



City of Danville, Virginia

PO Box 3300
Danville, VA 24543

427 Patton Street, Rm 304
Danville, VA 24541

J. Gary Via, CPPO
Director of Purchasing
e-mail: viajg@danvilleva.gov

Phone: (434) 799-6528
Fax: (434) 799-5102
e-mail: purchasing@danvilleva.gov

INVITATION FOR BID

Bid No.: IFB 19-20-020

Title: "Citywide Bridge Washing"

Site Visit **Contact** Orey Hill, Project Engineer (434-799-5019 ext. 2528, HILLOT@danvilleva.gov)

Bid Closing Date: Sealed Bids shall be accepted no later than September 5, 2019 at 2:00 p. m. at the Purchasing Department, 427 Patton Street, Room 304, Danville, VA 24541

Direct Inquires to: J. Gary Via, Director of Purchasing
(434) 799-6528 option 4

TABLE OF CONTENTS

- | | |
|-----|--|
| 1.0 | General Conditions |
| 2.0 | Scope: Special Provisions Manual as prepared by City Engineer and bid proposal pages |
| 3.0 | Supplemental General Conditions |

1.0 GENERAL CONDITIONS

1.1 Intent: Secure Virginia-licensed contractor to provide bridge washing on various bridges throughout the city of Danville

1.2 Sealed bids must be received in the Purchasing office no later than 2:00 p. m. September 5, 2019, mail to:

City of Danville
J. Gary Via
Purchasing Department
427 Patton Street, Room 304
Danville, VA 24541

1.3 Bonds: 5% bid bond, 100% payment and performance bonds

1.4 Time of Completion: Ninety calendar days after notice to proceed

1.5 Liquidated Damages: \$350.00 per calendar day

1.6 Project Manager for the City: _ Orey Hill, Project Engineer (434-799-5019 ext. 2528, HILLOT@danvilleva.gov)

2.0 SCOPE OF WORK

See attached Special Provisions for IFB 19-20-020 “Citywide Bridge Washing” as prepared by City Engineer.

3.0 SUPPLEMENTAL GENERAL CONDITIONS

3.1 Compliance: The Contractor shall comply with the provisions of the following:

The City of Danville's "Standard Requirements & Instructions for Bidding", Version 2.0, dated April 2, 2015. Copies may be obtained from the Purchasing Office or by downloading from the City's website "Finance Department, Purchasing Division.

3.2 Award

- A. The award will be made to the lowest responsible and responsive bidder, with consideration given to completion time.
- B. The City reserves the right to reject any or all offers and to waive informalities and minor irregularities in offers received.

3.3 Authority

The Director of Purchasing as the designee of the City Manager has the sole responsibility and authority for negotiating, placing, and when necessary modifying each and every invitation to bid, purchase order or other award issued by the City of Danville. In the discharge of these responsibilities, the Director of Purchasing may be assisted by assigned buyers. No other City officer or employee is authorized to order supplies or services, enter into purchase negotiations, or in any way obligate the government of the City of Danville for any indebtedness. Any purchases contrary to these provisions and authorities shall be void and the City shall not be bound thereby.

This procurement process, including withdrawal of bids and appeal or protests, is governed by the "PROCUREMENT CODE OF THE CITY OF DANVILLE, VIRGINIA". Copies of the Procurement Code may be obtained by writing the City of Danville Purchasing Department, 427 Patton St. Room 304, Danville, Virginia 24541 and by downloading from the City's website, Finance Department, Purchasing Division. The City of Danville does not discriminate against faith-based organizations. Compliance with federal, state, and local laws and federal immigration law: The contractor does not, and shall not during the performance of the contract for goods and services in the Commonwealth, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.

3.4 Bid Preparation

- A. Bid proposals must be written in ink or typewritten and shall be submitted on the forms issued. Unsigned or qualified bids will not be accepted. No bid may be considered if

received after the time shown on Title Page. Contractors are expected to examine all instructions, specifications, drawings, sites, installations, etc. Failure to do so will be at the Contractor's risk. Erasures or other changes must be initialed by the person signing the bid.

- B. Envelopes containing bids must be sealed and marked in the lower left hand corner IFB 19-20-020 "Citywide Bridge Washing" BRIDGE DEBRIS AND STREAM DRIFT REMOVAL and submitted to the office indicated on title page.

- C. SCC Number

Contractors organized as a stock or nonstock corporation, limited liability company, business trust, or limited partnership or registered as a registered limited liability partnership shall be authorized to transact business in the Commonwealth as a domestic or foreign business entity if so required by Virginia Title 13.1 or Title 50 or as otherwise required by law. A Contractor organized or authorized to transact business in the Commonwealth pursuant to Virginia Title 13.1 or Title 50 shall include in its bid or proposal the identification number issued to it by the State Corporation Commission. Any bidder or offeror that is not required to be authorized to transact business in the Commonwealth as a foreign business entity under Title 13.1 or Title 50 or as otherwise required by law shall include in its bid or proposal a statement describing why the bidder or offeror is not required to be so authorized

3.5 Bidder Eligibility

- A. Bidders are required to submit evidence that they have practical knowledge of the particular work bid upon and that they have the financial resources to complete the proposed work. Failure on the part of any Bidder to carry out previous contracts satisfactorily, or lack of experience or equipment necessary for the satisfactory and timely completion of this Project, may be deemed sufficient cause for disqualification of said Bidder.
- B. The Bidder must readily and independently document that the Bidder possesses the experience, equipment and financial resources necessary for a timely and professional completion of this project.
- C. Irregular Bid Proposals: Bid proposals shall be considered irregular for the following reasons:
 - 1. If the bid is on a form other than that furnished by the City, if the City's form is altered, or if any part of the proposal form is detached.
 - 2. If there are unauthorized additions, conditional or alternate pay items, or irregularities of any kind which make the proposal incomplete, indefinite, or otherwise ambiguous.
 - 3. If the bid does not contain a unit price for each pay item listed in the proposal.
 - 4. If the bid contains unit prices that are obviously unbalanced.
 - 5. If the bid is not accompanied by the proposal guaranty specified by the City.
- D. Withdrawal of Bid Due to Error:

1. A bidder for a City construction contract, other than a contract for construction or maintenance of public highways, may withdraw his bid from consideration, if the price bid was substantially lower than the other bids due solely to a mistake therein, provided the bid was submitted in good faith and the mistake was a clerical mistake, as opposed to a judgment mistake, and was actually due to an unintentional arithmetic error or an unintentional omission of a quantity of work, labor, or material made directly in the compilation of the bid, which unintentional arithmetic error or unintentional omission can be clearly shown by objective evidence drawn from inspection of original work papers, documents, and materials used in the preparation of the bid sought to be withdrawn.
 2. The bidder shall give notice in writing of his claim of the right to withdraw his bid within two (2) business days after the conclusion of the bid opening procedure.
- E. Disqualification of Bidder: A bidder shall be considered disqualified for any of the following reasons:
1. Submitting more than one proposal from the same partnership, firm, or corporation under the same or different name.
 2. Evidence of collusion among bidders. Bidders participating in such collusion shall be disqualified as bidders for any future work of the City until any such participating bidder has been reinstated by the City as a qualified bidder.
 3. If the bidder is considered to be in "default" for any reason specified in §5.4.

