLC (Des Moines, IA)	\$2,802,256.61
Engineer's Estimate	\$2,835,000



**AGREEMENT  
BETWEEN  
CITY OF JOPLIN AND**

CITY		CONTRACTOR	
CITY OF JOPLIN  602 S. MAIN STREET  JOPLIN, MO 64801		Name: <b>Ace Pipe Cleaning, Inc.</b>	
		Address: <b>6601 Universal Ave. KANSAS CITY, MO 64120</b>	
Attention:		Attention:	
Department:		Phone:	Fax:
Phone:	Fax:		

**THIS AGREEMENT**, made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2022, by the parties identified above.

**WITNESSETH:** That whereas, the Contractor has become the lowest responsible bidder for furnishing the supervision, labor, tools, equipment, materials and supplies and for constructing the following City improvements:

**2022 EVALUATION AND REHABILITATION TOOLBOX FOR WASTEWATER COLLECTION SYSTEM**

The City and Contractor agree to the following:

**1. Manner and Time for Completion.** The Contractor will furnish all supervision, labor, tools, equipment, materials and supplies necessary to perform, and to perform said work at Contractor's own expense in accordance with the contract documents and any applicable City ordinances and state and federal laws within the timeframe set forth by each respective Work Order. Work Orders will not be issued after October 31, 2022, unless both parties agree to renew the contract for one additional calendar year. The unit prices established for the various work and material items herein shall be valid for the duration of any work order issued as part of this contract. At the time of each agreed upon renewal, the Contractor has the option of adjusting the unit prices submitted in the Bid Schedule based on the current Producer Price Index (PPI) as published by the U.S. Bureau of Labor Statistics. The percent change in contract unit prices shall be adjusted based on the index point change between the two periods for the corresponding material or equipment. It shall be the Contractor's responsibility to submit the appropriate supporting PPI data to the Engineer for review and approval.

**2. Prevailing Wages.** All labor utilized in the construction of the aforementioned improvements shall be paid a wage of no less than the "prevailing hourly rate of wages" for work of a similar character in this locality, as established and amended at any time

by the Department of Labor and Industrial Relations of the State of Missouri. At any time the contractor is found to not have paid prevailing wages, the contractor shall forfeit as a penalty to the city one hundred dollars for each underpaid worker employed, for each calendar day, or portion thereof such worker is paid less than the said stipulated rates for any work done under this contract.

**3. Insurance Requirements.** Without limiting any of the other obligations or liabilities of the Contractor, the Contractor shall secure and maintain at its own cost and expense, throughout the duration of this Contract and until the work is completed and accepted by the City of Joplin, insurance of such types and in such amounts as may be necessary to protect it and the interests of the City of Joplin against all hazards or risks of loss as hereunder specified or which may arise out of the performance of the Contract Documents. The form and limits of such insurance, together with the underwriter thereof in each case, are subject to approval by the City of Joplin. Regardless of such approval, it shall be the responsibility of the contractor to maintain adequate insurance coverage at all times during the term of the Contract. Failure of the Contractor to maintain coverage shall not relieve it of any contractual responsibility or obligation or liability in general or under the Contract Documents.

The certificates of insurance, including evidence of the required endorsements hereunder or the policies, shall be filed with the City within ten (10) days after the date of the receipt of Notice of Award of the Contract to the Contractor and prior to the start of work. All insurance policies shall require that the insurance company in question provide thirty (30) days written notice prior to modification or cancellation of such insurance. Such notices shall be mailed, certified mail, return receipt requested, to:

City of Joplin - Public Works, 602 S. Main Street, Joplin, MO 64801

Such policies shall name the City as an additional insured, with limits of liability not less than the sovereign immunity limits for Missouri public entities calculated by the Missouri Department of Insurance as of January 1 each calendar year and published annually in the Missouri Register pursuant to Section 537.610, RSMo. (See, <http://insurance.mo.gov/industry/sovimunity.php>)

As of January 1, 2022, the minimum coverage for the insurance referred to herein shall be as set out below:

**a. Workers' Compensation....**Statutory coverage per RSMo 287.010 et seq

**Employer's Liability.....** \$1,000,000.00

**b. Commercial General Liability Insurance**, including coverage for Premises, Operations, Products and Completed Operations, Contractual Liability, Broad Form Property Damage, Independent Contractors, Explosion, Collapse, and Underground Property Damage and endorsed for blasting if blasting required. Such coverage shall apply to bodily injury and property damage on an "Occurrence Form Basis" with limits of at least Three Million Sixty-Five Thousand Nine Hundred Fifty-Two and no/100 Dollars (\$3,065,952.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Fifty-Nine Thousand Eight Hundred Ninety-Three and no/100 Dollars (\$459,893.00) with respect to injuries and/or death of any one person in a single occurrence and an amount not less than at least \$1,000,000 for all claims to property arising out of a single occurrence and at least \$100,000 to any one owner with respect to damages to property. Contractor agrees that the proceeds of such insurance policy shall first be used to pay any award, damages, costs, and/or attorneys' fees incurred by or assessed against City, its employees, officers and agents, before payment of any award, damages, costs or attorneys' fees of Contractor, its employees, officers or agents. Contractor agrees to cause its insurer to name City as an additional insured on such insurance policy, including the City as an additional insured for coverage under its products-completed operations hazard, and said policy shall be primary and noncontributory.

**c. Automobile Liability Insurance** covering bodily injury and property damage for owned, non-owned and hired vehicles, with limits of at least Three Million Sixty-Five Thousand Nine Hundred Fifty-Two and no/100 Dollars (\$3,065,952.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Fifty-Nine Thousand Eight Hundred Ninety-Three and no/100 Dollars (\$459,893.00) with respect to injuries and/or death of any one person in a single accident or occurrence.

**d. Owner's and Contractor's Protective Liability Insurance** to protect the City, its agents, servants and employees from claims which may arise from the performance of this Contract, with limits of at least Three Million Sixty-Five Thousand Nine Hundred Fifty-Two and no/100 Dollars (\$3,065,952.00) for all claims arising out of a single accident or occurrence and at Four Hundred Fifty-Nine Thousand Eight Hundred Ninety-Three and no/100 Dollars (\$459,893.00) with respect to injuries and/or death of any one person in a single accident or occurrence.

The Owner's and Contractor's Protective Liability Insurance must:

**(1)** Be a separate policy with the named insured being: The City of Joplin, and

- (2) Contain an endorsement that disclaims coverage for any claim barred by the doctrines of sovereign immunity or official immunity, except attorney's fees and other litigation costs incurred in defending a claim. Nothing contained in this policy (or this endorsement thereto) shall constitute any waiver of whatever kind of these defenses or sovereign immunity or official immunity for any monetary amount whatsoever.

e. **Builders Risk Insurance** for contracts involving unoccupied structures. The Contractor shall secure All Risk Builder's Risk Insurance. Unless specifically authorized by the City, the amount of such insurance shall not be less than the total contract price.

f. **Subcontracts.** In case any or all of this work is sublet, the Contractor shall require the subcontractor to procure and maintain all insurance required in subparagraphs (a), (b) and (c) hereof and in like amounts. Contractor shall require any and all subcontractors with whom it enters into a contract to perform work on this project to protect the City of Joplin through insurance against applicable hazards or risks and shall, upon request of the City, provide evidence of such insurance.

g. **Notice.** The Contractor and/or subcontractor shall furnish the City prior to beginning the work, the policy as specified in subparagraph (d), and satisfactory proof of carriage of all the insurance required by this contract, with the provision that policies shall not be canceled, modified or non-renewed without thirty (30) days written notice to the City of Joplin.

h. **Legislative or Judicial Changes.** In the event the scope or extent of the City's tort liability as a governmental entity as described in Section 537.600 through 537.650 RSMo is broadened or increased during the term of this agreement by legislative or judicial action, the City may require Contractor, upon 10 days written notice, to execute a contract addendum whereby the Contractor agrees to provide, at a price not exceeding Contractor's actual increased premium cost, additional liability insurance coverage as the City may require to protect the City from increased tort liability exposure as the result of such legislative or judicial action. Any such additional insurance coverage shall be evidenced by an appropriate certificate of insurance and shall take effect within the time set forth in the addendum.

**4. Performance, Labor, and Materials Payment Bond:** At the full discretion of the Owner, the Contractor shall furnish a Performance Bond and a Labor and Materials Payment Bond with surety approved by the City and on the forms approved by the City, in an amount equal to 100% of each Work Order issued by the Owner conditioned upon the full and faithful performance of all major terms and conditions of this contract and payment of all labor and material suppliers. It is further mutually agreed between the parties hereto that if at any time after the execution of this agreement and the surety bond(s) hereto attached for its faithful performance and payment of labor and material suppliers, the City shall deem the surety or sureties upon such bond(s) to be unsatisfactory, or if, for any reason, such bond(s) ceases to be adequate to cover the performance of the work, the Contractor shall, at its expense, within five (5) days after the receipt of notice from the City to do so, furnish an additional bond or bonds, in such form and amount, and with such surety or sureties as shall be satisfactory to the City. In such event no further payment to the Contractor shall be deemed to be due under this contract until such new or additional security for the faithful performance of the work and the payment of labor and material suppliers shall be furnished in a manner and form satisfactory to the City. The corporate surety on any performance or payment bond must be licensed by the State of Missouri and if the required bond exceeds \$25,000.00 must be listed in United States Treasury Circular 570.

**5. Certification Regarding Disbarment, Eligibility, Indictments, Convictions or Civil Judgements for all Federal Aid Projects:** By signing and submitting the bid, the president or authorized official of the bidder, under penalty of perjury under the laws of the USA, shall certify that, except as noted in the exceptions, the company or any person associated therewith in the capacity of owner, partner, director, officer, principal investor, project director, manager, auditor or any position involving the administration of federal funds:

(Reference can be made to "The System for Award Management" website as a helpful resource).

- a. Is not currently under suspension, debarment, voluntary exclusion or determination of ineligibility by any federal agency.
- b. Has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three years.
- c. Does not have a proposed debarment or suspension pending.
- d. Has not been indicted, convicted or had a civil judgment rendered against any of the listed parties by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.

**5.1** If there are any exceptions, the bidder shall submit the exceptions on company letterhead, signed by the bidder and inserted inside the bid submitted. Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted, the bidder shall indicate to whom it applies, the initiating agency, and dates of action. Providing false information may result in criminal prosecution or administrative sanctions.