3.6 Bids Binding 60 Days

Unless otherwise specified, all formal bids submitted shall be binding for sixty (60) calendar days following bid-opening date.

3.7 Cleanup

- A. The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work, he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials.
- B. If the Contractor fails to clean up at the completion of the work, the City may do so and the cost thereof shall be charged to the Contractor.

3.8 Control of Work

- A. On all questions relating to quantities, the acceptability of materials and equipment, or work, and the interpretation of the Contract Documents, the decision of the Project Manager is final and binding, and shall be precedent to any payment under the contract.
- B. All work and material are subject to the inspection and approval of the Project Manager. Any work done without proper inspection will be subject to rejection. Inspection of the work shall not relieve the Contractor of the obligation to fulfill all conditions of the contract. The Project Manager may require the Contractor to remove from the work any employee, as the Project Manager may deem incompetent, careless or insubordinate.
- C. Certain items of work may be performed by forces of the City. The Contractor shall cooperate fully in scheduling and coordinating with the Project Manager such that no delay will result in the performance of such work. If the Contractor claims that such work delays or causes additional costs, he shall make claims as provided in Work Changes.
- D. The City may award, or may have awarded contracts to others for other work. The Contractor shall cooperate fully with such other Contractors by scheduling his own work with that to be performed under other Contracts as may be directed by the City. The Contractor shall not commit or permit any act which will interfere with the performance of work by any other Contractor as scheduled.
- E. Neither the final certificate of payment nor any provision in the contract documents, nor partial or entire occupancy of the premises by the City, shall constitute an acceptance of work not done in accordance with the contract documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall remedy any defects in the work and pay for any damage to other work resulting therefrom, which shall appear within a period of one year from the date of final acceptance of work unless a longer period is specified. The City will give notice of observed defects with reasonable promptness.

3.9 Equal Employment

During the performance of this contract, the Contractor agrees as follows:

- A. The Contractor will not discriminate against any employee or applicant for employment because of race, religion, color, sex, or national origin, except where religion, sex, or national origin is a bona fide occupational qualification reasonably necessary to the normal operation of the Contractor. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions for this non-discrimination clause.
- B. The Contractor also shall not discriminate against any handicapped person in violation of any state or federal law or regulation and shall also post in conspicuous places, available to employees and applicants for employment, notices setting forth the provisions of this additional non-discrimination clause.

- C. The Contractor, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, will state that such contractor is an equal opportunity employer.
- D. Notices, advertisements, and solicitations placed in accordance with Federal law, rule or regulation shall be deemed sufficient for the purpose of meeting the requirements of this section.
- E. The Contractor will include the provisions of the foregoing paragraphs in every subcontract or purchase order over \$10,000 so that the provisions will be binding upon each subcontractor or vendor.
- F. The Contractor will otherwise comply with all other applicable provisions of local, State, and Federal law.

3.10 Drug Free Work Place

During the performance of this contract, the contractor agrees to:

- A. Provide a drug-free workplace for the contractor's employees
- B. Post in conspicuous places, available to employees and applicants for employment, a statement notifying employees that the unlawful manufacture, sale, distribution, dispensation, possession, or use of a controlled substance or marijuana is prohibited in the contractor's workplace and specifying the actions that will be taken against employees for violations of such prohibition.
- C. State in all solicitations or advertisements for employees placed by or on behalf of the contractor that the contractor maintains a drug-free workplace
- D. Include the provisions of the foregoing clauses in every subcontract or purchase order of or over \$10,000, so that the provisions will be binding upon each subcontractor or vendor.

"Drug-free workplace" means a site for the performance of work done in connection with a specific contract awarded to a contractor in accordance with this chapter, the employees of whom are prohibited from engaging in the unlawful manufacture, sale, distribution, dispensation, possession or use of any controlled substance or marijuana during the performance of the contract.

3.11 Guaranty

- A. The Contractor shall guarantee that all the materials used and all the work done under the contract shall fully comply with the requirements of the plans and specifications and the instructions of the City.
- B. All expenses covering return or replacement of defective or improper equipment or merchandise will be assumed by the Contractor. In no instance shall the contractor refer the City to any distributor or manufacturer for settlement of any claim arising from defective or improper equipment or merchandise. If the Contractor shall fail to replace or repair any defective or improper equipment or merchandise within thirty (30) days from date of notice, the City may make the necessary corrective arrangements and charge the cost to money due the Contractor or bill the Contractor. The Contractor agrees to reimburse the City in such instances. Samples of any warranties which will apply to the goods being offered for sale shall be included as part of the bid.
- C. Any defects in the completed work or failure of the construction to fully perform or endure the service for which it is intended, which in the opinion of the City are caused by or due to the use of materials, skill or workmanship not in compliance with the said plans, specifications and instructions, that may appear in the work within a period of twenty-four (24) months after acceptance by the City shall be regarded as prima facie and conclusive evidence that the Contractor has failed to comply with the said specifications, plans, and instructions. The Contractor in this event, shall at his own expense, at such time and in such manner as the Engineer may direct, repair or take up and reconstruct any such defective work, in full compliance with the original specifications, plans, and instructions. The repairs required to be made by the Contractor shall extend only to making good an inherent defects which become manifested in the materials and workmanship under ordinary conditions, and shall not be held to cover any breakage or damage caused by improper use or by accident resulting from circumstances over which the Contractor has no control.

3.12 Indemnification

- A. The Contractor shall indemnify, keep and save harmless the City, its agents, officials and employees, against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgments, costs and expenses, which may in anywise accrue against the City, its agents, officials and employees in consequence of the granting of this contract or which may in anyway result therefrom, whether or not it shall be alleged or determine that the act was caused through negligence or omission of the Contractor or his employees, or of the subcontractor or his employees, if any, and the Contractor shall, at his own expense, appear, defend and pay all charges of attorneys and other expenses arising therefrom or incurred in connection therewith, and, if any judgment shall be rendered against the City in any such action, the Contractor shall, at his own expense, satisfy and discharge the same. The Contractor expressly understands and agrees that any performance bond or insurance protection required by this contract, or otherwise provided by the Contractor, shall in no way limit the responsibility to indemnify, keep and save harmless and defend the City, its agents, officials, and employees as herein provided. The Contractor shall have charge and control of the entire work until its completion and acceptance by the City.
- B. The Contractor shall assume all risks and responsibilities for casualties of every description in connection with the work, except that he shall not be held liable or responsible for

delays or damage to the work caused by acts of God, acts of Public enemy, acts of Government, quarantine restrictions, general strikes through the trade, or by freight embargoes not caused or participated in by the Contractor. The Contractor shall have charge and control of the entire work until completion and acceptance of the same by the City.

- C. The Contractor shall alone be liable and responsible for, and shall pay, any and all loss or damage sustained by any person or party either during the performance or subsequent to the completion of the work under this agreement by reason of injuries to persons and damage to property, buildings, and adjacent work, that may occur either during the performance of the work covered by this contract or that may be sustained as a result of or in consequence thereof, irrespective of whether or not such injury or damage be due to negligence or the inherent nature of the work.
- D. The Contractor shall bear all losses resulting from the amount or character of the work being different, or because the nature of the premises on which the work is done is different from what was expected, or on account of the weather, or similar other causes.

3.13 Insurance

The Contractor shall not commence work under this contract until he has obtained all the insurance required hereunder and such insurance has been approved by the City; nor shall the Contractor allow any Subcontractor to commence work on his subcontract until all similar insurance has been so obtained and approved. Approval of the insurance by the City shall not relieve or decrease the liability of the Contractor hereunder.

- A. Worker's Compensation including Occupational Disease and Employer's Liability Insurance: The Contractor shall take out and maintain during the life of this Contract Workers' Compensation and Employer's Liability Insurance for all of his employees to be engaged in work on the project under this contract in an amount no less than the minimum allowed by the State Corporation Commission, and in case of such work is sublet, the Contractor shall require the Subcontractor similarly to provide Workers' Compensation and Employer's Liability Insurance for all of the latter's employees to be engaged in such work.
- B. Comprehensive General Liability Insurance: The Contractor shall maintain during the life of this Contract comprehensive general liability insurance as shall protect him, the City of Danville and its offices, agents and employees, and any Subcontractors performing work covered by this Contract from claims for damage for personal injury, including death, as well as from claims for property damage, which may arise from operations under this Contract, whether such operations by himself or by any Subcontractor, or by anyone directly or indirectly employed by either of them. The amount of such insurance shall not be less than a combination single limit of \$1,000,000 per occurrence on bodily injury and property damage and \$1,000,000 aggregate on completed operations. The comprehensive general liability insurance shall provide the following coverage:

Comprehensive

Premises – Operation
Products/Completed Operations Hazard
Contractual Insurance
Underground Hazard
Explosion & Collapse Hazard
Independent Contractor and Subcontractor
Broad Form Property Damage
Personal Injury

- C. Automobile liability insurance minimum combined single limits of \$1,000,000 for any one person, and subject to the same limit for each person, \$1,000,000 on account of any one accident. This insurance shall include bodily injury and property damage for the following vehicles:

Owned Vehicles

Non-owned Vehicles

Hired Vehicles

- D. Umbrella Policy. At the option of the Contractor, primary limits may be less than required, with an umbrella policy providing the additional limits needed. This form of insurance will be acceptable provided that the primary and umbrella policies both provide the insurance coverage's herein required. However, any such umbrella policy must have minimum coverage limits of \$3,000,000.00.
- E. All policies shall name the City of Danville, its officers, agents, and employees, as additional insured. This coverage shall be reflected on the Certificates of Insurance (including any endorsements or riders thereto), which will be provided to the City. Each Certificate of Insurance shall require that notice be given thirty (30) days prior to cancellation or material change in the policies to the Director of Purchasing.
- F. Written evidence of the insurance required herein shall be filed with the City not later than thirty (30) days following the date of the award of the Contract. A copy of the evidence of insurance shall be filed with the Director of Purchasing.

3.14 Interpretation

- A. If any person contemplating the submission of a bid on this invitation is in doubt as to the true meaning of any part of the Invitation for bid or other documents, he should submit a written request for an interpretation thereof to the Engineer and received at least four (4) days before bid deadline. An interpretation of the bid invitation document will be made only by written addendum issued to each potential bidder. THE CITY WILL NOT BE RESPONSIBLE FOR EXPLANATIONS OR INTERPRETATIONS OF BID INVITATION DOCUMENTS EXCEPT AS ISSUED IN ACCORDANCE HEREWITH. The Bidder shall acknowledge receipt of all addenda in the Proposal.
- B. All notices, demands, requests, instructions, approvals, proposals, and claims must be in writing.
- C. If during performance of the Work, the Contractor finds a conflict, error or discrepancy in the Contract Documents, the contractor shall so report to the Engineer in writing at once before proceeding with the work affected thereby and shall obtain a written interpretation or clarification from the Engineer. In resolving such conflicts, errors and discrepancies, the Documents shall be given precedence in the following order: Agreement, Modifications, Addenda, Supplementary Conditions, Instruction to Bidders, General Conditions, Proposal and Specifications/Drawings. Figure dimensions on Drawings shall govern over scale dimensions and detailed drawings shall govern over general drawings.

3.15 Limitations of Work Area

- A. The Contractor shall be limited to a specific area for storage of equipment, supplies, and building materials. This area shall be designated by the City and established during the Pre-construction conference.
- B. Parking area for employees of the Contractor shall be designated in the vicinity of the project, and it shall be the responsibility of the Contractor to require his personnel to park in this designated area and not any area which may interfere with the normal operations in and around the construction area or with access and use of the facility by the City.

3.16 Novation

The Contractor shall not assign or transfer, whether by an Assignment or Novation, any of its rights, duties, benefits, obligations, liabilities or responsibilities under this Contract without the written consent of the City; provided, however, that assignments to banks, trust companies or other financial institutions for the purpose of securing bond may be made without the consent of the City. Assignment or Novation of this Contract shall not be valid unless the Assignment or Novation expressly provides that the assignment of any of the Contractor's rights or benefits under the Contract is subject to a prior lien for labor performed, services rendered and materials, tools and equipment supplied for the performance of the work under this Contract in favor of all persons, firms or corporations rendering such labor or services or supplying such materials, tools and equipment.

3.17 Observance of Laws

The Contractor at all times shall observe and comply with all Federal, State and City laws, bylaws, ordinances and regulations in any manner affecting the conduct of the work or applying to employees on the project, as well as all orders or decrees which have been promulgated or enacted, by any legal bodies or tribunals having authority or jurisdiction over the work materials, employees or contract. The contractor does not, and shall not during the performance of the contract for goods and services in the Commonwealth, knowingly employ an unauthorized alien as defined in the federal Immigration Reform and Control Act of 1986.