**5.2** By signing the contract, the contractor shall further certify that all related subcontracts of \$25,000 shall comply with this requirement. This includes all subcontractors, material suppliers and vendors.

**6. Contractor's responsibility for subcontractors.** The Contractor shall be as fully responsible to the City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as Contractor is for the acts and omissions of persons it directly employs. Contractor shall cause appropriate provisions to be inserted in all subcontracts relating to this work, to bind all subcontractors to Contractor by all the terms herein set forth, and insofar as applicable to the work of subcontractors and to give Contractor the same power regarding termination of any subcontract as the City may exercise over Contractor under any provisions of this contract. Nothing contained in this contract shall create any contractual relation between the subcontractor and the City or between any subcontractors.

**7. General Independent Contractor Clause.** This agreement does not create an employee/employer relationship between the parties. It is the parties' intention that the Contractor will be an independent contractor and not the City's employee for all purposes, including, but not limited to, the application of the Fair Labor Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, Missouri Revenue and Taxation laws, Missouri Workers' Compensation and Unemployment Insurance laws. The Contractor will retain sole and absolute discretion in the judgment of the manner and means of carrying out the Contractor's activities and responsibilities hereunder. The Contractor agrees that it is a separate and independent enterprise from the public employer, that it has a full opportunity to find other business, that it has made its own investment in its business, and that it will utilize a high level of skill necessary to perform the work. This agreement shall not be construed as creating any joint employment relationship between the Contractor and the City, and the City will not be liable for any obligation incurred by the Contractor, including but not limited to unpaid minimum wages and/or overtime premiums.

**8. Liquidated Damages.** Time of completion of work by the Contractor is of the essence. Should Contractor, or in the case of default, the surety, fail to complete the work within the time specified in the contract, or within such extra time as may be allowed in accordance with City of Joplin Standard Specifications, Division 0000, General Requirements and Provisions, Section 0400.19, (<http://mo-joplin.civicplus.com/DocumentCenter/View/3460>) Contractor (or surety) shall be liable to the City in the amount of \$500 per day for each and every calendar day that the contract remains uncompleted after the time allowed for completion, as liquidated damages, and not as a penalty, it being stipulated that actual damages to the City and the public arising from Contractor's failure to timely complete the work would be difficult, if not impossible, to ascertain. The amount assessed as liquidated damages may be withheld from any moneys otherwise due to Contractor from the City.

**9. Termination.** The City reserves the right to terminate this contract by giving at least five (5) days prior written notice to the Contractor, without prejudice to any other rights or remedies of the City should the Contractor be adjudged a bankrupt, or if Contractor should make a general assignment for the benefit of its creditors, or if a receiver should be appointed for Contractor or for any of its property, or if Contractor should persistently or repeatedly refuse or fail to supply enough properly skilled workmen or proper material, or if Contractor should refuse or fail to make prompt payment to any person supplying labor or materials for the work under the contract, or persistently disregard instructions of the City or fail to observe or perform any provisions of the contract.

**10. City's Right to Proceed.** In the event this contract is terminated pursuant to Paragraph 8, then the City may take over the work and prosecute the same to completion, by contract or otherwise, and Contractor and its sureties shall be liable to the City for any costs over the amount of this contract thereby occasioned by the City. In any such case, the City may take possession of, and utilize in completing the work, such materials, appliances and structures as may be on the work site and are necessary for completion of the work. The foregoing provisions are in addition to, and not in limitation of, the rights of the City under any other provisions of the contract, city ordinances, and state and federal laws.

**11. Termination for Convenience of City.** The City shall have the right at any time by written notice to Contractor to terminate and cancel this contract, without cause, for the convenience of the City, and Contractor shall immediately stop work. In such event City shall not be liable to Contractor except for payment for actual work performed prior to such notice in an amount proportionate to the completed contract price and for the actual costs of preparations made by Contractor for the performance of the cancelled portions of the contract, including a reasonable allowance of profit applicable to the actual work performed and such preparations. Anticipatory profits and consequential damages shall not be recoverable by Contractor.

**12. Guards and Lights.** The Contractor agrees that during the performance of said work, adequate barricades, guards and warning signs, lights or devices consistent with the requirements contained in the Manual on Uniform Traffic Control Devices shall be provided by Contractor during construction.

**13. Liability and Indemnity.**

a. In no event shall the City be liable to the Contractor for special, indirect, or consequential damages, except those caused by the City's gross negligence or willful or wanton misconduct arising out of or in any way connected with a breach of this contract. The maximum liability of the City shall be limited to the amount of money to be paid or received by the City under this contract.

b. The Contractor shall defend, indemnify and save harmless the City, its elected or appointed officials, agents and employees from and against any and all liability, suits, damages, costs (including attorney fees), losses, outlays and expenses from claims in any manner caused by, or allegedly caused by, or arising out of, or connected with, this contract, or the work or any subcontract thereunder (the Contractor hereby assuming full responsibility for relations with subcontractors), including, but not limited to, claims for personal injuries, death, property damage, or for damages from the award of this contract to Contractor, notwithstanding any possible negligence, whether sole or concurrent, on the part of the City, its officials, agents and employees.

c. The Contractor shall indemnify and hold the City harmless from all wages or overtime compensation due any employees in rendering services pursuant to this agreement or any subcontract, including payment of reasonable attorneys' fees and costs in the defense of any claim made under the Fair Labor Standards Act, the Missouri Prevailing Wage Law or any other federal or state law.

d. The indemnification obligations of Contractor hereunder shall not be limited by any limitations as to the amount or type of damages, compensation or benefits payable by or for the Contractor, under any federal or state law, to any person asserting the claim against City, its elected or appointed officials, agents and employees, for which indemnification is sought.

e. The indemnification obligations herein shall not negate, abridge or reduce in any way any additional indemnification rights of the City, its elected or appointed officials, agents and employees, which are otherwise available under statute, or in law or equity.

f. Contractor affirms that it has had the opportunity to recover the costs of the liability insurance required in this agreement in its contract price. Contractor's obligation under this agreement to defend, indemnify, and hold harmless any person from that person's own negligence or wrongdoing is limited to the coverage and limits of the applicable insurance required of the Contractor under this agreement.

g. The Contractor shall indemnify and hold the City harmless for any penalties, fines, fees or costs, including costs of defense, which are charged or assessed by any Federal, state or local agency including, but not limited to, Environmental Protection Agency or Department of Natural Resources.

**14. Payment for Labor and Materials.** The Contractor agrees and binds itself to pay for all labor done, and for all the materials used in the construction of the work to be completed pursuant to this contract.

**15. Payment.** The City will pay the Contractor in accordance with the rate set forth in the contract documents on file in the Public Works Department and by this reference made a part hereof, which shall constitute full and complete compensation for the Contractor's work provided hereunder. Such compensation will be paid in progress payments (less five (5) percent retainage), as established by the City, subject to receipt of a requisition for payment and a statement of work provided by the Contractor and agreement by both the City and the Contractor that the Contractor has fully performed the work to be paid for in such progress payments in conformance with the contract. If the City or the architect or engineer determines that a higher rate of retainage is required to ensure performance of the contract, the City may withhold up to ten (10) percent retainage until the work is fully completed and accepted by the City.

**16. Contract Documents.** The contract documents shall consist of the following:

- a. This Contract
- b. All Change Orders
- c. Bid Specifications



- d. City of Joplin Standard Specifications (Latest Revised Edition)
- e. Invitation to Bid
- f. Instructions to Bidder
- g. Bid
- h. Contractor Statement of Qualifications
- i. Bid Bond
- j. Affidavit of Compliance with Section 292.675 RSMO., Et Seq. (OSHA Safety Training Program)
- k. Affidavit of Compliance with Section 285.500 RSMO., Et Seq. (Working Authorization Program)
- l. Anti-Collusion Affidavit
- m. Notice of Award
- n. Notice to Proceed
- o. Performance Bond
- p. Payment Bond
- q. General Conditions to Contract
- r. Supplemental General Conditions
- s. All Addenda

**Notice to Contractors:** This contract, together with the other documents enumerated in this paragraph, forms the contract between the parties. These documents are as fully a part of the contract as if attached hereto or repeated herein. The Contractor agrees to perform all of the work described in the contract documents and to comply with the terms and conditions defined therein at the unit prices submitted on the Bid Schedule for the total amount equal to each respective Work Order issued by the Owner, said amount being subject to any approved addenda or change order. **This contract's first Work Order, 2022A, is in the amount of Five Hundred Seventy-five Thousand and 00/100 Dollars (\$575,000.00), pursuant to the outline of costs in said Work Order.**

**17. Subsurface Conditions.** Contractor agrees that information contained in the published reports and public actions of the Missouri Division of Geology and Land Survey shall be conclusive and binding upon the Contractor as to what subsurface conditions at the job site are reasonably anticipated or reasonably foreseeable. Contractor acknowledges and agrees that it shall not be entitled to any adjustment in the Contract Sum or Contract Times for any concealed condition of any nature, including but not limited to unknown physical conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, in addition to the information contained in the published reports and public actions of the Missouri Division of Geology and Land Survey. Contractor recognizes that it has assumed the risks of concealed conditions and is being compensated for assuming these risks.

**18. Conflict of Interest.** In accepting this contract, Contractor certifies that no member or officer of its firm or corporation is an officer or employee of the City of Joplin, Missouri, or any of its boards or agencies, and further that no officer or employee of the City has any financial interest, direct or indirect, in this contract. All applicable federal regulations and provisions of R.S.Mo. Section 105.450 et seq. shall not be violated.

**19. Assignment.** The Contractor shall not assign any interest in this contract, and shall not transfer any interest in the same (whether by assignment or novation), without prior written consent of the City thereto, provided, however, that claims for money due or to become due to the Contractor from the City under this Contract may be assigned to a bank, trust company, or other financial institution without such approval. Notice of such assignment or transfer shall be furnished in writing promptly to the City and the bond surety. Any such assignment is expressly subject to all rights and remedies of the City under this agreement, including the right to change or delete activities from the Contract or to terminate the same as provided herein, and no such assignment shall require the City to give any notice to any such assignee of any actions which the City may take under this agreement.