3.18 Patents

The Contractor agrees to indemnify and save harmless the City, and all personnel from all suits and actions of every nature and description brought against them or any of the, for or on account of the use of patented appliances, products, or processes, and he shall pay all royalties and charges which are legal and equitable. Evidence of such payment or satisfaction shall be submitted upon request of the City as a necessary requirement in connection with the final execution of any contract in which such patented appliances, products, or processes are used.

3.19 Performance

In case of default by the Contractor, the City may procure the commodity or services from other sources and hold the Contractor responsible for any excess costs occasioned thereby.

3.20 Permits

The Contractor shall, at his own expense, secure any business or professional licenses, permits or fees required by the City of Danville, Commonwealth of Virginia or any other requesting agency having jurisdiction.

3.21 Safety

- A. All practices, materials and equipment shall comply with the Federal Occupational Safety and health Act, as well as any pertinent Federal, State and/or local Safety or Environmental Codes.
- B. Construction site safety is the responsibility of the Contractor.

3.22 Specifications and Product Description

When brand names, model numbers, trade names, catalog number or cuts are listed, they are, unless otherwise specified, included for the purpose of furnishing bidders with information concerning the style, type or kind of article desired and a **bidder may offer an article** which he certifies to be equal in quality, performance and other essential characteristics. Any available printed material or literature which describes the product being offered for sale shall be included with the bid. The City shall be the sole judge of suitability of substitutes offered. When a formal numbered specification is referred to in this invitation, no deviation will be permitted and the bidder will be required to furnish articles in conformity with that specification.

3.23 Subcontracts

- A. No proposed subcontractor shall be disapproved by the City except for cause.
- B. The Contractor shall be as fully responsible to the City for the acts and omissions of his subcontractors, and of persons either directly or indirectly employed by them as he is for the acts and omissions of persons directly employed by him.
- C. The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to require compliance by each subcontractor with the applicable provisions of the Contract for the improvements embraced in this Contract.
- D. Nothing contained in the Contract shall create any contractual relation between any subcontractor and the City.
- E. Payments to subcontractors
 - 1. The contractor shall take one of the two following actions within seven days after receipt of amounts paid to the contractor by the City of Danville for work performed by the subcontractor
 - a. Pay the subcontractor for the proportionate share of the total payment received from the agency attributable to the work performed by the subcontractor under that contract; or
 - b. Notify the agency and subcontractor, in writing, of his intention to withhold all or a part of the subcontractor's payment with the reason for nonpayment.
 - 2. Individual Contractors shall provide their social security numbers and proprietorships, partnerships, and corporations to provide their federal employer identification numbers.

3. The contractor shall pay interest to the subcontractor on all amounts owed by the contractor that remain unpaid after seven days following receipt by the contractor of payment from the City of Danville for work performed by the subcontractor, except for amounts withheld as allowed in subdivision 1.

4. Unless otherwise provided under the terms of this contract, interest shall accrue at the rate of one percent per month.”

The contractor shall include in each of its subcontracts a provision requiring each subcontractor to include or otherwise be subject to the same payment and interest requirements with respect to each lower-tier subcontractor.

A contractor's obligation to pay an interest charge to a subcontractor pursuant to the payment clause in this section shall not be construed to be an obligation of the City of Danville. A contract modification shall not be made for the purpose of providing reimbursement for the interest charge. A cost reimbursement claim shall not include any amount for reimbursement for the interest charge.

3.24 Suspension of Work

The work may be suspended by the City when deemed in the best interest of the City.

3.25 Termination

If the Contractor fails to begin the work under this contract within the time specified, or fails to perform the work with sufficient workmen and equipment or with sufficient materials to insure the completion of said work within the specified time, or shall perform the work in an unsatisfactory manner, or shall neglect or refuse to remove materials or perform anew such work as shall discontinue the prosecution of the work, or if the Contractor shall become insolvent or be declared bankrupt, or shall commit any act of bankruptcy or insolvency, or shall make an assignment for the benefit of creditors, or from any other cause whatsoever shall not carry out the work in an acceptable manner, the City shall give notice in writing to the Contractor and his surety of such failure, delay, neglect, refusal, or default, specifying the same and if the contractor, within a period of seven days after such notice, shall not proceed in accordance therewith, then the City Manager acting for and on behalf of the City shall, upon receipt of a written certificate from the Engineer of the fact of such failure, delay, neglect, refusal, or default and of failure of the Contractor to comply with such notice, have full power and authority to declare the forfeiture of this contract, and to forfeit the rights of the Contractor in this contract, and the City Manager at this option may call upon the surety to complete the work in accordance with the terms of this contract or may have the City take over the terms of this contract or may have the City take over the work, including any or all materials and equipment on the ground as may be suitable and acceptable to the City and may complete the work by or on its own employees, or may

enter into a new contract for the completion of the work, or may use such other methods as in the opinion of the City Manager shall be required for the completion of the work in an acceptable manner. All costs and charges incurred by the City, together with the cost of completing the work, shall be deducted from any monies due or which may become due on this contract.

In case the expense so incurred by the City shall be less than the sum which would have been payable under this contract if it had been completed by the Contractor and had not been forfeited by the City, then the Contractor shall be entitled to receive the difference, subject to any claims of liens thereon which may have been filed with the City or any prior assignment filed with it. In case such expense shall exceed the sum which would have been payable under this contract, the Contractor and the surety shall be liable and shall pay the City the amount of such excess.

3.26 Work Changes

- A. The City without invalidating the contract, and without notice to any surety, may order changes in the work within the general scope of the contract consisting of additions, deletions or other revisions, providing the total amount added or eliminated does not exceed twenty-five percent (25%) of the total contract price, or \$50,000, whichever is greater. All such changes in the work shall be authorized by change order, and shall be executed under the applicable conditions of the contract documents.
- B. The cost or credit to the City resulting from a change in the work shall be determined by unit prices subsequently agreed upon or by mutual acceptance of a lump sum properly itemized, or on the basis of cost of Work plus a Contractors Fee for overhead and profit as determined below.
- C. Should concealed conditions encountered in the performance of the work below the surface of the ground or hidden in existing structures be at variance with the conditions indicated by the contract documents, the contract price may be equitably adjusted by change order upon claim by either party and approval of the other party, made within either party and approval of the other party, made within twenty (20) days after the first observance of the conditions.
- D. The Contractor shall promptly, and before such conditions are disturbed, notify the Project Manager in writing of: (a) subsurface or latent physical conditions at the site differing materially from those indicated in this contract, or (b) unknown physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this contract. The Project Manager shall promptly investigate the conditions, and if he finds that such conditions do so materially differ and cause an increase or decrease in the contractor's cost of, or the time required for, performance of this contract, and equitable adjustment shall be made and the contract modified in writing accordingly. Any claim of the Contractor for adjustment hereunder shall not be allowed unless he has given notice as above required; or unless the Project Manager grants a further period of time before the date of final payment under the contract.