**20. Nondiscrimination.** The Contractor agrees in the performance of this contract not to discriminate on the ground or because of race, creed, color, national origin or ancestry, sex, religion, handicap, age, status as a protected veteran or status as a qualified individual with a disability, or political opinion or affiliation, against any employee of Contractor or applicant for employment and shall include a similar provision in all subcontracts let or awarded hereunder. The parties hereby incorporate the requirements of 41 C.F.R. §§ 60-1.4(a)(7), 29 C.F.R. Part 471, Appendix A to Subpart A, 41 C.F.R. § 60-300.5(a)ii and 41 C.F.R. § 60-741.5(a), if applicable.

a. This contractor and subcontractor shall abide by the requirements of 41 C.F.R. § 60-300.5(a). This regulation prohibits discriminations against qualified protected veterans, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified protected veterans.

b. This contractor and subcontractor shall abide by the requirements of 41 C.F.R. § 60-741.5(a). This regulation prohibits discrimination against qualified individuals on the basis of disability, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified individuals with disabilities.

**21. Nonresident/Foreign Contractors.** The Contractor shall procure and maintain during the life of this contract:

a. If the Contractor is a foreign corporation, a certificate of authority to transact business in the State of Missouri from the Secretary of State, unless exempt pursuant to the provisions of Section 351.570 R.S.Mo.

b. A certificate from the Missouri Director of Revenue evidencing compliance with the transient employer financial assurance law, unless exempt pursuant to the provisions of Section 285.230 RSMo.

**22. Notices.** All notices required or permitted hereinunder and required to be in writing may be given by FAX or by first class mail addressed to City and Contractor at the addresses shown above. The date of delivery of any notice given by mail shall be the date falling on the second full day after the day of its mailing. The date of delivery of notice by FAX transmission shall be deemed to be the date transmission occurs, except where the transmission is not completed by 5:00 p.m. on a regular business day at the terminal of the receiving party, in which case the date of delivery shall be deemed to fall on the next regular business day for the receiving party.

**23. Records and Audits.** The Contractor shall maintain accounts and records, including personnel, property, and financial records, adequate to identify and account for all costs pertaining to the Contract and such other records as may be deemed necessary by the City to assure proper accounting for all project funds. These records will be made available for audit purposes to the City or any authorized representative, and will be retained for three years after the expiration of this Contract.

**24. Authorized Employees.** Contractor acknowledges that Section 285.530, RSMo, prohibits any business entity or employer from knowingly employing, hiring for employment, or continuing to employ an unauthorized alien to perform work within the State of Missouri. Contractor therefore covenants that is not knowingly in violation of subsection 1 or Section 285.530, RSMo, and that it will not knowingly employ, hire for employment, or continue to employ any unauthorized aliens to perform work on the Project, and that its employees are lawfully to work in the United States.

**25. Interest of Contractor and Employees.** The Contractor covenants that he/she presently has no interest and shall not acquire interest, direct or indirect, in the study area or any parcels therein or any other interest which would conflict in any manner or degree with the performance of his services hereunder. The Contractor further covenants that in the performance of this Contract, no person having any such interest shall be employed.

**26. Interest of Members of a City.** No member of the governing body of the City and no other officer, employee, or agent of the City who exercises any functions or responsibilities in connection with the planning and carrying out of the program, shall have any personal financial interest, direct or indirect, in this Contract, and the Contractor shall take appropriate steps to assure compliance.

**27. Interest of Other Local Public Officials.** No member of the governing body of the locality and no other public official of such locality, who exercises any functions or responsibilities in connection with the planning and carrying out of the program, shall have any personal financial interest, direct or indirect, in this Contract, and the Contractor shall take appropriate steps to assure compliance.

**28. Affidavit for Contracts Over \$5,000.00.** That pursuant to Missouri Revised Statute Sections 285.525 through 285.550, if this contract exceeds the amount of \$5,000.00 and Contractor is associated with a business entity, Contractor shall provide an acceptable notarized affidavit stating that the associated business entity is enrolled in and participates in a federal work authorization program with respect to the employees working in connection with the contracted services, and that said business entity does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. Additionally, Contractor must provide documentation for said business entity evidencing current enrollment in a federal work authorization program.

**29. City Benefits.** The Contractor shall not be entitled to any of the benefits established for the employees of the City nor be covered by the Worker's Compensation Program of the City.

**30. Occupational License:** The Contractor shall obtain and maintain an occupational license with the City of Joplin, Missouri, if required by city code and any required state or federal license. The cost for this occupational license shall be borne by the Contractor. No contract will be executed by the City until this occupational license has been obtained and that the Contractor is current on any City taxes is verified.

**31. Safety Training.** Pursuant to Missouri Revised Statute Section 292.675, Contractors and subcontractors who sign a contract to work on public works projects must provide a 10-hour OSHA construction safety program, or similar program approved by the Department of Labor and Industrial Relations, to be completed by their on-site employees within sixty (60) days of beginning work on the construction project. Contractors and subcontractors in violation of this provision will forfeit to the public body \$2,500 plus \$100 a day for each employee who is employed without training. Public bodies and contractors may withhold/assess these penalties from the payment due to those contractors and subcontractors if found to be in non-compliance.

**32. Compliance with Laws.** Contractor agrees to comply with all applicable federal, state and local laws or rules and regulations applicable to the provision of services and products hereunder. Contractor affirmatively states that payment of all local, state, and federal taxes and assessments owed by Contractor is current.

**33. Entire Agreement.** This agreement contains the entire agreement of the parties. No modification, amendment, or waiver of any of the provisions of this agreement shall be effective unless in writing specifically referring hereto, and signed by both parties.

**34. Remedies.** Except as may be otherwise found in the contract documents, all claims, disputes, counter-claims, and other matters in question between the Owner and Contractor arising out of or related to this agreement or the breach thereof, will be decided by arbitration if the parties hereto mutually agree, or in a court of competent jurisdiction within the state in which the Owner is located.

**35. Jurisdiction.** This agreement and every question arising hereunder shall be construed or determined according to the laws of the State of Missouri. Should any part of this agreement be adjudicated, venue shall be proper only in the Circuit Court of Jasper County, Missouri.

**IN WITNESS WHEREOF**, the parties hereto have set their hands and seals on the day and year herein stated.

**CERTIFICATE OF DIRECTOR OF FINANCE**

I certify that the expenditure contemplated by this document is within the purpose of the appropriation to which it is to be charged and that there is an unencumbered balance of appropriated and available funds to pay therefor.

\_\_\_\_\_  
Leslie Haase, Director of Finance

**APPROVED AS TO FORM**

\_\_\_\_\_  
Peter Edwards, City Attorney

**CONTRACTOR:**

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

**CITY OF JOPLIN, MISSOURI**

By: \_\_\_\_\_  
Daniel Johnson, Interim Public Works Director





**2022 EVALUATION AND REHABILITATION TOOLBOX  
 FOR WASTEWATER COLLECTION SYSTEM  
 CITY OF JOPLIN, MISSOURI**

ENGINEER'S ESTIMATE = \$2,835,000

**Ace Pipe  
 Cleaning, Inc.  
 Kansas City, MO**

**Hydro-Klean,  
 LLC  
 Des Moines, IA**

SEWER LINE CLEANING AND CCTV INSPECTION				
Item No.	Item Description	Unit	Unit Price	Unit Price
1.00	Mobilization for Sewer Line Cleaning and Inspection (Each Work Order)	LS	\$ 1,500.00	\$ 1,400.00
<b>Light Cleaning (Up to 3 Cleaning Passes)</b>				
1.01	6" to 10" Diameter Light Cleaning	LF	\$ 1.12	\$ 0.89
1.02	12" to 16" Diameter Light Cleaning	LF	\$ 1.12	\$ 0.89
1.03	18" to 21" Diameter Light Cleaning	LF	\$ 1.40	\$ 1.10
1.04	24" to 27" Diameter Light Cleaning	LF	\$ 2.24	\$ 2.00
1.05	30" to 32" Diameter Light Cleaning	LF	\$ 3.36	\$ 2.00
1.06	36" to 38" Diameter Light Cleaning	LF	\$ 3.92	\$ 2.50
1.07	42" to 48" Diameter Light Cleaning	LF	\$ 5.04	\$ 4.00
1.08	54" to 60" Diameter Light Cleaning	LF	\$ 5.32	\$ 4.50
<b>Heavy Cleaning (4 to 10 Cleaning Passes)</b>				
1.09	6" to 10" Diameter Heavy Cleaning	LF	\$ 1.23	\$ 1.10
1.10	12" to 16" Diameter Heavy Cleaning	LF	\$ 2.02	\$ 1.10
1.11	18" to 21" Diameter Heavy Cleaning	LF	\$ 5.60	\$ 5.00
1.12	24" to 27" Diameter Heavy Cleaning	LF	\$ 13.44	\$ 5.00
1.13	30" to 32" Diameter Heavy Cleaning	LF	\$ 14.56	\$ 12.00
1.14	36" to 38" Diameter Heavy Cleaning	LF	\$ 15.68	\$ 12.00
1.15	42" to 48" Diameter Heavy Cleaning	LF	\$ 17.92	\$ 15.00
1.16	54" to 60" Diameter Heavy Cleaning	LF	\$ 20.16	\$ 19.00
<b>CCTV Inspection (PACP Compliant)</b>				
1.17	6" to 10" Diameter CCTV Inspection	LF	\$ 1.40	\$ 1.00
1.18	12" to 16" Diameter CCTV Inspection	LF	\$ 1.40	\$ 1.00
1.19	18" to 21" Diameter CCTV Inspection	LF	\$ 1.40	\$ 1.00
1.20	24" to 27" Diameter CCTV Inspection	LF	\$ 1.40	\$ 1.00
1.21	30" to 32" Diameter CCTV Inspection	LF	\$ 2.24	\$ 1.00
1.22	36" to 38" Diameter CCTV Inspection	LF	\$ 2.24	\$ 1.00
1.23	42" to 48" Diameter CCTV Inspection	LF	\$ 2.24	\$ 1.00
1.24	54" to 60" Diameter CCTV Inspection	LF	\$ 2.24	\$ 1.00

LATERAL SEWER LINE CLEANING AND CCTV INSPECTION				
Item No.	Item Description	Unit		
2.00	Mobilization for Lateral Sewer Line Cleaning and Inspection (Each Work Order)	LS	\$ 1,000.00	\$ 1,400.00
2.01	Lateral Inspection Setup Per Manhole to Manhole Segment	EA	\$ 225.00	\$ 125.00
2.02	4" to 6" Diameter Lateral Sewer Line Light Cleaning	LF	\$ 3.35	\$ 65.00
2.03	4" to 6" Diameter Lateral Sewer Line Heavy Cleaning	LF	\$ 95.00	\$ 75.00
2.04	4" to 6" Diameter Lateral Sewer Line CCTV Inspection	LF	\$ 3.35	\$ 75.00
2.05	Locate for Cleanout, via Lateral Launch Mainline Camera	EA	\$ 225.00	\$ 200.00
LARGE DIAMETER SEWER LINE INSPECTION AND SONAR AND LASER PROFILING				
Item No.	Item Description	Unit		
3.00	Mobilization for Large Diameter Sewer Line Inspection (Each Work Order)	LS	\$ 1,500.00	\$ 1,400.00
3.01	≥18" Diameter Large Dia. Sewer Line Inspection	LF	\$ 5.88	\$ 12.00
MANHOLE CLEANING AND INSPECTION				
Item No.	Item Description	Unit		
4.00	Mobilization for Manhole Cleaning and Inspection (Each Work Order)	LS	\$ 1,500.00	\$ 700.00
4.01	Manhole Cleaning	EA	\$ 40.00	\$ 250.00
4.02	Manhole Inspection	EA	\$ 150.00	\$ 125.00
FOAMING ROOT CONTROL				
Item No.	Item Description	Unit		
5.00	Mobilization for Foaming Root Control (Each Work Order)	LS	\$ 1,750.00	\$ 3,500.00
5.01	8" to 12" Diameter Foaming Root Control	LF	\$ 1.45	\$ 5.00
5.02	14" to 18" Diameter Foaming Root Control	LF	\$ 1.60	\$ 5.00
SMOKE TESTING				
Item No.	Item Description	Unit		
6.00	Mobilization for Smoke Testing (Each Work Order)	LS	\$ 2,040.00	\$ 1,400.00
6.01	8" to 30" Diameter Smoke Testing	LF	\$ 0.46	\$ 0.50
TRANSMISSIVE ACOUSTIC SEWER INSPECTION				
Item No.	Item Description	Unit		
7.00	Mobilization for Transmissive Acoustic Inspection (Each Work Order)	LS	\$ 2,000.00	\$ 3,000.00
7.01	8" to 48" Diameter Transmissive Acoustic Inspection	LF	\$ 0.35	\$ 10.00

## SEWER LINE CLEANING, CCTV INSPECTION, &amp; MISCELLANEOUS SERVICES

**Regular Rates (A minimum 4-hour charge shall be applied to all hourly services to account for mobilization)**

Item No.	Item Description	Unit		
8.00	Operator and TV Truck	HR	\$ 190.00	\$ 200.00
8.01	Operator and Jetter Unit	HR	\$ 175.00	\$ 200.00
8.02	Operator and Jetter/Combo Unit	HR	\$ 190.00	\$ 200.00
8.03	Operator and Jumbo Jetter/Combo Unit	HR	\$ 205.00	\$ 200.00
8.04	Operator and Wet Vacuum	HR	\$ 175.00	\$ 200.00
8.05	Operator and Dry Vacuum	HR	\$ 185.00	\$ 200.00
8.06	Operator and Waterblaster	HR	\$ 185.00	\$ 200.00
8.07	Operator and Bucket Machines	HR	\$ 280.00	\$ 200.00
8.08	2-Operators, TV Truck, and Jetter Unit	HR	\$ 280.00	\$ 350.00
8.09	2-Operators, TV Truck, and Jetter/Combo Unit	HR	\$ 320.00	\$ 350.00
8.10	Additional Laborer	HR	\$ 90.00	\$ 80.00
8.11	Support Truck (Safety, Fuel, and/or Pipe Supplies)	HR	\$ 70.00	\$ 25.00
<b>Overtime Rates</b>				
8.12	Operator and TV Truck	HR	\$ 195.00	\$ 250.00
8.13	Operator and Jetter Unit	HR	\$ 180.00	\$ 250.00
8.14	Operator and Jetter/Combo Unit	HR	\$ 200.00	\$ 250.00
8.15	Operator and Jumbo Jetter/Combo Unit	HR	\$ 225.00	\$ 250.00
8.16	Operator and Wet Vacuum	HR	\$ 175.00	\$ 250.00
8.17	Operator and Dry Vacuum	HR	\$ 195.00	\$ 250.00
8.18	Operator and Waterblaster	HR	\$ 195.00	\$ 300.00
8.19	Operator and Bucket Machines	HR	\$ 300.00	\$ 350.00
8.20	2-Operators, TV Truck, and Jetter Unit	HR	\$ 310.00	\$ 370.00
8.21	2-Operators, TV Truck, and Jetter/Combo Unit	HR	\$ 360.00	\$ 370.00
8.22	Additional Laborer	HR	\$ 100.00	\$ 100.00
8.23	Support Truck (Safety, Fuel, and/or Pipe Supplies)	HR	\$ 70.00	\$ 25.00
<b>Accessories</b>				
8.24	Powdered Lime	LBS	\$ 3.00	\$ 275.00
8.25	6-Inch Plastic Vacuum Hose	100' Roll	\$ 175.00	\$ 170.00
8.26	6-Inch Metal Flex Hose	LF	\$ 15.00	\$ 22.50
8.27	Confined Space Equipment - Tripod, Gas Detector, Etc.	DAY	\$ 150.00	\$ 125.00
8.28	Hurricane Nozzle	HR	\$ 35.00	\$ 25.00



LINING OF EXISTING SEWERS - CIPP				
Item No.	Item Description	Unit		
9.00	Mobilization For MH to MH CIPP (Each Work Order)	LS	\$ 9,000.00	\$ 9,000.00
9.01	8" Diameter (6 mm Liner Thickness) CIPP	LF	\$ 29.50	\$ 31.35
9.02	8" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$ 30.25	\$ 33.00
9.03	10" Diameter (6 mm Liner Thickness) CIPP	LF	\$ 34.75	\$ 35.20
9.04	10" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$ 33.75	\$ 37.68
9.05	12" Diameter (6 mm Liner Thickness) CIPP	LF	\$ 43.00	\$ 44.55
9.06	12" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$ 46.00	\$ 47.85
9.07	12" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$ 48.00	\$ 55.00
9.08	12" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$ 55.00	\$ 60.23
9.09	12" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$ 60.00	\$ 64.35
9.10	15" Diameter (7.5 mm Liner Thickness) CIPP	LF	\$ 83.00	\$ 73.15
9.11	15" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$ 87.00	\$ 83.60
9.12	15" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$ 90.00	\$ 88.00
9.13	15" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$ 92.00	\$ 90.48
9.14	18" Diameter (9.0 mm Liner Thickness) CIPP	LF	\$ 97.00	\$ 93.23
9.15	18" Diameter (10.5 mm Liner Thickness) CIPP	LF	\$ 100.00	\$ 98.45
9.16	18" Diameter (12.0 mm Liner Thickness) CIPP	LF	\$ 115.00	\$ 103.95
9.17	18" Diameter (13.5 mm Liner Thickness) CIPP	LF	\$ 135.00	\$ 127.05
CIPP POINT REPAIRS (5-FOOT LONG)				
Item No.	Item Description	Unit		
10.00	Mobilization for CIPP Point Repair (Each Work Order)	LS	\$ 2,000.00	\$ 2,500.00
10.01	8" Diameter CIPP Point Repair	EA	\$ 1,600.00	\$ 1,975.00
10.02	10" Diameter CIPP Point Repair	EA	\$ 1,700.00	\$ 2,000.00
10.03	12" Diameter CIPP Point Repair	EA	\$ 1,800.00	\$ 2,100.00
10.04	15" Diameter CIPP Point Repair	EA	\$ 2,000.00	\$ 3,200.00
10.05	18" Diameter CIPP Point Repair	EA	\$ 4,500.00	\$ 5,000.00
LINING OF EXISTING SEWERS - THERMOFORM (FOLD AND FORM) PIPE				
Item No.	Item Description	Unit		
11.00	Mobilization for Thermoform CIPP (Each Work Order)	LS	\$ 9,000.00	\$ 6,000.00
11.01	8" Diameter Thermoform CIPP	LF	\$ 42.00	\$ 40.00
11.02	10" Diameter Thermoform CIPP	LF	\$ 60.00	\$ 55.00
11.03	12" Diameter Thermoform CIPP	LF	\$ 90.00	\$ 80.00
11.04	15" Diameter Thermoform CIPP	LF	\$ 150.00	\$ 130.00
11.05	18" Diameter Thermoform CIPP	LF	\$ 198.00	\$ 175.00

LINING OF EXISTING SEWERS - GLASS REINFORCED PLASTIC (GRP) CIPP (CURED WITH UV-LIGHT)				
Item No.	Item Description	Unit		
12.00	Mobilization for GRP CIPP (Each Work Order)	LS	\$ 9,000.00	\$ 6,000.00
12.01	8" Diameter GRP CIPP	LF	\$ 48.00	\$ 50.00
12.02	10" Diameter GRP CIPP	LF	\$ 63.00	\$ 55.00
12.03	12" Diameter GRP CIPP	LF	\$ 84.00	\$ 65.00
12.04	15" Diameter GRP CIPP	LF	\$ 118.00	\$ 90.00
12.05	18" Diameter GRP CIPP	LF	\$ 153.00	\$ 100.00
LINING OF EXISTING SEWERS - CENTRIFUGALLY CAST CONCRETE PIPE (CCCP)				
Item No.	Item Description	Unit		
13.00	Mobilization for CCCP (Each Work Order)	LS	\$ 3,500.00	\$ 5,000.00
13.01	36" Diameter CCCP	LF	\$ 396.00	\$ 400.00
13.02	38" Diameter CCCP	LF	\$ 418.00	\$ 400.00
13.03	42" Diameter CCCP	LF	\$ 462.00	\$ 450.00
13.04	48" Diameter CCCP	LF	\$ 528.00	\$ 475.00
13.05	54" Diameter CCCP	LF	\$ 594.00	\$ 525.00
13.06	60" Diameter CCCP	LF	\$ 660.00	\$ 600.00
TRENCHLESS LATERAL CONNECTION REPAIR (LCR)				
Item No.	Item Description	Unit		
14.00	Mobilization for Trenchless LCR (Each Work Order)	LS	\$ 2,500.00	\$ 4,000.00
14.01	Trenchless LCR Setup Per Manhole to Manhole Segment	EA	\$ 500.00	\$ 650.00
14.02	Ambient Steam Cured LCR - 8" to 12" Diameter Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$ 1,400.00	\$ 1,550.00
14.03	Ambient Steam Cured LCR - 15" to 21" Diameter Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$ 3,500.00	\$ 5,250.00
14.04	Additional Steam Cured Lateral Liner – 8" to 21" Diameter Main, 4" to 6" Diameter Lateral, > 18" Long	LF	\$ 175.00	\$ 225.00
14.05	UV Light Cured LCR - 8" to 12" Dia. Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$ 1,400.00	\$ 1,800.00
14.06	UV Light Cured LCR - 15" to 21" Dia. Main, 4" to 6" Diameter Lateral, Up to 18" Long	EA	\$ 4,000.00	\$ 5,000.00
14.07	Additional UV Light Cured Lateral Liner – 8" to 21" Diameter Main, 4" to 6" Diameter Lateral, > 18" Long	LF	\$ 175.00	\$ 225.00
14.08	Lateral Liner Terminating in Manhole, 4" to 6" Diameter	EA	\$ 1,850.00	\$ 2,250.00
14.09	In-Lateral Transition from 6" to 4" Diameter or 8" to 6" Diameter	EA	\$ 1,000.00	\$ 1,500.00
14.10	Mainline Manhole Drops, 8" to 12" Diameter	EA	\$ 4,500.00	\$ 5,000.00