BID PROPOSAL

CITYWIDE BRIDGE WASHING

IFB 19-20-020

The undersigned, as Bidder, hereby declares that he or she and their associates are the only person or persons interested in the proposal as principal or principals; that this proposal is made without connection with any other person, company, or parties making a bid or proposal; and that it is in all respects fair and good faith without collusion or fraud.

The Bidder further declares that they have examined the site of the work and informed themselves fully in regard to all conditions pertaining to the place where the work is to be done; that they have examined the specifications for the work and contractual documents relative thereto and have read all special provisions furnished prior to the bid opening; that they have satisfied themselves relative to the work to be performed, and materials and equipment to be furnished.

The Bidder proposes and agrees, if this proposal is accepted, to contract with the City of Danville, Virginia in the form of contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation, and labor necessary to perform in full and complete the requirements of the specifications and contract documents, to the full and entire satisfaction of the City of Danville, Virginia with definite understanding that no money will be allowed for extra work except as set forth in the attached General Conditions and Contract Documents: set opposite the several items that follow:

Note: Bid Item List is provided for comparison purposes only and may not be all inclusive of the work depicted in the contract documents. The bidder is responsible for estimating all quantities associated with the bid.

BID ITEM LIST

Note: The bidder is responsible to familiarize himself with each structure and for estimating all quantities associated with the work. Note square yards are for reference only.

Map #	Spec No.	Structure #	Quantity	Unit	Unit Price
1	ATTD	Bridge Washing (Type I) Structure #8007	1	LS	
2	ATTD	Bridge Washing (Type I) Structure #8008	1	LS	
3	ATTD	Bridge Washing (Type I) Structure #8009	1	LS	
4	ATTD	Bridge Washing (Type I) Structure #8010	1	LS	
5	ATTD	Bridge Washing (Type I) Structure #8011	1	LS	
6	ATTD	Bridge Washing (Type I) Structure #8012	1	LS	
7	ATTD	Bridge Washing (Type I) Structure #8013	1	LS	
8	ATTD	Bridge Washing (Type I) Structure #1802	1	LS	
9	ATTD	Bridge Washing (Type I) Structure #1803	1	LS	
10	ATTD	Bridge Washing (Type I) Structure #1804	1	LS	
11	ATTD	Bridge Washing (Type I) Structure #1805	1	LS	
12	ATTD	Bridge Washing (Type I) Structure #1806	1	LS	
13	ATTD	Bridge Washing (Type I) Structure #1817	1	LS	
14	ATTD	Bridge Washing (Type I) Structure #1800	1	LS	
15	ATTD	Bridge Washing (Type I) Structure #1801	1	LS	
16	ATTD	Bridge Washing (Type I) Structure #1809	1	LS	
17	ATTD	Bridge Washing (Type I) Structure #1810	1	LS	
18	ATTD	Bridge Washing (Type I) Structure #1812	1	LS	
19	ATTD	Bridge Washing (Type I) Structure #1901	1	LS	
20	ATTD	Bridge Washing (Type I) Structure #1902	1	LS	
21	ATTD	Bridge Washing (Type I) Structure #6912	1	LS	
22	ATTD	Bridge Washing (Type I) Structure #6285	1	LS	
23	ATTD	Bridge Washing (Type I) Structure #1814	1	LS	
24	ATTD	Bridge Washing (Type I) Structure #1040	1	LS	
25	ATTD	Bridge Washing (Type I) Structure #1039	1	LS	
26	ATTD	Bridge Washing (Type I) Structure #1815	1	LS	
27	ATTD	Bridge Washing (Type I) Structure #1818	1	LS	
28	ATTD	Bridge Washing (Type I) Structure #8001	1	LS	
29	ATTD	Bridge Washing (Type I) Structure #8015	1	LS	
30	ATTD	Bridge Washing (Type I) Structure #1811	1	LS	
			TOTAL		

The Bidder further agrees that:

1. The City, in protecting its best interest, reserves the right to reject any or all bids or waive any defects in favor of the City. Any changes, erasures, deletions in the unit or lump sum prices above, modifications in the bid form, or alternate proposals not specified in the bid proposal shall make the proposal irregular and subject to rejection.
2. All quantities listed above are estimates only and the City reserves the right to raise, lower, or eliminate any quantity or item and in any case the unit or lump sum prices shall be used in determining partial or final payment.
3. If awarded the contract, to execute and deliver to the City within ten (10) consecutive calendar days after their receipt of the contract documents, a satisfactory Performance Bond and Labor & Material Bond, as required, in the amount of one hundred percent (100%) of the contract amount along with the signed agreement.
4. In case of failure on their part to execute the said agreement within ten (10) consecutive calendar days after receipt of the contract documents, the monies payable by the Security accompanying this bid shall be paid to the City of Danville, Virginia, as liquidated damages for such failure; otherwise, the Security accompanying this bid shall be returned to the Bidder.
5. The work under this contract shall commence not later than ten (10) consecutive calendar days after the date of a written Notice To Proceed is given by the City to the Contractor and shall be completed within the number of days or by the fixed date stipulated in the contract for each phase of the work.
6. The Contractor shall be subject to liquidated damages to be assessed in accordance with the Specifications for each day the work is incomplete past the contract number of days or fixed date of completion for each phase of work. The Bidder, if awarded the Contract, waives any defense as to the validity of any liquidated damages stated in the Contract and assessed by the City on the grounds that such liquidated damages are void as penalties or are not reasonably related to actual damages.
7. This bid is subject to acceptance within a period of sixty (60) days from this date.

Enclosed herewith is the following Security, offered as evidence that the undersigned will enter into agreement for the execution and completion of the work in accordance with the drawings and specifications.

Bidder's Bond or Certified Check in the amount of

\$ _____

If Bond, Name of Surety:

If Check, Name of Bank:

The undersigned Bidder acknowledges receipt of the following Addenda, which have been considered in the preparation of this Bid:

No. _____ Dated _____

(SIGNATURES FOLLOW ON THE NEXT PAGE)

CONTRACTOR: _____

DATE: _____

ADDRESS: _____

PHONE: _____ FAX #: _____

City of Danville Business License# : _____

Federal Tax#: _____

E-Mail Address _____

Signature: _____ Signature: _____
(Printed or Typed) (Signed)

Title: _____

Attest:

Signature: _____ Signature: _____
(Printed or Typed) (Signed)

Title: _____

Registered as a contractor under Chapter 175E, Section 4539(117), Code of Virginia as amended by Chapter 404, Act of Assembly, 1944,

Certificate No. _____

Registered As _____

Commonwealth of Virginia State Corporation Identification No. _____

**CONTRACTOR EXPERIENCE FORM
BRIDGE WASHING CONTRACTS**

Purpose: The Contractor shall provide evidence of his prior bridge washing experience by providing details and references for three (3) successful previous bridge washing services for other municipalities or state DOTs.