PRESSURE TESTING AND GROUTING OF SEWER LINE JOINTS				
Item No.	Item Description	Unit		
15.00	Mobilization for Sewer Joint Testing and Grouting (Each Work Order)	LS	\$ 1,500.00	\$ 1,400.00
15.01	Testing of 8" Diameter Pipe Joints	EA	\$ 50.00	\$ 60.00
15.02	Testing of 10" Diameter Pipe Joints	EA	\$ 50.00	\$ 60.00
15.03	Testing of 12" Diameter Pipe Joints	EA	\$ 50.00	\$ 60.00
15.04	Grouting of 8" Diameter Pipe Joints	EA	\$ 30.00	\$ 30.00
15.05	Grouting of 10" Diameter Pipe Joints	EA	\$ 30.00	\$ 30.00
15.06	Grouting of 12" Diameter Pipe Joints	EA	\$ 30.00	\$ 30.00
15.07	Testing Lateral Connections on an 8" Diameter Sewer Main	EA	\$ 425.00	\$ 500.00
15.08	Testing Lateral Connections on a 10" Diameter Sewer Main	EA	\$ 425.00	\$ 500.00
15.09	Testing Lateral Connections on a 12" Diameter Sewer Main	EA	\$ 425.00	\$ 500.00
15.10	Grouting Lateral Connections on an 8" Diameter Sewer Main	EA	\$ 100.00	\$ 100.00
15.11	Grouting Lateral Connections on a 10" Diameter Sewer Main	EA	\$ 100.00	\$ 100.00
15.12	Grouting Lateral Connections on a 12" Diameter Sewer Main	EA	\$ 100.00	\$ 100.00
15.13	Testing of Small Diameter Sewer Lines Connected to Manholes	EA	\$ 425.00	\$ 500.00
15.14	Grouting of Small Diameter Sewer Lines Connected to Manholes	EA	\$ 100.00	\$ 100.00
15.15	Injectable Urethane Grout	GAL	\$ 15.00	\$ 25.00
15.16	Injectable Acrylamide Grout	GAL	\$ 15.00	\$ 25.00

MANHOLE FRAME AND COVER REPLACEMENT				
Item No.	Item Description	Unit		
16.00	Mobilization for MH Frame and Cover Replacement (Each Work Order)	LS	\$ 1,250.00	\$ 29.40
16.01	Frame and Cover Under Arterial Street (Material)	EA	\$ 435.00	\$ 920.00
16.02	Frame and Cover Not Under Arterial Street (Material)	EA	\$ 435.00	\$ 680.00
16.03	Under Turf (Installation)	EA	\$ 925.00	\$ 500.00
16.04	Under Alleyway (Installation)	EA	\$ 1,125.00	\$ 925.00
16.05	Under Pavement (Installation)	EA	\$ 2,800.00	\$ 1,700.00

CEMENTITIOUS & EPOXY MANHOLE RENOVATION AND PIPE END SEALS				
Item No.	Item Description	Unit		
17.00	Mobilization for Cementitious & Epoxy MH Renovation (Each Work Order)	LS	\$ 3,500.00	\$ 2,940.00
17.01	Cementitious (Type 1 Portland Cement) Lining	SF	\$ 14.25	\$ 12.50
17.02	Cementitious H <sub>2</sub> S Resistant (Fused Aluminate Clinker) Lining	SF	\$ 16.00	\$ 14.10
17.03	Cementitious Lining with Antimicrobial Additive	SF	\$ 18.00	\$ 17.03
17.04	Epoxy Lining	SF	\$ 20.50	\$ 25.00
17.05	Cementitious & Epoxy Lining	SF	\$ 35.75	\$ 15.70
17.06	Polyurea Lining	SF	\$ 10.25	\$ 11.20
17.07	Polyurea Lining with Foam Backing	SF	\$ 20.25	\$ 22.10

CIPP End Seals					
17.08	Mobilization for CIPP End Seals (Each Work Order)	LS	\$ 3,000.00	\$ 2,000.00	
17.09	8" Diameter CIPP End Seal	EA	\$ 700.00	\$ 600.00	
17.10	10" Diameter CIPP End Seal	EA	\$ 800.00	\$ 650.00	
17.11	12" Diameter CIPP End Seal	EA	\$ 900.00	\$ 700.00	
17.12	15" Diameter CIPP End Seal	EA	\$ 1,000.00	\$ 750.00	
17.13	18" Diameter CIPP End Seal	EA	\$ 1,100.00	\$ 900.00	

FLEXIBLE MANHOLE CHIMNEY SEALANT					
Item No.	Item Description	Unit			
18.00	Mobilization for Flexible MH Chimney Sealant (Each Work Order)	LS	\$ 2,500.00	\$ 2,940.00	
18.01	Chimney Sealant	SF	\$ 215.00	\$ 100.00	

MANHOLE RENOVATION USING CIPM					
Item No.	Item Description	Unit			
19.00	Mobilization for CIPM Renovation (Each Work Order)	LS	\$ 3,500.00	\$ 2,940.00	
19.01	4' Diameter CIPM (Up to 6' Deep)	EA	\$ 5,460.00	\$ 4,800.00	
19.02	4' Diameter CIPM Extra Depth	VF	\$ 910.00	\$ 550.00	
19.03	5' Diameter CIPM (Up to 6' Deep)	EA	\$ 8,400.00	\$ 6,000.00	
19.04	5' Diameter CIPM Extra Depth	VF	\$ 1,400.00	\$ 687.50	
19.05	6' Diameter CIPM (Up to 6' Deep)	EA	\$ 10,500.00	\$ 7,200.00	
19.06	6" Diameter CIPM Extra Depth	VF	\$ 1,750.00	\$ 825.00	

MANHOLE GROUTING					
Item No.	Item Description	Unit			
20.00	Mobilization for MH Grouting (Each Work Order)	LS	\$ 1,500.00	\$ 2,940.00	
20.01	Setup Per Manhole	EA	\$ 100.00	\$ 65.00	
20.02	Manhole Grouting Labor, Including Operators and Equipment	HR	\$ 280.00	\$ 250.00	
20.03	Injectable Grout	GAL	\$ 15.00	\$ 20.00	

OPEN CUT SEWER LINE WORK 8" THROUGH 12" DIAMETER					
Item No.	Item Description	Unit			
21.00	Mobilization for Open Cut Sewer Line Work 8" to 12" Diameter (Each Work Order)	LS	\$ 1,250.00	\$ 1,750.00	
<b>Point Repair for 8" and 10" Diameter Existing Sewer Line</b>					
21.01	8" and 10" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$ 2,250.00	\$ 2,000.00	
21.02	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$ 118.00	\$ 110.00	
21.03	8" and 10" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$ 2,550.00	\$ 2,250.00	
21.04	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$ 118.00	\$ 125.00	
21.05	8" and 10" Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$ 3,350.00	\$ 3,500.00	
21.06	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$ 195.00	\$ 225.00	
21.07	8" and 10" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,800.00	\$ 2,500.00	

21.08	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$ 138.00	\$ 250.00
21.09	8" and 10" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$ 3,500.00	\$ 2,500.00
21.10	8" and 10" Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$ 165.00	\$ 145.00
21.11	8" and 10" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$ 4,200.00	\$ 3,250.00
21.12	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$ 235.00	\$ 175.00
21.13	8" and 10" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$ 4,100.00	\$ 4,250.00
21.14	8" and 10" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$ 245.00	\$ 250.00
21.15	8" and 10" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$ 4,600.00	\$ 4,000.00
21.16	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$ 260.00	\$ 250.00
21.17	8" and 10" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$ 6,200.00	\$ 4,500.00
21.18	8" and 10" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$ 385.00	\$ 260.00
<b>Installation of New 8" and 10" Diameter Sewer Line</b>				
21.19	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$ 76.50	\$ 85.00
21.20	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$ 102.00	\$ 110.00
21.21	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$ 155.00	\$ 165.00
21.22	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$ 110.00	\$ 95.00
21.23	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$ 117.00	\$ 125.00
21.24	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$ 165.00	\$ 175.00
21.25	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$ 205.00	\$ 205.00
21.26	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$ 235.00	\$ 235.00
21.27	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$ 300.00	\$ 285.00
21.28	Open Trench Stream Crossing for an 8" or 10" Dia. Sewer Line (Min. 20')	LF	\$ 260.00	\$ 275.00
<b>Point Repair for 12" Diameter Existing Sewer Line</b>				
21.29	12" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$ 2,150.00	\$ 2,000.00
21.30	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$ 117.00	\$ 105.00
21.31	12" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$ 2,500.00	\$ 2,500.00
21.32	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$ 123.00	\$ 130.00
21.33	12" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$ 3,600.00	\$ 4,000.00
21.34	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$ 183.50	\$ 200.00
21.35	12" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,650.00	\$ 2,600.00
21.36	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$ 138.00	\$ 150.00
21.37	12" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$ 3,300.00	\$ 2,900.00
21.38	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$ 1,625.00	\$ 170.00
21.39	12" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$ 4,400.00	\$ 3,600.00
21.40	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$ 225.00	\$ 260.00
21.41	12" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$ 4,400.00	\$ 4,000.00

21.42	12" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$ 255.00	\$ 250.00
21.43	12" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$ 5,200.00	\$ 4,500.00
21.44	12" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$ 280.00	\$ 290.00
21.45	12" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$ 6,600.00	\$ 6,750.00
21.46	12" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$ 400.00	\$ 400.00
<b>Installation of New 12" Diameter Sewer Line</b>				
21.47	New 12" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$ 115.00	\$ 90.00
21.48	New 12" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$ 130.00	\$ 115.00
21.49	New 12" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$ 145.00	\$ 175.00
21.50	New 12" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$ 135.00	\$ 100.00
21.51	New 12" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$ 155.00	\$ 135.00
21.52	New 12" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$ 200.00	\$ 175.00
21.53	New 12" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$ 210.00	\$ 200.00
21.54	New 12" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$ 265.00	\$ 225.00
21.55	New 12" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$ 350.00	\$ 275.00
21.56	Open Trench Stream Crossing for a 12" Dia. Sewer Line (Min. 20')	LF	\$ 415.00	\$ 325.00

OPEN CUT SEWER LINE WORK 15" THROUGH 18" DIAMETER				
Item No.	Item Description	Unit		
22.00	Mobilization for Open Cut Sewer Line Work 15" to 18" Diameter (Each Work Order)	LS	\$ 1,250.00	\$ 1,500.00
<b>Point Repair for 15" Diameter Existing Sewer Line</b>				
22.01	15" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$ 2,450.00	\$ 2,500.00
22.02	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$ 123.00	\$ 125.00
22.03	15" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$ 2,650.00	\$ 2,750.00
22.04	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$ 138.00	\$ 150.00
22.05	15" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$ 2,850.00	\$ 3,250.00
22.06	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$ 183.50	\$ 250.00
22.07	15" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,700.00	\$ 3,000.00
22.08	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$ 137.50	\$ 150.00
22.09	15" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$ 3,000.00	\$ 3,250.00
22.10	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$ 153.00	\$ 185.00
22.11	15" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$ 3,700.00	\$ 4,250.00
22.12	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$ 250.00	\$ 75.00
22.13	15" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$ 3,750.00	\$ 4,350.00
22.14	15" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$ 255.00	\$ 325.00
22.15	15" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$ 3,950.00	\$ 5,000.00
22.16	15" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$ 365.00	\$ 375.00

22.17	15" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$ 5,100.00	\$ 7,000.00
22.18	15" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$ 403.00	\$ 400.00
<b>Installation of New 15" Diameter Sewer Line</b>				
22.19	New 15" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$ 135.00	\$ 110.00
22.20	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$ 145.00	\$ 150.00
22.21	New 15" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$ 175.00	\$ 175.00
22.22	New 8" to 10" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$ 155.00	\$ 125.00
22.23	New 15" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$ 180.00	\$ 150.00
22.24	New 8" to 10" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$ 215.00	\$ 205.00
22.25	New 15" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$ 250.00	\$ 225.00
22.26	New 8" to 10" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$ 315.00	\$ 250.00
22.27	New 15" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$ 395.00	\$ 300.00
22.28	Open Trench Creek Crossing for a 15" Dia. Sewer Line (Min. 20')	LF	\$ 575.00	\$ 350.00
<b>Point Repair for 18" Diameter Existing Sewer Line</b>				
22.29	18" Dia. Point Repair, 0'-6' Deep Under Turf, Up to 10' Long	EA	\$ 2,550.00	\$ 3,000.00
22.30	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Turf	LF	\$ 168.50	\$ 175.00
22.31	18" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	EA	\$ 2,650.00	\$ 3,250.00
22.32	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	LF	\$ 200.00	\$ 200.00
22.33	18" Dia. Point Repair, 12'-18' Deep Under Turf, Up to 10' Long	EA	\$ 3,200.00	\$ 4,000.00
22.34	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Turf	LF	\$ 245.00	\$ 300.00
22.35	18" Dia. Point Repair, 0'-6' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,550.00	\$ 3,250.00
22.36	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Alleyway	LF	\$ 189.00	\$ 210.00
22.37	18" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	EA	\$ 2,900.00	\$ 3,350.00
22.38	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	LF	\$ 205.00	\$ 225.00
22.39	18" Dia. Point Repair, 12'-18' Deep Under Alleyway, Up to 10' Long	EA	\$ 4,200.00	\$ 5,000.00
22.40	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Alleyway	LF	\$ 265.00	\$ 300.00
22.41	18" Dia. Point Repair, 0'-6' Deep Under Pavement, Up to 10' Long	EA	\$ 4,400.00	\$ 5,000.00
22.42	18" Dia. Point Repair, Additional Footage (>10'), 0'-6' Deep Under Pavement	LF	\$ 315.00	\$ 300.00
22.43	18" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	EA	\$ 4,600.00	\$ 5,500.00
22.44	18" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	LF	\$ 345.00	\$ 350.00
22.45	18" Dia. Point Repair, 12'-18' Deep Under Pavement, Up to 10' Long	EA	\$ 5,300.00	\$ 7,500.00
22.46	18" Dia. Point Repair, Additional Footage (>10'), 12'-18' Deep Under Pavement	LF	\$ 410.00	\$ 475.00

Installation of New 18" Diameter Sewer Line				
22.47	New 18" Dia. Sewer Main, 0'-6' Deep Under Turf (Max 350')	LF	\$ 150.00	\$ 125.00
22.48	New 18" Dia. Sewer Main, 6'-12' Deep Under Turf (Max 350')	LF	\$ 175.00	\$ 150.00
22.49	New 18" Dia. Sewer Main, 12'-18' Deep Under Turf (Max 350')	LF	\$ 215.00	\$ 175.00
22.50	New 18" Dia. Sewer Main, 0'-6' Deep Under Alleyway (Max 350')	LF	\$ 175.00	\$ 140.00
22.51	New 18" Dia. Sewer Main, 6'-12' Deep Under Alleyway (Max 350')	LF	\$ 200.00	\$ 160.00
22.52	New 18" Dia. Sewer Main, 12'-18' Deep Under Alleyway (Max 350')	LF	\$ 225.00	\$ 225.00
22.53	New 18" Dia. Sewer Main, 0'-6' Deep Under Pavement (Max 350')	LF	\$ 325.00	\$ 250.00
22.54	New 18" Dia. Sewer Main, 6'-12' Deep Under Pavement (Max 350')	LF	\$ 375.00	\$ 275.00
22.55	New 18" to 10" Dia. Sewer Main, 12'-18' Deep Under Pavement (Max 350')	LF	\$ 425.00	\$ 300.00
22.56	Open Trench Creek Crossing for an 18" Dia. Sewer Line (Min. 20')	LF	\$ 595.00	\$ 375.00

OPEN CUT LATERAL SEWER LINE WORK				
Item No.	Item Description	Unit		
23.00	Mobilization for Open Cut Lateral Sewer Line Work (Each Work Order)	LS	\$ 1,200.00	\$ 1,500.00
<b>Connection Repair (4" and 6" Dia.) on an 8" to 10" Diameter Sewer Main</b>				
23.01	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Turf	EA	\$ 2,350.00	\$ 2,200.00
23.02	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Turf	EA	\$ 2,850.00	\$ 2,750.00
23.03	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Turf	EA	\$ 4,000.00	\$ 4,000.00
23.04	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$ 3,025.00	\$ 2,700.00
23.05	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$ 3,500.00	\$ 3,000.00
23.06	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$ 4,600.00	\$ 4,250.00
23.07	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 0'-6' Deep Under Pavement	EA	\$ 5,050.00	\$ 4,500.00
23.08	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Pavement	EA	\$ 5,200.00	\$ 5,000.00
23.09	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 12'-18' Deep Under Pavement	EA	\$ 7,100.00	\$ 6,000.00
23.10	Open Cut Lateral Connection Repair 8" to 10" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$ 715.00	\$ 1,000.00
<b>Connection Repair (4" and 6" Dia.) on a 12" Diameter Sewer Main</b>				
23.11	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Turf	EA	\$ 2,650.00	\$ 2,300.00
23.12	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Turf	EA	\$ 3,600.00	\$ 3,000.00
23.13	Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Turf	EA	\$ 4,350.00	\$ 4,500.00
23.14	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$ 3,200.00	\$ 3,000.00
23.15	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$ 3,775.00	\$ 3,250.00
23.16	Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$ 4,800.00	\$ 4,900.00
23.17	Open Cut Lateral Connection Repair 12" Dia. Main, 0'-6' Deep Under Pavement	EA	\$ 5,900.00	\$ 5,250.00
23.18	Open Cut Lateral Connection Repair 12" Dia. Main, 6'-12' Deep Under Pavement	EA	\$ 6,750.00	\$ 5,550.00
23.19	Open Cut Lateral Connection Repair 12" Dia. Main, 12'-18' Deep Under Pavement	EA	\$ 8,675.00	\$ 7,250.00



23.20	Open Cut Lateral Connection Repair 12" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$ 975.00	\$ 1,250.00
<b>Connection Repair (4" and 6" Dia.) on a 15" Diameter Sewer Main</b>				
23.21	Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Turf	EA	\$ 2,850.00	\$ 2,250.00
23.22	Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Turf	EA	\$ 3,100.00	\$ 2,750.00
23.23	Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under Turf	EA	\$ 4,900.00	\$ 4,500.00
23.24	Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$ 6,700.00	\$ 2,750.00
23.25	Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$ 4,000.00	\$ 3,250.00
23.26	Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$ 5,075.00	\$ 4,750.00
23.27	Open Cut Lateral Connection Repair 15" Dia. Main, 0'-6' Deep Under Pavement	EA	\$ 5,500.00	\$ 3,900.00
23.28	Open Cut Lateral Connection Repair 15" Dia. Main, 6'-12' Deep Under Pavement	EA	\$ 5,900.00	\$ 4,750.00
23.29	Open Cut Lateral Connection Repair 15" Dia. Main, 12'-18' Deep Under Pavement	EA	\$ 8,000.00	\$ 6,250.00
23.30	Open Cut Lateral Connection Repair 15" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$ 925.00	\$ 1,250.00
<b>Connection Repair (4" and 6" Dia.) on an 18" Diameter Sewer Main</b>				
23.31	Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Turf	EA	\$ 3,025.00	\$ 2,275.00
23.32	Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Turf	EA	\$ 3,300.00	\$ 3,000.00
23.33	Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under Turf	EA	\$ 5,100.00	\$ 4,500.00
23.34	Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Alleyway	EA	\$ 3,875.00	\$ 2,750.00
23.35	Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Alleyway	EA	\$ 4,300.00	\$ 3,250.00
23.36	Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under Alleyway	EA	\$ 5,100.00	\$ 5,000.00
23.37	Open Cut Lateral Connection Repair 18" Dia. Main, 0'-6' Deep Under Pavement	EA	\$ 5,900.00	\$ 4,000.00
23.38	Open Cut Lateral Connection Repair 18" Dia. Main, 6'-12' Deep Under Pavement	EA	\$ 6,950.00	\$ 4,750.00
23.39	Open Cut Lateral Connection Repair 18" Dia. Main, 12'-18' Deep Under Pavement	EA	\$ 8,975.00	\$ 6,500.00
23.40	Open Cut Lateral Connection Repair 18" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	EA	\$ 1,025.00	\$ 1,500.00
<b>4" Diameter Sewer Lateral Line</b>				
23.41	4" Dia. Sewer Lateral, 0'-6' Deep Under Turf	LF	\$ 46.00	\$ 47.50
23.42	4" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF	\$ 51.00	\$ 55.00
23.43	4" Dia. Sewer Lateral, 12'-18' Deep Under Turf	LF	\$ 76.50	\$ 80.00
23.44	4" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway	LF	\$ 61.25	\$ 65.00
23.45	4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway	LF	\$ 71.40	\$ 85.00
23.46	4" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway	LF	\$ 102.00	\$ 115.00
23.47	4" Dia. Sewer Lateral, 0'-6' Deep Under Pavement	LF	\$ 112.25	\$ 105.00
23.48	4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	LF	\$ 127.50	\$ 120.00
23.49	4" Dia. Sewer Lateral, 12'-18' Deep Under Pavement	LF	\$ 174.00	\$ 150.00