Instructions: Fill out and submit with bid. Failure to submit may render your bid non-responsive.

Firm Name: _____

Project 1 Description: _____

Date Completed: _____

Project Owner: _____

Approx. Contract Value: _____

Reference Name & Contact Info: _____

Project 2 Description: _____

Date Completed: _____

Project Owner: _____

Approx. Contract Value: _____

Reference Name & Contact Info: _____

Project 3 Description: _____

Date Completed: _____

Project Owner: _____

Approx. Contract Value: _____

Reference Name & Contact Info: _____



**CITY OF DANVILLE, VIRGINIA
DEPARTMENT OF PUBLIC WORKS**



SPECIAL PROVISIONS

FOR

City Wide Bridge Washing

Under

City Standard Requirements and Instructions for Bidding dated April 2, 2015
VDOT Supplemental Specifications dated 2019
VDOT Road & Bridge Specifications dated 2016
VDOT Road & Bridge Standards dated 2016 and as amended

Identified by

IFB No. 19-20-020

August 2019

Prepared by the Office of the City Engineer

DANVILLE, VIRGINIA

NOTICE TO BIDDERS

Bids open September 5, 2019

Dated August 19, 2019

General work description: Bridge washing on various bridges throughout the city of Danville. (See bid item list below for the list of structures to be washed)

Detailed work description: Work includes the entire deck from back of abutment backwall to back of abutment backwall including joints, gutters, curbs, sidewalks, parapets, railings, concrete median strips, and the portions of appurtenances, such as light and sign standards, that can be reached without special lift equipment. Deck joints include both the upper exposed surface attached to the concrete as well as the area beneath the joint that is intended to remove water from the deck, and the top and upper edge of the compression seals joints.

The City of Danville (the City) will receive sealed bids for **Bridge Washing Services** for various bridges throughout the City.

Initial Contract Term: One (1) year from the date of issuance of a purchase order

Contract Renewal: Up to two (2) additional one-year contract terms

Invitation for Bid No. 19-20-020

Prevailing wages in compliance with the Davis-Bacon Act are **NOT REQUIRED** on this contract.

The Contractor must obtain, prior to award, licensure in the Commonwealth of Virginia in accordance with the requirements of Title 54.1, Chapter 11, of the Code of Virginia (1950), as amended as well as a City of Danville business license.

Complete the work Ninety (90) calendar days after notice to proceed.

A pre-bid conference for this project will not be held. A government employee will be made available to review the locations if requested.

The City will receive bids until 2:00 p.m. local prevailing time on the bid open date at 427 Patton Street, Room 304, Danville, Virginia, 24541. Bids received after this time will not be accepted.

The City will open and publicly read aloud the bids at the above location immediately after the specified closing time.

Submit your bid with proofs of insurance and proposal guaranty (bid bond, certified check, or cash escrow) equal to at least 5% of the amount bid. Performance and Payment bonds equal to 100% of the amount bid must be provided upon Notice of Award.

The City reserves the right to reject any or all bids and to waive any irregularities or informalities in the bidding.

An agreement will be presented to the Contractor for signature within fifteen (15) days after opening of bids if contract is to be awarded.

The procedure for withdrawal of bids due to error shall be according to Virginia Administrative Code §2.2-4330.

Electronic copies of the project documents may be obtained from the City's Bid Postings website.

City of Danville
J. Gary Via, CPPO
Director of Purchasing

List of structures

Below is a list of structures to be washed the map that are associated with them are attached as PDFs.

Map #	Spec No.	Structure #	SY
1	ATTD	Bridge Washing (Type I) Structure #8007	4176
2	ATTD	Bridge Washing (Type I) Structure #8008	464
3	ATTD	Bridge Washing (Type I) Structure #8009	1153
4	ATTD	Bridge Washing (Type I) Structure #8010	127
5	ATTD	Bridge Washing (Type I) Structure #8011	361
6	ATTD	Bridge Washing (Type I) Structure #8012	2564
7	ATTD	Bridge Washing (Type I) Structure #8013	2860
8	ATTD	Bridge Washing (Type I) Structure #1802	4539
9	ATTD	Bridge Washing (Type I) Structure #1803	1745
10	ATTD	Bridge Washing (Type I) Structure #1804	1166
11	ATTD	Bridge Washing (Type I) Structure #1805	2048
12	ATTD	Bridge Washing (Type I) Structure #1806	1510
13	ATTD	Bridge Washing (Type I) Structure #1817	1510
14	ATTD	Bridge Washing (Type I) Structure #1800	425
15	ATTD	Bridge Washing (Type I) Structure #1801	258
16	ATTD	Bridge Washing (Type I) Structure #1809	1092
17	ATTD	Bridge Washing (Type I) Structure #1810	1106
18	ATTD	Bridge Washing (Type I) Structure #1812	1217
19	ATTD	Bridge Washing (Type I) Structure #1901	937
20	ATTD	Bridge Washing (Type I) Structure #1902	172
21	ATTD	Bridge Washing (Type I) Structure #6912	451
22	ATTD	Bridge Washing (Type I) Structure #6285	344
23	ATTD	Bridge Washing (Type I) Structure #1814	889
24	ATTD	Bridge Washing (Type I) Structure #1040	1581
25	ATTD	Bridge Washing (Type I) Structure #1039	1211
26	ATTD	Bridge Washing (Type I) Structure #1815	3219
27	ATTD	Bridge Washing (Type I) Structure #1818	1303
28	ATTD	Bridge Washing (Type I) Structure #8001	7306
29	ATTD	Bridge Washing (Type I) Structure #8015	982
30	ATTD	Bridge Washing (Type I) Structure #1811	4696

DIVISION I – CONDITIONS OF THE CONTRACT

SECTION 100 – GENERAL CONDITIONS, SCOPE OF WORK, AND SUPPLEMENTAL GENERAL CONDITIONS

PART 1 GENERAL CONDITIONS

1.1 INTENT

- A. Secure qualified contractor to perform the Scope of Work stated in Part 2.

1.2 PRE-BID CONFERENCE

- A. None. A government employee will be made available to walk the site with the Contractor if requested.

1.3 BONDS REQUIRED

- A. Bid bond equal to five percent (5%) of the contract price is required. (Submit with Bid)
- B. Performance bond equal to one hundred percent (100%) of the contract price required.
- C. Payment bond equal to one hundred percent (100%) of the contract price required.

1.4 TIME OF COMPLETION

- A. Completion of work shall be ninety calendar days.

1.5 LIQUIDATED DAMAGES

- A. Five Hundred Dollars (\$500) per day.