6" Diameter Sewer Lateral Line					
23.50	6" Dia. Sewer Lateral, 0'-6' Deep Under Turf	LF	\$ 47.00	\$ 50.00	
23.51	6" Dia. Sewer Lateral, 6'-12' Deep Under Turf	LF	\$ 52.00	\$ 60.00	
23.52	6" Dia. Sewer Lateral, 12'-18' Deep Under Turf	LF	\$ 77.50	\$ 90.00	
23.53	6" Dia. Sewer Lateral, 0'-6' Deep Under Alleyway	LF	\$ 62.25	\$ 75.00	
23.54	6" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway	LF	\$ 72.50	\$ 85.00	
23.55	6" Dia. Sewer Lateral, 12'-18' Deep Under Alleyway	LF	\$ 107.00	\$ 105.00	
23.56	6" Dia. Sewer Lateral, 0'-6' Deep Under Pavement	LF	\$ 117.25	\$ 120.00	
23.57	6" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	LF	\$ 132.50	\$ 130.00	
23.58	6" Dia. Sewer Lateral, 12'-18' Deep Under Pavement	LF	\$ 178.50	\$ 160.00	
Service Lateral Line Cleanout					
23.59	Cleanout, 0'-6' Deep Under Turf	EA	\$ 1,630.00	\$ 1,500.00	
23.60	Cleanout, 6'-12' Deep Under Turf	EA	\$ 2,200.00	\$ 1,750.00	
23.61	Cleanout, 0'-6' Deep Under Crushed Stone	EA	\$ 2,350.00	\$ 2,000.00	
23.62	Cleanout, 6'-12' Deep Under Crushed Stone	EA	\$ 3,500.00	\$ 2,500.00	
23.63	Cleanout, 0'-6' Deep Under Pavement	EA	\$ 3,875.00	\$ 3,500.00	
23.64	Cleanout, 6'-12' Deep Under Pavement	EA	\$ 5,100.00	\$ 4,000.00	
INSTALLATION OF NEW MANHOLES					
Item No.	Item Description	Unit			
24.00	Mobilization for Installation of New Manholes (Each Work Order)	LS	\$ 1,200.00	\$ 2,500.00	
Lamphole					
24.01	8" Dia. Lamphole, Up to 6' Deep	EA	\$ 3,575.00	\$ 3,000.00	
24.02	10" Dia. Lamphole, Up to 6' Deep	EA	\$ 4,350.00	\$ 3,250.00	
4-Foot Diameter					
24.03	4' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$ 4,600.00	\$ 5,000.00	
24.04	4' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$ 4,850.00	\$ 5,500.00	
24.05	4' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$ 6,325.00	\$ 7,000.00	
24.06	4' Dia. Manhole Extra Depth, > 8' Deep	FT	\$ 205.00	\$ 450.00	
5-Foot Diameter					
24.07	5' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$ 6,875.00	\$ 7,000.00	
24.08	5' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$ 7,150.00	\$ 7,250.00	
24.09	5' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$ 8,625.00	\$ 8,000.00	
24.10	5' Dia. Manhole Extra Depth, > 8' Deep	FT	\$ 305.00	\$ 750.00	
6-Foot Diameter					
24.11	6' Dia. Manhole Under Turf, Up to 8' Deep	EA	\$ 8,150.00	\$ 8,000.00	
24.12	6' Dia. Manhole Under Alleyway, Up to 8' Deep	EA	\$ 8,775.00	\$ 8,250.00	
24.13	6' Dia. Manhole Under Pavement, Up to 8' Deep	EA	\$ 10,250.00	\$ 9,000.00	
24.14	6' Dia. Manhole Extra Depth, > 8' Deep	FT	\$ 815.00	\$ 775.00	

MISCELLANEOUS OPEN CUT SERVICES AND ITEMS				
<b>Hourly Rates (A minimum 4-hour charge shall be applied to all hourly services to account for mobilization)</b>				
<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>		
25.00	Laborer	HR	\$ 102.00	\$ 110.00
25.01	Backhoe and Operator	HR	\$ 127.50	\$ 200.00
25.02	12,000 Lb Excavator and Operator	HR	\$ 178.50	\$ 200.00
25.03	18,000 Lb Excavator and Operator	HR	\$ 204.00	\$ 225.00
25.04	40,000 Lb Excavator and Operator	HR	\$ 229.50	\$ 250.00
25.05	>40,000 Lb Excavator and Operator	HR	\$ 331.50	\$ 300.00
25.06	Standard Dump Truck and Driver	HR	\$ 91.75	\$ 150.00
25.07	End Dump Truck and Driver	HR	\$ 153.00	\$ 150.00
<b>Miscellaneous Items</b>				
25.08	Sewer Line Trench Plug	EA	\$ 1,185.00	\$ 2,000.00
25.09	Additional Crushed Stone Backfill	TON	\$ 22.50	\$ 30.00
25.10	Additional Saw Cutting Pavement, Up to 10" Thick	LF	\$ 20.50	\$ 10.00
25.11	Additional Concrete Pavement Replacement, 10" Thick	SF	\$ 13.25	\$ 15.00
25.12	Additional Curb and Gutter Replacement	LF	\$ 61.25	\$ 75.00
25.13	Disposal of Lead Contaminated Soil	CY	\$ 2.05	\$ 30.00

EASEMENT CLEARING AND GRUBBING				
<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>		
26.00	Mobilization for Easement Clearing and Grubbing (Each Work Order)	LS	\$ 1,200.00	\$ 1,500.00
26.01	Laborer	HR	\$ 102.00	\$ 100.00
26.02	Laborer with Hand Tools	HR	\$ 155.00	\$ 135.00
26.03	Operator with Machine	HR	\$ 255.00	\$ 200.00
26.04	Hauling/Trucking and Disposal of Vegetation	HR	\$ 205.00	\$ 140.00

PIPE BURSTING - HORIZONTAL DIRECTIONAL BORE				
<u>Item No.</u>	<u>Item Description</u>	<u>Unit</u>		
27.00	Mobilization for Pipe Bursting (Each Work Order)	LS	\$ 6,000.00	\$ 4,000.00
27.01	Setup Per Each Pipe Bursted Segment	EA	\$ 8,000.00	\$ 15,000.00
27.02	Pipe Bursting for 8" Dia. Pipe	LF	\$ 95.00	\$ 160.00
27.03	Pipe Bursting for 10" Dia. Pipe	LF	\$ 115.00	\$ 200.00
27.04	Pipe Bursting for 12" Dia. Pipe	LF	\$ 150.00	\$ 225.00

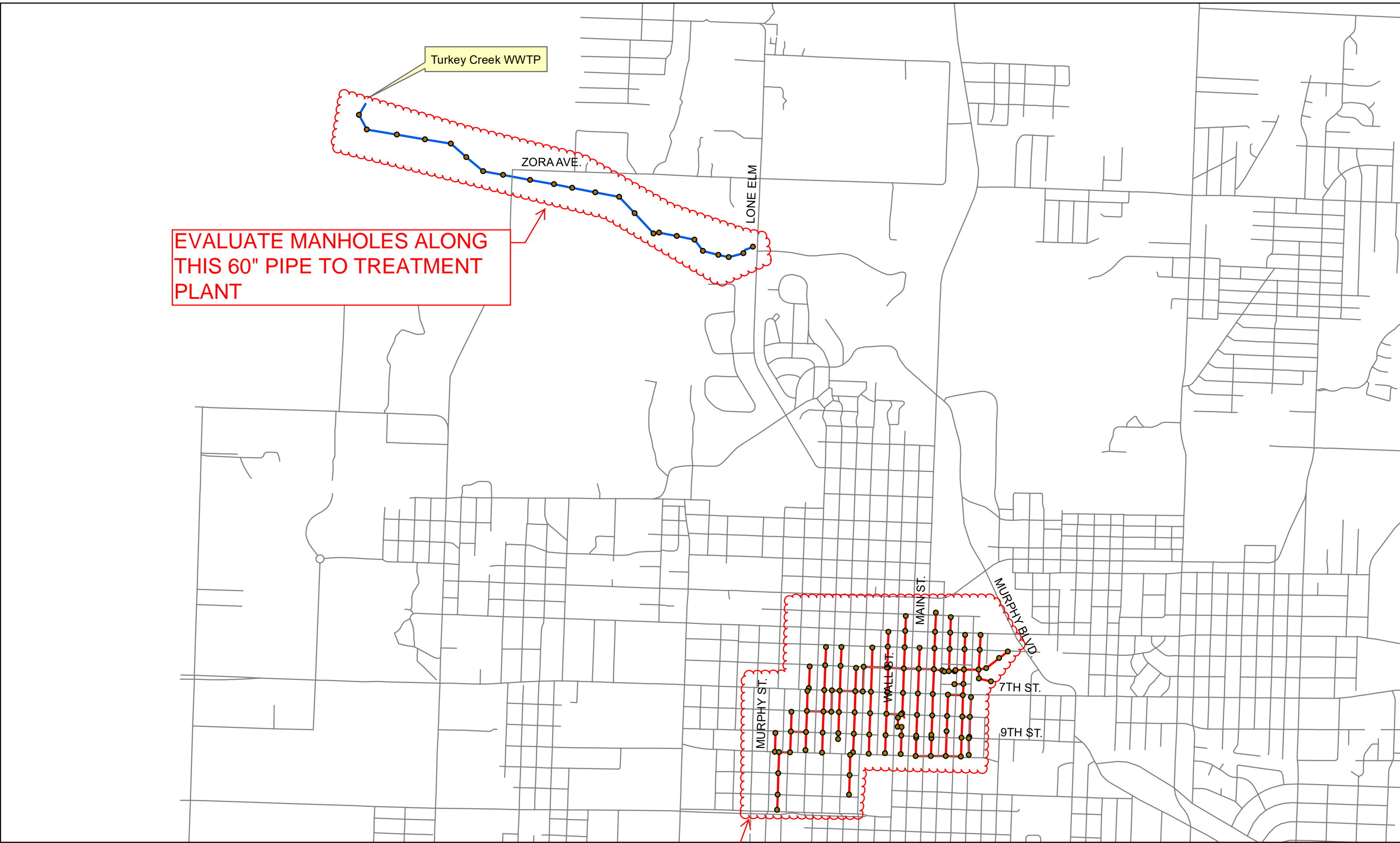
BY-PASS PUMPING					
Item No.	Item Description	Unit			
28.00	Mobilization for By-Pass Pumping (Each Work Order)	LS	\$	3,876.00	\$ 6,250.00
28.01	4-Inch By-Pass Pump	HR	\$	346.80	\$ 1,250.00
28.02	6-Inch By-Pass Pump	HR	\$	469.20	\$ 1,800.00
28.03	8-Inch By-Pass Pump	HR	\$	765.00	\$ 2,400.00

TRAFFIC CONTROL					
Item No.	Item Description	Unit			
29.00	Local Street Closure	EA	\$	775.00	\$ 800.00
29.01	Short Duration Traffic Control for Collector or Arterial	EA	\$	840.00	\$ 850.00
<b>Short-Term Stationary Traffic Control For Collector or Arterial</b>					
29.02	Outside Lane Closure (1-day)	EA	\$	1,250.00	\$ 1,250.00
29.03	Inside Lane Closure (1-day)	EA	\$	1,250.00	\$ 1,250.00
29.04	Center Turn Lane Closure (1-day)	EA	\$	1,100.00	\$ 1,100.00
29.05	Two-Lane Closure (1-day)	EA	\$	1,500.00	\$ 1,600.00
<b>Intermediate-Term Stationary Traffic Control For Collector or Arterial</b>					
29.06	Outside Lane Closure (Up to 3-days)	EA	\$	1,250.00	\$ 1,250.00
29.07	Outside Lane Closure (Each Additional Day)	DAY	\$	325.00	\$ 325.00
29.08	Inside Lane Closure (Up to 3-days)	EA	\$	1,250.00	\$ 1,250.00
29.09	Inside Lane Closure (Each Additional Day)	DAY	\$	325.00	\$ 325.00
29.10	Center Turn Lane Closure (Up to 3-days)	EA	\$	2,100.00	\$ 2,200.00
29.11	Center Turn Lane Closure (Each Additional Day)	DAY	\$	650.00	\$ 650.00
29.12	Two-Lane Closure (Up to 3-days)	EA	\$	2,100.00	\$ 2,200.00
29.13	Two-Lane Closure (Each Additional Day)	DAY	\$	750.00	\$ 750.00

PERFORMANCE AND PAYMENT BONDS					
Item No.	Item Description	Unit			
30.00	Performance and Payment Bonds (Percentage of Each Work Order)	%		1.00%	2.00%

2022 EVALUATION AND REHABILITATION TOOLBOX FOR WASTEWATER COLLECTION SYSTEM  
CITY OF JOPLIN, MISSOURI  
WORK ORDER 2022A

ITEM NO.	NO. OF UNITS	UNIT	DESCRIPTION	UNIT PRICE	EXTENDED
4.00	1	LS	Mobilization for Manhole Cleaning and Inspection (Ea. WO)	\$ 1,500.00	\$ 1,500.00
4.01	10	EA	Manhole Cleaning	\$ 40.00	\$ 400.00
4.02	23	EA	Manhole Inspection	\$ 150.00	\$ 3,450.00
9.00	1	LS	Mobilization for MH to MH CIPP (Ea. WO)	\$ 9,000.00	\$ 9,000.00
9.01	5,627	LF	8" Dia. CIPP (6 mm Liner Thickness)	\$ 29.50	\$ 165,996.50
9.02	1,459	LF	8" Dia. CIPP (7.5 mm Liner Thickness)	\$ 30.25	\$ 44,134.75
9.06	303	LF	12" Dia. CIPP (7.5 mm Liner Thickness)	\$ 46.00	\$ 13,938.00
14.00	1	LS	Mobilization for Trenchless LCR (Ea. WO)	\$ 2,500.00	\$ 2,500.00
14.01	14	EA	Trenchless LCR Setup Per Manhole to Manhole Segment	\$ 500.00	\$ 7,000.00
14.02	94	EA	Ambient Steam Cured LCR 8"-12" Main, 4" to 6" Lateral, 18" Long	\$ 1,400.00	\$ 131,600.00
21.00	1	LS	Mobilization for Open Cut Sewer Line Work 8" to 12" Diameter (Ea. WO)	\$ 1,250.00	\$ 1,250.00
21.03	7	EA	8" and 10" Dia. Point Repair, 6'-12' Deep Under Turf, Up to 10' Long	\$ 2,550.00	\$ 17,850.00
21.04	30	LF	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Turf	\$ 118.00	\$ 3,540.00
21.09	7	EA	8" and 10" Dia. Point Repair, 6'-12' Deep Under Alleyway, Up to 10' Long	\$ 3,500.00	\$ 24,500.00
21.10	50	LF	8" and 10" Point Repair, Additional Footage (>10'), 6'-12' Deep Under Alleyway	\$ 165.00	\$ 8,250.00
21.15	6	EA	8" and 10" Dia. Point Repair, 6'-12' Deep Under Pavement, Up to 10' Long	\$ 4,600.00	\$ 27,600.00
21.16	65	LF	8" and 10" Dia. Point Repair, Additional Footage (>10'), 6'-12' Deep Under Pavement	\$ 260.00	\$ 16,900.00
23.02	1	EA	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Turf	\$ 2,850.00	\$ 2,850.00
23.05	8	EA	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Alleyway	\$ 3,500.00	\$ 28,000.00
23.08	8	EA	Open Cut Lateral Connection Repair 8" to 10" Dia. Main, 6'-12' Deep Under Pavement	\$ 5,200.00	\$ 41,600.00
23.10	2	EA	Open Cut Lateral Connection Repair 8" to 10" Dia. Main Completed During an Open Cut Point Repair or Simultaneous Open Cut Lateral Connection Repair	\$ 715.00	\$ 1,430.00
23.42	50	LF	4" Dia. Sewer Lateral, 6'-12' Deep Under Turf	\$ 51.00	\$ 2,550.00
23.45	50	LF	4" Dia. Sewer Lateral, 6'-12' Deep Under Alleyway	\$ 71.40	\$ 3,570.00
23.48	50	LF	4" Dia. Sewer Lateral, 6'-12' Deep Under Pavement	\$ 127.50	\$ 6,375.00
25.13	167	CY	Disposal of Lead Contaminated Soil	\$ 2.05	\$ 342.68
29.01	2	EA	Short Duration Traffic Control for Collector or Arterial	\$ 840.00	\$ 1,680.00
29.05	1	EA	Short Term Stationary Traffic Control for Collector or Arterial (Two Lane Closure)	\$ 1,500.00	\$ 1,500.00
30.00	1.00	%	Performance and Payment Bonds	\$ 5,693.07	\$ 5,693.07
WO 2022A Total					\$ 575,000.00



Turkey Creek WWTP

ZORA AVE.

LONE ELM

EVALUATE MANHOLES ALONG THIS 60" PIPE TO TREATMENT PLANT

MAIN ST.

MURPHY BLVD.

MURPHY ST.

WALL ST.

7TH ST.

9TH ST.

WILLOW BRANCH AREA



**COUNCIL BILL NO. 2022-121**

**ORDINANCE NO**

AN ORDINANCE approving an agreement and a purchase order for Five Hundred Seventy-five Thousand and 00/100 Dollars (\$575,000.00) with Ace Pipe Cleaning, Inc., for the 2022 Evaluation and Rehabilitation Toolbox for Wastewater Collection System Project; authorizing the City Manager or his designee to execute the same by and on behalf of the City of Joplin.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF JOPLIN, as follows:

Section 1. That an agreement and a purchase order to Ace Pipe Cleaning, Inc., in the amount of Five Hundred Seventy-five Thousand and 00/100 Dollars (\$575,000.00) for the 2022 Evaluation and Rehabilitation Toolbox for Wastewater Collection System Project, a true and accurate copy of said Purchase Order being attached hereto and incorporated as "Exhibit "A," be and the same is hereby approved.

Section 2. That the City Manager of the City of Joplin, Missouri or his designee, is hereby authorized and directed to execute said agreement and purchase order described in Section 1 of this Ordinance for and on behalf of the City of Joplin.

Section 3. That upon the final approval and acceptance of the contractor's work under said contract, in substantial conformance with the attached exhibits, in writing by the Director of Public Works and his certification to the effect to the Director of Finance, the contractor shall be paid the sum due there under from Sanitary Sewer Fund No. 415-4542-540-8675.

Passed by the Council of the City of Joplin, Missouri, this \_\_\_\_\_ day of

\_\_\_\_\_, 2022 by a \_\_\_\_\_ vote.

ATTEST:

\_\_\_\_\_  
Douglas W. Lawson, Mayor

\_\_\_\_\_  
Holly Nagy, City Clerk

APPROVED AS TO FORM:

\_\_\_\_\_  
Peter C. Edwards, City Attorney

**COUNCIL BILL 2022-121**

I hereby certify that a sufficient amount is available in the Wastewater Fund to pay the amounts called for on the basis of the bids received by the City Engineer.

---

Leslie Haase, Director of Finance