1.6 PROJECT REPRESENTATIVES

- A. Orey Hill, Project Engineer (434-799-5019 ext. 2528, hillot@danvilleva.gov) will serve as Project Manager and Engineer.

PART 2 SCOPE OF WORK

2.1 Project Location: Various bridges through the City of Danville.

2.2 The Contractor shall provide all labor, material, equipment, supervision, and incidentals required to perform the work of the project as defined by the Contract Documents which consists of the following:

This work shall consist of cleaning and washing superstructure bridge elements in accordance with the special provisions herein including bridge decks, sidewalks, and expansion joints on various bridges throughout the City. The attachment contains the location, approximate area of each structure, and location. The Contractor is responsible to familiarize himself with each structure prior to bidding.

PART 3 SUPPLEMENTAL GENERAL CONDITIONS

3.1 COMPLIANCE

- A. The Contractor shall comply with the provisions of the City of Danville's *Standard Requirements & Instructions for Bidding*, Version 2.0 dated April 2, 2015 (hereinafter referred to as the Standard Requirements). A copy may be obtained from Purchasing or on the City's website at http://www.danvilleva.gov/DocumentCenter/View/17209/Standard-Requirements-and-Instructions-for-Bidding_updated-4-2-15?bidId=.
- B. The Contractor shall provide one authorized person on site to be responsible to direct and supervise the work of subcontractors any time subcontractors are performing work.
- C. Contractor shall cooperate with any other Contractors who may be performing work on the site.

3.2 SUBMISSION OF BID

- A. Submit the following with bid proposal:
 - 1. Completed bid proposal form (Pages numbered starting with "PP-" in this document)

2. Signed copies of each and every Addendum issued.
3. Bid Bond
4. Proofs of Insurance
5. Contractor Experience Form for Bridge Washing Contracts

3.3 PRE-AWARD SUBMITTALS

- A. Performance and Payment Bonds.

3.4 AWARD

- A. Award of this contract will be to the responsible bidder submitting the lowest priced responsive bid.

3.5 POST-CONTRACT EXECUTION SUBMITTALS

- A. Submit all required submittals and documentation as specified in the Contract Documents or as requested by the Project Manager.

3.6 SAFETY

- A. The Engineer or Inspector is authorized to stop work due to an apparent safety hazard or violation without warranting contract time extensions. This shall not in any way be construed to either relieve the Contractor of his sole responsibility for safety or hold the City responsible for the safety of the work zone.

3.7 SPECIAL PROVISIONS

- A. Access, Maintenance of Traffic, and Work Area Protection
 1. The Contractor shall provide all traffic control signs and devices required by the Virginia Work Area Protection Manual, 2011 edition incorporating Revision 1 dated April 1, 2015 and the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).
- B. Submittals
 1. Submit a schedule of operations to the project manager for approval prior to beginning work.
 2. Submit information on truck(s) used to wash bridges including the tag number, make and model.
 3. Submit the name, address, and telephone number of the landfill or disposal facility accepting the removed debris.

CITY OF DANVILLE
SPECIAL PROVISION FOR
RENEWABLE BRIDGE WASHING CONTRACT PROVISIONS

July 29, 2019

SECTION 101—DEFINITIONS OF ABBREVIATIONS, ACRONYMS, AND TERMS

Section 101.02—Terms of the Specifications is amended to include the following:

Renewable Contract. A contract that may be extended, in one year increments, for up to two additional years.

SECTION 103—AWARD AND EXECUTION OF CONTRACTS

Section 103.02—Award of Contract of the Specifications is renamed **Award of Contract and Contract Renewal** and amended to include the following:

The City may renew the Contract twice, provided the Department and Contractor are in agreement and the following conditions are met:

1. The Contractor's bonding agency provides written proof that it is in agreement with the Contract Renewal,
2. There are no increases in unit prices,
3. No new work items or bridges are added as a condition of the renewal,
4. The Contractor provides proof of insurance for the Contract Renewal in accordance with Section 103.06 of the Specifications.

Section 103.06(e) Progress Schedule for Category M Project of the Specifications is amended as follows:

Two Week Look-ahead (TWLA) Schedule of Operations is amended to permit the submission of the detailed Two Week Look-ahead (TWLA) schedule in either .pdf or spreadsheet format. The TWLA shall indicate all scheduled bridges, their anticipated start and completion dates, and the bridges scheduled for the next two weeks. In addition, if applicable, the TWLA shall include any outstanding issues associated with each scheduled bridge that may, affect impact operations schedule, completion dates, equipment, other stakeholders, etc. The Contractor shall submit the TWLA to the Engineer via email with copies to other stakeholders as mutually agreed upon.

SECTION 105—CONTROL OF WORK

Section 105.03(a) Authority of the Engineer of the Specifications is amended to include the following:

The Engineer may renew the contract in accordance with Section 103.02 herein.

SECTION 107—LEGAL RESPONSIBILITIES

Section 107.02—Permits, Certifications, and Operations of the Specifications is amended to include the following:

All contract work shall conform to permit conditions and regulatory approvals as detailed in the proposal or provided to the Contractor by the Engineer.

The Contractor shall be responsible to coordinate every aspect of his work with the railway company well in advance of work on each and every structure located on railroad right-of-way, and shall, prior to beginning work on the affected structure, obtain any and all permissions, permits, rights-of-entry, and insurance coverage required by the railway company.

The cost of railway permits will be paid by the City based on evidence of the actual cost to the contractor exclusive of administrative costs. If required by the railway company, the cost for flagmen supplied by the railway company will be paid by the City. All other costs including insurance coverage shall be incidental to and included in the lump sum cost for the structure.

The Contractor shall supply the Engineer with copies of rights-of-entry, permits, authorization to proceed, proof of required insurance coverage, and other permissions issued by the railway company as a requirement prior to beginning work on a structure located on railroad right-of-way.

For the purposes of this section, a structure is located on railroad right-of-way if any portion of it lies within the boundaries of the railroad right-of-way.

SECTION 108—PROSECUTION AND PROGRESS OF WORK

Section 108.01—Prosecution of Work of the Specifications is amended to include the following:

If the Contractor opts to suspend work temporarily, the Contractor shall notify the Engineer at least 24 hours in advance of the time and date he plans to suspend work. The Contractor shall ensure the work site has been properly and safely secured to protect the traveling public in accordance with the *Virginia Work Area Protection Manual*, the *MUTCD*, or specific language in the Contract prior to leaving the work site.

Section 108.02—Limitation of Operations of the Specifications is amended to replace (a) **General** with the following:

(a) **General**

The Contractor shall conduct the work in a manner and sequence that will ensure its expeditious completion with the least interference to traffic and shall have due regard for the location of detours and provisions for handling traffic. The Contractor shall not open any work to the prejudice or detriment of work already started. The Engineer may require the Contractor to finish the work on a bridge before work is started on any other bridge. The Contractor shall not start work on any bridge until the Engineer releases the bridge to the Contractor in writing.

SECTION 109—MEASUREMENT AND PAYMENT

Section 109.05(a) Work Orders of the Specifications is amended to include the following:

If the Engineer determines that this Contract should be renewed for another year and the Contractor agrees to the renewal, a bilateral Work Order will be executed to authorize the work for an additional year.

SECTION 512—MAINTAINING TRAFFIC

Section 512.03—Procedures of the Specifications is amended to include the following:

The Contractor shall submit a Maintenance of Traffic Plan with quantities for each bridge work zone and any planned lane or shoulder closures for review by the Engineer before commencing the work. The maintenance of traffic plan shall be in accordance with the *Virginia Work Area Protection Manual* and the *MUTCD*.

In addition to all requirements of the *Virginia Work Area Protection Manual* and the *MUTCD*, the following is also required:

1. Notice of proposed lane closures shall be given to the city in writing at least 2 working days prior to the closure.
2. An arrow board is required for any lane closure on a structure that has multiple travel lanes in the same direction.

3. For bridges located on two-lane highways carrying two-way traffic, a minimum clear travel lane of 11'-0" shall be maintained for traffic during the hours that work is being performed and two certified flaggers shall be used to control traffic from each direction through the open lane. If an 11'-0" lane is not possible to perform the necessary work, the Engineer may approve a reduced lane width upon submission of a traffic control plan (TCP).
4. For bridges located on four-lane highways, a minimum clear travel lane of 11'-0" shall be maintained for traffic in each direction during the hours that work is being performed.
5. During non-work periods, all existing traffic lanes shall be open to traffic and unrestricted.
6. All traffic lanes shall be open in the event of adverse weather conditions or traffic conditions that would create an unsafe condition for the traveling public, as determined by the Engineer or his designee. Precipitation, fog, and wind conditions above 30 MPH are examples of weather conditions that may be considered unsafe by the Engineer.
7. The Engineer may require the use of law enforcement personnel within the work zone, the cost of which will be paid by the City (typical cost is \$30/hour). The Contractor shall contact the Danville Sheriff's Office for law enforcement personnel if required.

CITY OF DANVILLE
SPECIAL PROVISION FOR
BRIDGE WASHING

July 29, 2019

I. DESCRIPTION

This work shall consist of cleaning designated bridge superstructure and substructure elements, surfaces, approaches, and drains. The attached schedule will contain the location of each structure and the extent of cleaning.

II. MATERIALS

Water for power washing may come from the waterway on which the bridge that is being washed is located and shall contain no additives. At locations where the bridge is over either salt or brackish water an alternate fresh water source shall be required. If the bridge is not over a waterway, the water should be taken from an acceptable waterway in the general area. Caution should be taken to avoid pumping a waterway dry.

III. PROCEDURES

A. General

- The Contractor shall clean a structure as directed by the Engineer. The Contractor shall submit the method of operations for each bridge to the Engineer for approval prior to beginning work. The Contractor shall notify the Engineer no less than 48 hours prior to commencement of work.
- The Contractor shall use a power wash system of no less than 3000 PSI and no greater than 5000 PSI (low water volume type) to power wash. Wash water and debris shall not be permitted to enter the waterway directly.
- Wash water shall be directed to adjacent vegetation or filtered by other approved methods. Wash water and debris may also be contained and removed to a permitted waste disposal facility. All superstructure and approach washing shall be completed before performing substructure washing.
- Before beginning work on any structure, the Contractor shall examine each site for evidence of migratory bird nesting and notify the Engineer when such evidence is found.
- If free liquid oil or similar fluids are present, the Engineer shall be notified prior to proceeding.
- The removed debris shall be disposed of in an appropriate permitted landfill or as directed by the Engineer.
- The Contractor shall ensure all crew members follow all OSHA personnel, equipment and safety regulations in accordance with Section 110.05 of the Specifications.
- Use temporary silt fencing and other erosion control measures where necessary to prevent stream bank sediments from entering the stream.
- The Contractor shall rinse, not power wash, the residues off of painted surfaces without damaging the protective coating.
- The contractor shall use care to not damage pavement markings.

B. Cleaning Bridge Decks: Work includes the entire deck between from abutment backwall to abutment backwall including joints, gutters, curbs, sidewalks, parapets, railings, concrete median strips, and the portions of appurtenances, such as light and sign standards, that can be reached without special lift equipment. Deck joints include both the upper exposed surface attached to the concrete as well as the area beneath the joint that is intended to remove water from the deck, and the top and upper edge of the compression seals joints.

1. Sweep loose material from parapets, railings, and sidewalks onto bridge deck by manual or mechanical means. Utilize mechanical removal devices (i.e., street sweepers) in areas where the equipment is available.

2. Sweep and collect material from the deck. Do not deposit material in drainage facilities or joints. Minimize discharge of loose material, grit and debris into the waters of the Commonwealth.
3. Remove remaining dirt and debris from deck joints and drains. Use high pressure air, or, when necessary, high pressure water, to remove dirt and gravel from strip seal glands and tooth dam troughs and compression joints to ensure water flows freely and that the seals don't get broken. Clean debris and dirt from top and edge of compression joints. Do not touch the seal with the wand nozzle. If using Anti-icing truck tankers, make sure the tanks have been cleaned and are free of salt before using to flush bridge decks.
4. Minimize the amount of debris entering the water body. For instance, where feasible, cover or plug scuppers to prevent debris and cleaning water from entering the stream.

C. Cleaning Scuppers, Downspouts, and other Drainage Elements

1. Remove debris from grating and lift grating/covering from scupper/drain.
2. Remove debris and sediment from scupper/drain box and pipe.
3. Flush pipe and down spouting with water. Do not use high-pressure water that may damage joints or anchors. Minimize discharge of loose material, grit and debris into the waters of the Commonwealth.
4. If debris has accumulated in down spouting, remove cleanout plugs as necessary and dislodge with water, snakes, or "roto-rooter" type devices.
5. Replace grating and cleanout plugs.

IV. MEASUREMENT AND PAYMENT

Bridge Washing (Type I) shall include deck drainage deck surface, sidewalks, curb and gutter, joints, railings and parapets.

Bridge Washing (Type II) shall include cleaning bearing seats, backwalls, bearings, beam ends and wash areas.

Bridge Washing (Type III) shall include cleaning both Bridge washing 1 and Bridge washing 2

Bridge cleaning of the type specified will be paid for on a lump sum basis per structure. This price shall be full compensation for all costs to complete the work.

Payment will be made under:

Pay item	Pay unit
Bridge Washing (Type) (Structure No.)	Lump Sum